

**DCP GREELEY GAS PLANT SITE
FOURTH QUARTER 2019
FORM 27 SUPPLEMENTAL GROUNDWATER MONITORING SUMMARY REPORT**

ATTACHMENTS

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- 2 Fourth Quarter 2019 Summary of BTEX Concentrations in Groundwater
- 3 Historical BTEX Concentrations in Groundwater

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- 4 Groundwater Elevation Contour Map – November 13, 2019

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- A Laboratory Analytical Report
 - Origins Laboratory Job #: Y911222

TABLE 1
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	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
MW01	7/29/2019	7.80	NM	--	13.70	4,678.49	4,670.69	-0.15
MW01	8/28/2019	8.29	NM	--	13.70	4,678.49	4,670.20	-0.49
MW01	11/13/2019	9.82	NM	--	13.70	4,678.49	4,668.67	-1.53
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
MW02	7/29/2019	8.56	NM	--	14.13	4,679.42	4,670.86	0.17
MW02	8/28/2019	9.05	NM	--	14.13	4,679.42	4,670.37	-0.49
MW02	11/13/2019	10.58	NM	--	14.13	4,679.42	4,668.84	-1.53
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
MW03	7/29/2019	8.76	NM	--	14.65	4,679.67	4,670.91	0.21
MW03	8/28/2019	9.31	NM	--	14.65	4,679.67	4,670.36	-0.55
MW03	11/13/2019	10.82	NM	--	14.65	4,679.67	4,668.85	-1.51
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
MW04	7/29/2019	8.67	NM	--	14.10	4,679.44	4,670.77	0.03
MW04	8/28/2019	9.16	NM	--	14.10	4,679.44	4,670.28	-0.49
MW04	11/13/2019	10.69	NM	--	14.10	4,679.44	4,668.75	-1.53
MW05	4/25/2019	9.14	NM	--	14.37	4,679.79	4,670.65	NA
MW05	7/29/2019	8.86	NM	--	14.29	4,679.79	4,670.93	0.28
MW05	8/28/2019	9.36	NM	--	14.29	4,679.79	4,670.43	-0.50
MW05	11/13/2019	10.87	NM	--	14.29	4,679.79	4,668.92	-1.51
MW06	4/25/2019	8.53	NM	--	14.46	4,679.21	4,670.68	NA
MW06	7/29/2019	8.54	NM	--	14.45	4,679.21	4,670.67	-0.01
MW06	8/28/2019	8.95	NM	--	14.45	4,679.21	4,670.26	-0.41
MW06	11/13/2019	10.50	NM	--	14.45	4,679.21	4,668.71	-1.55
MW07	4/25/2019	7.17	NM	--	13.89	4,678.01	4,670.84	NA
MW07	7/29/2019	7.32	NM	--	13.72	4,678.01	4,670.69	-0.15
MW07	8/28/2019	7.83	NM	--	13.72	4,678.01	4,670.18	-0.51
MW07	11/13/2019	9.35	NM	--	13.72	4,678.01	4,668.66	-1.52
MW08	4/25/2019	6.00	NM	--	12.86	4,676.99	4,670.99	NA
MW08	7/29/2019	6.56	NM	--	12.81	4,676.99	4,670.43	-0.56
MW08	8/28/2019	6.40	NM	--	12.81	4,676.99	4,670.59	0.16
MW08	11/13/2019	8.49	NM	--	12.81	4,676.99	4,668.50	-2.09
MW09	9/6/2019	10.75	NM	--	13.90	4,680.86	4,670.11	NA
MW09	11/13/2019	12.01	NM	--	13.85	4,680.86	4,668.85	-1.26
MW10	9/6/2019	9.78	NM	--	13.75	4,679.97	4,670.19	NA
MW10	11/13/2019	11.04	NM	--	13.69	4,679.97	4,668.93	-1.26
Average change in groundwater elevation MW01 through MW08 (8/28/2019 through 11/13/2019)								-1.60

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 2
FOURTH QUARTER 2019 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	11/13/2019	368	20.3	228	684	
MW02	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW03	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW04	11/13/2019	261	95.7	51.5	142	
MW05	11/13/2019	16.7	<1.00	<1.00	<1.00	
MW06	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW07	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW08	11/13/2019	12.9	<1.00	<1.00	<1.00	
MW09	11/13/2019	1.29	<1.00	<1.00	<1.00	
MW10	11/13/2019	<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.

