

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

**ATTACHMENTS**

**Tables**

- 1 Third Quarter 2019 Summary of Groundwater Elevation Data
- 2 Third Quarter 2019 Summary of BTEX Concentrations in Groundwater
- 3 Historical BTEX Concentrations in Groundwater

**Figures**

- 1 Site Location Map
- 2 Site Overview Map with Monitoring Well Locations
- 3 Groundwater Elevation Contour Map – August 29, 2019
- 4 Groundwater Analytical Results Map – August 29, 2019

**Appendices**

- A Laboratory Analytical Report
  - Origins Laboratory Job #: Y908476

**TABLE 1**  
**THIRD 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	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
BH01	8/29/2019	11.92			18.32	4,875.68	4,863.76	3.79
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
BH02	8/29/2019	11.25			18.87	4,874.94	4,863.69	3.78
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
BH03	8/29/2019	10.75			18.85	4,874.51	4,863.76	3.78
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
BH05	8/29/2019	10.90			18.92	4,874.67	4,863.77	3.87
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
BH06	8/29/2019	11.25			18.96	4,874.95	4,863.70	3.84
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
BH07	8/29/2019	10.34			18.83	4,874.04	4,863.70	3.79
Average change in groundwater elevation (2/7/19 to 5/23/19)								1.55
Average change in groundwater elevation (5/23/19 to 8/29/19)								3.81

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**  
**THIRD 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
<b>COGCC Standards (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>	
BH01	8/29/2019	<1.0	<1.0	<1.0	<1.0	
BH02	8/29/2019	<4.0	<4.0	104	541	
BH03	8/29/2019	<4.0	<4.0	203	<b>1,640</b>	
BH05	8/29/2019	<1.0	<1.0	<1.0	<1.0	
BH06	8/29/2019	<1.0	<1.0	<1.0	<1.0	
BH07	8/29/2019	<4.0	<4.0	86.3	845	

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

µg/L = micrograms per liter.

LNAPL - Light non-aqueous phase liquid

**TABLE 3**  
**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
<b>COGCC Standards (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>	
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	
BH01	8/29/2019	<1.0	<1.0	<1.0	<1.0	
BH02	5/14/2015	<b>120</b>	5	210	<b>2,000</b>	
BH02	9/24/2015	<b>20</b>	<1.0	48	370	
BH02	11/17/2015	<b>14</b>	<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	<b>2,100</b>	
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	<b>2,500</b>	
BH02	2/7/2019	<1.0	<1.0	26	110	
BH02	5/23/2019	<4.0	<4.0	76	809	
BH02	8/29/2019	<4.0	<4.0	104	541	



**TABLE 3**  
**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
<b>COGCC Standards (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>	
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	
BH03	8/29/2019	<4.0	<4.0	203	1,640	
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	
BH05	8/29/2019	<1.0	<1.0	<1.0	<1.0	

**TABLE 3**  
**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
<b>COGCC Standards (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>	
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	
BH06	8/29/2019	<1.0	<1.0	<1.0	<1.0	
BH07	5/14/2015	<b>44</b>	310	200	<b>2,600</b>	
BH07	9/24/2015	NS	NS	NS	NS	Trace amount of LNAPL
BH07	11/17/2015	<b>85</b>	1.1	210	<b>3,100</b>	
BH07	2/15/2016	NS	NS	NS	NS	LNAPL - 0.03 ft
BH07	5/13/2016	<b>52</b>	<1.0	500	<b>3,300</b>	
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	<b>1,400</b>	
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	<b>31</b>	<1.0	7.2	890	
BH07	2/13/2018	<b>8.1</b>	<1.0	230	560	
BH07	5/4/2018	<1.0	<1.0	210	<b>1,600</b>	
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	
BH07	8/29/2019	<4.0	<4.0	86	845	

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.

