

Form 27 Summary Letter
Soil Boring Investigation and Second Quarter 2019
Groundwater Monitoring Summary Report

Greeley Gas Plant
Weld County, Colorado
Spill Release Point ID #443870
Remediation Project #12644

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	- Y904417 (Soil)
	- Y904454 (Soil)
	- Y904463 (Soil)
	- Y904460 (Groundwater)

1. Introduction

Tasman Geosciences, Inc. (Tasman) on behalf of DCP Midstream, L.P. (DCP) has prepared this Form 27 Summary Report (Report) to detail field activities that occurred at the Greeley Gas Plant (Site) as part of an ongoing soil and groundwater investigation associated with subsurface impacts identified during previously completed construction activities involving the replacement of a produced water sump and secondary containment (sump).

The field activities were conducted with the purpose of further delineating the extent of impacted subsurface soils at the Site as well as monitoring groundwater flow and quality conditions in the site subsurface. Current site conditions were evaluated from field data and analytical laboratory results collected between April 24 and 26, 2019.

2. Site Location and Background

The Site is located in the southeastern quarter of the southwestern quarter of Section 25, Township 5 North, Range 66 West and the approximate coordinates are 40.363785 degrees north and -104.729330 degrees west (Figure 1). The Site is located approximately 0.3 miles east of the intersection of 36th Avenue and 49th Street within the DCP Greeley Gas Plant Facility in Weld County, Colorado.

A detailed description of the historical release activities and previously completed soil and groundwater investigation activities were provided in the Form 27 Summary Letter and Remediation Work Plan (Document Number 401940170) (Work Plan) which was reviewed and conditionally approved by the COGCC on February 27, 2019. As part of the conditional approval of the Work Plan, the COGCC requested additional Site investigations, including: 1) further delineation of impacted soils in the area of the sump replacement near MW04 (previously BH04); 2) re-screen and sample soils in the vicinity of former sample locations Greeley GP #1, Greeley GP #2, and Greeley GP #3, which were previously not analyzed for total petroleum hydrocarbons (TPH) during the December 2015 investigation as required by the COGCC; and, 3) installation of four additional groundwater monitoring wells to further delineate the extent of groundwater impacts at the Site.

This Report further details field activities performed in accordance with the COGCC Site investigation requirements as well as a summary of the second quarter 2019 site-wide groundwater monitoring activities and analytical results.

3. Soil Boring Investigation

Between April 24 and 26, 2019, Tasman on behalf of DCP conducted additional soil delineation activities at the eleven locations illustrated on Figure 2 using a combination of hydro-excavation (hydrovac), hand augering, and direct push drilling methods. Soil borings were advanced to approximate total depths ranging from 9 to 16-feet below ground surface (bgs) based on advancement methods. Due to the Site being located within a gas plant facility, health and safety protocols required soft digging practices to visually clear the area of potential buried utilities to 10-feet bgs. At boring locations designated for subsequent monitoring well construction (MW05 through MW08) a hydrovac truck was used to clear

the location of utilities. During the hydrovac process, attempts were made to sample the boring at 1-foot to 2-foot intervals using a hand auger. Following hydrovac activities, direct push drilling methods with continuous core sampling was utilized to characterize and sample soils at 1-foot intervals from 10-feet to 16-feet bgs. At soil boring locations BH05 through BH11, hand auger methods were selected for boring advancement as the primary objective was to delineate impacted soils in the shallow subsurface between zero and 10-feet bgs, in the vicinity of the sump and previously investigate locations. A hand auger was utilized to characterize and sample soils at 1-foot intervals up to 10-feet bgs, at which point the boring continually sloughed in due to the coarse-grained sands and groundwater encountered at approximately 8 to 10-feet bgs, preventing further advancement at these locations.

During auguring and drilling activities, recovered soils were field screened with a handheld photoionization detector (PID) and standard headspace soil sampling techniques, and observations of lithology characteristics, visual staining, odors, and PID measurements were recorded for each location. Details of each boring are recorded on the attached lithologic logs provided as Appendix A. Where adequate sample recovery was achieved, laboratory soil samples were collected from each soil boring at representative depths within the vadose zone, slightly above the presumed groundwater interface, at the base of the boring, and at locations with elevated PID detections.

Soil samples were submitted under chain of custody procedures to Origins Laboratory Inc. (Origins) for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and TPH- gasoline range organics (TPH-GRO) using USEPA method 8260C and TPH diesel range organics (DRO) using USEPA Method 8015C. The laboratory analytical data are summarized in Table 1, illustrated on Figure 3, and the laboratory analytical report is provided in Appendix B.

3.1 Soil Boring Observations and Analytical Results – Monitoring Well Locations

At boring locations MW05 through MW08, field screening observations indicated generally limited to no areas of soil impacts with a maximum PID reading of 62.7 parts per million (PPM) at sample location MW05 (MW05 @ 2-3'). Groundwater was identified at approximately 9 to 10-feet bgs with no apparent observations of impacted soils within the saturated zone from 9-feet to 16-feet bgs. Laboratory analytical results, summarized on Table 1, for samples collected at representative depths at all four boring locations (MW05 through MW08) were reported below laboratory reporting limits and below applicable COGCC standards for BTEX and TPH. These locations were subsequently completed as monitoring wells and sampled for groundwater quality, as further detailed in Section 4 below.

3.2 Soil Boring Observations and Analytical Results – Hand Auguring Locations

At soil boring locations BH06, BH07, BH09, BH10, and BH11, advanced via hand auger, field screening of soils indicated areas of noticeable hydrocarbon odors, staining and elevated PID readings ranging between 66.9 PPM at BH09@8-9' to 2,380 PPM at BH06@8'. However, soil analytical results from these five locations were reported below COGCC Table 910-1 standards for BTEX and TPH-GRO/DRO.

At soil boring BH08, located immediately south of the sump location, field screening of soils indicated strong TPH odors, stained soils and elevated PID readings ranging from 1,367 to 1,727 PPM, primarily within the capillary fringe and saturated soils. Soil analytical results were reported above the COGCC 910-1 standards at BH08@8-9' for benzene (9.22 milligrams per kilogram (mg/Kg)) and TPH-GRO/DRO (3,278 mg/kg), and at BH09@9-10' for benzene (0.170 mg/kg).

4. Groundwater Monitoring Well Installation and Monitoring Activities

During the April 24, 2019 investigation, groundwater monitoring wells were installed at the four soil boring locations (MW05 through MW08) illustrated on Figure 2 to further delineate groundwater conditions and hydraulic characteristics at the Site. Monitoring wells were constructed using standard practices as detailed in the lithologic soil boring logs provided in Appendix A. The wells were completed below grade and set within traffic rated steel well monuments set within concrete aprons, and subsequently surveyed for top-of-casing (TOC) elevation and global positioning system (GPS) locations coordinates.

On April 25, 2019, the new monitoring well locations were developed by purging a minimum of 10 well volumes of water until consistent groundwater re-charge was observed and water turbidity was reduced. Following well development, well gauging and standard hand-bailing sample collection methods were conducted at the new well locations and the previously completed monitoring wells (MW01 through MW04) that represents the Second Quarter 2019 Site-wide groundwater monitoring event.

4.2 Groundwater Elevation Monitoring

Groundwater levels were measured in order to evaluate hydraulic characteristics and provide information regarding seasonal fluctuations in groundwater elevations at the Site. During the second quarter 2019, groundwater levels were measured at the eight monitoring well locations.

Groundwater levels were measured on the north side of the well casing to the nearest 0.01-foot using an oil-water interface probe (IP). Groundwater level data were later converted to elevation (feet above mean sea level [AMSL]). Measured groundwater levels and the calculated groundwater elevations are presented in Table 2.

A groundwater elevation contour map, included as Figure 4, indicates that groundwater flow at the Site generally trends to the northwest. The range of groundwater elevations and the calculated average hydraulic gradient at the Site are summarized in the table below.

Summary of Measured Hydraulic Parameters

	Second Quarter 2019 (4/25/2019)
Maximum Elevation (Well ID)	4,670.99 (MW08)
Minimum Elevation (Well ID)	4,670.65 (MW05)
Average Hydraulic Gradient (ft/ft) / (Well IDs)	0.01 (MW05 to MW08)

4.3 Groundwater Quality Monitoring

Subsequent to recording groundwater level measurements at each monitoring well, groundwater samples were collected from each of the eight monitoring wells using disposable polyethylene bailers.

A minimum of three well casing volumes of groundwater were purged from each well prior to collecting groundwater samples. Groundwater samples were placed in clean laboratory supplied containers for the selected analytical methods, packed in an ice-filled cooler and maintained at approximately four (4) degrees Celsius (°C) for transportation and delivery under chain-of-custody procedures to Origins Laboratory for analysis.

Water quality samples were submitted for analysis of BTEX by United States Environmental Protection Agency (USEPA) Method 8260B. Additionally, monitoring well MW04 was also analyzed for full-suite volatile organic compounds (VOC) by USEPA Method 8260B, as requested by the COGCC.

Table 2 summarizes BTEX concentrations in groundwater samples collected during the reporting period and the laboratory analytical report for the second quarter 2019 is included in Appendix B. BTEX analytical results are also displayed on Figure 5.

Analytical results/observations for the second quarter 2019 groundwater monitoring event are summarized below:

- Benzene was reported above the COGCC Table 910-1 standard of 5 micrograms per liter (µg/L) at MW01 (370 µg/L), MW02 (823 µg/L), MW03 (575 µg/L), and at MW04 (2,570 µg/L). Benzene was reported below the COGCC standard and below laboratory reporting limits at compliance monitoring well locations MW05 through MW08.
- Toluene was below laboratory detection limits and/or the COGCC standard of 560 µg/L at all eight monitoring well locations.
- Ethylbenzene was below laboratory detection limits and/or the COGCC standard of 700 µg/L at all eight monitoring well locations.
- Total xylenes were reported above the COGCC standard of 1,400 µg/L at MW04 (4,190 µg/L). Total xylenes were reported below laboratory detection limits and/or the COGCC standard at the remaining seven monitoring well locations.
- Full-suite VOC analytical results for monitoring well MW01 are provided in the second quarter 2019 laboratory report provided in Appendix B.

5. Conclusions

Review of the soil boring and groundwater monitoring data for the Site provides the following general observations:

- Petroleum hydrocarbon impacts in soils within the vadose zone were reported above the COGCC standards at BH08. This is consistent with soil impacts previously identified at nearby BH04 (MW04) during the February 2018 investigation, indicating soils with residual impacts above COGCC standards remain in place in close proximity to the original sump replacement location.
- Soil analytical results in areas adjacent to the sump replacement and toward the east in the area of the initial December 2015 surface release, were reported below COGCC Table 910-1 standards for soil.
- Groundwater monitoring locations MW01 through MW04 exhibited concentrations of benzene and toluene and/or total xylenes above the COGCC Table 910-1 standards. Reported concentrations at these locations continue to fluctuate between monitoring events.
- At compliance well locations MW05 through MW08, BTEX concentrations at all four well locations were reported below COGCC standards indicating dissolved phase petroleum hydrocarbons associated with the sump release are confined on-Site.

6. Recommendations

Based on evaluation of data from the soil investigation and groundwater monitoring results, recommendations for future activities include:

Impacted soil that remains in place at the Site is located in areas that are considered inaccessible to active remediation efforts due to existing gas plant operations and infrastructure resulting in an unreasonable risk to human health and safety and the environment. Additionally, with the existing groundwater monitoring network on-Site, potential petroleum hydrocarbon impacts to groundwater from exiting impacted soil will be monitored on a quarterly basis. Therefore, Tasman on behalf of DCP is requesting to defer active remediation activities for soil at the Site until one of the following occurs; groundwater concentrations decrease to below COGCC Table 910-1 standards for four (4) consecutive quarters, at which time a supplemental soil sampling event will be performed. Should impacted soil be encountered during that event, additional impacted soil remediation activities will be evaluated; gas plant operations are discontinued, and impacted soil remediation activities can be conducted safely.

Tables

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE
DCP MIDSTREAM - GREELEY GAS PLANT
WELD COUNTY, COLORADO

Sample ID	Date Sampled	PID Reading (PPM)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH (mg/kg) ²
Greeley G.P. #1	12/2/2015	NA	<0.050	1.20	0.203	3.34	NA
Greeley G.P. #2	12/2/2015	NA	0.066	1.56	0.253	4.26	NA
Greeley G.P. #3	12/2/2015	NA	0.168	3.33	0.333	4.64	NA
BH01 @ 8.0'	11/29/2018	791	<0.0020	<0.0020	<0.0020	<0.0020	63.6
BH02 @ 6.0'	11/29/2018	2.1	<0.0020	<0.0020	<0.0020	<0.0020	<50
BH03 @ 7.0'	11/29/2018	4.5	<0.0020	<0.0020	<0.0020	<0.0020	<50
BH04 @ 2.0'	11/29/2018	870	4.42	3.76	13.6	284	4,705
BH04 @ 7.0'	11/29/2018	560	<0.0020	<0.0020	<0.0020	<0.0020	<50
MW05 @ 2-3'	4/24/2019	62.7	<0.0020	<0.0020	<0.0020	<0.0020	<50
MW05 @ 9-10'	4/24/2019	10.4	<0.0020	<0.0020	<0.0020	<0.0020	<50
MW05 @ 14-15'	4/24/2019	0.0	<0.0020	<0.0020	<0.0020	<0.0020	<50
MW06 @ 4-5'	4/24/2019	12.8	<0.0020	<0.0020	<0.0020	<0.0020	<50
MW06 @ 9-10'	4/24/2019	3.1	<0.0020	<0.0020	<0.0020	<0.0020	<50
MW06 @ 15-16'	4/24/2019	0.4	<0.0020	<0.0020	<0.0020	<0.0020	<50
MW07 @ 8-9'	4/24/2019	2.7	<0.0020	<0.0020	<0.0020	<0.0020	<50
MW07 @ 14-15'	4/24/2019	1.3	<0.0020	<0.0020	<0.0020	<0.0020	<50
MW08 @ 10-11'	4/24/2019	0.0	<0.0020	<0.0020	<0.0020	<0.0020	<50
MW08 @ 14-15'	4/24/2019	1.1	<0.0020	<0.0020	<0.0020	<0.0020	<50
BH05 @ 9'	4/25/2019	1330	<0.050	<0.050	<0.050	0.522	140.5
BH06 @ 6-7'	4/25/2019	2160	<0.050	<0.050	0.170	3.62	109
BH06 @ 8'	4/25/2019	2380	<0.050	0.0520	0.366	6.95	196.0
BH06 @ 9'	4/25/2019	1650	<0.050	0.596	0.758	11.60	224
BH07 @ 2-3'	4/25/2019	380.8	<0.0020	<0.0020	<0.0020	<0.0020	<50
BH07 @ 7-8'	4/25/2019	199.3	<0.0020	<0.0020	<0.0020	<0.0020	<50
BH07 @ 8.5'	4/25/2019	879.0	<0.050	<0.050	<0.050	0.470	<50
BH08 @ 8-9'	4/25/2019	1367	9.22	87.8	9.66	141	3,278
BH08 @ 9-10'	4/25/2019	1727	0.170	1.49	0.722	12.6	437
BH09 @ 3-4'	4/25/2019	398.7	0.00842	0.00232	<0.0020	0.0262	<50
BH09 @ 8-9'	4/25/2019	66.9	<0.0020	<0.0020	<0.0020	<0.0020	<50
BH10 @ 3-4'	4/25/2019	570.0	<0.0020	<0.0020	<0.0020	<0.0020	<50
BH10 @ 8.5'	4/25/2019	133.0	<0.0020	<0.0020	<0.0020	<0.0020	<50
BH11 @ 2-3'	4/26/2019	418.9	<0.0020	<0.0020	<0.0020	<0.0020	<50
BH11 @ 7-8'	4/26/2019	115.2	<0.0020	<0.0020	<0.0020	<0.0020	<50
BH11 @ 9'	4/26/2019	109.4	<0.0020	<0.0020	<0.0020	<0.0020	<50
COGCC standards for Soil (mg/kg)⁽¹⁾			0.17	85	100	175	500

1). Standards for Soil are referenced from the 2 CCR 404-1, Table 910-1, effective January 30, 2015.

2). TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.

GRO - Gasoline range organics.

DRO - Diesel range organics.

mg/kg= Milligrams per kilogram.

PID - Photoionization Detector

ppm - Parts per million

NA - Not Analyzed

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

TABLE 2
SUMMARY OF GROUNDWATER ELEVATION DATA
DCP GREELEY GAS PLANT
WELD COUNTY, COLORADO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event ¹ (feet)
MW01	12/4/2018	9.79	NM	--	13.83	4,678.49	4,668.70	NA
MW01	2/1/2019	10.46	NM	--	13.83	4,678.49	4,668.03	-0.67
MW01	4/25/2019	7.65	NM	--	13.83	4,678.49	4,670.84	2.81
MW02	12/4/2018	10.53	NM	--	14.20	4,679.37	4,668.84	NA
MW02	2/1/2019	11.22	NM	--	14.23	4,679.37	4,668.15	-0.69
MW02	4/25/2019	8.73	NM	--	14.23	4,679.42	4,670.69	2.54
MW03	12/4/2018	10.76	NM	--	14.63	4,679.67	4,668.91	NA
MW03	2/1/2019	11.41	NM	--	14.67	4,679.67	4,668.26	-0.65
MW03	4/25/2019	8.97	NM	--	14.67	4,679.67	4,670.70	2.44
MW04	12/4/2018	10.64	NM	--	14.08	4,679.44	4,668.80	NA
MW04	2/1/2019	11.32	NM	--	14.13	4,679.44	4,668.12	-0.68
MW04	4/25/2019	8.70	NM	--	14.13	4,679.44	4,670.74	2.62
MW05	12/4/2018	9.14	NM	--	14.37	4,679.79	4,670.65	NA
MW06	12/4/2018	8.53	NM	--	14.46	4,679.21	4,670.68	NA
MW07	12/4/2018	7.17	NM	--	13.89	4,678.01	4,670.84	NA
MW08	12/4/2018	6.00	NM	--	12.86	4,676.99	4,670.99	NA
Average change in groundwater elevation MW01 through MW04 (February 1, 2019 through April 25, 2019)								2.60

Notes:

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

amsl = feet above mean sea level

TOC = top of casing

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

NA = Not Applicable

TABLE 3
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
DCP GREELEY GAS PLANT
WELD COUNTY, COLORADO

Location Identification	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	
MW01	12/4/2018	6,290	27.8	512	4,800	
MW01	2/1/2019	4,740	1,050	648	4,370	
MW01	4/25/2019	370	49.3	38.0	624.5	
MW02	12/4/2018	24.1	<1.00	<1.00	<1.00	
MW02	2/1/2019	13.9	<1.00	<1.00	<1.00	
MW02	4/25/2019	823	15.6	14.1	65.7	
MW03	12/4/2018	13.6	<1.00	<1.00	<1.00	
MW03	2/1/2019	1.36	<1.00	<1.00	<1.00	
MW03	4/25/2019	575	<1.00	1.04	<1.00	
MW04	12/4/2018	562	66.7	244	2,310	
MW04	2/1/2019	123	7.96	230	1,550	
MW04	4/25/2019	2,570	53.3	235	4,190	
MW05	4/25/2019	<1.00	<1.00	<1.00	<1.00	
MW06	4/25/2019	<1.00	<1.00	<1.00	<1.00	
MW07	4/25/2019	<1.00	<1.00	<1.00	<1.00	
MW08	4/25/2019	<1.00	<1.00	<1.00	<1.00	

Notes:
1). The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 910-1 of the COGCC 900 Series Rule for E&P Waste Management. **Bold red** values indicate an exceedance of the COGCC groundwater standards for the Site.
µg/L = micrograms per liter.

Figures

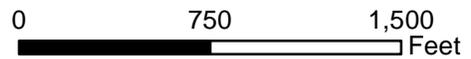
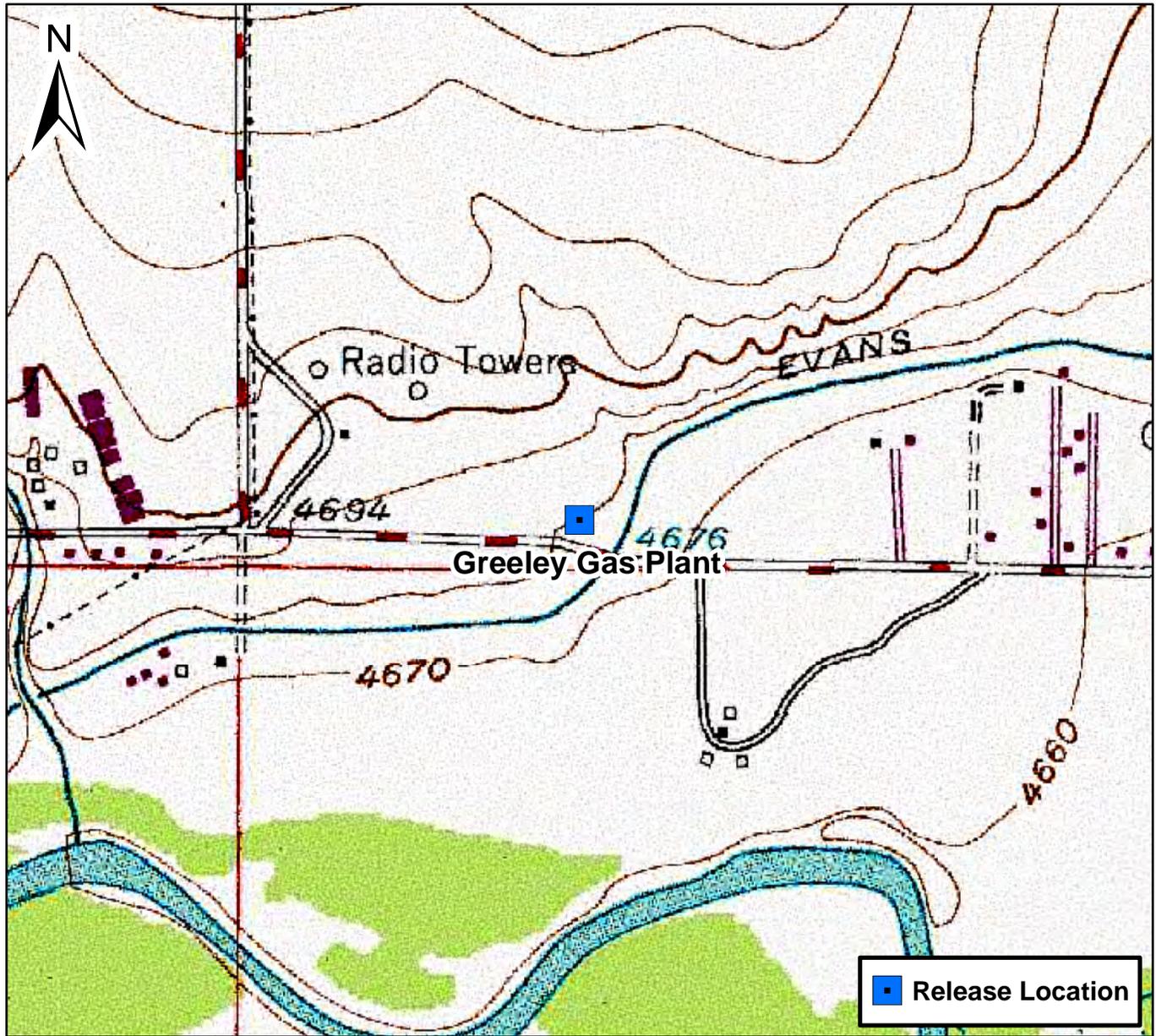


Figure 1
 Site Location Map
 Greeley Gas Plant
 SESW S25 T5N R66W
 Weld County, Colorado





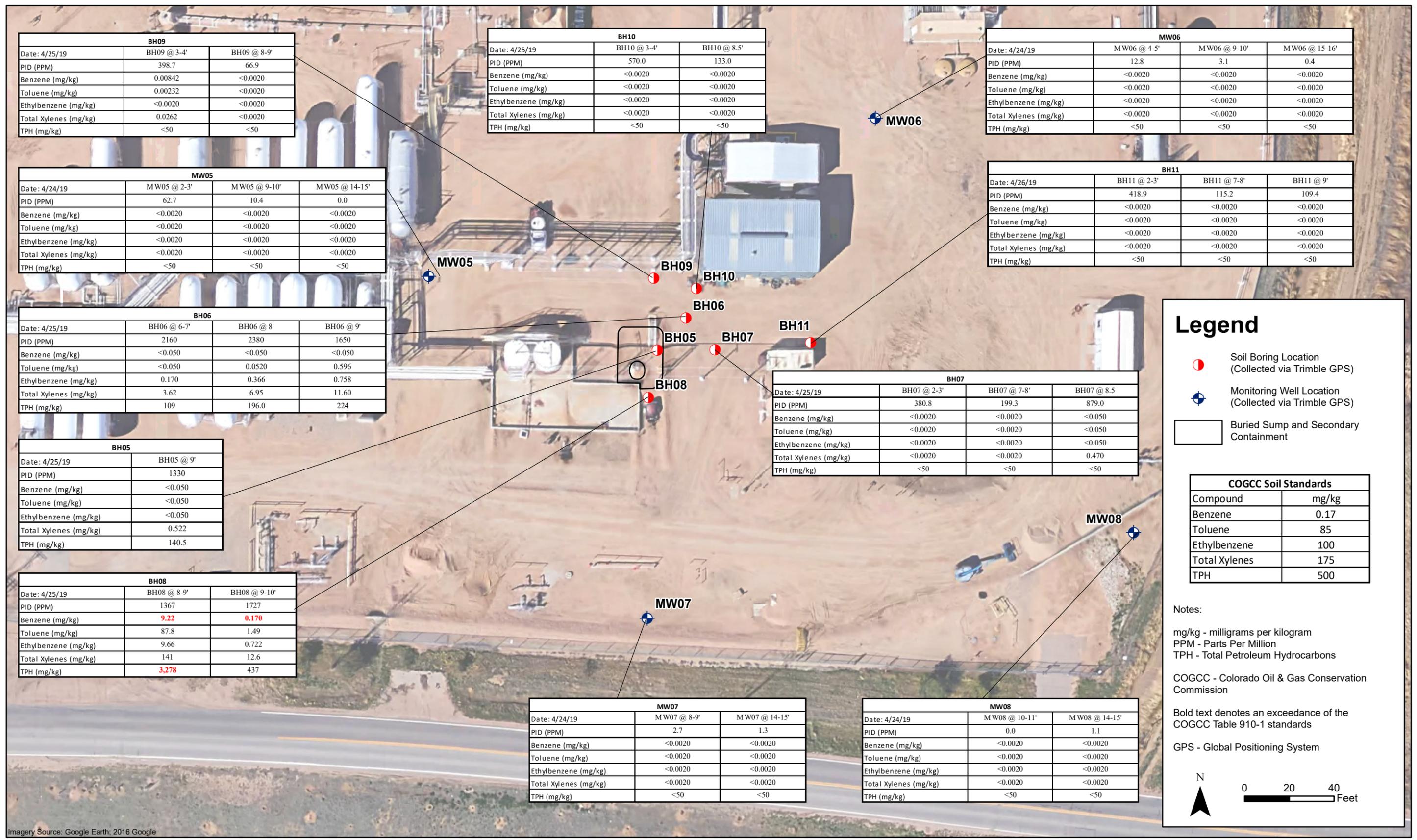
DATE: June 2019
 DESIGNED BY: B. Humphrey
 DRAWN BY: J. Clonts



**DCP Midstream
 Greeley Gas Plant**
 SESW Section 25, Township 5 North, Range 66 West
 Weld County, Colorado

Site Overview
 Map

Figure
 2



BH09		
Date: 4/25/19	BH09 @ 3-4'	BH09 @ 8-9'
PID (PPM)	398.7	66.9
Benzene (mg/kg)	0.00842	<0.0020
Toluene (mg/kg)	0.00232	<0.0020
Ethylbenzene (mg/kg)	<0.0020	<0.0020
Total Xylenes (mg/kg)	0.0262	<0.0020
TPH (mg/kg)	<50	<50

BH10		
Date: 4/25/19	BH10 @ 3-4'	BH10 @ 8.5'
PID (PPM)	570.0	133.0
Benzene (mg/kg)	<0.0020	<0.0020
Toluene (mg/kg)	<0.0020	<0.0020
Ethylbenzene (mg/kg)	<0.0020	<0.0020
Total Xylenes (mg/kg)	<0.0020	<0.0020
TPH (mg/kg)	<50	<50

MW06			
Date: 4/24/19	MW06 @ 4-5'	MW06 @ 9-10'	MW06 @ 15-16'
PID (PPM)	12.8	3.1	0.4
Benzene (mg/kg)	<0.0020	<0.0020	<0.0020
Toluene (mg/kg)	<0.0020	<0.0020	<0.0020
Ethylbenzene (mg/kg)	<0.0020	<0.0020	<0.0020
Total Xylenes (mg/kg)	<0.0020	<0.0020	<0.0020
TPH (mg/kg)	<50	<50	<50

MW05			
Date: 4/24/19	MW05 @ 2-3'	MW05 @ 9-10'	MW05 @ 14-15'
PID (PPM)	62.7	10.4	0.0
Benzene (mg/kg)	<0.0020	<0.0020	<0.0020
Toluene (mg/kg)	<0.0020	<0.0020	<0.0020
Ethylbenzene (mg/kg)	<0.0020	<0.0020	<0.0020
Total Xylenes (mg/kg)	<0.0020	<0.0020	<0.0020
TPH (mg/kg)	<50	<50	<50

