

**DCP GREELEY GAS PLANT SITE
THIRD QUARTER 2020
FORM 27 SUPPLEMENTAL GROUNDWATER MONITORING SUMMARY REPORT**

ATTACHMENTS

Tables

- 1 Summary of Soil Sample Analytical Results
- 2 Third Quarter 2020 Summary of Groundwater Elevation Data
- 3 Third Quarter 2020 Summary of BTEX Concentrations in Groundwater
- 4 Historical BTEX Concentrations in Groundwater

Figures

- 1 Site Location Map
- 2 Site Overview Map with Monitoring Well Locations
- 3 Soil Analytical Results Map – August 4, 2020
- 4 Groundwater Elevation Contour Map – August 19, 2020
- 5 Groundwater Analytical Results Map – August 19, 2020

Appendices

- A Laboratory Analytical Report
 - Origins Laboratory Job #: Y008036 (Soil)
 - Origins Laboratory Job #: Y008274 (Groundwater)
 - Origins Laboratory Job #: Y009277 (Groundwater)
- B Boring / Well Construction Logs (MW13 and MW14)

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE
DCP MIDSTREAM - GREELEY GAS PLANT

Sample ID	Date Sampled	PID Reading (PPM)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH (mg/kg) ²	Comments
COGCC standards for Soil (mg/kg)⁽¹⁾			0.17	85	100	175	500	
MW11 @ 6-8'	1/2/2020	0.0	<0.002	<0.002	<0.002	<0.002	<50.0	
MW11 @ 8-10'	1/2/2020	0.3	<0.002	<0.002	<0.002	<0.002	<50.0	
MW11 @ 11-13'	1/2/2020	0.0	<0.002	<0.002	<0.002	<0.002	<50.0	
MW12 @ 7-9'	1/2/2020	0.0	<0.002	<0.002	<0.002	<0.002	<50.0	
MW12 @ 9-12'	1/2/2020	0.7	<0.002	<0.002	<0.002	<0.002	<50.0	
MW12 @ 13-15'	1/2/2020	0.4	<0.002	<0.002	<0.002	<0.002	<50.0	

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

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	11/13/2019	9.82	NM	--	13.70	4,678.49	4,668.67	-1.53
MW01	2/26/2020	11.11	NM	--	13.67	4,678.49	4,667.38	-1.29
MW01	5/27/2020	7.57	NM	--	13.67	4,678.49	4,670.92	3.54
MW01	8/19/2020	9.03	NM	--	13.67	4,678.49	4,669.46	-1.46
MW02	11/13/2019	10.58	NM	--	14.13	4,679.42	4,668.84	-1.53
MW02	2/26/2020	11.91	NM	--	14.14	4,679.42	4,667.51	-1.33
MW02	5/27/2020	8.40	NM	--	14.14	4,679.42	4,671.02	3.51
MW02	8/19/2020	9.89	NM	--	14.14	4,679.42	4,669.53	-1.49
MW03	11/13/2019	10.82	NM	--	14.65	4,679.67	4,668.85	-1.51
MW03	2/26/2020	12.08	NM	--	14.65	4,679.67	4,667.59	-1.26
MW03	5/27/2020	8.62	NM	--	14.65	4,679.67	4,671.05	3.46
MW03	8/19/2020	10.12	NM	--	14.65	4,679.67	4,669.55	-1.50
MW04	11/13/2019	10.69	NM	--	14.10	4,679.44	4,668.75	-1.53
MW04	2/26/2020	12.02	NM	--	14.11	4,679.44	4,667.42	-1.33
MW04	5/27/2020	8.47	NM	--	14.11	4,679.44	4,670.97	3.55
MW04	8/19/2020	9.96	NM	--	14.11	4,679.44	4,669.48	-1.49
MW05	11/13/2019	10.87	NM	--	14.29	4,679.79	4,668.92	-1.51
MW05	2/26/2020	12.14	NM	--	14.28	4,679.79	4,667.65	-1.27
MW05	5/29/2020	8.65	NM	--	14.28	4,679.79	4,671.14	3.49
MW05	8/19/2020	10.19	NM	--	14.28	4,679.79	4,669.60	-1.54
MW06	11/13/2019	10.50	NM	--	14.45	4,679.21	4,668.71	-1.55
MW06	2/26/2020	11.84	NM	--	14.45	4,679.21	4,667.37	-1.34
MW06	5/29/2020	8.31	NM	--	14.45	4,679.21	4,670.90	3.53
MW06	8/19/2020	9.79	NM	--	14.45	4,679.21	4,669.42	-1.48
MW06	9/21/2020	9.35	NM	--	14.45	4,679.21	4,669.86	0.44
MW07	11/13/2019	9.35	NM	--	13.72	4,678.01	4,668.66	-1.52
MW07	2/26/2020	10.56	NM	--	13.69	4,678.01	4,667.45	-1.21
MW07	5/27/2020	7.05	NM	--	13.69	4,678.01	4,670.96	3.51
MW07	8/19/2020	8.56	NM	--	13.69	4,678.01	4,669.45	-1.51
MW08	11/13/2019	8.49	NM	--	12.81	4,676.99	4,668.50	-2.09
MW08	2/26/2020	9.85	NM	--	12.81	4,676.99	4,667.14	-1.36
MW08	5/27/2020	6.30	NM	--	12.81	4,676.99	4,670.69	3.55
MW08	8/19/2020	7.62	NM	--	12.81	4,676.99	4,669.37	-1.32
MW09	11/13/2019	12.01	NM	--	13.85	4,680.86	4,668.85	-1.26
MW09	2/26/2020	13.35	NM	--	14.05	4,680.86	4,667.51	-1.34
MW09	5/29/2020	9.85	NM	--	14.05	4,680.86	4,671.01	3.50
MW09	8/19/2020	11.35	NM	--	14.05	4,680.86	4,669.51	-1.50
MW09	9/21/2020	10.95	NM	--	14.05	4,680.86	4,669.91	0.40
MW10	11/13/2019	11.04	NM	--	13.69	4,679.97	4,668.93	-1.26
MW10	2/26/2020	12.32	NM	--	13.18	4,679.97	4,667.65	-1.28
MW10	5/29/2020	8.84	NM	--	13.18	4,679.97	4,671.13	3.48
MW10	8/19/2020	10.37	NM	--	13.18	4,679.97	4,669.60	-1.53
MW11	2/26/2020	8.52	NM	--	12.08	4,675.64	4,667.12	NA