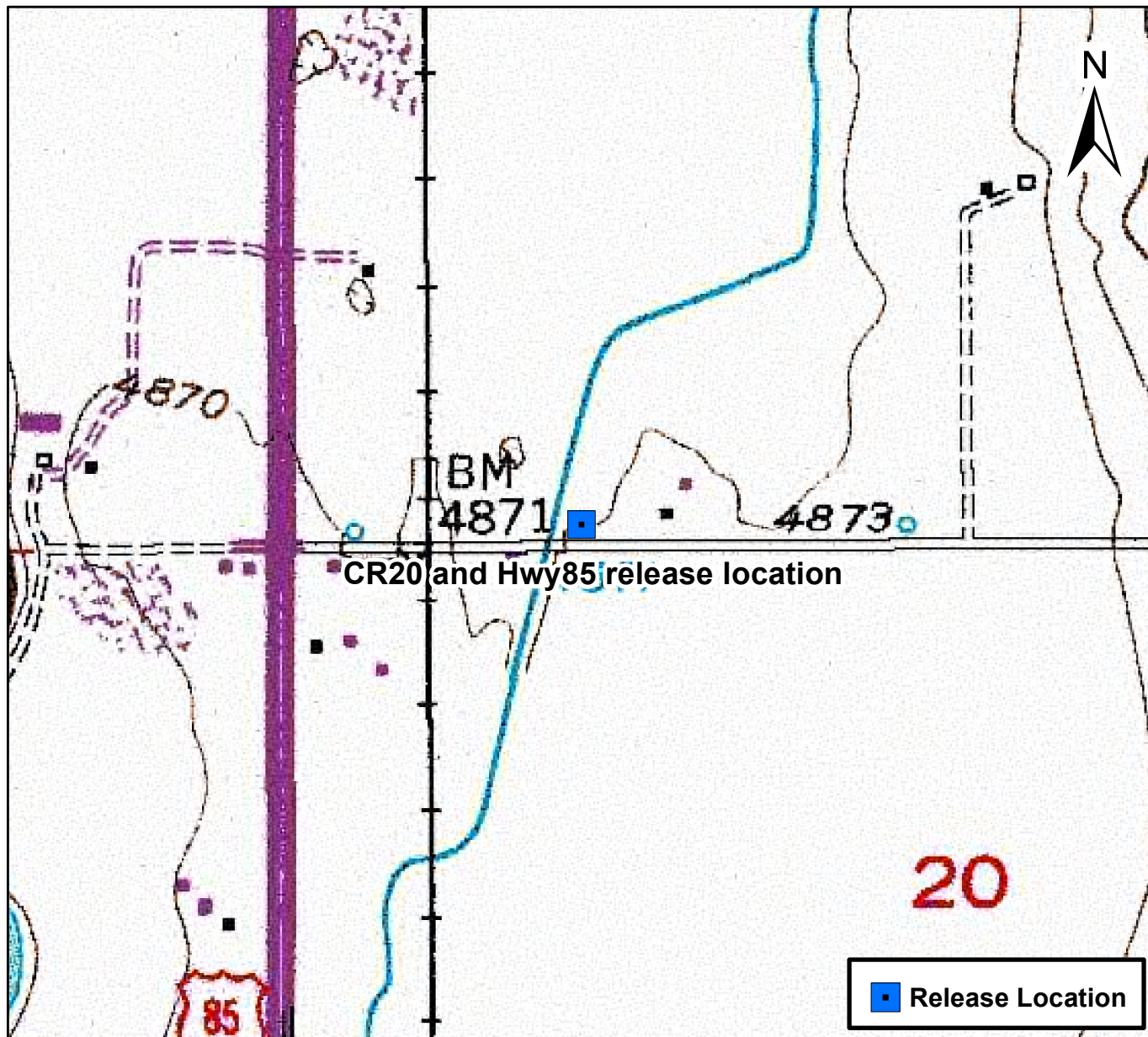
\* Monitoring well BH03 was sampled on May 17, 2016 subsequent to purging apparent LNAPL from the well.