BH11			
Date: 4/26/19	BH11 @ 2-3'	BH11 @ 7-8'	BH11 @ 9'
PID (PPM)	418.9	115.2	109.4
Benzene (mg/kg)	<0.0020	<0.0020	<0.0020
Toluene (mg/kg)	<0.0020	<0.0020	<0.0020
Ethylbenzene (mg/kg)	<0.0020	<0.0020	<0.0020
Total Xylenes (mg/kg)	<0.0020	<0.0020	<0.0020
TPH (mg/kg)	<50	<50	<50

BH06			
Date: 4/25/19	BH06 @ 6-7'	BH06 @ 8'	BH06 @ 9'
PID (PPM)	2160	2380	1650
Benzene (mg/kg)	<0.050	<0.050	<0.050
Toluene (mg/kg)	<0.050	0.0520	0.596
Ethylbenzene (mg/kg)	0.170	0.366	0.758
Total Xylenes (mg/kg)	3.62	6.95	11.60
TPH (mg/kg)	109	196.0	224

BH07			
Date: 4/25/19	BH07 @ 2-3'	BH07 @ 7-8'	BH07 @ 8.5'
PID (PPM)	380.8	199.3	879.0
Benzene (mg/kg)	<0.0020	<0.0020	<0.050
Toluene (mg/kg)	<0.0020	<0.0020	<0.050
Ethylbenzene (mg/kg)	<0.0020	<0.0020	<0.050
Total Xylenes (mg/kg)	<0.0020	<0.0020	0.470
TPH (mg/kg)	<50	<50	<50

BH05	
Date: 4/25/19	BH05 @ 9'
PID (PPM)	1330
Benzene (mg/kg)	<0.050
Toluene (mg/kg)	<0.050
Ethylbenzene (mg/kg)	<0.050
Total Xylenes (mg/kg)	0.522
TPH (mg/kg)	140.5

BH08		
Date: 4/25/19	BH08 @ 8-9'	BH08 @ 9-10'
PID (PPM)	1367	1727
Benzene (mg/kg)	9.22	0.170
Toluene (mg/kg)	87.8	1.49
Ethylbenzene (mg/kg)	9.66	0.722
Total Xylenes (mg/kg)	141	12.6
TPH (mg/kg)	3,278	437

MW07		
Date: 4/24/19	MW07 @ 8-9'	MW07 @ 14-15'
PID (PPM)	2.7	1.3
Benzene (mg/kg)	<0.0020	<0.0020
Toluene (mg/kg)	<0.0020	<0.0020
Ethylbenzene (mg/kg)	<0.0020	<0.0020
Total Xylenes (mg/kg)	<0.0020	<0.0020
TPH (mg/kg)	<50	<50

MW08		
Date: 4/24/19	MW08 @ 10-11'	MW08 @ 14-15'
PID (PPM)	0.0	1.1
Benzene (mg/kg)	<0.0020	<0.0020
Toluene (mg/kg)	<0.0020	<0.0020
Ethylbenzene (mg/kg)	<0.0020	<0.0020
Total Xylenes (mg/kg)	<0.0020	<0.0020
TPH (mg/kg)	<50	<50

Legend

- Soil Boring Location (Collected via Trimble GPS)
- Monitoring Well Location (Collected via Trimble GPS)
- Buried Sump and Secondary Containment

COGCC Soil Standards	
Compound	mg/kg
Benzene	0.17
Toluene	85
Ethylbenzene	100
Total Xylenes	175
TPH	500

Notes:

- mg/kg - milligrams per kilogram
- PPM - Parts Per Million
- TPH - Total Petroleum Hydrocarbons

COGCC - Colorado Oil & Gas Conservation Commission

Bold text denotes an exceedance of the COGCC Table 910-1 standards

GPS - Global Positioning System

Imagery Source: Google Earth; 2016 Google

DATE:	June 2019
DESIGNED BY:	B. Humphrey
DRAWN BY:	J. Clonts

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

**DCP Midstream
 Greeley Gas Plant**
 SESW Section 25, Township 5 North, Range 66 West
 Weld County, Colorado

Soil Analytical
 Results Map

Figure
 3



Imagery Source: Google Earth; 2016 Google

DATE:	June 2019
DESIGNED BY:	B. Humphrey
DRAWN BY:	C. Olson

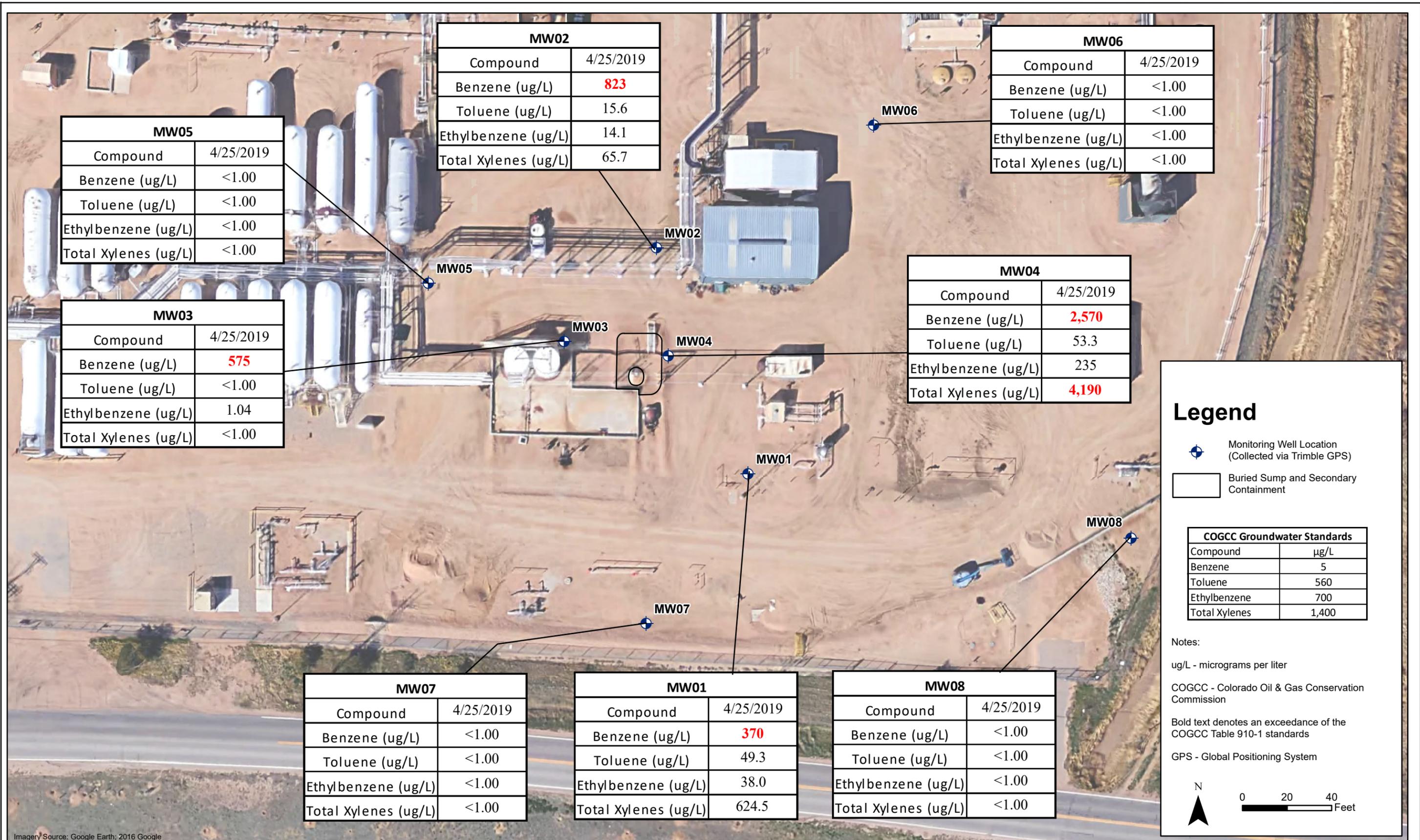


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**DCP Midstream
 Greeley Gas Plant**
 SESW Section 25, Township 5 North, Range 66 West
 Weld County, Colorado

Groundwater Elevation
 Contour Map
 (April 25, 2019)

Figure
 4



DATE: June 2019
 DESIGNED BY: B. Humphrey
 DRAWN BY: J. Clonts



**DCP Midstream
 Greeley Gas Plant**
 SESW Section 25, Township 5 North, Range 66 West
 Weld County, Colorado

Groundwater Analytical Results
 Map
 (April 25, 2019)

Figure
 5

Appendix A

Lithologic Boring and Well Construction Logs



Borehole Logging Form

	SITE NAME: Greeley Gas Plant	CLIENT NAME: DCP
Date Started: 11/29/2018	Location: BH01	
Date Completed: 11/29/2018	TOC Elevation: 4678.49	DTW: 10'
Type of Drill: Direct Push Probe	Geologist: J. Carrington	
Bit Size: 2-1/2"	Project Manager: B. Humphrey	

Drilling Company: Tasman

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description	
1	Well Screen Sand Pack							
2			100	38		SW	Coarse Sand, w/ gravels, minimal fines, Brown, light TPH odor (via hand auger)	
3								
4								
5				100	80		SW	Coarse Sand, w/ gravels, minimal fines, Brown, light TPH odor (via hand auger)
6								
7				100	210			Coarse Sand, decrease in gravels, inc. in moisture Well-graded, grey, TPH odor (via hand auger)
8				100	791	yes @ 11:00		As above
9			50	54			As above, decrease in TPH odor, grey (via hand auger)	
10			60	35			As above	
11			60	1038		SM	Finer sands, well-graded, with silt, no gravel, Grey, TPH odor. (Via continuous core)	
12								
13							As above	
14							As above	
15							As above	
16				720		SW	Coarse Sand, w/ gravels, minimal fines, Brown, degraded TPH odor (via continuous core) Boring depth = 16'.	
17								
18								
19								
20								

Well Backfill Materials:

- Concrete with flush mount monument
- Hydrated bentonite with 10% grout mix
- Hydrated bentonite



Borehole Logging Form

	SITE NAME: Greeley Gas Plant	CLIENT NAME: DCP
Date Started: 11/29/2018	Location: BH02	
Date Completed: 11/29/2018	TOC Elevation: 4679.37	DTW: 10'
Type of Drill: Direct Push Probe	Geologist: J. Carrington	
Bit Size: 2-1/2"	Project Manager: B. Humphrey	

Drilling Company: Tasman

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description	
1	Well Screen Sand Pack		100	0.5		SM	Silty sands, fill material, w/ coarse sands, Blank, no odor. (Via hand auger)	
2			100	42		SM	As above, increase in fines, black no odor. (via and auger)	
3								
4				100	23		SW	Coarse Sand, w/ gravels, minimal fines, Grey, no odor (via hand auger)
5								
6				100	2.1	yes @ 14:10	SW	As above
7								
8								
9								
10			35	2.0		SW	As above, loss of recovery due to coarseness	
11				15		SW	As above	
12				13		SW	As above	
13								
14				5.0		SM	As above, increase in fines, trace gravels Brown, no staining, no odor.	
15							As above	
16				1.6		SM	As above Boring depth = 16'.	
17								
18								
19								
20								

Well Backfill Materials:

- Concrete with flush mount monument
- Hydrated bentonite with 10% grout mix
- Hydrated bentonite



Borehole Logging Form

	SITE NAME: Greeley Gas Plant	CLIENT NAME: DCP
Date Started: 11/29/2018	Location: BH03	
Date Completed: 11/29/2018	TOC Elevation: 4679.67	DTW: 11'
Type of Drill: Direct Push Probe	Geologist: J. Carrington	
Bit Size: 2-1/2"	Project Manager: B. Humphrey	

Drilling Company: Tasman

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description	
1	Well Screen Sand Pack		100	58.0		SM	Silty sand, with clay fines, coarse sand, trace gravels, Black, no odor (via hand auger)	
2								
3								
4				100	23		SW	Coarse Sands, well graded, w/ gravels, Grey/black, no odor (via hand auger)
5								
6								
7				100	4.5	yes @ 15:00	SW	As above
8								
9								
10								
11	▼							
12								
13								
14			100	3.5		SW	Coarse sands, well graded, increase in grain size, w/ gravels, no staining, no odor	
15								
16				1.8		SP	Finer sands intermixed, no gravel, no staining No odor. End of boring = 16' bgs	
17								
18								
19								
20								

Well Backfill Materials:

- Concrete with flush mount monument
- Hydrated bentonite with 10% grout mix
- Hydrated bentonite



Borehole Logging Form

	SITE NAME: Greeley Gas Plant	CLIENT NAME: DCP
Date Started: 11/29/2018	Location: BH04	
Date Completed: 11/29/2018	TOC Elevation: 4679.44	DTW: 10'
Type of Drill: Direct Push Probe	Geologist: J. Carrington	
Bit Size: 2-1/2"	Project Manager: B. Humphrey	

Drilling Company: Tasman

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description	
1	Well Screen Sand Pack							
2			100	870	Yes	SW	Sandy silt, some clay- cohesive, w/ gravels and coarse sands, black staining, TPH odor (via hand auger)	
3								
4								
5				100	51		SW	Coarse sand, w/ larger gravels, light brown, no staining, no odor (via hand auger)
6								
7								
8				100	560	yes @ 11:45	SW	As above, increase in moisture, grey/ black Staining, TPH Odor (via hand auger)
9								
10			100	25		SW	Coarse sands, well graded, with gravel, no staining, no odor (via hand auger)	
11								
12			100	1310			As above, increase in TPH odor, grey staining	
13							As above	
14			100	1197			As above	
15			100	600.0			As above	
16			100	225		SW	As above, increase in finer sands, no gravel Grey, light TPH odor, Boring depth = 16'.	
17								
18								
19								
20								

Well Backfill Materials:

- Concrete with flush mount monument
- Hydrated bentonite with 10% grout mix
- Hydrated bentonite



Borehole Logging Form

	SITE NAME: Greeley Gas Plant	CLIENT NAME: DCP
Date Started: 4/24/2019	Location: MW05	
Date Completed: 4/24/2019	TOC Elevation:	DTW: 9'
Type of Drill: Hydrovac to 9', Direct Push Probe	Geologist: J. Carrington	
Bit Size: 2-1/2"	Project Manager: B. Humphrey	
Drilling Company: Tasman		