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

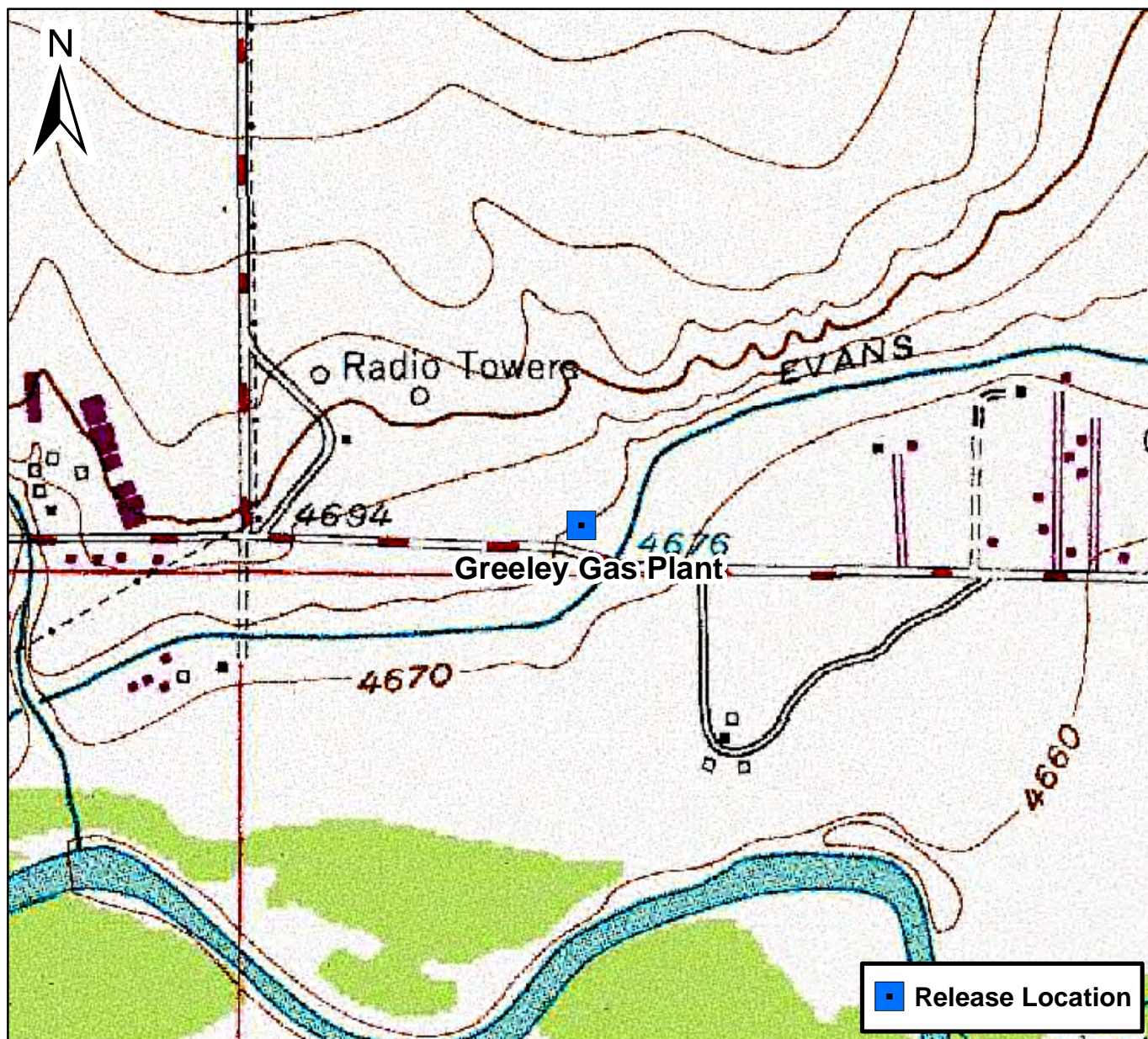
Location Identification	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	
MW01	12/4/2018	6,290	27.8	512	4,800	
MW01	2/1/2019	4,740	1,050	648	4,370	
MW01	4/25/2019	370	49.3	38.0	624.5	
MW01	7/29/2019	417	28.9	224	666	
MW01	8/28/2019	620	<4.00	144	391	3Q19 - Resample
MW01	11/13/2019	368	20.3	228	684	
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	
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	
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	
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	
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	
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	
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	
MW09	09/06/19	<4.00	<4.00	<4.00	<4.00	
MW09	11/13/2019	1.29	<1.00	<1.00	<1.00	
MW10	09/06/19	<1.00	<1.00	<1.00	<1.00	
MW10	11/13/2019	<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:	October 2019
DESIGNED BY:	B. Humphrey
DRAWN BY:	L. Martin