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)
MW11	5/27/2020	5.01	NM	--	12.08	4,675.64	4,670.63	3.51
MW11	8/19/2020	6.25	NM	--	12.08	4,675.64	4,669.39	-1.24
MW12	2/26/2020	8.14	NM	--	14.40	4,675.29	4,667.15	NA
MW12	5/27/2020	4.76	NM	--	14.40	4,675.29	4,670.53	3.38
MW12	8/19/2020	5.95	NM	--	14.40	4,675.29	4,669.34	-1.19
MW13	8/19/2020	12.55	NM	--	14.29	4,682.15	4,669.60	NA
MW14	8/19/2020	15.07	NM	--	18.97	4,684.61	4,669.54	NA
Average change in groundwater elevation MW01 through MW12 (05/27/2020 through 08/19/2020)								-1.44

Notes:

1- Groundwater elevation was corrected for product thickness (when present) using the following calculation:

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

LNAPL relative density was assumed to be approximately 0.75

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

NM = Not Measured

TABLE 3
THIRD QUARTER 2020 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	8/19/2020	243	<1.00	170	425	
MW02	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW03	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW04	8/19/2020	126	25.8	112	460	
MW05	8/19/2020	1.85	<1.00	<1.00	<1.00	
MW06	8/19/2020	125	<1.00	<1.00	<1.00	
MW06	9/21/2020	<1.00	<1.00	97.0	533	3Q20 - Resample
MW07	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW08	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW09	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW09	9/21/2020	<1.00	<1.00	<1.00	<1.00	3Q20 - Resample
MW10	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW11	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW12	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW13	8/19/2020	4.58	2.01	<1.00	<1.00	
MW14	8/19/2020	<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.

TABLE 4
HISTORICAL 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	
MW01	7/29/2019	417	28.9	224	666	
MW01	8/28/2019	620	<4.00	144	391	3Q19 - Resample
MW01	11/13/2019	368	20.3	228	684	
MW01	2/26/2020	69.2	<4.00	94.3	274	
MW01	5/27/2020	112	<1.00	159	351	
MW01	8/19/2020	243	<1.00	170	425	
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	
MW02	7/29/2019	<1.00	<1.00	<1.00	<1.00	
MW02	8/28/2019	<4.00	<4.00	<4.00	<4.00	3Q19 - Resample
MW02	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW02	2/26/2020	<4.00	<4.00	<4.00	<4.00	
MW02	5/27/2020	40.0	<10.0	<10.0	<10.0	
MW02	8/19/2020	<1.00	<1.00	<1.00	<1.00	
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	
MW03	7/29/2019	<1.00	<1.00	<1.00	<1.00	
MW03	8/28/2019	<4.00	<4.00	<4.00	<4.00	3Q19 - Resample
MW03	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW03	2/26/2020	<1.00	<1.00	<1.00	<1.00	
MW03	5/27/2020	<1.00	<1.00	<1.00	<1.00	
MW03	8/19/2020	<1.00	<1.00	<1.00	<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	
MW04	7/29/2019	191	<20.0	274	2,300	
MW04	8/28/2019	37.3	<1.00	157	727	3Q19 - Resample
MW04	11/13/2019	261	95.7	51.5	142	
MW04	2/26/2020	51.5	<10.0	31.0	123	
MW04	5/27/2020	755	437	369	4,340	
MW04	8/19/2020	126	25.8	112	460	
MW05	4/25/2019	<1.00	<1.00	<1.00	<1.00	
MW05	7/29/2019	10.8	<1.00	<1.00	<1.00	
MW05	8/28/2019	<4.00	<4.00	<4.00	<4.00	3Q19 - Resample
MW05	11/13/2019	16.7	<1.00	<1.00	<1.00	
MW05	2/26/2020	<1.00	<1.00	<1.00	<1.00	
MW05	5/29/2020	<1.00	<1.00	<1.00	<1.00	
MW05	8/19/2020	1.85	<1.00	<1.00	<1.00	
MW06	4/25/2019	<1.00	<1.00	<1.00	<1.00	
MW06	7/29/2019	194	<1.00	258	2,190	
MW06	8/28/2019	<4.00	<4.00	<4.00	116	3Q19 - Resample
MW06	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW06	2/26/2020	<1.00	<1.00	<1.00	<1.00	
MW06	5/29/2020	<1.00	<1.00	<1.00	<1.00	
MW06	8/19/2020	125	<1.00	<1.00	<1.00	