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1	Well Screen Sand Pack			14.5		CL	Sandy Clay with gravel, road base, damp, slight TPH odor, no stain (via hand auger)
2				62.7	yes @ 11:55	SC	Clayey sand, fine grained, with gravels, moist, poorly graded, dark brown, no odor, no stain (via hand auger)
3				30.9		SP-SM	Silty sand, with gravels, fine to course, dark brown, TPH odor, no stain (via hand auger)
4				7.3		SP-SM	Silty sand, with gravels, moist, fine to course, black, TPH odor, HC stain (via hand auger)
5				11.3		SP-SW	As above (via hand auger)
6				10.4	yes @ 12:00	SP	Coarse sands, well graded, with gravel, no staining, no odor (via hand auger)
7				3.2		SP	As above, increase in TPH odor, grey staining
8				0.0		SP	Gravelly sands, poorly graded, wet, grey, degraded TPH odor
9				0.0		SP	Gravelly sands, poorly graded, wet, grey, degraded TPH odor
10				0.0	yes @ 12:15	SP	Gravelly sands, fining downwards, wet, brown no stain, no odor
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Well Backfill Materials:

- Concrete with flush mount monument
- Hydrated bentonite



Borehole Logging Form

	SITE NAME: Greeley Gas Plant	CLIENT NAME: DCP
Date Started: 4/24/2019	Location: MW06	
Date Completed: 4/24/2019	TOC Elevation:	DTW: 9'
Type of Drill: Hydrovac to 9', Direct Push Probe	Geologist: J. Carrington	
Bit Size: 2-1/2"	Project Manager: B. Humphrey	
Drilling Company: Tasman		

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description	
1	Well Screen Sand Pack			14.6		SP	Silty sand with gravel, road base, damp, slight TPH odor, no stain (via hand auger)	
2				8.8		SC	Clayey sand, silty sands, fine grained, moist, dark brown, slight TPH odor, no stain (via hand auger)	
3								
4								
5					12.8	yes @ 1130	SP	Silty sand, with gravels, course grained, dark brown, no odor, no stain (via hand auger)
6								
7					9.7		SP-SW	Sand, with gravels, moist, fine to course, grey, slight TPH odor (via hand auger)
8								
9		▼						
10					3.1	yes @ 1135	SP-SW	As above (via hand auger)
11					1.2		SP	Coarse sands, poorly graded, some fines, with gravel, wet, grey to brown, no odor
12					1.3		SP	As above, all grey, no odor
13								
14					1.1		SP	Gravely sands, increase in gravel size, grey, wet no odor,
15								
16					0.4	yes @ 1140	SP	As above, increase in fine content, grey no stain, no odor
17								
18								
19								
20								

Well Backfill Materials:

	Concrete with flush mount monument
	Hydrated bentonite



Borehole Logging Form

	SITE NAME: Greeley Gas Plant	CLIENT NAME: DCP
Date Started: 4/24/2019	Location: MW07	
Date Completed: 4/24/2019	TOC Elevation:	DTW: 9'
Type of Drill: Hydrovac to 9', Direct Push Probe	Geologist: J. Carrington	
Bit Size: 2-1/2"	Project Manager: B. Humphrey	
Drilling Company: Tasman		

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1	Well Screen Sand Pack			0.7		SM	Silty sands, with organics, with gravel, road base, no odor, no stain (via hand auger)
2							
3				14.6		SP	Course sands, with fines, gravels, brown, no odor, no stain (via hand auger)
4							
5				4.7		SP	As above (via hand auger)
6							
7				3.5		SP	As above (via hand auger)
8				8.3		SP	As above (via hand auger)
9				2.7	yes @ 1055		
10				2.0		SP	Coarse sands, poorly graded, some fines, with gravel, wet, grey to brown, no odor
11				7.0		SP	As above
12							
13				0.9		SP	As above
14				1.1		SP	As above, change to grey color. No odor no odor,
15				1.3	yes @ 1100	SW	Sands, with fines, fining downwards, grey, no stain, no odor
16							
17							
18							
19							
20							

Well Backfill Materials:

- Concrete with flush mount monument
- Hydrated bentonite



Borehole Logging Form

	SITE NAME: Greeley Gas Plant	CLIENT NAME: DCP
Date Started: 4/24/2019	Location: MW08	
Date Completed: 4/24/2019	TOC Elevation:	DTW: 9'
Type of Drill: Hydrovac to 9', Direct Push Probe	Geologist: J. Carrington	
Bit Size: 2-1/2"	Project Manager: B. Humphrey	
Drilling Company: Tasman		

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description	
1	Well Screen Sand Pack			0.5		SM	Silty sands, with organics, with gravel, road base, dark brown, no odor, no stain (via hand auger)	
2				0.1		SP	As above	
3								
4					0.0		SP	Course sands, with fines, gravels, brown, no odor, no stain (via hand auger)
5								
6					0.0		SP	As above (via hand auger)
7								
8					0.0		SP	As above (via hand auger)
9					0.0		SP	As above (via hand auger)
10					0.0		SP	Coarse sands, poorly graded, some fines, with gravel, saturated, brown, no odor
11					0.0	yes @ 1000	SP	As above
12					0.0		SP	As above, change to grey/brown
13								
14					0.0		SM	Silty sands, low moisture contents, hard, grey with no odor,
15					1.1	yes @ 1010	SM	As above, tan color, no odor.
16								
17								
18								
19								
20								

Well Backfill Materials:

Concrete with flush mount monument

Hydrated bentonite



Borehole Logging Form

	SITE NAME: Greeley Gas Plant	CLIENT NAME: DCP
Date Started: 4/25/2019	Location: BH05	
Date Completed: 4/25/2019	TOC Elevation:	DTW: 9'
Type of Drill: 2" Hand Auger	Geologist: J. Carrington	
Bit Size: 2"	Project Manager: B. Humphrey	
Drilling Company: Tasman		

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1							
2				2.5		SM	Silty sand, course sands, fill dirt/road base, dark brown, no odor
3				6.4		SM	As above
4				24.2		SM	As above
5				46.8			As above
6				22.0		SM	Silty sands, some course sands, moist, dark brown, TPH odor
7				385.0		SP	Course sands with silts, black stain TPH odor, moist
8			0				No recovery
9				836.0		SP	Course sands, gravels, some silts, black stain, moist, TPH odor
10				1330.0	yes @ 1120	SP	Course sands, increase in gravel size 0.5-1", Black staining, saturated, TPH odor
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Well Backfill Materials:



Concrete with flush mount monument
Hydrated bentonite



Borehole Logging Form

	SITE NAME: Greeley Gas Plant	CLIENT NAME: DCP
Date Started: 4/25/2019	Location: BH06	
Date Completed: 4/25/2019	TOC Elevation:	DTW: 9'
Type of Drill: 2" Hand Auger	Geologist: J. Carrington	
Bit Size: 2"	Project Manager: B. Humphrey	
Drilling Company: Tasman		

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1							
2				401.3		SM-SC	Silty, clayey sand, coarse sands, fill dirt/road base, dark brown, strong TPH odor
3				1480.0		SM-SC	As above
4				1979.0		SP	Course sand, with fines, brown, no stain, mod TPH odor.
5				2173.0		SP-SW	fine to very course sand, gravels, TPH odor, no stain
6				1892.0		SP-SW	As above
7				2160.0	yes @ 1100	SP-SW	As above, flowing, hard to sample.
8				2265.0		SP-SW	As above
9	▼			2380.0	yes @ 1345	SP-SW	As above, with black staining, TPH odor
10				1650.0	yes @ 1120	SP-SW	As above, saturated.
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Well Backfill Materials:

	Concrete with flush mount monument
	Hydrated bentonite



Borehole Logging Form

	SITE NAME: Greeley Gas Plant	CLIENT NAME: DCP
Date Started: 4/25/2019	Location: BH07	
Date Completed: 4/25/2019	TOC Elevation:	DTW: 9'
Type of Drill: 2" Hand Auger	Geologist: J. Carrington	
Bit Size: 2"	Project Manager: B. Humphrey	
Drilling Company: Tasman		

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1				248.1		SC	Clayey sands, road base, fill dirt, damp dark brown, no stain, no odor
2				312.6		SC	As above
3				380.8	yes @ 1450	SW	Sands with gravel, well graded, moist, light TPH odor, no stain
4				182.7		SP-SW	As above, tan color
5				153.1		SP-SW	As above
6				283.1		SP-SW	As above, loose flowing, hard to sample
7				261.0		SP-SW	As above, loose flowing, hard to sample
8				199.3	yes @ 1455	SP-SW	As above with black staining, TPH odor,
9	▼			879.0	yes @ 1500	SP-SW	As above, with black staining, TPH odor
10				358.0		SP-SW	As above, saturated.
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Well Backfill Materials:

	Concrete with flush mount monument
	Hydrated bentonite



Borehole Logging Form

	SITE NAME: Greeley Gas Plant	CLIENT NAME: DCP
Date Started: 4/25/2019	Location: BH08	
Date Completed: 4/25/2019	TOC Elevation:	DTW: 9'
Type of Drill: 2" Hand Auger	Geologist: J. Carrington	
Bit Size: 2"	Project Manager: B. Humphrey	
Drilling Company: Tasman		

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1							
2						SM	Silty sand, course sands, fill dirt/road base, dark brown, no odor
3				7.6		SM	As above
4				16.4		SM	As above
5				21.1			Course sands, with gravel, some fines, moist brown, no odor, no stain.
6				73.0		SM	As above
7				66.0		SP	As above with light TPH odor
8			0	189.0			Course sands, gravels, some fines, black stain, TPH odor
9	▼			1367.0	yes @ 1305	SP	As above, increase in gravel size 0.5-1", moist black staining, TPH odor.
10				1727.0	yes @ 1315	SP	As above, saturated at groundwater Black staining, TPH odor
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Well Backfill Materials:



Concrete with flush mount monument
Hydrated bentonite



Borehole Logging Form

	SITE NAME: Greeley Gas Plant	CLIENT NAME: DCP
Date Started: 4/25/2019	Location: BH09	
Date Completed: 4/25/2019	TOC Elevation:	DTW: 9'
Type of Drill: 2" Hand Auger	Geologist: J. Carrington	
Bit Size: 2"	Project Manager: B. Humphrey	
Drilling Company: Tasman		

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1				28.4		SC	Clayey sands, road base, fill dirt, damp dark brown, no stain, no odor
2				181.3		SC	As above
3				287.9		SW	Sands with gravel, well graded, with silt moist, light TPH odor, no stain
4				398.7	yes @ 1355	SP-SW	As above, tan color
5				212.5		SP-SW	As above
6				142.7		SP-SW	Sands with gravel, well graded, minimal fines, moist, loose, TPH odor
7				122.9		SP-SW	As above, loose flowing,
8				101.1		SP-SW	As above, TPH odor,
9	▼			66.9	yes @ 1400	SP-SW	As above, TPH odor
10				69.0		SP-SW	As above, black staining, saturated in GW. TPH odor, TPH stain
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Well Backfill Materials:

	Concrete with flush mount monument
	Hydrated bentonite



Borehole Logging Form

	SITE NAME: Greeley Gas Plant	CLIENT NAME: DCP
Date Started: 4/25/2019	Location: BH10	
Date Completed: 4/25/2019	TOC Elevation:	DTW: 9'
Type of Drill: 2" Hand Auger	Geologist: J. Carrington	
Bit Size: 2"	Project Manager: B. Humphrey	
Drilling Company: Tasman		

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1				50.0		SC	Clayey-silty sands, road base, fill dirt, damp dark brown, no stain, no odor
2				365.0		SC	As above with light phase VOC odor (acetone)
3				323.0		SW	Sands with gravel, well graded, some fines moist, light TPH odor, no stain
4				570.0	yes @ 1430	SP-SW	As above, tan color
5				67.5		SP-SW	Fine to course sands, with gravels, brown Light TPH odor, no stain.
6				155.0		SP-SW	As above, change to grey-black moist, loose, TPH odor
7				60.8		SP-SW	
8				136.0		SP-SW	As above,
9	▼			133.0	yes @ 1440	SP-SW	As above, TPH odor
10				223.0		SP-SW	As above, black staining, saturated in GW. TPH odor, TPH stain
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Well Backfill Materials:



Concrete with flush mount monument
Hydrated bentonite



Borehole Logging Form

	SITE NAME: Greeley Gas Plant	CLIENT NAME: DCP
Date Started: 4/26/2019	Location: BH11	
Date Completed: 4/26/2019	TOC Elevation:	DTW: 9'
Type of Drill: 2" Hand Auger	Geologist: A. Hamilton	
Bit Size: 2"	Project Manager: B. Humphrey	
Drilling Company: Tasman		

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1				394.1		SC	Clayey-silty sands, road base, fill dirt, damp dark brown, no stain, no odor
2				301.7		SC	As above
3				418.9	yes	SW	As above, tan color
4				347.9		SW	As above, tan color
5				224.1		SW	Sand, very fine to course, well graded, tan, TPH odor,
6				115.6		SW	As above, change to grey-black moist, loose, TPH odor
7				176.3		SW	
8				115.2	yes	SW	As above,
9	▼			109.4	yes	SP	Sand, saturated, medium to very coarse sands, with gravel, sulfur odor, grey.
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Well Backfill Materials:

	Concrete with flush mount monument
	Hydrated bentonite

Appendix B

Laboratory Analytical Report

- Origins Laboratory - Y904417 (Soil)
- Origins Laboratory - Y904454 (Soil)
- Origins Laboratory - Y904463 (Soil)
- Origins Laboratory - Y904460 (Groundwater)



April 30, 2019

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Denver

CO 80211

Project Name - DCP Greeley Gas Plant

Project Number - [none]

Attached are your analytical results for DCP Greeley Gas Plant received by Origins Laboratory, Inc. April 24, 2019. This project is associated with Origins project number Y904417-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645



June 12, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - DCP Greeley Gas Plant

Project Number - [none]

Attached are your analytical results for DCP Greeley Gas Plant received by Origins Laboratory, Inc. April 25, 2019. This project is associated with Origins project number Y904454-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

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303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP Greeley Gas Plant

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH05@9'	Y904454-01	Soil	April 25, 2019 11:20	04/25/2019 17:00
BH06@6-7'	Y904454-02	Soil	April 25, 2019 11:00	04/25/2019 17:00
BH06@8'	Y904454-03	Soil	April 25, 2019 13:45	04/25/2019 17:00
BH06@9'	Y904454-04	Soil	April 25, 2019 13:50	04/25/2019 17:00
BH07@2-3'	Y904454-05	Soil	April 25, 2019 14:50	04/25/2019 17:00
BH07@7-8'	Y904454-06	Soil	April 25, 2019 14:55	04/25/2019 17:00
BH07@8.5'	Y904454-07	Soil	April 25, 2019 15:00	04/25/2019 17:00
BH08@8-9'	Y904454-08	Soil	April 25, 2019 13:05	04/25/2019 17:00
BH08@9-10'	Y904454-09	Soil	April 25, 2019 13:15	04/25/2019 17:00
BH09@3-4'	Y904454-10	Soil	April 25, 2019 13:55	04/25/2019 17:00
BH09@8-9'	Y904454-11	Soil	April 25, 2019 14:00	04/25/2019 17:00
BH10@3-4'	Y904454-12	Soil	April 25, 2019 14:30	04/25/2019 17:00
BH10@8.5'	Y904454-13	Soil	April 25, 2019 14:40	04/25/2019 17:00

