

**DCP CR20 and HIGHWAY 85 PIPELINE RELEASE SITE
SECOND QUARTER 2019
FORM 27 GROUNDWATER MONITORING SUMMARY REPORT**

ATTACHMENTS

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TABLE 1
SECOND QUARTER 2019
SUMMARY OF GROUNDWATER ELEVATION DATA
DCP CR 20 AND HWY 85 RELEASE
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)
BH01	8/8/2018	13.98			NM	4,875.68	4,861.70	2.26
BH01	11/19/2018	15.31			18.25	4,875.68	4,860.37	-1.33
BH01	2/7/2019	17.23			18.13	4,875.68	4,858.45	-1.92
BH01	5/23/2019	15.71			18.13	4,875.68	4,859.97	1.52
BH02	8/8/2018	13.29			NM	4,874.94	4,861.65	2.29
BH02	11/19/2018	14.73			18.79	4,874.94	4,860.21	-1.44
BH02	2/7/2019	16.64			18.75	4,874.94	4,858.30	-1.91
BH02	5/23/2019	15.03			18.75	4,874.94	4,859.91	1.61
BH03	8/8/2018	12.79			NM	4,874.51	4,861.72	2.30
BH03	11/19/2018	14.19			18.84	4,874.51	4,860.32	-1.40
BH03	2/7/2019	16.10			18.76	4,874.51	4,858.41	-1.91
BH03	5/23/2019	14.53			18.76	4,874.51	4,859.98	1.57
BH05	8/8/2018	12.97			NM	4,874.67	4,861.70	2.31
BH05	11/19/2018	14.35			18.94	4,874.67	4,860.32	-1.38
BH05	2/7/2019	16.28			18.87	4,874.67	4,858.39	-1.93
BH05	5/23/2019	14.77			18.87	4,874.67	4,859.90	1.51
BH06	8/8/2018	13.33			NM	4,874.95	4,861.62	2.30
BH06	11/19/2018	14.67			17.94	4,874.95	4,860.28	-1.34
BH06	2/7/2019	16.62			18.85	4,874.95	4,858.33	-1.95
BH06	5/23/2019	15.09			18.85	4,874.95	4,859.86	1.53
BH07	8/8/2018	12.37			NM	4,874.04	4,861.67	2.30
BH07	11/19/2018	13.81			18.70	4,874.04	4,860.23	-1.44
BH07	2/7/2019	15.71			18.67	4,874.04	4,858.33	-1.90
BH07	5/23/2019	14.13			18.67	4,874.04	4,859.91	1.58
Average change in groundwater elevation (02/07/19 to 5/23/19)								1.55

Notes:

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

amsl = feet above mean sea level

TOC = top of casing

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

NM = Not Measured

TABLE 2
SECOND QUARTER 2019
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
DCP CR 20 AND HWY 85 RELEASE
WELD COUNTY, COLORADO

Location Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	
BH01	5/23/2019	<1.0	<1.0	<1.0	<1.0	
BH02	5/23/2019	<4.0	<4.0	76	809	
BH03	5/23/2019	<4.0	<4.0	33	554	
BH05	5/23/2019	<1.0	<1.0	<1.0	<1.0	
BH06	5/23/2019	<1.0	<1.0	<1.0	<1.0	
BH07	5/23/2019	<1.0	<1.0	79	1,220	

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.