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

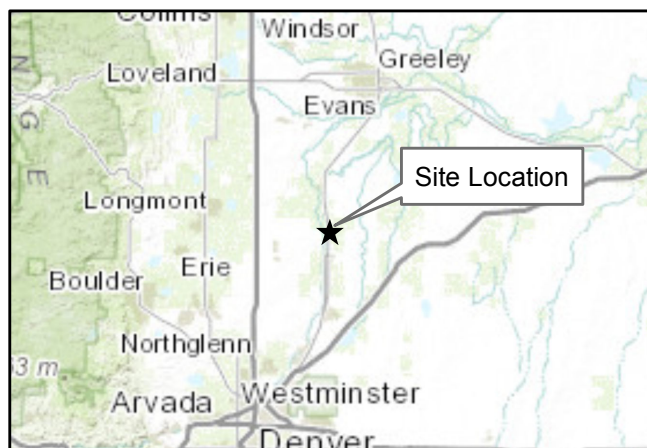
NS = Not sampled.

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

  
Tasman Geosciences





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



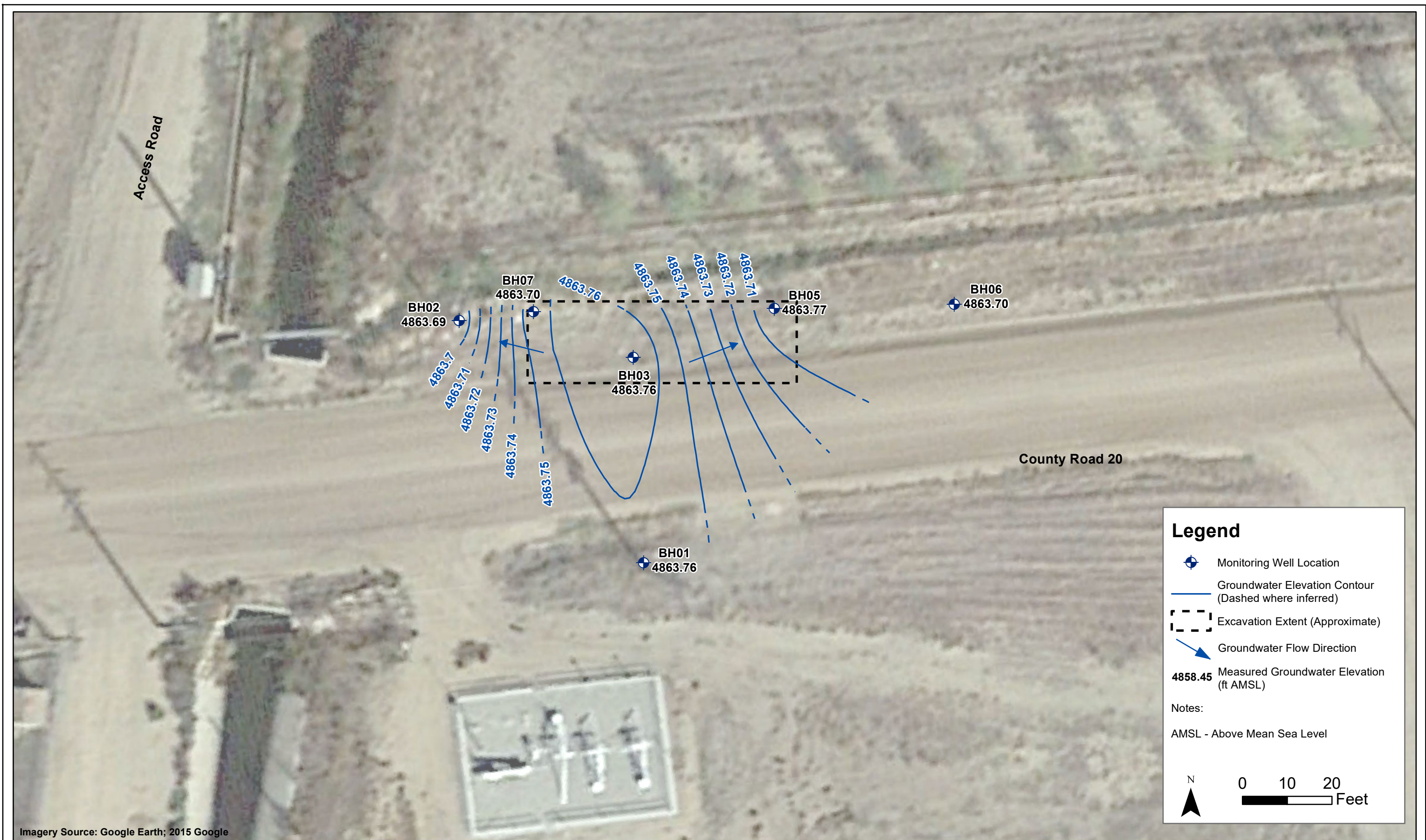
Tasman Geosciences, Inc  
6899 Pecos Street - Unit C  
Denver, CO 80221