TABLE 4
HISTORICAL SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
DCP GREELEY GAS PLANT
WELD COUNTY, COLORADO

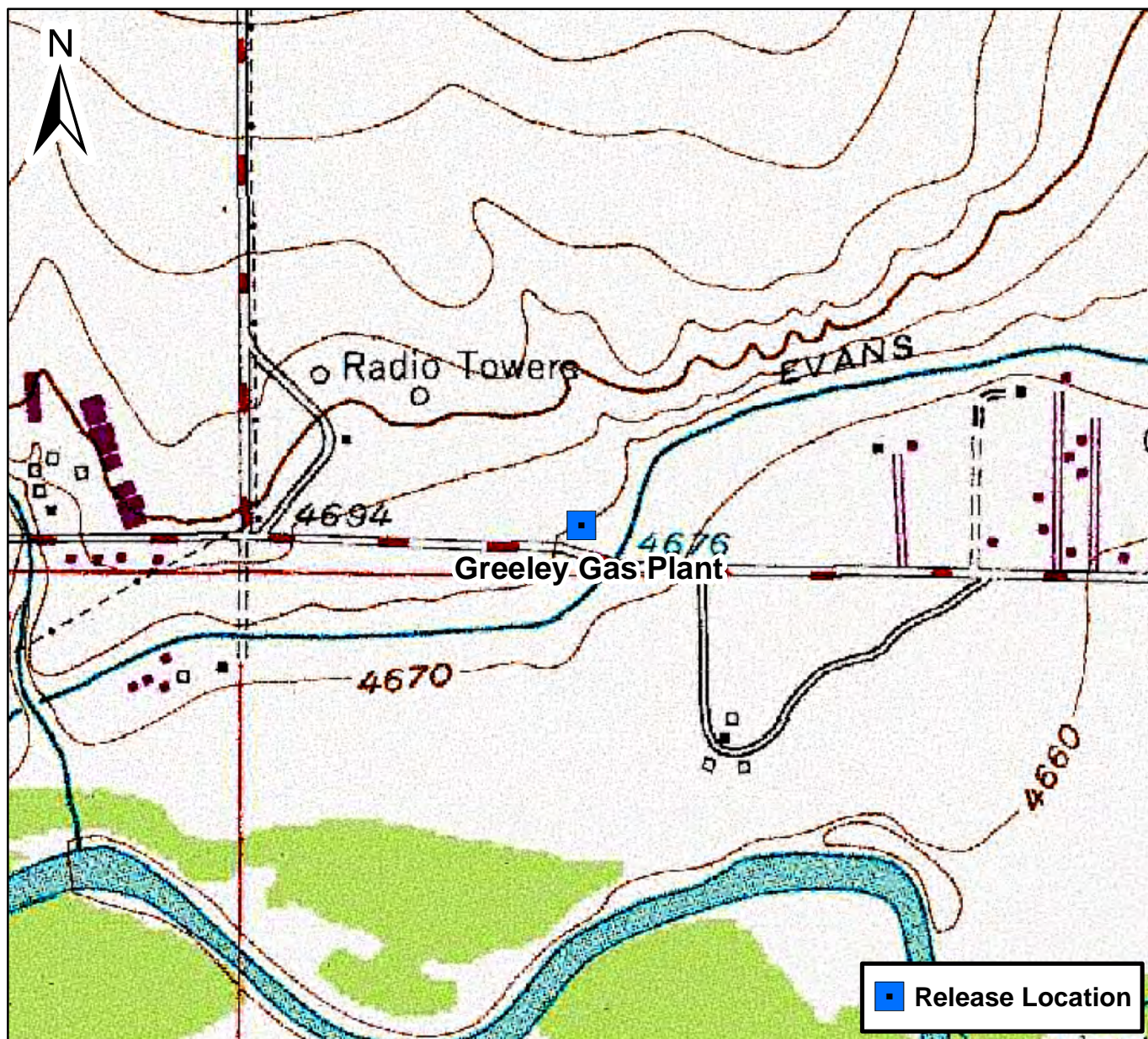
Location Identification	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	
MW06	9/21/2020	<1.00	<1.00	97.0	533	3Q20 - Resample
MW07	4/25/2019	<1.00	<1.00	<1.00	<1.00	
MW07	7/29/2019	<1.00	<1.00	<1.00	<1.00	
MW07	8/28/2019	<4.00	<4.00	<4.00	<4.00	3Q19 - Resample
MW07	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW07	2/26/2020	<1.00	<1.00	<1.00	<1.00	
MW07	5/27/2020	<1.00	<1.00	<1.00	<1.00	
MW07	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW08	4/25/2019	<1.00	<1.00	<1.00	<1.00	
MW08	7/29/2019	9.57	<1.00	<1.00	<1.00	
MW08	8/28/2019	14.2	<4.00	<4.00	<4.00	3Q19 - Resample
MW08	11/13/2019	12.9	<1.00	<1.00	<1.00	
MW08	2/26/2020	<1.00	<1.00	<1.00	<1.00	
MW08	5/27/2020	<1.00	<1.00	<1.00	<1.00	
MW08	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW09	09/06/19	<4.00	<4.00	<4.00	<4.00	
MW09	11/13/2019	1.29	<1.00	<1.00	<1.00	
MW09	2/26/2020	22.5	<4.00	<4.00	<4.00	
MW09	5/29/2020	31.1	<1.00	<1.00	<1.00	
MW09	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW09	9/21/2020	<1.00	<1.00	<1.00	<1.00	3Q20 - Resample
MW10	09/06/19	<1.00	<1.00	<1.00	<1.00	
MW10	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW10	2/26/2020	<1.00	<1.00	<1.00	<1.00	
MW10	5/29/2020	2.71	<1.00	5.97	15.3	
MW10	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW11	2/26/2020	<1.00	<1.00	<1.00	<1.00	
MW11	5/27/2020	<4.00	<4.00	<4.00	<4.00	
MW11	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW12	2/26/2020	1.85	<1.00	<1.00	<1.00	
MW12	5/27/2020	<1.00	<1.00	<1.00	<1.00	
MW12	8/19/2020	<1.00	<1.00	<1.00	<1.00	
MW13	8/19/2020	4.58	2.01	<1.00	<1.00	
MW14	8/19/2020	<1.00	<1.00	<1.00	<1.00	
SW01	09/04/19	<1.00	<1.00	<1.00	<1.00	One-time sample from adjacent creek

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.