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

Site Overview
Map

Figure
2



DATE:	November 2019
DESIGNED BY:	B. Humphrey
DRAWN BY:	L. Martin



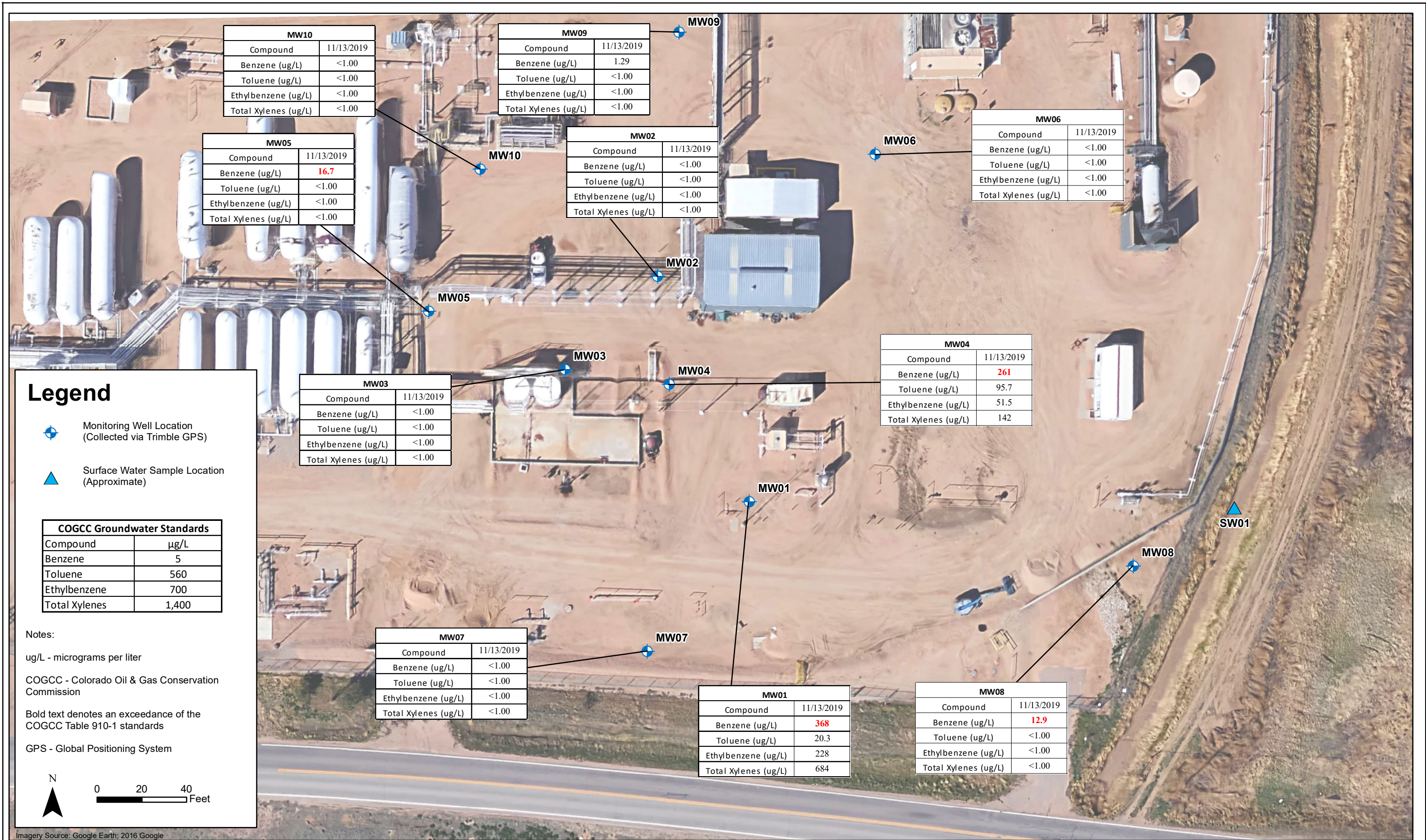
TASMAN
GEOSCIENCES

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
(November 13, 2019)

Figure
3



DATE:
November 2019

DESIGNED BY:
B. Humphrey

DRAWN BY:
L. Martin



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

Groundwater Analytical Map
(November 13, 2019)

Figure
4



November 19, 2019

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. November 13, 2019. This project is associated with Origins project number Y911222-01.