**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:	October 2019
DESIGNED BY:	B. Humphrey
DRAWN BY:	L. Martin



**TASMAN**  
GEOSCIENCES

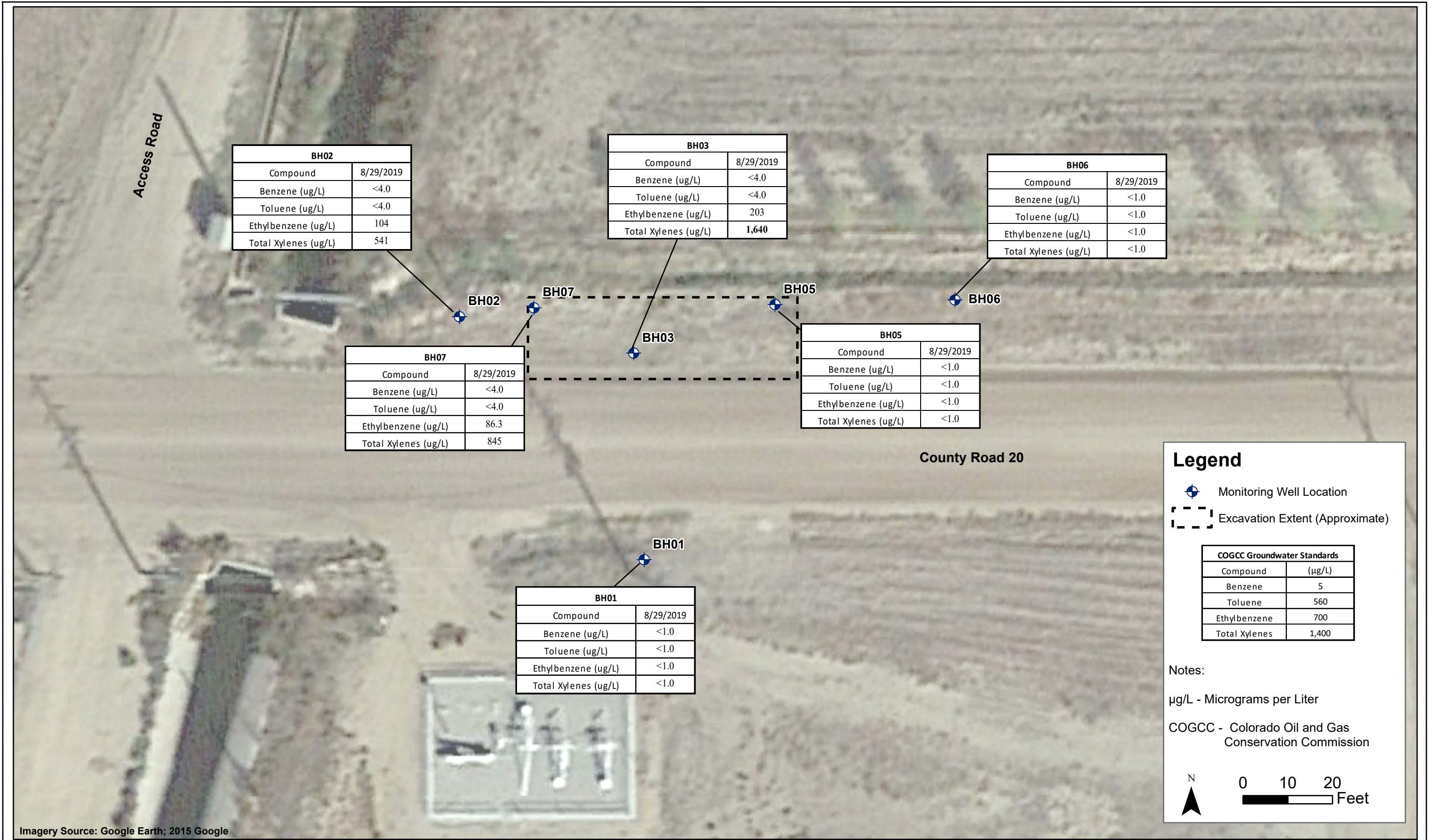
Tasman Geosciences, Inc.  
6855 W. 119th Avenue  
Broomfield, Colorado 80020