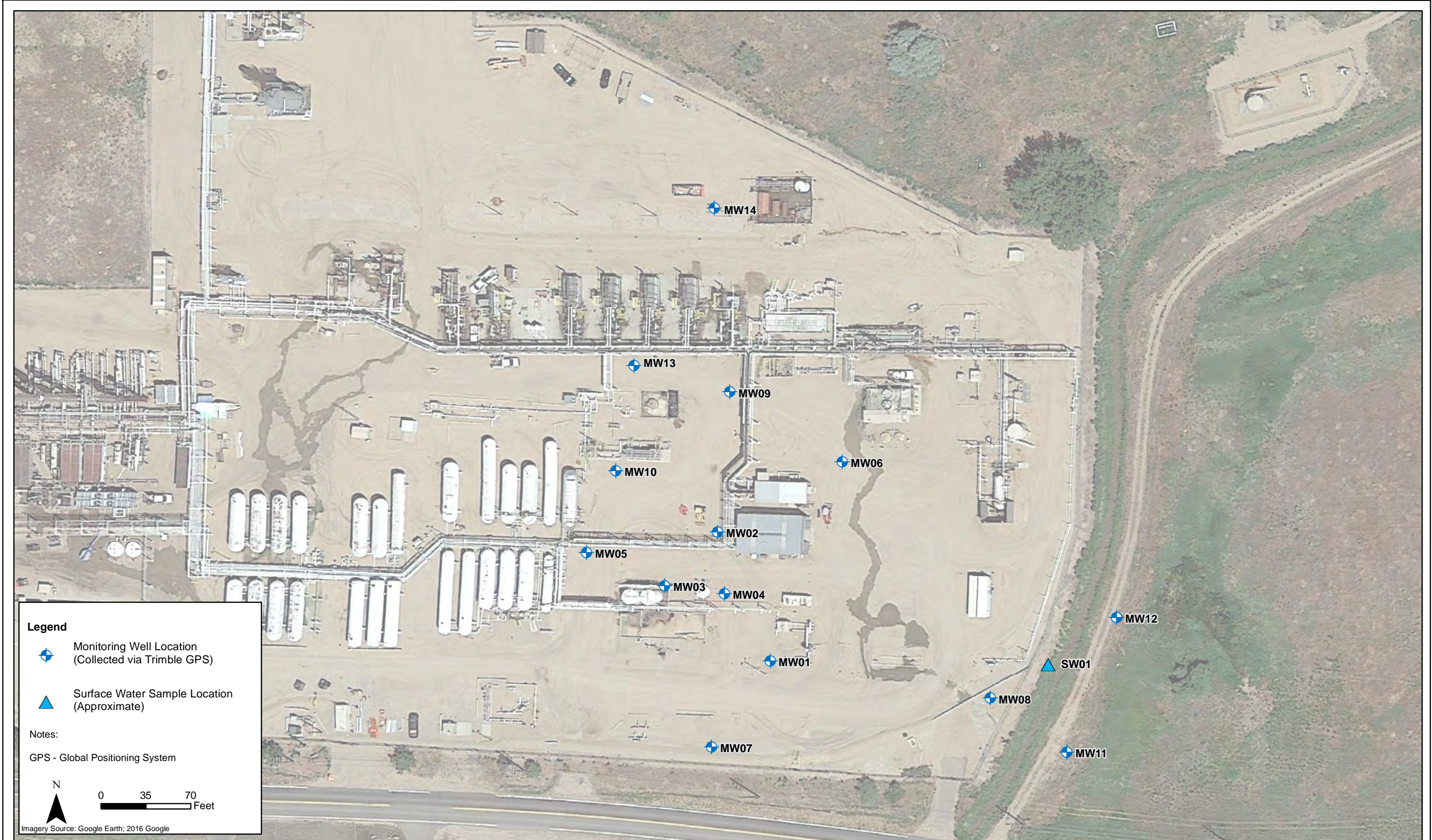


0 750 1,500 Feet

Figure 1

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





DATE:
February 2020

DESIGNED BY:
B. Humphrey

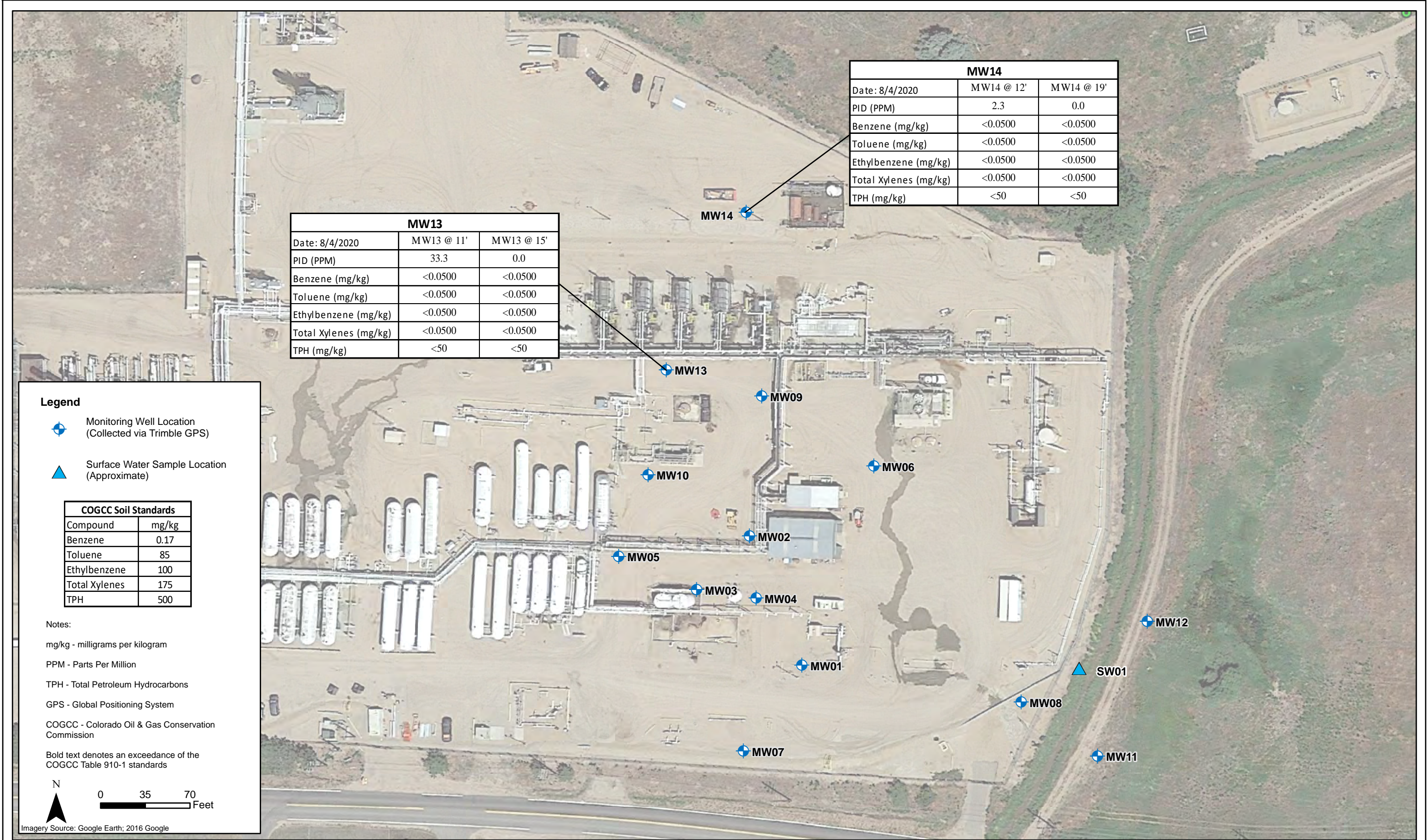
DRAWN BY:
J. Clonts



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

Site Overview
Map

Figure
2



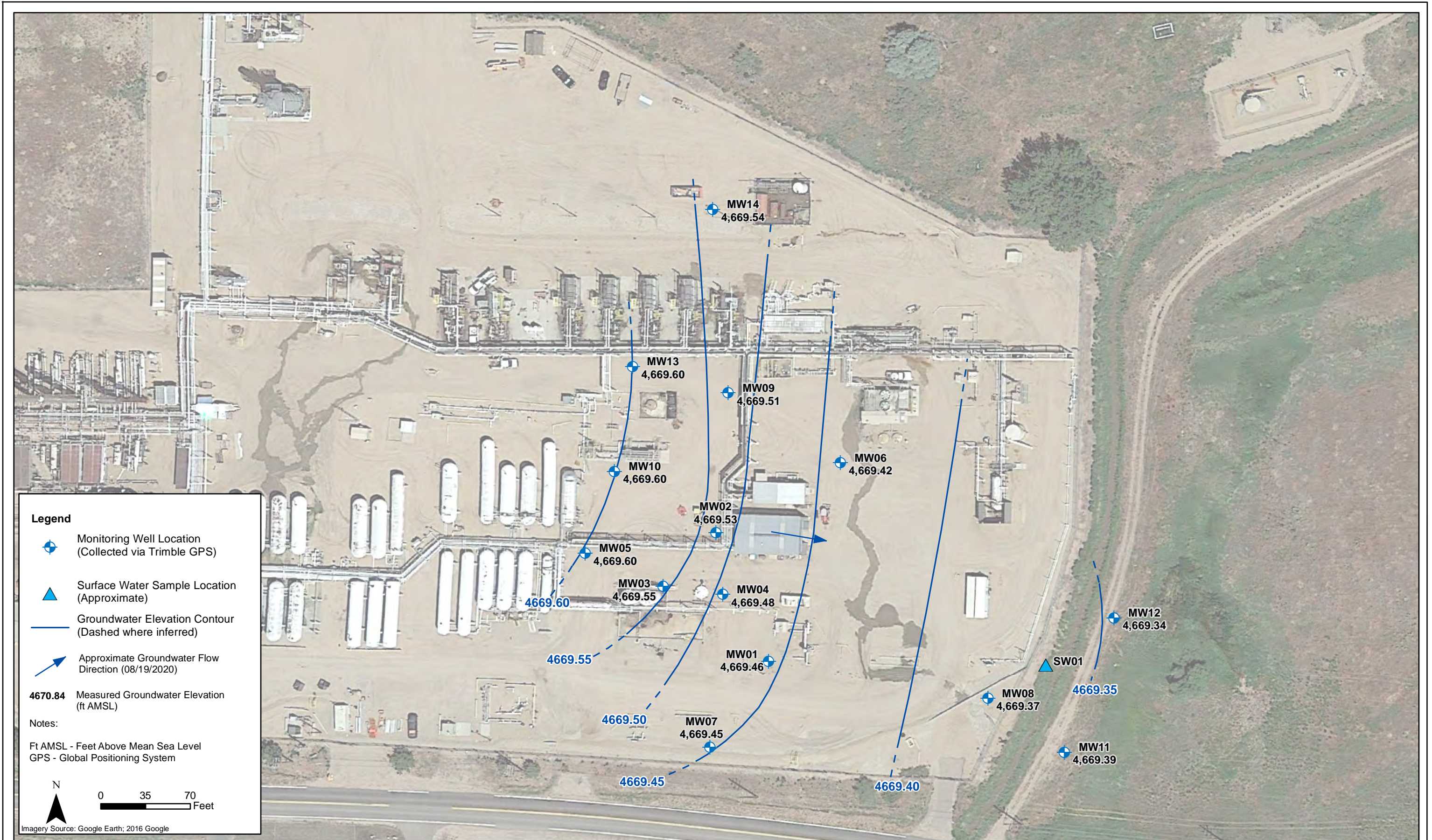
DATE:	August 2020
DESIGNED BY:	B. Humphrey
DRAWN BY:	J. Clonts



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

Soil Analytical Results
Map

Figure
3



DATE:	August 2020
DESIGNED BY:	B. Humphrey
DRAWN BY:	J. Clonts



TASMAN
GEOSCIENCES

Tasman Geosciences, Inc
6855 W. 119th Ave
Broomfield, CO 80020

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

Groundwater Elevation
Contour Map
(August 19, 2020)

Figure
4



August 12, 2020

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - Greeley Gas Plant

Project Number - [none]

Attached are your analytical results for DCP - Greeley Gas Plant received by Origins Laboratory, Inc. August 04, 2020. This project is associated with Origins project number Y008036-01.

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
6855 West 119th Avenue
Broomfield CO 80020

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW13@11'	Y008036-01	Soil	August 4, 2020 10:45	08/04/2020 17:30
MW13@15'	Y008036-02	Soil	August 4, 2020 10:50	08/04/2020 17:30