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 - 111319	Y911222-01	Water	November 13, 2019 13:14	11/13/2019 14:56
MW02 - 111319	Y911222-02	Water	November 13, 2019 12:13	11/13/2019 14:56
MW03 - 111319	Y911222-03	Water	November 13, 2019 12:34	11/13/2019 14:56
MW04 - 111319	Y911222-04	Water	November 13, 2019 13:24	11/13/2019 14:56
MW05 - 111319	Y911222-05	Water	November 13, 2019 12:03	11/13/2019 14:56
MW06 - 111319	Y911222-06	Water	November 13, 2019 11:31	11/13/2019 14:56
MW07 - 111319	Y911222-07	Water	November 13, 2019 12:46	11/13/2019 14:56
MW08 - 111319	Y911222-08	Water	November 13, 2019 13:01	11/13/2019 14:56
MW09 - 111319	Y911222-09	Water	November 13, 2019 11:44	11/13/2019 14:56
MW10 - 111319	Y911222-10	Water	November 13, 2019 11:53	11/13/2019 14:56

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

1911222

ORIGINS
LABORATORY, INC

Client: DCP, / Tasman
Address: 6855 W 119th Ave
Broomfield, CO 80020
Telephone Number: 303-487-1228

Project Manager/Send Report To: Brian Humphrey
Email Address: bhumphrey@tasman-geo.com
Project Name/Number: Greeley Gas Plant
Samples Collected By: Brian Gabe

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
M1001-111319	11/13/19	1314	3	X				X			BTEX	1
M1002-111319	11/13/19	1213	3	X				X				2
M1003-111319	11/13/19	1234	3	X				X				3
M1004-111319	11/13/19	1324	3	X				X				4
M1005-111319	11/13/19	1203	3	X				X				5
M1006-111319	11/13/19	1131	3	X				X				6
M1007-111319	11/13/19	1246	3	X				X				7
M1008-111319	11/13/19	1301	3	X				X				8
M1009-111319	11/13/19	1144	3	X				X				9
M1010-111319	11/13/19	1153	3	X				X				10
Relinquished By: 	Date: 11/13/19	Time: 1456	Time: 1456	Received By: 				Date: 11-13-19	Time: 1456	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard		
Relinquished By:	Date:	Time:	Time:	Received By:				Date:	Time:			

2.4 Data Decile Naardot

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
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: 111222

Client: Tasman

Client Project ID: Greeley GP

Checklist Completed by: JG

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

Date/time completed: 11/14/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.4 °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"/>	<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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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) GP

Date/Time Reviewed 11/15/19

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
6855 West 119th Avenue
Broomfield CO 80020

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

MW01 - 111319

11/13/2019 1:14:00PM

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

Origins Laboratory, Inc.
Y911222-01 (Water)

BTEX by EPA 8260D

Benzene	368	10.0	ug/L	10	B9K1405	KDK	11/14/2019	11/18/2019
Toluene	20.3	1.00	"	1	"	KDK	"	11/18/2019
Ethylbenzene	228	1.00	"	"	"	KDK	"	"
Xylenes, total	684	10.0	"	10	"	KDK	"	11/18/2019

Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130			"	"	"
Surrogate: Toluene-d8	85.5 %	70-130			"	"	11/18/2019
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130			"	"	11/18/2019

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

MW02 - 111319

11/13/2019 12:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911222-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K1405	KDK	11/14/2019	11/18/2019	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	90.7 %	70-130			"	"	11/18/2019
Surrogate: Toluene-d8	96.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	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

MW03 - 111319

11/13/2019 12:34:00PM

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

Origins Laboratory, Inc.
Y911222-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K1405	KDK	11/14/2019	11/18/2019	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	88.5 %	70-130			"	"	11/18/2019
Surrogate: Toluene-d8	95.4 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	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