LNAPL - Light non-aqueous phase liquid

APPENDIX A
HISTORICAL ANALYTICAL GROUNDWATER DATA
DCP CR 20 AND HWY 85 RELEASE
WELD COUNTY, COLORADO

Location Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	
BH01	5/14/2015	<1.0	<1.0	<1.0	<1.0	
BH01	9/24/2015	<1.0	<1.0	<1.0	<1.0	
BH01	11/17/2015	<1.0	<1.0	<1.0	<1.0	
BH01	2/15/2016	<1.0	<1.0	<1.0	<1.0	
BH01	5/13/2016	<1.0	<1.0	<1.0	<1.0	
BH01	8/10/2016	<1.0	<1.0	<1.0	<1.0	
BH01	11/11/2016	<1.0	<1.0	<1.0	<1.0	
BH01	2/28/2017	<1.0	<1.0	<1.0	<1.0	
BH01	5/8/2017	<1.0	<1.0	<1.0	<2.0	
BH01	8/1/2017	<1.0	<1.0	<1.0	<2.0	
BH01	11/1/2017	<1.0	<1.0	<1.0	<2.0	
BH01	2/13/2018	<1.0	<1.0	<1.0	<2.0	
BH01	5/4/2018	<1.0	<1.0	<1.0	<2.0	
BH01	8/8/2018	<1.0	<1.0	<1.0	<2.0	
BH01	11/19/2018	<1.0	<1.0	<1.0	<2.0	
BH01	2/7/2019	<1.0	<1.0	<1.0	<2.0	
BH01	5/23/2019	<1.0	<1.0	<1.0	<1.0	
BH02	5/14/2015	120	5	210	2,000	
BH02	9/24/2015	20	<1.0	48	370	
BH02	11/17/2015	14	<1.0	72	490	
BH02	2/15/2016	2.4	1.4	260	730	
BH02	5/13/2016	2.2	<1.0	160	1,100	
BH02	8/10/2016	<1.0	<1.0	13	340	
BH02	11/11/2016	1.5	<1.0	17	910	
BH02	2/28/2017	<1.0	<1.0	<1.0	560	
BH02	5/8/2017	<1.0	<1.0	<1.0	240	
BH02	8/1/2017	<1.0	<1.0	150	700	
BH02	11/1/2017	<1.0	<1.0	<1.0	770	
BH02	2/13/2018	<1.0	<1.0	230	2,100	
BH02	5/4/2018	<1.0	<1.0	110	620	
BH02	8/8/2018	<1.0	<1.0	130	720	
BH02	11/19/2018	<1.0	<1.0	440	2,500	
BH02	2/7/2019	<1.0	<1.0	26	110	
BH02	5/23/2019	<4.0	<4.0	76	809	

APPENDIX A
HISTORICAL ANALYTICAL GROUNDWATER DATA
DCP CR 20 AND HWY 85 RELEASE
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	
BH03	5/14/2015	220	130	400	3,500	
BH03	9/24/2015	1.8	<1.0	7.0	150	
BH03	11/17/2015	<1.0	<1.0	43	400	
BH03	2/15/2016	<1.0	<1.0	42	280	
BH03*	5/17/2016	5.3	<1.0	79	590	
BH03	8/10/2016	3.1	<1.0	230	1,400	
BH03	11/11/2016	<1.0	<1.0	<1.0	1,200	
BH03	2/28/2017	<1.0	<1.0	<1.0	410	
BH03	5/8/2017	<1.0	<1.0	<1.0	130	
BH03	8/1/2017	4.6	<1.0	97	1,300	
BH03	11/1/2017	<1.0	<1.0	<1.0	110	
BH03	2/13/2018	<1.0	<1.0	<1.0	72	
BH03	5/4/2018	<1.0	<1.0	13	100	
BH03	8/8/2018	1.4	<1.0	120	1,000	
BH03	11/19/2018	<1.0	<1.0	170	780	
BH03	2/7/2019	<1.0	<1.0	21	83	
BH03	5/23/2019	<4.0	<4.0	33	554	
BH05	5/14/2015	<1.0	<1.0	3	22	
BH05	9/24/2015	<1.0	<1.0	<1.0	<1.0	
BH05	11/17/2015	<1.0	<1.0	<1.0	<1.0	
BH05	2/15/2016	<1.0	<1.0	<1.0	<1.0	
BH05	5/13/2016	NS	NS	NS	NS	Well was dry
BH05	8/10/2016	<1.0	<1.0	<1.0	<1.0	
BH05	11/11/2016	<1.0	<1.0	<1.0	<1.0	
BH05	2/28/2017	<1.0	<1.0	<1.0	<1.0	
BH05	5/8/2017	<1.0	<1.0	<1.0	<2.0	
BH05	8/1/2017	<1.0	<1.0	<1.0	<2.0	
BH05	11/1/2017	<1.0	<1.0	<1.0	<2.0	
BH05	2/13/2018	<1.0	<1.0	<1.0	<2.0	
BH05	5/4/2018	<1.0	<1.0	<1.0	<2.0	
BH05	8/8/2018	<1.0	<1.0	<1.0	<2.0	
BH05	11/19/2018	<1.0	<1.0	<1.0	<2.0	
BH05	2/7/2019	<1.0	<1.0	<1.0	<2.0	
BH05	5/23/2019	<1.0	<1.0	<1.0	<1.0	