MW14@12'	Y008036-03	Soil	August 4, 2020 11:30	08/04/2020 17:30
MW14@19'	Y008036-04	Soil	August 4, 2020 11:45	08/04/2020 17:30

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
6855 West 119th Avenue
Broomfield CO 80020

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

www.originslaboratory.com



page 1 of 1

Y008036

ORIGINS
LABORATORY, INC

Client: DCP / THSMAN
Address: 6855 W 119TH AVE
BROOMFIELD CO 80020
Telephone Number: 303-520-0298
Email Address: bhumphrey@tasman-geo.com
bhumphrey@tasman-geo.com

Project Manager: B. HUMPHREY / S. WATKINS
Project Name: DCP - GREELEY GP
Project Number: DCP - GREELEY GP
Samples Collected By: J. WATKINS

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix				Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Continer #	Other				
MW13 @ 11'	8-4-20	1045	1	X					X			X	X	1	Sample Instructions
MW13 @ 15'	8-4-20	1050	1	X					X			X	X	2	
MW14 @ 12'	8-4-20	1130	1	X					X			X	X	3	
MW14 @ 14'	8-4-20	1145	1	X					X			X	X	4	
														5	
														6	
														7	
														8	
														9	
														10	
Relinquished By: 	Date: 8-4-20	Time:		Received By: 	Date: 8/4/20	Time: 1730	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input type="checkbox"/>								
Relinquished By:	Date:	Time:		Received By:	Date:	Time:									

49

Date Results Needed

Origins Laboratory, Inc.