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y904454

Client: Tasman

Client Project ID: DCP CR43 + CR13 *Greeley Gas Plant*

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/26/2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other _____ (Describe)

Cooler Number/Temperature: 1 / 5.6 °C _____ °C _____ °C _____ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{1)?}	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ^{1)?}	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ^{1)?}	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ^{1)?}		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ^{1)?}	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ^{1)?}	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ^{1)?}	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ^{1)?}	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ^{1)?} (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/pH <2 for samples preserved with HNO3 HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: [Signature]
 (Project Manager)

4/29/19
 Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

BH05@9'
4/25/2019 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904454-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D2902	JTD	04/29/2019	04/30/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	0.522	0.0500	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	38.5	5.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	102	50.0	mg/kg	1	B9D2903	JTD	04/29/2019	04/30/2019	
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Surrogate: o-Terphenyl	96.3 %	50-150			"	"	"	"	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

BH06@6-7'

4/25/2019 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904454-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D2902	JTD	04/29/2019	05/01/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	0.170	0.0500	"	"	"	JTD	"	"	
Xylenes, total	3.62	0.0500	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	109	50.0	"	250	"	JTD	"	04/30/2019	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2903	JTD	04/29/2019	04/30/2019	U
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Surrogate: o-Terphenyl	86.4 %	50-150			"	"	"	"	
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Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

BH06@8'
4/25/2019 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904454-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D2902	JTD	04/29/2019	05/01/2019	U
Toluene	0.0520	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	0.366	0.0500	"	"	"	JTD	"	"	
Xylenes, total	6.95	0.500	"	250	"	JTD	"	04/30/2019	
Gasoline Range Hydrocarbons	196	50.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2903	JTD	04/29/2019	04/30/2019	U
Surrogate: o-Terphenyl	96.8 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

BH06@9'
4/25/2019 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904454-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D2902	JTD	04/29/2019	05/01/2019	U
Toluene	0.596	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	0.758	0.0500	"	"	"	JTD	"	"	
Xylenes, total	11.6	0.500	"	250	"	JTD	"	04/30/2019	
Gasoline Range Hydrocarbons	224	50.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2903	JTD	04/29/2019	04/30/2019	U
Surrogate: o-Terphenyl	96.5 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

BH07@2-3'

4/25/2019 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904454-05 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2902	JTD	04/29/2019	04/30/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2903	JTD	04/29/2019	04/30/2019	U
Surrogate: o-Terphenyl	96.2 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

BH07@7-8'

4/25/2019 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y904454-06 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2902	JTD	04/29/2019	04/30/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2903	JTD	04/29/2019	04/30/2019	U
Surrogate: o-Terphenyl	99.8 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

BH07@8.5'

4/25/2019 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904454-07 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D2902	JTD	04/29/2019	04/30/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	JTD	"	"	U
Xylenes, total	0.470	0.0500	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	10.0	5.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2903	JTD	04/29/2019	04/30/2019	U
Surrogate: o-Terphenyl	98.2 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

BH08@8-9'

4/25/2019 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904454-08 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	9.22	0.500	mg/kg	250	B9D2902	JTD	04/29/2019	04/30/2019	
Toluene	87.8	0.500	"	"	"	JTD	"	"	
Ethylbenzene	9.66	0.500	"	"	"	JTD	"	"	
Xylenes, total	141	0.500	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	2770	50.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	508	50.0	mg/kg	1	B9D2903	JTD	04/29/2019	04/30/2019	
Surrogate: o-Terphenyl	98.2 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

BH08@9-10'
4/25/2019 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904454-09 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.170	0.0500	mg/kg	25	B9D2902	JTD	04/29/2019	05/01/2019	
Toluene	1.49	0.0500	"	"	"	JTD	"	"	
Ethylbenzene	0.722	0.0500	"	"	"	JTD	"	"	
Xylenes, total	12.6	0.500	"	250	"	JTD	"	04/30/2019	
Gasoline Range Hydrocarbons	255	50.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	182	50.0	mg/kg	1	B9D2903	JTD	04/29/2019	04/30/2019	
Surrogate: o-Terphenyl	90.4 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

BH09@3-4'

4/25/2019 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904454-10 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.00842	0.00200	mg/kg	1	B9D2902	JTD	04/29/2019	04/30/2019	
Toluene	0.00232	0.00200	"	"	"	JTD	"	"	
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	0.0262	0.00200	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	0.283	0.200	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2903	JTD	04/29/2019	04/30/2019	U
Surrogate: o-Terphenyl	96.4 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

BH09@8-9'

4/25/2019 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904454-11 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2902	JTD	04/29/2019	04/30/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2903	JTD	04/29/2019	04/30/2019	U
Surrogate: o-Terphenyl	86.6 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

BH10@3-4'

4/25/2019 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904454-12 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2902	JTD	04/29/2019	04/30/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2903	JTD	04/29/2019	04/30/2019	U
Surrogate: o-Terphenyl	83.2 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

BH10@8.5'

4/25/2019 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904454-13 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2902	JTD	04/29/2019	04/30/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2903	JTD	04/29/2019	04/30/2019	U
Surrogate: o-Terphenyl	86.4 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2902 - EPA 5030 (soil)

Blank (B9D2902-BLK1)

Prepared: 04/29/2019 Analyzed: 04/29/2019

Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2902 - EPA 5030 (soil)

LCS (B9D2902-BS1)

Prepared: 04/29/2019 Analyzed: 04/29/2019

Benzene	0.101	0.00200	mg/kg	0.100		101	70-130			
Toluene	0.0989	0.00200	"	0.100		98.9	70-130			
Ethylbenzene	0.100	0.00200	"	0.100		100	70-130			
m,p-Xylene	0.208	0.00400	"	0.200		104	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2902 - EPA 5030 (soil)

Matrix Spike (B9D2902-MS1)	Source: Y904461-06			Prepared: 04/29/2019 Analyzed: 04/29/2019						
Benzene	0.0796	0.00200	mg/kg	0.100	ND	79.6	70-130			
Toluene	0.0779	0.00200	"	0.100	ND	77.9	70-130			
Ethylbenzene	0.0758	0.00200	"	0.100	ND	75.8	70-130			
m,p-Xylene	0.158	0.00400	"	0.200	ND	78.8	70-130			
o-Xylene	0.0843	0.00200	"	0.100	ND	84.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2902 - EPA 5030 (soil)

Matrix Spike Dup (B9D2902-MSD1)	Source: Y904461-06			Prepared: 04/29/2019 Analyzed: 04/30/2019						
Benzene	0.0787	0.00200	mg/kg	0.100	ND	78.7	70-130	1.19	20	
Toluene	0.0794	0.00200	"	0.100	ND	79.4	70-130	1.91	20	
Ethylbenzene	0.0804	0.00200	"	0.100	ND	80.4	70-130	5.92	20	
m,p-Xylene	0.166	0.00400	"	0.200	ND	82.9	70-130	5.00	20	
o-Xylene	0.0908	0.00200	"	0.100	ND	90.8	70-130	7.45	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D2903 - EPA 3580										
Blank (B9D2903-BLK1)					Prepared: 04/29/2019 Analyzed: 04/29/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	41		"	50.0		81.0	50-150			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2903 - EPA 3580

LCS (B9D2903-BS1)

Prepared: 04/29/2019 Analyzed: 04/29/2019

Diesel (C10-C28)	982	50.0	mg/kg	1000		98.2	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.8	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D2903 - EPA 3580										
Matrix Spike (B9D2903-MS1)		Source: Y904461-06			Prepared: 04/29/2019 Analyzed: 04/29/2019					
Diesel (C10-C28)	960	50.0	mg/kg	1000	ND	96.0	70-130			
Surrogate: o-Terphenyl	44		"	50.0		88.6	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2903 - EPA 3580

Matrix Spike Dup (B9D2903-MSD1)	Source: Y904461-06			Prepared: 04/29/2019 Analyzed: 04/29/2019						
Diesel (C10-C28)	1060	50.0	mg/kg	1000	ND	106	70-130	9.86	35	
Surrogate: o-Terphenyl	52		"	50.0		103	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP Greeley Gas Plant

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP Greeley Gas Plant

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW05@2-3'	Y904417-01	Soil	April 24, 2019 11:55	04/24/2019 16:35
MW05@9-10'	Y904417-02	Soil	April 24, 2019 12:00	04/24/2019 16:35
MW05@14-15'	Y904417-03	Soil	April 24, 2019 12:15	04/24/2019 16:35
MW06@4-5'	Y904417-04	Soil	April 24, 2019 11:30	04/24/2019 16:35
MW06@9-10'	Y904417-05	Soil	April 24, 2019 11:35	04/24/2019 16:35
MW06@15-16'	Y904417-06	Soil	April 24, 2019 11:40	04/24/2019 16:35
MW07@8-9'	Y904417-07	Soil	April 24, 2019 10:55	04/24/2019 16:35
MW07@14-15'	Y904417-08	Soil	April 24, 2019 11:00	04/24/2019 16:35
MW08@10-11'	Y904417-09	Soil	April 24, 2019 10:00	04/24/2019 16:35
MW08@14-15'	Y904417-10	Soil	April 24, 2019 10:10	04/24/2019 16:35

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant



7904417

www.originslaboratory.com

page | of |

Client: Tasman/DCP
 Address: 6899 Pecos St
Denver, CO 80221
 Telephone Number: 303.396.7887
 Email Address: bhumphrey@tasman-geo.com
jcarrih@tasman-geo.com

Project Manager: Brian Humphrey
 Project Name: DCP Greeley Gas Plant
 Project Number: _____
 Samples Collected By: J. Carrih

Fax: 303.265.9645 | Phone: 303.433.1322 | Denver, CO 80211 | 1725 Elk Place

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	8260		PCO	
MW05@2-3'	4/24/19	11:55	1	X				X				X			
MW05@9-10'		12:00													
MW05@14-15'		12:15													
MW06@4-5'		11:30													
MW06@9-10'		11:35													
MW06@15-16'		11:40													
MW07@8-9'		10:55													
MW07@14-15'		11:00													
MW08@10-11'		@10:00													
MW08@14-15'		@10:10													
Relinquished by: <u>James Carrih</u>	Date: <u>4/24/19</u>	Time: <u>15:30</u>	Received By: <u>[Signature]</u>	Date: <u>4/24/19</u>	Time: <u>16:35</u>	Turnaround Time: <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Standard									

Date Results Needed

Temp Received- 34

Origins Laboratory, Inc.

Jefe Pellegrini

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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y904417

Client: Tasman

Client Project ID: DCP Greeley Gas Plant

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/25 / 2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)

Cooler Number/Temperature: 1 / 3.4 °C _____ / _____ °C _____ / _____ °C _____ / _____ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

[Signature]
 Reviewed by (Project Manager)

4/26/19
 Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW05@2-3'

4/24/2019 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904417-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2503	JTD	04/25/2019	04/26/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2504	JTD	04/25/2019	04/25/2019	U
Surrogate: o-Terphenyl	84.8 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW05@9-10'

4/24/2019 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904417-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2503	JTD	04/25/2019	04/26/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2504	JTD	04/25/2019	04/25/2019	U
Surrogate: o-Terphenyl	85.3 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW05@14-15'
4/24/2019 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904417-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2503	JTD	04/25/2019	04/26/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2504	JTD	04/25/2019	04/25/2019	U
Surrogate: o-Terphenyl	83.0 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW06@4-5'

4/24/2019 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904417-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2503	JTD	04/25/2019	04/26/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2504	JTD	04/25/2019	04/25/2019	U
Surrogate: o-Terphenyl	82.6 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW06@9-10'

4/24/2019 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904417-05 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2503	JTD	04/25/2019	04/26/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2504	JTD	04/25/2019	04/25/2019	U
Surrogate: o-Terphenyl	85.1 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW06@15-16'
4/24/2019 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904417-06 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2503	JTD	04/25/2019	04/26/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2504	JTD	04/25/2019	04/25/2019	U
Surrogate: o-Terphenyl	83.3 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW07@8-9'

4/24/2019 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904417-07 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2503	JTD	04/25/2019	04/26/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2504	JTD	04/25/2019	04/25/2019	U
Surrogate: o-Terphenyl	82.7 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW07@14-15'
4/24/2019 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904417-08 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2503	JTD	04/25/2019	04/26/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2504	JTD	04/25/2019	04/25/2019	U
Surrogate: o-Terphenyl	87.9 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW08@10-11'
 4/24/2019 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y904417-09 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2503	JTD	04/25/2019	04/26/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	123 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2504	JTD	04/25/2019	04/25/2019	U
Surrogate: o-Terphenyl	93.2 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW08@14-15'
4/24/2019 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904417-10 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D2503	JTD	04/25/2019	04/26/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	125 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D2504	JTD	04/25/2019	04/25/2019	U
Surrogate: o-Terphenyl	98.6 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2503 - EPA 5030 (soil)

Blank (B9D2503-BLK1)

Prepared: 04/25/2019 Analyzed: 04/25/2019

Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2503 - EPA 5030 (soil)

LCS (B9D2503-BS1)

Prepared: 04/25/2019 Analyzed: 04/25/2019

Benzene	0.0878	0.00200	mg/kg	0.100		87.8	70-130			
Toluene	0.109	0.00200	"	0.100		109	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.221	0.00400	"	0.200		111	70-130			
o-Xylene	0.108	0.00200	"	0.100		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2503 - EPA 5030 (soil)

Matrix Spike (B9D2503-MS1)	Source: Y904413-08			Prepared: 04/25/2019 Analyzed: 04/25/2019						
Benzene	0.0804	0.00200	mg/kg	0.100	ND	80.4	70-130			
Toluene	0.0955	0.00200	"	0.100	ND	95.5	70-130			
Ethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
m,p-Xylene	0.210	0.00400	"	0.200	ND	105	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2503 - EPA 5030 (soil)

Matrix Spike Dup (B9D2503-MSD1)	Source: Y904413-08			Prepared: 04/25/2019 Analyzed: 04/26/2019						
Benzene	0.0730	0.00200	mg/kg	0.100	ND	73.0	70-130	9.67	20	
Toluene	0.0889	0.00200	"	0.100	ND	88.9	70-130	7.11	20	
Ethylbenzene	0.0914	0.00200	"	0.100	ND	91.4	70-130	12.6	20	
m,p-Xylene	0.188	0.00400	"	0.200	ND	93.8	70-130	11.2	20	
o-Xylene	0.0890	0.00200	"	0.100	ND	89.0	70-130	13.0	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.15</i>		<i>"</i>	<i>0.125</i>		<i>117</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>105</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>101</i>	<i>70-130</i>			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D2504 - EPA 3580										
Blank (B9D2504-BLK1)										
					Prepared: 04/25/2019 Analyzed: 04/25/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	43		"	50.0		85.0	50-150			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2504 - EPA 3580