MW04 - 111319

11/13/2019 1:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911222-04 (Water)

BTEX by EPA 8260D

Benzene	261	10.0	ug/L	10	B9K1405	KDK	11/14/2019	11/18/2019
Toluene	95.7	10.0	"	"	"	KDK	"	"
Ethylbenzene	51.5	10.0	"	"	"	KDK	"	"
Xylenes, total	142	10.0	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	90.7 %	70-130	"	"	"
Surrogate: Toluene-d8	93.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	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

MW05 - 111319

11/13/2019 12:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911222-05 (Water)

BTEX by EPA 8260D

Benzene	16.7	1.00	ug/L	1	B9K1405	KDK	11/14/2019	11/18/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.1 %	70-130			"	"	"
Surrogate: Toluene-d8	94.4 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	110 %	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 - 111319

11/13/2019 11:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911222-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K1405	KDK	11/14/2019	11/16/2019	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	99.7 %	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

MW07 - 111319

11/13/2019 12:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911222-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K1405	KDK	11/14/2019	11/18/2019	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	88.2 %	70-130	"	"	"
Surrogate: Toluene-d8	97.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	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 - 111319

11/13/2019 1:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911222-08 (Water)

BTEX by EPA 8260D

Benzene	12.9	1.00	ug/L	1	B9K1405	KDK	11/14/2019	11/18/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	87.4 %	70-130			"	"	"
Surrogate: Toluene-d8	97.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	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

MW09 - 111319

11/13/2019 11:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911222-09 (Water)

BTEX by EPA 8260D

Benzene	1.20	1.00	ug/L	1	B9K1405	KDK	11/14/2019	11/15/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"
Surrogate: Toluene-d8	97.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	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

MW10 - 111319

11/13/2019 11:53:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911222-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K1405	KDK	11/14/2019	11/15/2019	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	109 %	70-130	"	"	"
Surrogate: Toluene-d8	95.5 %	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

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 B9K1405 - EPA 5030B (Water)

Blank (B9K1405-BLK1)

Prepared: 11/14/2019 Analyzed: 11/16/2019

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	67		"	62.5	107		70-130			
Surrogate: Toluene-d8	60		"	62.5	96.8		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
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Batch B9K1405 - EPA 5030B (Water)

LCS (B9K1405-BS1)

Prepared: 11/14/2019 Analyzed: 11/16/2019

Benzene	54.8	1.00	ug/L	50.0	110	70-130
Toluene	56.0	1.00	"	50.0	112	70-130
Ethylbenzene	55.8	1.00	"	50.0	112	70-130
m,p-Xylene	110	2.00	"	100	110	70-130
o-Xylene	56.4	1.00	"	50.0	113	70-130
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5	103	70-130
Surrogate: Toluene-d8	62		"	62.5	99.6	70-130
Surrogate: 4-Bromofluorobenzene	62		"	62.5	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

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 B9K1405 - EPA 5030B (Water)

Matrix Spike (B9K1405-MS1)		Source: Y911222-06			Prepared: 11/14/2019 Analyzed: 11/16/2019					
Benzene	46.4	1.00	ug/L	50.0	ND	92.9	70-130			
Toluene	50.6	1.00	"	50.0	ND	101	70-130			
Ethylbenzene	48.0	1.00	"	50.0	ND	96.1	70-130			
m,p-Xylene	94.2	2.00	"	100	ND	94.2	70-130			
o-Xylene	47.3	1.00	"	50.0	0.080	94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	70-130			

Origins Laboratory, Inc.



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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
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Batch B9K1405 - EPA 5030B (Water)

Matrix Spike Dup (B9K1405-MSD1)		Source: Y911222-06			Prepared: 11/14/2019 Analyzed: 11/16/2019					
Benzene	45.0	1.00	ug/L	50.0	ND	90.0	70-130	3.17	20	
Toluene	48.6	1.00	"	50.0	ND	97.1	70-130	4.23	20	
Ethylbenzene	47.6	1.00	"	50.0	ND	95.2	70-130	0.899	20	
m,p-Xylene	92.3	2.00	"	100	ND	92.3	70-130	2.03	20	
o-Xylene	47.1	1.00	"	50.0	0.080	94.0	70-130	0.551	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	70-130			

Origins Laboratory, Inc.



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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.



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