APPENDIX A
HISTORICAL ANALYTICAL GROUNDWATER DATA
DCP CR 20 AND HWY 85 RELEASE
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	
BH06	5/14/2015	<1.0	<1.0	<1.0	5	
BH06	9/24/2015	<1.0	<1.0	<1.0	<1.0	
BH06	11/17/2015	<1.0	<1.0	<1.0	<1.0	
BH06	2/15/2016	<1.0	<1.0	<1.0	<1.0	
BH06	5/13/2016	<1.0	<1.0	<1.0	<1.0	
BH06	8/10/2016	<1.0	<1.0	<1.0	<1.0	
BH06	11/11/2016	<1.0	<1.0	<1.0	<1.0	
BH06	2/28/2017	<1.0	<1.0	<1.0	<1.0	
BH06	5/8/2017	<1.0	<1.0	<1.0	<2.0	
BH06	8/1/2017	<1.0	<1.0	<1.0	<2.0	
BH06	11/1/2017	<1.0	<1.0	<1.0	<2.0	
BH06	2/13/2018	<1.0	<1.0	<1.0	<2.0	
BH06	5/4/2018	<1.0	<1.0	<1.0	<2.0	
BH06	8/8/2018	<1.0	<1.0	<1.0	<2.0	
BH06	11/19/2018	<1.0	<1.0	<1.0	<2.0	
BH06	2/7/2019	<1.0	<1.0	<1.0	<2.0	
BH06	5/23/2019	<1.0	<1.0	<1.0	<1.0	
BH07	5/14/2015	44	310	200	2,600	
BH07	9/24/2015	NS	NS	NS	NS	Trace amount of LNAPL
BH07	11/17/2015	85	1.1	210	3,100	
BH07	2/15/2016	NS	NS	NS	NS	LNAPL - 0.03 ft
BH07	5/13/2016	52	<1.0	500	3,300	
BH07	8/10/2016	1.8	<1.0	<1.0	560	Trace amount of LNAPL
BH07	11/11/2016	DRY				
BH07	2/28/2017	4.1	<1.0	90	1,400	
BH07	5/8/2017	<1.0	<1.0	<1.0	730	
BH07	8/1/2017	1.2	<1.0	17	210	
BH07	11/1/2017	31	<1.0	7.2	890	
BH07	2/13/2018	8.1	<1.0	230	560	
BH07	5/4/2018	<1.0	<1.0	210	1,600	
BH07	8/8/2018	3.3	<1.0	130	740	
BH07	11/19/2018	4.1	<1.0	140	1,200	
BH07	2/7/2019	<1.0	<1.0	100	32	
BH07	5/23/2019	<1.0	<1.0	79	1,220	

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.

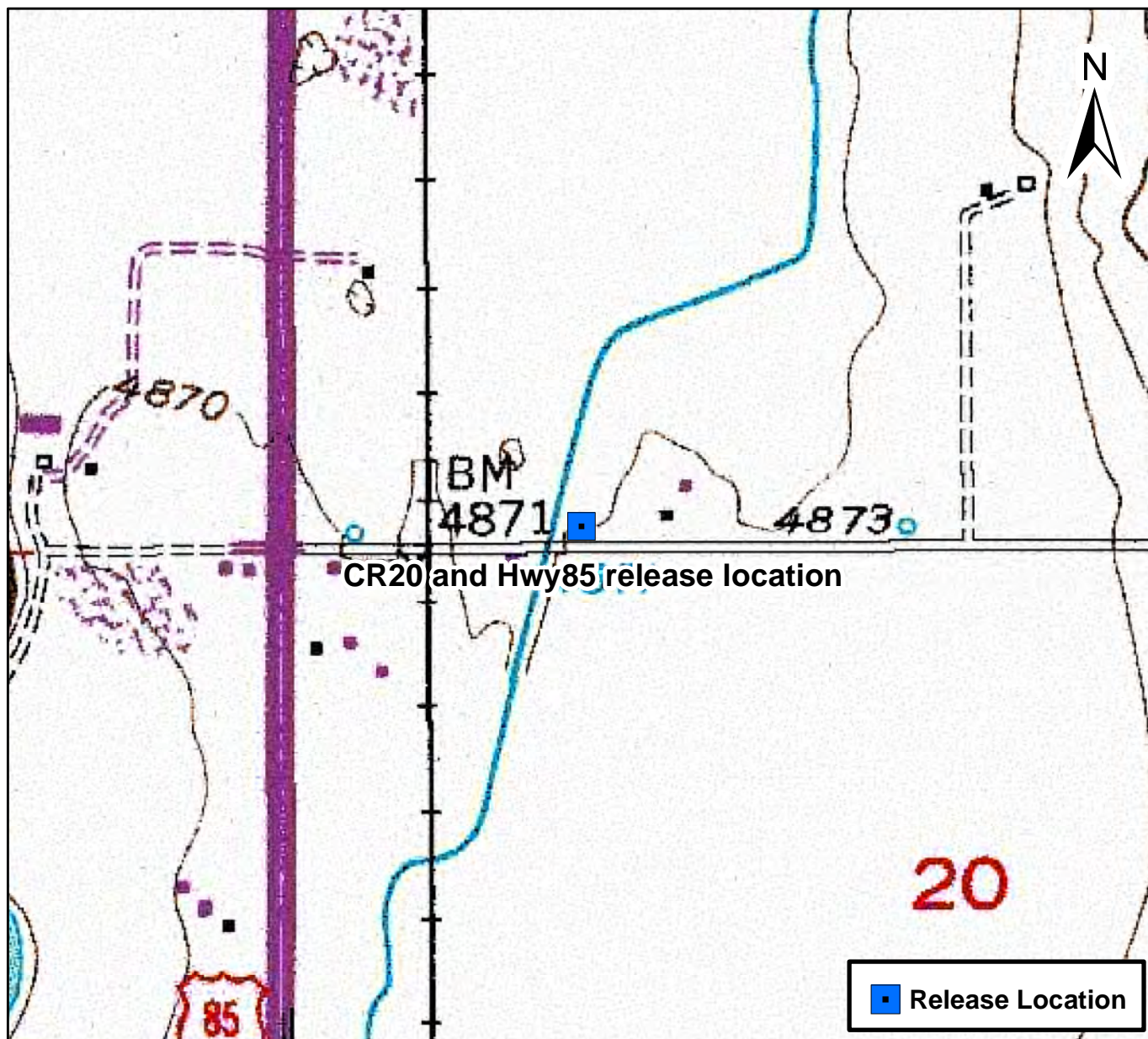
* Monitoring well BH03 was sampled on May 17, 2016 subsequent to purging apparent LNAPL from the well.