LCS (B9D2504-BS1)

Prepared: 04/25/2019 Analyzed: 04/25/2019

Diesel (C10-C28)	981	50.0	mg/kg	1000		98.1	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.4	50-150			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2504 - EPA 3580

Matrix Spike (B9D2504-MS1)	Source: Y904413-08			Prepared: 04/25/2019 Analyzed: 04/25/2019						
Diesel (C10-C28)	981	50.0	mg/kg	1000	ND	98.1	70-130			
Surrogate: o-Terphenyl	47		"	50.0		94.7	50-150			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2504 - EPA 3580

Matrix Spike Dup (B9D2504-MSD1)	Source: Y904413-08			Prepared: 04/25/2019 Analyzed: 04/25/2019						
Diesel (C10-C28)	949	50.0	mg/kg	1000	ND	94.9	70-130	3.33	35	
Surrogate: <i>o</i> -Terphenyl	45		"	50.0		90.1	50-150			

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP Greeley Gas Plant

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President



May 01, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - DCP Greeley Gas Plant

Project Number - [none]

Attached are your analytical results for DCP Greeley Gas Plant received by Origins Laboratory, Inc. April 26, 2019. This project is associated with Origins project number Y904463-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP Greeley Gas Plant

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH11@2-3'	Y904463-01	Soil	April 26, 2019 10:00	04/26/2019 16:45
BH11@7-8'	Y904463-02	Soil	April 26, 2019 10:15	04/26/2019 16:45
BH11@9'	Y904463-03	Soil	April 26, 2019 10:30	04/26/2019 16:45

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 1904463

Client: Tasman
 Client Project ID: DCP Greeley Gas Plant

Checklist Completed by: JG

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Date/time completed: 4/29/2019

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 (Describe)

Cooler Number/Temperature: 1 / 2.5 °C 1 °C 1 °C 1 °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JG

Date/Time Reviewed 4/30/19

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

BH11@2-3'

4/26/2019 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904463-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D3002	JTD	04/30/2019	04/30/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	0.404	0.200	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D3003	JTD	04/30/2019	04/30/2019	U
Surrogate: o-Terphenyl	103 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

BH11@7-8'

4/26/2019 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y904463-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D3002	JTD	04/30/2019	04/30/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D3003	JTD	04/30/2019	04/30/2019	U
Surrogate: o-Terphenyl	91.4 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

BH11@9'

4/26/2019 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y904463-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B9D3002	JTD	04/30/2019	04/30/2019	U
Toluene	ND	0.00200	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JTD	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Diesel Range Organics (DRO/TEPH) by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9D3003	JTD	04/30/2019	04/30/2019	U
Surrogate: o-Terphenyl	88.3 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3002 - EPA 5030 (soil)

Blank (B9D3002-BLK1)

Prepared: 04/30/2019 Analyzed: 04/30/2019

Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3002 - EPA 5030 (soil)

LCS (B9D3002-BS1)

Prepared: 04/30/2019 Analyzed: 04/30/2019

Benzene	0.0979	0.00200	mg/kg	0.100		97.9	70-130			
Toluene	0.114	0.00200	"	0.100		114	70-130			
Ethylbenzene	0.118	0.00200	"	0.100		118	70-130			
m,p-Xylene	0.237	0.00400	"	0.200		118	70-130			
o-Xylene	0.114	0.00200	"	0.100		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3002 - EPA 5030 (soil)

Matrix Spike (B9D3002-MS1)	Source: Y904463-01			Prepared: 04/30/2019 Analyzed: 04/30/2019						
Benzene	0.0762	0.00200	mg/kg	0.100	ND	76.2	70-130			
Toluene	0.0850	0.00200	"	0.100	ND	85.0	70-130			
Ethylbenzene	0.0851	0.00200	"	0.100	0.000800	84.3	70-130			
m,p-Xylene	0.170	0.00400	"	0.200	0.00200	84.0	70-130			
o-Xylene	0.0829	0.00200	"	0.100	0.000940	81.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3002 - EPA 5030 (soil)

Matrix Spike Dup (B9D3002-MSD1)	Source: Y904463-01			Prepared: 04/30/2019 Analyzed: 04/30/2019						
Benzene	0.0784	0.00200	mg/kg	0.100	ND	78.4	70-130	2.79	20	
Toluene	0.0876	0.00200	"	0.100	ND	87.6	70-130	3.01	20	
Ethylbenzene	0.0900	0.00200	"	0.100	0.000800	89.2	70-130	5.62	20	
m,p-Xylene	0.182	0.00400	"	0.200	0.00200	90.1	70-130	7.01	20	
o-Xylene	0.0893	0.00200	"	0.100	0.000940	88.4	70-130	7.50	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D3003 - EPA 3580										
Blank (B9D3003-BLK1)					Prepared: 04/30/2019 Analyzed: 04/30/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	51		"	50.0		101	50-150			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3003 - EPA 3580

LCS (B9D3003-BS1)

Prepared: 04/30/2019 Analyzed: 04/30/2019

Diesel (C10-C28)	1120	50.0	mg/kg	1000		112	70-130			
Surrogate: o-Terphenyl	57		"	50.0		115	50-150			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3003 - EPA 3580

Matrix Spike (B9D3003-MS1)	Source: Y904463-01			Prepared: 04/30/2019 Analyzed: 04/30/2019						
Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130			
Surrogate: o-Terphenyl	50		"	50.0		100	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control
 Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3003 - EPA 3580

Matrix Spike Dup (B9D3003-MSD1)	Source: Y904463-01			Prepared: 04/30/2019 Analyzed: 04/30/2019						
Diesel (C10-C28)	1130	50.0	mg/kg	1000	ND	113	70-130	7.98	35	
Surrogate: o-Terphenyl	54		"	50.0		108	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP Greeley Gas Plant

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President



May 01, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - DCP Greeley Gas Plant

Project Number - [none]

Attached are your analytical results for DCP Greeley Gas Plant received by Origins Laboratory, Inc. April 25, 2019. This project is associated with Origins project number Y904460-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP Greeley Gas Plant

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01 - 042519	Y904460-01	Water	April 25, 2019 11:31	04/25/2019 16:50
MW02 - 042519	Y904460-02	Water	April 25, 2019 11:20	04/25/2019 16:50
MW03 - 042519	Y904460-03	Water	April 25, 2019 11:04	04/25/2019 16:50
MW04 - 042519	Y904460-04	Water	April 25, 2019 11:30	04/25/2019 16:50
MW05 - 042519	Y904460-05	Water	April 25, 2019 11:00	04/25/2019 16:50
MW06 - 042519	Y904460-06	Water	April 25, 2019 11:11	04/25/2019 16:50
MW07 - 042519	Y904460-07	Water	April 25, 2019 11:23	04/25/2019 16:50
MW08 - 042519	Y904493-01	Water	April 25, 2019 11:14	04/29/2019 16:46

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y904460 Client: Tasman
 Client Project ID: Greeley Gas Plant
 Checklist Completed by: JG Shipped Via: HD
 Date/time completed: 4/26/2019 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 5.6 °C _____ °C _____ °C _____ °C (Describe)
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):	<u>Did not receive any vials labeled mw-08.</u>			

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JG

Date/Time Reviewed 4/29/19

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y904493

Client: Tasman
 Client Project ID: Greeley Gas Plant

Checklist Completed by: JG
 Date/time completed: 4/30/2019

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 15.7 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
<u>Additional Comments (if any):</u>				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

JG
 Reviewed by (Project Manager)

5/1/19
 Date/Time Reviewed

Origins Laboratory, Inc.



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

Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW01 - 042519

4/25/2019 11:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904460-01 (Water)

VOC by EPA 8260D

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9D3009	JTD	04/30/2019	05/01/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	JTD	"	"	U
1,2,4-Trimethylbenzene	136	1.00	"	"	"	JTD	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	JTD	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	JTD	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
1,3,5-Trimethylbenzene	23.4	1.00	"	"	"	JTD	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	JTD	"	"	U
1,4-Dichlorobenzene	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW01 - 042519
4/25/2019 11:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904460-01 (Water)

VOC by EPA 8260D

2,2-Dichloropropane	ND	1.00	ug/L	1	B9D3009	JTD	04/30/2019	05/01/2019	U
2-Butanone	ND	5.00	"	"	"	JTD	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
2-Hexanone	ND	5.00	"	"	"	JTD	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	JTD	"	"	U
4-Isopropyltoluene	4.13	1.00	"	"	"	JTD	"	"	
4-Methyl-2-pentanone	ND	5.00	"	"	"	JTD	"	"	U
Acetone	271	8.00	"	"	"	JTD	"	"	
Benzene	370	100	"	100	"	JTD	"	05/01/2019	
Bromobenzene	ND	1.00	"	1	"	JTD	"	05/01/2019	U
Bromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	JTD	"	"	U
Bromoform	ND	1.00	"	"	"	JTD	"	"	U
Bromomethane	ND	1.00	"	"	"	JTD	"	"	U
Carbon disulfide	ND	5.00	"	"	"	JTD	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	JTD	"	"	U
Chlorobenzene	ND	1.00	"	"	"	JTD	"	"	U
Chloroethane	ND	1.00	"	"	"	JTD	"	"	U
Chloroform	ND	1.00	"	"	"	JTD	"	"	U
Chloromethane	ND	1.00	"	"	"	JTD	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW01 - 042519

4/25/2019 11:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904460-01 (Water)

VOC by EPA 8260D

cis-1,2-Dichloroethene	ND	1.00	ug/L	1	B9D3009	JTD	04/30/2019	05/01/2019	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	JTD	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	JTD	"	"	U
Dibromomethane	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	38.0	1.00	"	"	"	JTD	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	JTD	"	"	U
Iodomethane	ND	10.0	"	"	"	JTD	"	"	U
Isopropylbenzene	2.92	1.00	"	"	"	JTD	"	"	
m,p-Xylene	598	200	"	100	"	JTD	"	05/01/2019	
Methylene Chloride	ND	5.00	"	1	"	JTD	"	05/01/2019	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	JTD	"	"	U
Naphthalene	ND	4.00	"	"	"	JTD	"	"	U
n-Butylbenzene	1.48	1.00	"	"	"	JTD	"	"	
n-Propylbenzene	1.72	1.00	"	"	"	JTD	"	"	
o-Xylene	26.5	1.00	"	"	"	JTD	"	"	
sec-Butylbenzene	1.87	1.00	"	"	"	JTD	"	"	
Styrene	ND	1.00	"	"	"	JTD	"	"	U
tert-Butylbenzene	1.52	1.00	"	"	"	JTD	"	"	
Tetrachloroethene	ND	1.00	"	"	"	JTD	"	"	U
Toluene	49.3	1.00	"	"	"	JTD	"	"	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	JTD	"	"	U

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP Greeley Gas Plant

MW01 - 042519

4/25/2019 11:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904460-01 (Water)

VOC by EPA 8260D

trans-1,3-Dichloropropene	ND	1.00	ug/L	1	B9D3009	JTD	04/30/2019	05/01/2019	U
Trichloroethene	ND	1.00	"	"	"	JTD	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	JTD	"	"	U
Vinyl chloride	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	84.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	113 %	70-130			"	"	"	"	

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW02 - 042519

4/25/2019 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904460-02 (Water)

BTEX by EPA 8260D

Benzene	823	10.0	ug/L	10	B9D2607	JTD	04/26/2019	04/29/2019	
Toluene	15.6	4.00	"	4	"	JTD	"	04/29/2019	
Ethylbenzene	14.1	4.00	"	"	"	JTD	"	"	
Xylenes, total	65.7	4.00	"	"	"	JTD	"	"	
Surrogate: 1,2-Dichloroethane-d4	117 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.4 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %			70-130		"	"	"	

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 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW03 - 042519

4/25/2019 11:04:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904460-03 (Water)

BTEX by EPA 8260D

Benzene	575	20.0	ug/L	20	B9D2607	JTD	04/26/2019	04/29/2019	
Toluene	ND	1.00	"	1	"	JTD	"	04/29/2019	U
Ethylbenzene	1.04	1.00	"	"	"	JTD	"	"	
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130			"	"	"		
Surrogate: Toluene-d8	100 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"		

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 6899 Pecos Street, Unit C
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Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW04 - 042519

4/25/2019 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904460-04 (Water)

BTEX by EPA 8260D

Benzene	2570	20.0	ug/L	20	B9D2607	JTD	04/26/2019	04/29/2019	
Toluene	53.3	4.00	"	4	"	JTD	"	04/29/2019	
Ethylbenzene	235	4.00	"	"	"	JTD	"	"	
Xylenes, total	4190	20.0	"	20	"	JTD	"	04/29/2019	
Surrogate: 1,2-Dichloroethane-d4	97.0 %			70-130		"	"	04/29/2019	
Surrogate: Toluene-d8	99.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	95.8 %			70-130		"	"	"	

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Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW05 - 042519

4/25/2019 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904460-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9D2607	JTD	04/26/2019	04/29/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %	70-130			"	"	"	"	

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Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW06 - 042519

4/25/2019 11:11:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904460-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9D2607	JTD	04/26/2019	04/29/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130			"	"	"	"	

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6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP Greeley Gas Plant

MW07 - 042519

4/25/2019 11:23:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904460-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9D2607	JTD	04/26/2019	04/29/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW08 - 042519

4/25/2019 11:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904493-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9D3011	JTD	04/30/2019	05/01/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2607 - EPA 5030B (Water)

Blank (B9D2607-BLK1)

Prepared: 04/26/2019 Analyzed: 04/26/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2607 - EPA 5030B (Water)

Blank (B9D2607-BLK2)

Prepared: 04/26/2019 Analyzed: 04/26/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.9	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2607 - EPA 5030B (Water)

LCS (B9D2607-BS1)

Prepared: 04/26/2019 Analyzed: 04/26/2019

Benzene	49.7	1.00	ug/L	50.0		99.4	70-130			
Toluene	50.8	1.00	"	50.0		102	70-130			
Ethylbenzene	50.6	1.00	"	50.0		101	70-130			
m,p-Xylene	101	2.00	"	100		101	70-130			
o-Xylene	49.9	1.00	"	50.0		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.2	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2607 - EPA 5030B (Water)

LCS (B9D2607-BS2)

Prepared: 04/26/2019 Analyzed: 04/26/2019

Benzene	44.4	1.00	ug/L	50.0		88.9	70-130			
Toluene	44.6	1.00	"	50.0		89.1	70-130			
Ethylbenzene	44.9	1.00	"	50.0		89.8	70-130			
m,p-Xylene	90.4	2.00	"	100		90.4	70-130			
o-Xylene	45.2	1.00	"	50.0		90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.5	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2607 - EPA 5030B (Water)