**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  
(August 29, 2019)

Figure  
3





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



Tasman Geosciences, Inc.  
6855 W. 119th Avenue  
Broomfield, Colorado 80020

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  
(August 29, 2019)

Figure  
4

September 04, 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. August 29, 2019. This project is associated with Origins project number Y908476-01.

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  
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 - 082919	Y908476-01	Water	August 29, 2019 11:35	08/29/2019 15:10
BH02 - 082919	Y908476-02	Water	August 29, 2019 11:55	08/29/2019 15:10
BH03 - 082919	Y908476-03	Water	August 29, 2019 12:06	08/29/2019 15:10
BH05 - 082919	Y908476-04	Water	August 29, 2019 11:57	08/29/2019 15:10
BH06 - 082919	Y908476-05	Water	August 29, 2019 11:52	08/29/2019 15:10
BH07 - 082919	Y908476-06	Water	August 29, 2019 12:11	08/29/2019 15:10

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

www.originslaboratory.com

page 1 of 1

Y908476

**ORIGINS**  
LABORATORY, INC

Client: DCP/Tasman  
Address: 6855 W 114th Ave, Greenwood, CO 80020  
Telephone Number: 484-794-3328  
Email Address: bhumphrey@tasman-geo.com

Project Manager: Brian Humphrey  
Project Name: County Road 20 and Highway 85 Release  
Project Number: n/a  
Samples Collected By: Morgan Sandifter

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 <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #		
B401-082919	08/29/19	1135	3					X			Other GTEx	1
B402-082919	08/29/19	1155	3					X				2
B403-082919	09/29/19	1206	3					X				3
B405-082919	08/29/19	1157	3					X				4
B406-082919	08/29/19	1152	3					X				5
B407-082919	08/29/19	1211	3					X				6
												7
												8
												9
												10

Relinquished By: [Signature] Date: 8/29/19 Time: 1510  
Received By: [Signature] Date: 8/29/19 Time: 1510

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

Date Results Needed

6.0

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

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 908476

Client: Tasman

Client Project ID: CR20 & Hwy 85

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 8/30/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 8.0 °C 1 / 1 °C 1 / 1 °C 1 / 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 <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

<sup>(1)</sup>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.

MP  
Reviewed by (Project Manager)

9/3/19  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

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

**BH01 - 082919**

**8/29/2019 11:35:00AM**

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

**Origins Laboratory, Inc.**  
**Y908476-01 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9H3001	KDK	08/30/2019	08/30/2019	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	84.1 %	70-130			"	"	"
Surrogate: Toluene-d8	104 %	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  
6899 Pecos Street, Unit C  
Denver CO 80211

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

**BH02 - 082919**

**8/29/2019 11:55:00AM**

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

**Origins Laboratory, Inc.**  
**Y908476-02 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	4.00	ug/L	4	B9H3001	KDK	08/30/2019	08/30/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	<b>104</b>	4.00	"	"	"	KDK	"	"	
Xylenes, total	<b>541</b>	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	85.5 %	70-130			"	"	"
Surrogate: Toluene-d8	106 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.9 %	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  
6899 Pecos Street, Unit C  
Denver CO 80211