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

NS = Not sampled.

µg/L = micrograms per liter.

LNAPL - Light non-aqueous phase liquid



0 750 1,500 Feet



Figure 1

Site Location Map
CR20 and Hwy85 release location
SWSW S17 T2N R66W
Weld County, Colorado

Drawn By: DBA
Date: 06/04/2014





DATE:	August 2018
DESIGNED BY:	B. Humphrey
DRAWN BY:	D. Cavinder




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

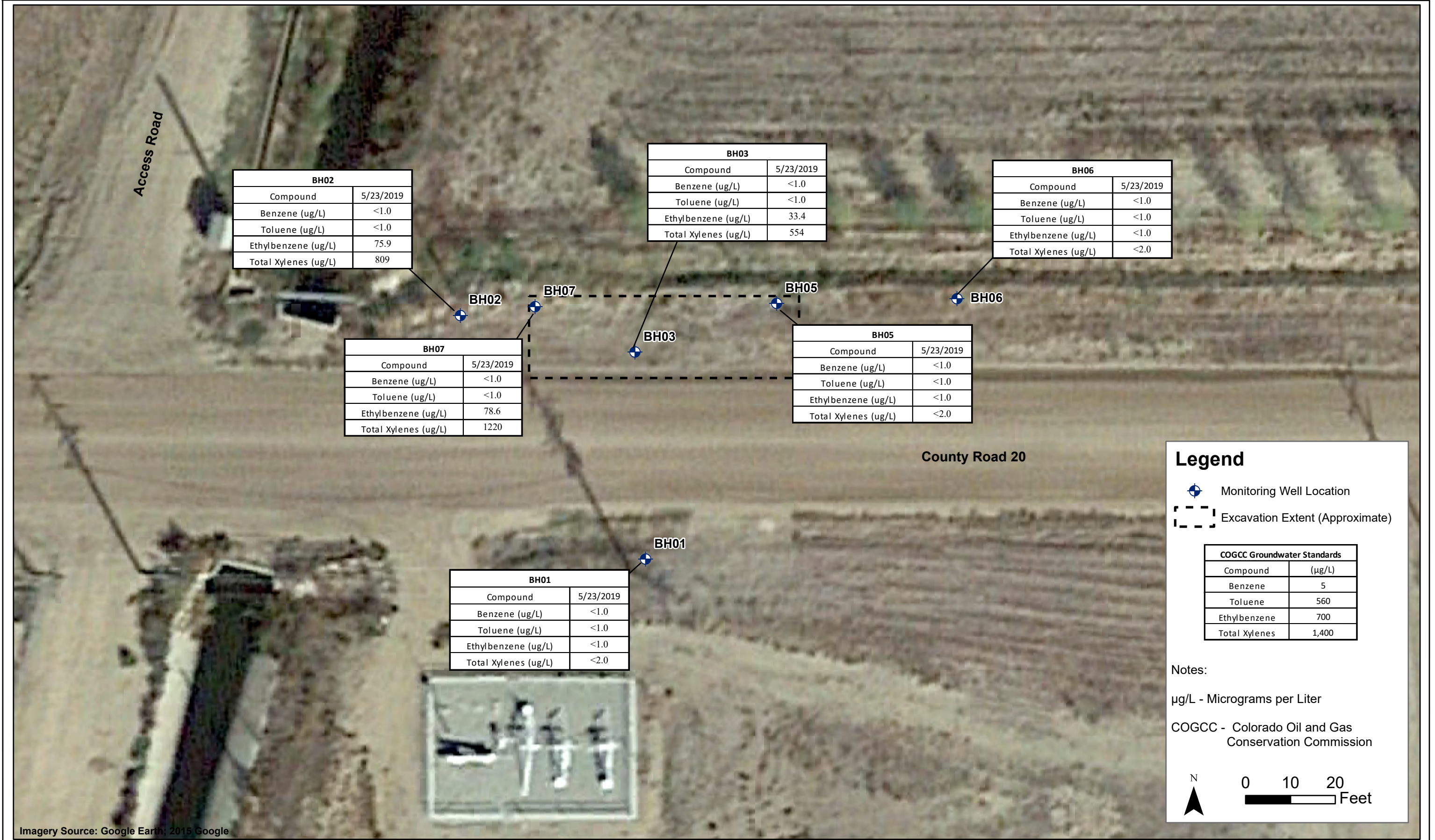
DCP Midstream
County Road 20 and Highway 85 Release
SWSW Section 17, Township 2 North, Range 66 West
Weld County, Colorado