Matrix Spike (B9D2607-MS1)	Source: Y904443-01			Prepared: 04/26/2019 Analyzed: 04/26/2019						
Benzene	47.1	1.00	ug/L	50.0	ND	94.2	70-130			
Toluene	47.8	1.00	"	50.0	ND	95.6	70-130			
Ethylbenzene	47.9	1.00	"	50.0	ND	95.8	70-130			
m,p-Xylene	95.5	2.00	"	100	ND	95.5	70-130			
o-Xylene	47.8	1.00	"	50.0	ND	95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.1	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2607 - EPA 5030B (Water)

Matrix Spike (B9D2607-MS2)	Source: Y904443-02			Prepared: 04/26/2019 Analyzed: 04/26/2019						
Benzene	47.0	1.00	ug/L	50.0	ND	93.9	70-130			
Toluene	47.8	1.00	"	50.0	ND	95.6	70-130			
Ethylbenzene	47.4	1.00	"	50.0	ND	94.9	70-130			
m,p-Xylene	96.0	2.00	"	100	ND	96.0	70-130			
o-Xylene	48.3	1.00	"	50.0	ND	96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.1	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

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Tasman Geosciences
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 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2607 - EPA 5030B (Water)

Matrix Spike Dup (B9D2607-MSD1)	Source: Y904443-01			Prepared: 04/26/2019 Analyzed: 04/26/2019						
Benzene	46.3	1.00	ug/L	50.0	ND	92.6	70-130	1.69	20	
Toluene	46.8	1.00	"	50.0	ND	93.6	70-130	2.20	20	
Ethylbenzene	47.2	1.00	"	50.0	ND	94.4	70-130	1.47	20	
m,p-Xylene	94.8	2.00	"	100	ND	94.8	70-130	0.673	20	
o-Xylene	47.1	1.00	"	50.0	ND	94.1	70-130	1.58	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D2607 - EPA 5030B (Water)

Matrix Spike Dup (B9D2607-MSD2)	Source: Y904443-02			Prepared: 04/26/2019 Analyzed: 04/26/2019						
Benzene	46.2	1.00	ug/L	50.0	ND	92.4	70-130	1.67	20	
Toluene	46.5	1.00	"	50.0	ND	93.0	70-130	2.78	20	
Ethylbenzene	46.2	1.00	"	50.0	ND	92.4	70-130	2.63	20	
m,p-Xylene	92.5	2.00	"	100	ND	92.5	70-130	3.74	20	
o-Xylene	46.9	1.00	"	50.0	ND	93.8	70-130	2.94	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.3	70-130			

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Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3009 - EPA 5030B (Water)

Blank (B9D3009-BLK1)

Prepared: 04/30/2019 Analyzed: 04/30/2019

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L							U
1,1,1-Trichloroethane	ND	1.00	"							U
1,1,2,2-Tetrachloroethane	ND	1.00	"							U
1,1,2-Trichloroethane	ND	1.00	"							U
1,1-Dichloroethane	ND	1.00	"							U
1,1-Dichloroethene	ND	1.00	"							U
1,1-Dichloropropene	ND	1.00	"							U
1,2,3-Trichlorobenzene	ND	5.00	"							U
1,2,3-Trichloropropane	ND	5.00	"							U
1,2,4-Trichlorobenzene	ND	5.00	"							U
1,2,4-Trimethylbenzene	ND	1.00	"							U
1,2-Dibromo-3-chloropropane	ND	5.00	"							U
1,2-Dibromoethane (EDB)	ND	1.00	"							U
1,2-Dichlorobenzene	ND	1.00	"							U
1,2-Dichloroethane	ND	1.00	"							U
1,2-Dichloropropane	ND	1.00	"							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
1,3-Dichlorobenzene	ND	1.00	"							U
1,3-Dichloropropane	ND	1.00	"							U
1,4-Dichlorobenzene	ND	1.00	"							U
2,2-Dichloropropane	ND	1.00	"							U
2-Butanone	ND	5.00	"							U
2-Chlorotoluene	ND	1.00	"							U
2-Hexanone	ND	5.00	"							U
4-Chlorotoluene	ND	1.00	"							U
4-Isopropyltoluene	ND	1.00	"							U

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3009 - EPA 5030B (Water)

Blank (B9D3009-BLK1)

Prepared: 04/30/2019 Analyzed: 04/30/2019

4-Methyl-2-pentanone	ND	5.00	ug/L							U
Acetone	ND	8.00	"							U
Benzene	ND	1.00	"							U
Bromobenzene	ND	1.00	"							U
Bromochloromethane	ND	1.00	"							U
Bromodichloromethane	ND	1.00	"							U
Bromoform	ND	1.00	"							U
Bromomethane	ND	1.00	"							U
Carbon disulfide	ND	5.00	"							U
Carbon tetrachloride	ND	1.00	"							U
Chlorobenzene	ND	1.00	"							U
Chloroethane	ND	1.00	"							U
Chloroform	ND	1.00	"							U
Chloromethane	ND	1.00	"							U
cis-1,2-Dichloroethene	ND	1.00	"							U
cis-1,3-Dichloropropene	ND	1.00	"							U
Dibromochloromethane	ND	1.00	"							U
Dibromomethane	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Hexachlorobutadiene	ND	5.00	"							U
Iodomethane	ND	10.0	"							U
Isopropylbenzene	ND	1.00	"							U
m,p-Xylene	ND	2.00	"							U
Methylene Chloride	ND	5.00	"							U
Methyl tert-Butyl Ether	ND	1.00	"							U
Naphthalene	ND	4.00	"							U

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3009 - EPA 5030B (Water)

Blank (B9D3009-BLK1)

Prepared: 04/30/2019 Analyzed: 04/30/2019

n-Butylbenzene	ND	1.00	ug/L							U
n-Propylbenzene	ND	1.00	"							U
o-Xylene	ND	1.00	"							U
sec-Butylbenzene	ND	1.00	"							U
Styrene	ND	1.00	"							U
tert-Butylbenzene	ND	1.00	"							U
Tetrachloroethene	ND	1.00	"							U
Toluene	ND	1.00	"							U
trans-1,2-Dichloroethene	ND	1.00	"							U
trans-1,3-Dichloropropene	ND	1.00	"							U
Trichloroethene	ND	1.00	"							U
Trichlorofluoromethane	ND	1.00	"							U
Vinyl chloride	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Brian Humphrey
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 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3009 - EPA 5030B (Water)

LCS (B9D3009-BS1)

Prepared: 04/30/2019 Analyzed: 04/30/2019

1,1,1,2-Tetrachloroethane	57.0	1.00	ug/L	50.0		114	70-130			
1,1,1-Trichloroethane	50.8	1.00	"	50.0		102	70-130			
1,1,2,2-Tetrachloroethane	53.9	1.00	"	50.0		108	70-130			
1,1,2-Trichloroethane	50.9	1.00	"	50.0		102	70-130			
1,1-Dichloroethane	49.1	1.00	"	50.0		98.2	70-130			
1,1-Dichloroethene	50.8	1.00	"	50.0		102	70-130			
1,1-Dichloropropene	48.4	1.00	"	50.0		96.8	70-130			
1,2,3-Trichlorobenzene	57.6	5.00	"	50.0		115	70-130			
1,2,3-Trichloropropane	54.5	5.00	"	50.0		109	70-130			
1,2,4-Trichlorobenzene	58.2	5.00	"	50.0		116	70-130			
1,2,4-Trimethylbenzene	57.2	1.00	"	50.0		114	70-130			
1,2-Dibromo-3-chloropropane	54.0	5.00	"	50.0		108	70-130			
1,2-Dibromoethane (EDB)	53.3	1.00	"	50.0		107	70-130			
1,2-Dichlorobenzene	52.8	1.00	"	50.0		106	70-130			
1,2-Dichloroethane	46.0	1.00	"	50.0		92.1	70-130			
1,2-Dichloropropane	47.4	1.00	"	50.0		94.9	70-130			
1,3,5-Trimethylbenzene	57.0	1.00	"	50.0		114	70-130			
1,3-Dichlorobenzene	53.6	1.00	"	50.0		107	70-130			
1,3-Dichloropropane	50.6	1.00	"	50.0		101	70-130			
1,4-Dichlorobenzene	52.8	1.00	"	50.0		106	70-130			
2,2-Dichloropropane	56.5	1.00	"	50.0		113	70-130			
2-Butanone	234	5.00	"	250		93.5	70-130			
2-Chlorotoluene	54.9	1.00	"	50.0		110	70-130			
2-Hexanone	259	5.00	"	250		104	70-130			
4-Chlorotoluene	54.1	1.00	"	50.0		108	70-130			
4-Isopropyltoluene	56.8	1.00	"	50.0		114	70-130			

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Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3009 - EPA 5030B (Water)

LCS (B9D3009-BS1)

Prepared: 04/30/2019 Analyzed: 04/30/2019

4-Methyl-2-pentanone	257	5.00	ug/L	250		103	70-130			
Acetone	234	8.00	"	250		93.7	70-130			
Benzene	47.8	1.00	"	50.0		95.7	70-130			
Bromobenzene	56.9	1.00	"	50.0		114	70-130			
Bromochloromethane	45.6	1.00	"	50.0		91.3	70-130			
Bromodichloromethane	48.2	1.00	"	50.0		96.4	70-130			
Bromoform	52.2	1.00	"	50.0		104	70-130			
Bromomethane	48.4	1.00	"	50.0		96.8	70-130			
Carbon disulfide	49.5	5.00	"	50.0		99.1	70-130			
Carbon tetrachloride	47.7	1.00	"	50.0		95.4	70-130			
Chlorobenzene	51.2	1.00	"	50.0		102	70-130			
Chloroethane	48.1	1.00	"	50.0		96.1	70-130			
Chloroform	46.7	1.00	"	50.0		93.3	70-130			
Chloromethane	42.3	1.00	"	50.0		84.7	70-130			
cis-1,2-Dichloroethene	49.3	1.00	"	50.0		98.6	70-130			
cis-1,3-Dichloropropene	55.4	1.00	"	50.0		111	70-130			
Dibromochloromethane	51.5	1.00	"	50.0		103	70-130			
Dibromomethane	47.8	1.00	"	50.0		95.6	70-130			
Ethylbenzene	58.5	1.00	"	50.0		117	70-130			
Hexachlorobutadiene	57.1	5.00	"	50.0		114	70-130			
Iodomethane	49.0	10.0	"	50.0		98.0	70-130			
Isopropylbenzene	57.0	1.00	"	50.0		114	70-130			
m,p-Xylene	118	2.00	"	100		118	70-130			
Methylene Chloride	49.2	5.00	"	50.0		98.4	70-130			
Methyl tert-Butyl Ether	47.0	1.00	"	50.0		93.9	70-130			
Naphthalene	53.5	4.00	"	50.0		107	70-130			

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Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3009 - EPA 5030B (Water)

LCS (B9D3009-BS1)

Prepared: 04/30/2019 Analyzed: 04/30/2019

n-Butylbenzene	57.5	1.00	ug/L	50.0		115	70-130			
n-Propylbenzene	56.2	1.00	"	50.0		112	70-130			
o-Xylene	56.6	1.00	"	50.0		113	70-130			
sec-Butylbenzene	56.3	1.00	"	50.0		113	70-130			
Styrene	57.5	1.00	"	50.0		115	70-130			
tert-Butylbenzene	56.5	1.00	"	50.0		113	70-130			
Tetrachloroethene	53.9	1.00	"	50.0		108	70-130			
Toluene	55.6	1.00	"	50.0		111	70-130			
trans-1,2-Dichloroethene	49.8	1.00	"	50.0		99.6	70-130			
trans-1,3-Dichloropropene	55.0	1.00	"	50.0		110	70-130			
Trichloroethene	49.4	1.00	"	50.0		98.7	70-130			
Trichlorofluoromethane	50.1	1.00	"	50.0		100	70-130			
Vinyl chloride	50.2	1.00	"	50.0		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Brian Humphrey
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 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3009 - EPA 5030B (Water)

Matrix Spike (B9D3009-MS1)	Source: Y904482-01			Prepared: 04/30/2019 Analyzed: 04/30/2019						
1,1,1,2-Tetrachloroethane	57.4	1.00	ug/L	50.0	0.330	114	70-130			
1,1,1-Trichloroethane	52.2	1.00	"	50.0	ND	104	70-130			
1,1,2,2-Tetrachloroethane	53.9	1.00	"	50.0	1.03	106	70-130			
1,1,2-Trichloroethane	51.5	1.00	"	50.0	ND	103	70-130			
1,1-Dichloroethane	50.6	1.00	"	50.0	ND	101	70-130			
1,1-Dichloroethene	52.6	1.00	"	50.0	ND	105	70-130			
1,1-Dichloropropene	49.4	1.00	"	50.0	ND	98.8	70-130			
1,2,3-Trichlorobenzene	56.8	5.00	"	50.0	15.2	83.3	70-130			
1,2,3-Trichloropropane	56.7	5.00	"	50.0	3.17	107	70-130			
1,2,4-Trichlorobenzene	55.8	5.00	"	50.0	10.7	90.1	70-130			
1,2,4-Trimethylbenzene	57.2	1.00	"	50.0	2.29	110	70-130			
1,2-Dibromo-3-chloropropane	52.7	5.00	"	50.0	3.60	98.3	70-130			
1,2-Dibromoethane (EDB)	54.0	1.00	"	50.0	ND	108	70-130			
1,2-Dichlorobenzene	53.4	1.00	"	50.0	3.06	101	70-130			
1,2-Dichloroethane	48.0	1.00	"	50.0	0.220	95.6	70-130			
1,2-Dichloropropane	49.0	1.00	"	50.0	ND	98.0	70-130			
1,3,5-Trimethylbenzene	57.1	1.00	"	50.0	1.63	111	70-130			
1,3-Dichlorobenzene	53.4	1.00	"	50.0	2.06	103	70-130			
1,3-Dichloropropane	51.7	1.00	"	50.0	ND	103	70-130			
1,4-Dichlorobenzene	52.2	1.00	"	50.0	2.48	99.3	70-130			
2,2-Dichloropropane	53.1	1.00	"	50.0	ND	106	70-130			
2-Butanone	241	5.00	"	250	3.18	94.9	70-130			
2-Chlorotoluene	54.9	1.00	"	50.0	1.59	107	70-130			
2-Hexanone	266	5.00	"	250	12.3	102	70-130			
4-Chlorotoluene	54.3	1.00	"	50.0	1.14	106	70-130			
4-Isopropyltoluene	57.5	1.00	"	50.0	2.76	109	70-130			

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Brian Humphrey
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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3009 - EPA 5030B (Water)