[Signature]

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
6855 West 119th Avenue
Broomfield CO 80020

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: Y008036

Client: Tasman

Client Project ID: DCP-Greeley GP

Checklist Completed by: SKK

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 08/05/2020

Airbill #: NTA

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

Cooler Number/Temperature: 1 / 4.9 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water—is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<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 be taken in the additional comments (above) and the case narrative.

Reviewed by: jm (Project Manager)

8-6-20
Date/Time Reviewed

Origins Laboratory, Inc.

Jordan A. Merrill

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
6855 West 119th Avenue
Broomfield CO 80020

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

MW13@11'
8/4/2020 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y008036-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0H0505	KDK	08/05/2020	08/05/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0H0506	TEM	"	08/05/2020	U
Surrogate: o-Terphenyl	62.3 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW13@15'
8/4/2020 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y008036-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0H0505	KDK	08/05/2020	08/05/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	7.91	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"		"	"	
Surrogate: Toluene-d8	99.9 %	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	B0H0506	TEM	"	08/05/2020	U
Surrogate: o-Terphenyl	59.8 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW14@12'
8/4/2020 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y008036-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0H0505	KDK	08/05/2020	08/06/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0H0506	TEM	"	08/05/2020	U
Surrogate: o-Terphenyl	59.8 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW14@19'
8/4/2020 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y008036-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0H0505	KDK	08/05/2020	08/06/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130	"	"	"
Surrogate: Toluene-d8	98.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130	"	"	"

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0H0506	TEM	"	08/05/2020	U
Surrogate: o-Terphenyl	61.6 %	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
6855 West 119th Avenue
Broomfield CO 80020

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 B0H0505 - EPA 5030 (soil)										
Blank (B0H0505-BLK1)					Prepared: 08/05/2020 Analyzed: 08/05/2020					
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		99.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		100	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
6855 West 119th Avenue
Broomfield CO 80020

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 B0H0505 - EPA 5030 (soil)

LCS (B0H0505-BS1)

Prepared: 08/05/2020 Analyzed: 08/05/2020

Benzene	0.104	0.00200	mg/kg	0.100		104	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.108	0.00200	"	0.100		108	70-130			
m,p-Xylene	0.218	0.00400	"	0.200		109	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	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
6855 West 119th Avenue
Broomfield CO 80020

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 B0H0505 - EPA 5030 (soil)

Matrix Spike (B0H0505-MS1)		Source: Y008036-01			Prepared: 08/05/2020 Analyzed: 08/05/2020					
Benzene	0.115	0.00200	mg/kg	0.100	ND	115	70-130			
Toluene	0.119	0.00200	"	0.100	ND	119	70-130			
Ethylbenzene	0.123	0.00200	"	0.100	ND	123	70-130			
m,p-Xylene	0.245	0.00400	"	0.200	ND	123	70-130			
o-Xylene	0.119	0.00200	"	0.100	ND	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.12		"	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
6855 West 119th Avenue
Broomfield CO 80020

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 B0H0505 - EPA 5030 (soil)

Matrix Spike Dup (B0H0505-MSD1)		Source: Y008036-01			Prepared: 08/05/2020 Analyzed: 08/05/2020					
Benzene	0.113	0.00200	mg/kg	0.100	ND	113	70-130	1.91	20	
Toluene	0.118	0.00200	"	0.100	ND	118	70-130	0.962	20	
Ethylbenzene	0.117	0.00200	"	0.100	ND	117	70-130	4.27	20	
m,p-Xylene	0.234	0.00400	"	0.200	ND	117	70-130	4.52	20	
o-Xylene	0.114	0.00200	"	0.100	ND	114	70-130	4.88	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	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
6855 West 119th Avenue
Broomfield CO 80020

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 B0H0506 - EPA 3580

Blank (B0H0506-BLK1)

Prepared: 08/05/2020 Analyzed: 08/05/2020

Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	17		"	25.0		68.0	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
6855 West 119th Avenue
Broomfield CO 80020

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 B0H0506 - EPA 3580

LCS (B0H0506-BS1)

Prepared: 08/05/2020 Analyzed: 08/05/2020

Diesel (C10-C28)	914	50.0	mg/kg	1000		91.4	70-130			
Surrogate: o-Terphenyl	39		"	50.0		77.8	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
6855 West 119th Avenue
Broomfield CO 80020

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 B0H0506 - EPA 3580

Matrix Spike (B0H0506-MS1)		Source: Y008036-01			Prepared: 08/05/2020 Analyzed: 08/05/2020					
Diesel (C10-C28)	794	50.0	mg/kg	1000	ND	79.4	70-130			
Surrogate: o-Terphenyl	32		"	50.0		64.6	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
6855 West 119th Avenue
Broomfield CO 80020

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 B0H0506 - EPA 3580

Matrix Spike Dup (B0H0506-MSD1)		Source: Y008036-01			Prepared: 08/05/2020 Analyzed: 08/05/2020					
Diesel (C10-C28)	902	50.0	mg/kg	1000	ND	90.2	70-130	12.7	35	
Surrogate: o-Terphenyl	38		"	50.0		76.5	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
6855 West 119th Avenue
Broomfield CO 80020

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.



August 26, 2020

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - Greeley Gas Plant

Project Number - [none]

Attached are your analytical results for DCP - Greeley Gas Plant received by Origins Laboratory, Inc. August 19, 2020. This project is associated with Origins project number Y008274-01.