Site Overview
Map

Figure
2



DATE: August 2019	 TASMAN GEOSCIENCES Tasman Geosciences, Inc 6899 Pecos Street - Unit C Denver, CO 80221	DCP Midstream County Road 20 and Highway 85 Release SWSW Section 17, Township 2 North, Range 66 West Weld County, Colorado	Groundwater Elevation Contour Map (May 23, 2019)	Figure 3
DESIGNED BY: B. Humphrey				
DRAWN BY: L. Martin				



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



TASMAN
GEOSCIENCES

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

DCP Midstream
County Road 20 and Highway 85 Release
SWSW Section 17, Township 2 North, Range 66 West
Weld County, Colorado

Groundwater Analytical
Results Map
(May 23, 2019)

Figure
4



May 28, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - DCP - CR20 and Hwy 85 Release Project Number - [none]

Attached are your analytical results for DCP - CR20 and Hwy 85 Release received by Origins Laboratory, Inc. May 23, 2019. This project is associated with Origins project number Y905357-01.

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

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

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

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

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

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



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR20 and Hwy 85 Release

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01 - 052319	Y905357-01	Water	May 23, 2019 10:25	05/23/2019 17:00
BH02 - 052319	Y905357-02	Water	May 23, 2019 10:55	05/23/2019 17:00
BH03 - 052319	Y905357-03	Water	May 23, 2019 10:35	05/23/2019 17:00
BH05 - 052319	Y905357-04	Water	May 23, 2019 10:41	05/23/2019 17:00
BH06 - 052319	Y905357-05	Water	May 23, 2019 10:14	05/23/2019 17:00
BH07 - 052319	Y905357-06	Water	May 23, 2019 10:45	05/23/2019 17:00

Origins Laboratory, Inc.



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

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR20 and Hwy 85 Release

ORIGINS LABORATORY, INC

www.originslaboratory.com

1905357

page 1 of 1

Client: DCP / TASMAN
Address: 6899 N Pecos St
Telephone Number: 970 4816909
Email Address: bhumphre@tasman-geo.com
SWWeather@Pmidstem.com

Project Manager: Steve Weathers, Brian Humphrey
Project Name: CR 20 and HW 85 Release
Project Number:
Samples Collected By: Max Doyle

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other		
BH01 - 052319	5/23/19	1025	3	X				X				BTEX	1
BH02 - 052319		1055											2
BH03 - 052319		1035											3
BH05 - 052319		1041											4
BH06 - 052319		1014											5
BH07 - 052319		1045											6
													7
													8
													9
													10