Matrix Spike (B9D3009-MS1)	Source: Y904482-01			Prepared: 04/30/2019 Analyzed: 04/30/2019						
4-Methyl-2-pentanone	263	5.00	ug/L	250	10.1	101	70-130			
Acetone	247	8.00	"	250	4.57	97.1	70-130			
Benzene	49.3	1.00	"	50.0	0.090	98.4	70-130			
Bromobenzene	57.2	1.00	"	50.0	1.18	112	70-130			
Bromochloromethane	47.4	1.00	"	50.0	ND	94.8	70-130			
Bromodichloromethane	50.0	1.00	"	50.0	ND	100	70-130			
Bromoform	51.6	1.00	"	50.0	ND	103	70-130			
Bromomethane	52.3	1.00	"	50.0	ND	105	70-130			
Carbon disulfide	51.9	5.00	"	50.0	ND	104	70-130			
Carbon tetrachloride	48.6	1.00	"	50.0	ND	97.3	70-130			
Chlorobenzene	52.2	1.00	"	50.0	0.470	103	70-130			
Chloroethane	51.3	1.00	"	50.0	ND	103	70-130			
Chloroform	48.2	1.00	"	50.0	0.100	96.1	70-130			
Chloromethane	44.2	1.00	"	50.0	ND	88.4	70-130			
cis-1,2-Dichloroethene	50.5	1.00	"	50.0	ND	101	70-130			
cis-1,3-Dichloropropene	55.1	1.00	"	50.0	ND	110	70-130			
Dibromochloromethane	51.9	1.00	"	50.0	ND	104	70-130			
Dibromomethane	49.4	1.00	"	50.0	ND	98.7	70-130			
Ethylbenzene	58.3	1.00	"	50.0	0.530	116	70-130			
Hexachlorobutadiene	57.6	5.00	"	50.0	9.01	97.2	70-130			
Iodomethane	50.8	10.0	"	50.0	ND	102	70-130			
Isopropylbenzene	57.1	1.00	"	50.0	0.910	112	70-130			
m,p-Xylene	118	2.00	"	100	1.25	117	70-130			
Methylene Chloride	48.1	5.00	"	50.0	ND	96.2	70-130			
Methyl tert-Butyl Ether	49.6	1.00	"	50.0	ND	99.2	70-130			
Naphthalene	52.7	4.00	"	50.0	13.4	78.8	70-130			

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Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3009 - EPA 5030B (Water)

Matrix Spike (B9D3009-MS1)	Source: Y904482-01			Prepared: 04/30/2019 Analyzed: 04/30/2019						
n-Butylbenzene	57.3	1.00	ug/L	50.0	4.90	105	70-130			
n-Propylbenzene	56.4	1.00	"	50.0	1.62	110	70-130			
o-Xylene	57.3	1.00	"	50.0	0.680	113	70-130			
sec-Butylbenzene	56.6	1.00	"	50.0	2.50	108	70-130			
Styrene	54.2	1.00	"	50.0	0.830	107	70-130			
tert-Butylbenzene	57.5	1.00	"	50.0	2.01	111	70-130			
Tetrachloroethene	54.2	1.00	"	50.0	ND	108	70-130			
Toluene	56.4	1.00	"	50.0	0.220	112	70-130			
trans-1,2-Dichloroethene	51.2	1.00	"	50.0	ND	102	70-130			
trans-1,3-Dichloropropene	54.8	1.00	"	50.0	ND	110	70-130			
Trichloroethene	50.2	1.00	"	50.0	ND	100	70-130			
Trichlorofluoromethane	52.6	1.00	"	50.0	ND	105	70-130			
Vinyl chloride	53.0	1.00	"	50.0	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		102	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3009 - EPA 5030B (Water)

Matrix Spike Dup (B9D3009-MSD1)	Source: Y904482-01			Prepared: 04/30/2019 Analyzed: 04/30/2019						
1,1,1,2-Tetrachloroethane	56.4	1.00	ug/L	50.0	0.330	112	70-130	1.79	20	
1,1,1-Trichloroethane	50.5	1.00	"	50.0	ND	101	70-130	3.33	20	
1,1,2,2-Tetrachloroethane	52.4	1.00	"	50.0	1.03	103	70-130	2.78	20	
1,1,2-Trichloroethane	49.1	1.00	"	50.0	ND	98.2	70-130	4.71	20	
1,1-Dichloroethane	48.1	1.00	"	50.0	ND	96.2	70-130	4.98	20	
1,1-Dichloroethene	50.3	1.00	"	50.0	ND	101	70-130	4.39	20	
1,1-Dichloropropene	47.8	1.00	"	50.0	ND	95.6	70-130	3.27	20	
1,2,3-Trichlorobenzene	65.9	5.00	"	50.0	15.2	101	70-130	14.7	20	
1,2,3-Trichloropropane	53.9	5.00	"	50.0	3.17	101	70-130	5.06	20	
1,2,4-Trichlorobenzene	61.4	5.00	"	50.0	10.7	101	70-130	9.57	20	
1,2,4-Trimethylbenzene	57.8	1.00	"	50.0	2.29	111	70-130	1.04	20	
1,2-Dibromo-3-chloropropane	54.5	5.00	"	50.0	3.60	102	70-130	3.21	20	
1,2-Dibromoethane (EDB)	50.9	1.00	"	50.0	ND	102	70-130	5.86	20	
1,2-Dichlorobenzene	53.4	1.00	"	50.0	3.06	101	70-130	0.0187	20	
1,2-Dichloroethane	44.0	1.00	"	50.0	0.220	87.5	70-130	8.72	20	
1,2-Dichloropropane	45.9	1.00	"	50.0	ND	91.8	70-130	6.47	20	
1,3,5-Trimethylbenzene	57.4	1.00	"	50.0	1.63	112	70-130	0.541	20	
1,3-Dichlorobenzene	53.2	1.00	"	50.0	2.06	102	70-130	0.432	20	
1,3-Dichloropropane	48.5	1.00	"	50.0	ND	97.1	70-130	6.34	20	
1,4-Dichlorobenzene	51.8	1.00	"	50.0	2.48	98.7	70-130	0.635	20	
2,2-Dichloropropane	52.1	1.00	"	50.0	ND	104	70-130	1.84	20	
2-Butanone	225	5.00	"	250	3.18	88.9	70-130	6.51	20	
2-Chlorotoluene	54.5	1.00	"	50.0	1.59	106	70-130	0.731	20	
2-Hexanone	258	5.00	"	250	12.3	98.3	70-130	3.20	20	
4-Chlorotoluene	53.7	1.00	"	50.0	1.14	105	70-130	1.13	20	
4-Isopropyltoluene	57.9	1.00	"	50.0	2.76	110	70-130	0.659	20	

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3009 - EPA 5030B (Water)

Matrix Spike Dup (B9D3009-MSD1)	Source: Y904482-01			Prepared: 04/30/2019 Analyzed: 04/30/2019						
4-Methyl-2-pentanone	257	5.00	ug/L	250	10.1	98.9	70-130	2.18	20	
Acetone	229	8.00	"	250	4.57	89.6	70-130	7.86	20	
Benzene	47.0	1.00	"	50.0	0.090	93.8	70-130	4.78	20	
Bromobenzene	56.3	1.00	"	50.0	1.18	110	70-130	1.71	20	
Bromochloromethane	44.5	1.00	"	50.0	ND	89.0	70-130	6.22	20	
Bromodichloromethane	46.8	1.00	"	50.0	ND	93.5	70-130	6.66	20	
Bromoform	50.3	1.00	"	50.0	ND	101	70-130	2.57	20	
Bromomethane	49.9	1.00	"	50.0	ND	99.8	70-130	4.64	20	
Carbon disulfide	47.1	5.00	"	50.0	ND	94.2	70-130	9.80	20	
Carbon tetrachloride	47.6	1.00	"	50.0	ND	95.1	70-130	2.29	20	
Chlorobenzene	50.3	1.00	"	50.0	0.470	99.6	70-130	3.73	20	
Chloroethane	50.1	1.00	"	50.0	ND	100	70-130	2.35	20	
Chloroform	45.6	1.00	"	50.0	0.100	91.1	70-130	5.42	20	
Chloromethane	42.5	1.00	"	50.0	ND	84.9	70-130	3.99	20	
cis-1,2-Dichloroethene	48.0	1.00	"	50.0	ND	95.9	70-130	5.12	20	
cis-1,3-Dichloropropene	52.5	1.00	"	50.0	ND	105	70-130	4.72	20	
Dibromochloromethane	50.6	1.00	"	50.0	ND	101	70-130	2.60	20	
Dibromomethane	45.3	1.00	"	50.0	ND	90.6	70-130	8.58	20	
Ethylbenzene	58.0	1.00	"	50.0	0.530	115	70-130	0.585	20	
Hexachlorobutadiene	63.5	5.00	"	50.0	9.01	109	70-130	9.81	20	
Iodomethane	48.4	10.0	"	50.0	ND	96.8	70-130	4.86	20	
Isopropylbenzene	56.8	1.00	"	50.0	0.910	112	70-130	0.457	20	
m,p-Xylene	117	2.00	"	100	1.25	115	70-130	1.03	20	
Methylene Chloride	47.8	5.00	"	50.0	ND	95.5	70-130	0.710	20	
Methyl tert-Butyl Ether	45.6	1.00	"	50.0	ND	91.3	70-130	8.32	20	
Naphthalene	60.4	4.00	"	50.0	13.4	94.2	70-130	13.6	20	

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Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3009 - EPA 5030B (Water)

Matrix Spike Dup (B9D3009-MSD1)	Source: Y904482-01			Prepared: 04/30/2019 Analyzed: 04/30/2019						
n-Butylbenzene	58.7	1.00	ug/L	50.0	4.90	108	70-130	2.40	20	
n-Propylbenzene	56.5	1.00	"	50.0	1.62	110	70-130	0.212	20	
o-Xylene	56.1	1.00	"	50.0	0.680	111	70-130	2.08	20	
sec-Butylbenzene	57.3	1.00	"	50.0	2.50	110	70-130	1.19	20	
Styrene	53.2	1.00	"	50.0	0.830	105	70-130	1.94	20	
tert-Butylbenzene	58.0	1.00	"	50.0	2.01	112	70-130	0.918	20	
Tetrachloroethene	53.4	1.00	"	50.0	ND	107	70-130	1.60	20	
Toluene	54.8	1.00	"	50.0	0.220	109	70-130	2.99	20	
trans-1,2-Dichloroethene	49.0	1.00	"	50.0	ND	98.0	70-130	4.29	20	
trans-1,3-Dichloropropene	52.7	1.00	"	50.0	ND	105	70-130	3.87	20	
Trichloroethene	48.3	1.00	"	50.0	ND	96.7	70-130	3.70	20	
Trichlorofluoromethane	51.9	1.00	"	50.0	ND	104	70-130	1.36	20	
Vinyl chloride	51.4	1.00	"	50.0	ND	103	70-130	3.22	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.0	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3011 - EPA 5030B (Water)

Blank (B9D3011-BLK1)

Prepared: 04/30/2019 Analyzed: 04/30/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.3	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3011 - EPA 5030B (Water)

Blank (B9D3011-BLK2)

Prepared: 04/30/2019 Analyzed: 04/30/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	63		"	62.5		102	70-130			
<i>Surrogate: Toluene-d8</i>	62		"	62.5		98.8	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	61		"	62.5		98.0	70-130			

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Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3011 - EPA 5030B (Water)

LCS (B9D3011-BS1)

Prepared: 04/30/2019 Analyzed: 04/30/2019

Benzene	48.5	1.00	ug/L	50.0		97.1	70-130			
Toluene	46.5	1.00	"	50.0		93.0	70-130			
Ethylbenzene	48.8	1.00	"	50.0		97.6	70-130			
m,p-Xylene	95.7	2.00	"	100		95.7	70-130			
o-Xylene	47.9	1.00	"	50.0		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3011 - EPA 5030B (Water)

LCS (B9D3011-BS2)

Prepared: 04/30/2019 Analyzed: 04/30/2019

Benzene	46.1	1.00	ug/L	50.0		92.3	70-130			
Toluene	45.1	1.00	"	50.0		90.3	70-130			
Ethylbenzene	46.8	1.00	"	50.0		93.7	70-130			
m,p-Xylene	92.6	2.00	"	100		92.6	70-130			
o-Xylene	46.5	1.00	"	50.0		93.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		102	70-130			

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 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3011 - EPA 5030B (Water)

Matrix Spike (B9D3011-MS1)	Source: Y904477-05			Prepared: 04/30/2019 Analyzed: 04/30/2019						
Benzene	46.6	1.00	ug/L	50.0	ND	93.3	70-130			
Toluene	46.5	1.00	"	50.0	ND	93.0	70-130			
Ethylbenzene	48.4	1.00	"	50.0	ND	96.9	70-130			
m,p-Xylene	96.3	2.00	"	100	ND	96.3	70-130			
o-Xylene	48.3	1.00	"	50.0	ND	96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.0	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3011 - EPA 5030B (Water)

Matrix Spike (B9D3011-MS2)	Source: Y904477-03			Prepared: 04/30/2019 Analyzed: 04/30/2019						
Benzene	47.5	1.00	ug/L	50.0	ND	95.0	70-130			
Toluene	50.9	1.00	"	50.0	ND	102	70-130			
Ethylbenzene	50.1	1.00	"	50.0	ND	100	70-130			
m,p-Xylene	99.2	2.00	"	100	ND	99.2	70-130			
o-Xylene	49.9	1.00	"	50.0	ND	99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	70-130			

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Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3011 - EPA 5030B (Water)

Matrix Spike Dup (B9D3011-MSD1)	Source: Y904477-05			Prepared: 04/30/2019 Analyzed: 04/30/2019						
Benzene	45.2	1.00	ug/L	50.0	ND	90.4	70-130	3.14	20	
Toluene	44.3	1.00	"	50.0	ND	88.6	70-130	4.87	20	
Ethylbenzene	45.9	1.00	"	50.0	ND	91.8	70-130	5.36	20	
m,p-Xylene	92.2	2.00	"	100	ND	92.2	70-130	4.37	20	
o-Xylene	46.6	1.00	"	50.0	ND	93.1	70-130	3.63	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

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 6899 Pecos Street, Unit C
 Denver CO 80211

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9D3011 - EPA 5030B (Water)

Matrix Spike Dup (B9D3011-MSD2)	Source: Y904477-03			Prepared: 04/30/2019 Analyzed: 04/30/2019						
Benzene	52.8	1.00	ug/L	50.0	ND	106	70-130	10.7	20	
Toluene	54.9	1.00	"	50.0	ND	110	70-130	7.55	20	
Ethylbenzene	51.8	1.00	"	50.0	ND	104	70-130	3.32	20	
m,p-Xylene	101	2.00	"	100	ND	101	70-130	1.42	20	
o-Xylene	50.2	1.00	"	50.0	ND	100	70-130	0.480	20	
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	69		"	62.5		110	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP Greeley Gas Plant

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Noelle Doyle Mathis, President