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

**BH03 - 082919**

**8/29/2019 12:06:00PM**

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

**Origins Laboratory, Inc.**  
**Y908476-03 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	4.00	ug/L	4	B9H3001	KDK	08/30/2019	08/30/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	<b>203</b>	4.00	"	"	"	KDK	"	"	
Xylenes, total	<b>1640</b>	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	84.3 %	70-130	"	"	"
Surrogate: Toluene-d8	106 %	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  
6899 Pecos Street, Unit C  
Denver CO 80211

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

**BH05 - 082919**

**8/29/2019 11:57:00AM**

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

**Origins Laboratory, Inc.**  
**Y908476-04 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9H3001	KDK	08/30/2019	08/30/2019	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	85.1 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	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

BH06 - 082919

8/29/2019 11:52:00AM

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

**Origins Laboratory, Inc.**  
**Y908476-05 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9H3001	KDK	08/30/2019	08/30/2019	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	85.0 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	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 - 082919**

**8/29/2019 12:11:00PM**

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

**Origins Laboratory, Inc.**  
**Y908476-06 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	4.00	ug/L	4	B9H3001	KDK	08/30/2019	08/30/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	<b>86.3</b>	4.00	"	"	"	KDK	"	"	
Xylenes, total	<b>845</b>	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	85.2 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	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  
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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B9H3001 - EPA 5030B (Water)**

**Blank (B9H3001-BLK1)**

Prepared: 08/30/2019 Analyzed: 08/30/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5	85.7	70-130				
Surrogate: Toluene-d8	66		"	62.5	105	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  
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
<b>Batch B9H3001 - EPA 5030B (Water)</b>										
<b>LCS (B9H3001-BS1)</b>					Prepared: 08/30/2019 Analyzed: 08/30/2019					
Benzene	55.2	1.00	ug/L	50.0		110	70-130			
Toluene	58.0	1.00	"	50.0		116	70-130			
Ethylbenzene	55.9	1.00	"	50.0		112	70-130			
m,p-Xylene	112	2.00	"	100		112	70-130			
o-Xylene	57.2	1.00	"	50.0		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	51		"	62.5		81.6	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B9H3001 - EPA 5030B (Water)**

Matrix Spike (B9H3001-MS1)		Source: Y908460-10			Prepared: 08/30/2019 Analyzed: 08/30/2019					
Benzene	60.4	1.00	ug/L	50.0	0.240	120	70-130			
Toluene	65.6	1.00	"	50.0	1.05	129	70-130			
Ethylbenzene	62.8	1.00	"	50.0	0.500	124	70-130			
m,p-Xylene	126	2.00	"	100	1.79	124	70-130			
o-Xylene	64.2	1.00	"	50.0	0.720	127	70-130			
Surrogate: 1,2-Dichloroethane-d4	52		"	62.5		82.8	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		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  
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
<b>Batch B9H3001 - EPA 5030B (Water)</b>										
<b>Matrix Spike Dup (B9H3001-MSD1)</b>			<b>Source: Y908460-10</b>		Prepared: 08/30/2019 Analyzed: 08/30/2019					
Benzene	58.4	1.00	ug/L	50.0	0.240	116	70-130	3.39	20	
Toluene	63.6	1.00	"	50.0	1.05	125	70-130	3.22	20	
Ethylbenzene	61.2	1.00	"	50.0	0.500	121	70-130	2.50	20	
m,p-Xylene	123	2.00	"	100	1.79	121	70-130	2.47	20	
o-Xylene	62.0	1.00	"	50.0	0.720	123	70-130	3.47	20	
Surrogate: 1,2-Dichloroethane-d4	51		"	62.5		81.0	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		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

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.



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

Jen Pellegrini For Noelle Doyle Mathis, President