Relinquished By: [Signature]

Relinquished By: [Signature]

Date: 5/23/19

Date: 5/23/19

Time: 1445

Time: 1700

Received By: [Signature]

Received By: [Signature]

Date: 5/23/19

Date: 5/23/19

Time: 1445

Time: 1700

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

Date Results Needed: 4.9

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR20 and Hwy 85 Release

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y905357

Client: Tasman

Client Project ID: DCP CR 20 & Hwy 85

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 5/24/2019

Airbill #: N/A

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 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 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) JG

Date/Time Reviewed 5/28/19

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
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR20 and Hwy 85 Release

BH01 - 052319

5/23/2019 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905357-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E2401	JTD	05/24/2019	05/24/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130			"	"	"
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR20 and Hwy 85 Release

BH02 - 052319

5/23/2019 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905357-02 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9E2401	JTD	05/24/2019	05/24/2019	U
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	75.9	4.00	"	"	"	JTD	"	"	
Xylenes, total	809	4.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130	"	"	"
Surrogate: Toluene-d8	98.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR20 and Hwy 85 Release

BH03 - 052319

5/23/2019 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905357-03 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9E2401	JTD	05/24/2019	05/24/2019	U
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	33.4	4.00	"	"	"	JTD	"	"	
Xylenes, total	554	4.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR20 and Hwy 85 Release

BH05 - 052319

5/23/2019 10:41:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905357-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E2401	JTD	05/24/2019	05/24/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130	"	"	"
Surrogate: Toluene-d8	98.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR20 and Hwy 85 Release

BH06 - 052319

5/23/2019 10:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905357-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E2401	JTD	05/24/2019	05/24/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130	"	"	"
Surrogate: Toluene-d8	97.2 %	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
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR20 and Hwy 85 Release

BH07 - 052319

5/23/2019 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905357-06 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9E2401	JTD	05/24/2019	05/24/2019	U
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	78.6	4.00	"	"	"	JTD	"	"	
Xylenes, total	1220	4.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	93.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR20 and Hwy 85 Release

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 B9E2401 - EPA 5030B (Water)

Blank (B9E2401-BLK1)

Prepared: 05/24/2019 Analyzed: 05/24/2019

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	59		"	62.5	94.5	70-130				
Surrogate: Toluene-d8	62		"	62.5	99.7	70-130				
Surrogate: 4-Bromofluorobenzene	65		"	62.5	103	70-130				

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR20 and Hwy 85 Release

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 B9E2401 - EPA 5030B (Water)

LCS (B9E2401-BS1)

Prepared: 05/24/2019 Analyzed: 05/24/2019

Benzene	45.4	1.00	ug/L	50.0		90.7	70-130			
Toluene	45.2	1.00	"	50.0		90.5	70-130			
Ethylbenzene	46.6	1.00	"	50.0		93.3	70-130			
m,p-Xylene	104	2.00	"	100		104	70-130			
o-Xylene	46.8	1.00	"	50.0		93.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.5	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR20 and Hwy 85 Release

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 B9E2401 - EPA 5030B (Water)

Matrix Spike (B9E2401-MS1)		Source: Y905348-01			Prepared: 05/24/2019 Analyzed: 05/24/2019					
Benzene	42.7	1.00	ug/L	50.0	ND	85.5	70-130			
Toluene	42.1	1.00	"	50.0	ND	84.2	70-130			
Ethylbenzene	44.7	1.00	"	50.0	0.070	89.2	70-130			
m,p-Xylene	99.2	2.00	"	100	ND	99.2	70-130			
o-Xylene	45.0	1.00	"	50.0	ND	89.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR20 and Hwy 85 Release

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 B9E2401 - EPA 5030B (Water)

Matrix Spike Dup (B9E2401-MSD1)		Source: Y905348-01			Prepared: 05/24/2019 Analyzed: 05/24/2019					
Benzene	43.4	1.00	ug/L	50.0	ND	86.8	70-130	1.60	20	
Toluene	42.8	1.00	"	50.0	ND	85.6	70-130	1.58	20	
Ethylbenzene	44.1	1.00	"	50.0	0.070	88.0	70-130	1.28	20	
m,p-Xylene	98.6	2.00	"	100	ND	98.6	70-130	0.637	20	
o-Xylene	45.0	1.00	"	50.0	ND	90.0	70-130	0.0890	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR20 and Hwy 85 Release

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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Jen Pellegrini For Noelle Doyle Mathis, President