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
6855 West 119th Avenue
Broomfield CO 80020

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y008274-01	Water	August 19, 2020 14:04	08/19/2020 16:30
MW02	Y008274-02	Water	August 19, 2020 13:52	08/19/2020 16:30
MW03	Y008274-03	Water	August 19, 2020 13:41	08/19/2020 16:30
MW04	Y008274-04	Water	August 19, 2020 14:14	08/19/2020 16:30
MW05	Y008274-05	Water	August 19, 2020 13:31	08/19/2020 16:30
MW06	Y008274-06	Water	August 19, 2020 13:00	08/19/2020 16:30
MW07	Y008274-07	Water	August 19, 2020 12:09	08/19/2020 16:30
MW08	Y008274-08	Water	August 19, 2020 11:24	08/19/2020 16:30
MW09	Y008274-09	Water	August 19, 2020 12:50	08/19/2020 16:30
MW10	Y008274-10	Water	August 19, 2020 13:21	08/19/2020 16:30
MW11	Y008274-11	Water	August 19, 2020 14:38	08/19/2020 16:30
MW12	Y008274-12	Water	August 19, 2020 14:48	08/19/2020 16:30
MW13	Y008274-13	Water	August 19, 2020 12:38	08/19/2020 16:30
MW14	Y008274-14	Water	August 19, 2020 12:24	08/19/2020 16:30

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

6855 West 119th Avenue

Broomfield CO 80020

Brian Humphrey

Project Number: [none]

Project: DCP - Greeley Gas Plant

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
6855 West 119th Avenue
Broomfield CO 80020

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

Y008274

page 1 of 2

Client: DCP/Tasman
Address: 6855 W 119th Ave
Broomfield, CO 80020
Telephone Number: 303-487-1228
Email Address: bhumphrey@tasman-geo.com
SWW@tasman-geo.com

Project Manager: Brian Humphrey / Steve Winkler
Project Name: Greeley Gas Plant
Project Number:
Samples Collected By: Brian Gabel

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
MW01	8/19/20	1404	3	X				X				1
MW02		1352										2
MW03		1341										3
MW04		1414										4
MW05		1331										5
MW06		1300										6
MW07		1209										7
MW08		1124										8
MW09		1250										9
MW10		1321										10

Relinquished By: [Signature] Date: 8/19/2020 Time: 1630
Relinquished By: [Signature] Date: 8/19/2020 Time: 1630

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☒ Standard

Temp Received: 5.9 Date Results Needed

Origins Laboratory, Inc.

[Signature]

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
6855 West 119th Avenue
Broomfield CO 80020

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

ORIGINS
LABORATORY, INC

www.originslaboratory.com

Y68274

page 2 of 2

Client: DCP/Tasman
Address: 6855 W 119th Ave
Broomfield, CO 80020
Telephone Number: 303-487-1228
Email Address: bhumphrey@tasman-geo.com
SWweather@dcplwstasman.com

Project Manager: Brian Humphrey / Steve Weathers
Project Name: Greeley Gas Plant
Project Number:
Samples Collected By: Brian Gabel

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
MW11	8/19/20	1438	3	X				X				1
MW12		1448										2
MW13		1238										3
MW14		1224										4
												5
												6
												7
												8
												9
												10

Relinquished By: [Signature] Date: 8/19/2020 Time: [Blank]
Relinquished By: [Signature] Date: 8/19/2020 Time: [Blank]

Received By: [Signature] Date: 8/19/2020 Time: 1630
Received By: [Signature] Date: [Blank] Time: [Blank]

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☒ Standard

Temp Received: 15.9 Date Results Needed

Origins Laboratory, Inc.

[Signature]

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
6855 West 119th Avenue
Broomfield CO 80020

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: Y008274

Client: Tasman
Client Project ID: Greeley Gas Plant

Checklist Completed by: JG
Date/time completed: 8/20/20

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, 15.9 °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"/>		<u>See Ref</u>
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: Jm (Project Manager)

8-21-20
Date/Time Reviewed

Origins Laboratory, Inc.

Jmerrill

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
6855 West 119th Avenue
Broomfield CO 80020

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

MW01

8/19/2020 2:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y008274-01 (Water)

BTEX by EPA 8260D

Benzene	243	4.00	ug/L	4	B0H2003	KDK	08/20/2020	08/20/2020	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	170	4.00	"	"	"	KDK	"	"	
Xylenes, total	425	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW02

8/19/2020 1:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y008274-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW03

8/19/2020 1:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc. Y008274-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW04

8/19/2020 2:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y008274-04 (Water)

BTEX by EPA 8260D

Benzene	126	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	
Toluene	25.8	1.00	"	"	"	KDK	"	"	
Ethylbenzene	112	10.0	"	10	"	KDK	"	08/21/2020	
Xylenes, total	460	10.0	"	"	"	KDK	"	08/20/2020	

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"		
Surrogate: Toluene-d8	127 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	99.5 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW05

8/19/2020 1:31:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y008274-05 (Water)

BTEX by EPA 8260D

Benzene	1.05	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.8 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW06

8/19/2020 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y008274-06 (Water)

BTEX by EPA 8260D

Benzene	125	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.9 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW07

8/19/2020 12:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc. Y008274-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.8 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW08

8/19/2020 11:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc. Y008274-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.0 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW09

8/19/2020 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc. Y008274-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	99.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.3 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW10

8/19/2020 1:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc. Y008274-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"
Surrogate: Toluene-d8	100 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW11

8/19/2020 2:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc. Y008274-11 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW12

8/19/2020 2:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc. Y008274-12 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW13

8/19/2020 12:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc. Y008274-13 (Water)

BTEX by EPA 8260D

Benzene	4.58	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	
Toluene	2.01	1.00	"	"	"	KDK	"	"	
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW14

8/19/2020 12:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc. Y008274-14 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H2003	KDK	08/20/2020	08/20/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	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
6855 West 119th Avenue
Broomfield CO 80020

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 B0H2003 - EPA 5030B (Water)

Blank (B0H2003-BLK1)

Prepared: 08/20/2020 Analyzed: 08/20/2020

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	99.0		70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.4		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
6855 West 119th Avenue
Broomfield CO 80020

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 B0H2003 - EPA 5030B (Water)

LCS (B0H2003-BS1)

Prepared: 08/20/2020 Analyzed: 08/20/2020

Benzene	44.0	1.00	ug/L	50.0		87.9	70-130			
Toluene	42.9	1.00	"	50.0		85.8	70-130			
Ethylbenzene	44.7	1.00	"	50.0		89.4	70-130			
m,p-Xylene	86.8	2.00	"	100		86.8	70-130			
o-Xylene	41.4	1.00	"	50.0		82.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.7	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		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
6855 West 119th Avenue
Broomfield CO 80020

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 B0H2003 - EPA 5030B (Water)

Matrix Spike (B0H2003-MS1)		Source: Y008284-01			Prepared: 08/20/2020 Analyzed: 08/21/2020					
Benzene	44.0	1.00	ug/L	50.0	ND	88.0	70-130			
Toluene	43.8	1.00	"	50.0	ND	87.6	70-130			
Ethylbenzene	44.7	1.00	"	50.0	ND	89.3	70-130			
m,p-Xylene	87.9	2.00	"	100	0.340	87.5	70-130			
o-Xylene	42.8	1.00	"	50.0	ND	85.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.2	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	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
6855 West 119th Avenue
Broomfield CO 80020

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 B0H2003 - EPA 5030B (Water)

Matrix Spike Dup (B0H2003-MSD1)		Source: Y008284-01			Prepared: 08/20/2020 Analyzed: 08/20/2020					
Benzene	41.1	1.00	ug/L	50.0	ND	82.2	70-130	6.79	20	
Toluene	40.4	1.00	"	50.0	ND	80.7	70-130	8.17	20	
Ethylbenzene	41.3	1.00	"	50.0	ND	82.7	70-130	7.77	20	
m,p-Xylene	80.6	2.00	"	100	0.340	80.3	70-130	8.57	20	
o-Xylene	39.8	1.00	"	50.0	ND	79.6	70-130	7.41	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		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
6855 West 119th Avenue
Broomfield CO 80020

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.

September 24, 2020

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - Greeley Gas Plant

Project Number - [none]

Attached are your analytical results for DCP - Greeley Gas Plant received by Origins Laboratory, Inc. September 21, 2020. This project is associated with Origins project number Y009277-01.

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



Tasman Geosciences

6855 West 119th Avenue

Broomfield CO 80020

Brian Humphrey

Project Number: [none]

Project: DCP - Greeley Gas Plant

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW06	Y009277-01	Water	September 21, 2020 13:15	09/21/2020 15:03
MW09	Y009277-02	Water	September 21, 2020 13:25	09/21/2020 15:03

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
6855 West 119th Avenue
Broomfield CO 80020

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

www.originslaboratory.com

Y009277

page 1 of 1

ORIGINS
LABORATORY, INC

Client: DCP/Tasman
Address: 6855 W 119th Ave
Broomfield, CO 80020
Telephone Number: 303-467-1228
Email Address: bhumphrey@tasman-geo.com
SWANWATERS@originslab.com

Project Manager: Brian Humphrey / Steve Weathers
Project Name: Greeley Gas Plant
Project Number:
Samples Collected By: Brian Gabel

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #			Other
MW06	9/21/20	1315	3	X				X					1
MW09	9/21/20	1325	3	X				X					2
													3
													4
													5
													6
													7
													8
													9
													10

Relinquished By: [Signature] Date: 9/21/2020 Time: 1503
Relinquished By: [Signature] Date: 9/21/2020 Time: 1503

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☒ 72 Hr ☐ Standard ☐

Date Results Needed

Temp Received- B-1

Origins Laboratory, Inc.

[Signature]

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
6855 West 119th Avenue
Broomfield CO 80020

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: Y009277

Client: Tasman

Client Project ID: DCP - Greeley Gas Plant

Checklist Completed by: jm
Date/Time completed: 9/21/2020

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

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

Cooler Number/Temperature: 1 B-1 °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⁾ ?		X		Same day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			X	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			X	
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			X	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X		X	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.				
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)	X			HCL
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): jm

Date/Time Reviewed: 9-22-20

Origins Laboratory, Inc.

Jordan A. Merrill

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
6855 West 119th Avenue
Broomfield CO 80020

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

MW06

9/21/2020 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y009277-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B012104	KDK	09/21/2020	09/24/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	97.0	1.00	"	"	"	KDK	"	"	
Xylenes, total	533	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130			"	"	"
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.6 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW09

9/21/2020 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc. Y009277-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B012104	KDK	09/21/2020	09/24/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	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
6855 West 119th Avenue
Broomfield CO 80020

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 B0I2104 - EPA 5030B (Water)

Blank (B0I2104-BLK1)

Prepared: 09/21/2020 Analyzed: 09/24/2020

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	65		"	62.5	104	70-130				
Surrogate: Toluene-d8	60		"	62.5	96.0	70-130				
Surrogate: 4-Bromofluorobenzene	66		"	62.5	106	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
6855 West 119th Avenue
Broomfield CO 80020

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 B012104 - EPA 5030B (Water)

LCS (B012104-BS1)

Prepared: 09/21/2020 Analyzed: 09/24/2020

Benzene	44.5	1.00	ug/L	50.0		88.9	70-130			
Toluene	44.0	1.00	"	50.0		88.0	70-130			
Ethylbenzene	43.6	1.00	"	50.0		87.1	70-130			
m,p-Xylene	87.3	2.00	"	100		87.3	70-130			
o-Xylene	44.8	1.00	"	50.0		89.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		111	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	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
6855 West 119th Avenue
Broomfield CO 80020

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 B0I2104 - EPA 5030B (Water)

Matrix Spike (B0I2104-MS1)		Source: Y009264-01			Prepared: 09/21/2020 Analyzed: 09/24/2020					
Benzene	54.8	1.00	ug/L	50.0	ND	110	70-130			
Toluene	47.3	1.00	"	50.0	ND	94.7	70-130			
Ethylbenzene	47.4	1.00	"	50.0	ND	94.9	70-130			
m,p-Xylene	94.6	2.00	"	100	ND	94.6	70-130			
o-Xylene	49.8	1.00	"	50.0	ND	99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5		112	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		108	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
6855 West 119th Avenue
Broomfield CO 80020

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 B012104 - EPA 5030B (Water)

Matrix Spike Dup (B012104-MSD1)		Source: Y009264-01			Prepared: 09/21/2020 Analyzed: 09/24/2020					
Benzene	57.9	1.00	ug/L	50.0	ND	116	70-130	5.54	20	
Toluene	49.9	1.00	"	50.0	ND	99.8	70-130	5.23	20	
Ethylbenzene	50.4	1.00	"	50.0	ND	101	70-130	6.03	20	
m,p-Xylene	101	2.00	"	100	ND	101	70-130	6.48	20	
o-Xylene	52.4	1.00	"	50.0	ND	105	70-130	4.99	20	
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5		111	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		108	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
6855 West 119th Avenue
Broomfield CO 80020

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.