

**DCP SOUTH BOOSTER 6-INCH RELEASE SITE  
FOURTH QUARTER 2019  
FORM 27 SUPPLEMENTAL GROUNDWATER MONITORING SUMMARY REPORT**

**ATTACHMENTS**

**Tables**

- 1 Fourth Quarter 2019 Summary of Groundwater Elevation Data
- 2 Fourth 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 – November 18, 2019
- 4 Groundwater Analytical Results Map – November 18, 2019

**Appendices**

- A Laboratory Analytical Report
  - Origins Laboratory Job #: Y911308

**TABLE 1**  
**FOURTH QUARTER 2019**  
**SUMMARY OF GROUNDWATER ELEVATION DATA**  
**DCP MIDSTREAM - S. BOOSTER 6-inch GATHERING RELEASE**  
**WELD COUNTY, COLORADO**

Location	Date	Depth to Groundwater (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event <sup>(1)</sup> (feet)
MW01	8/14/2019	16.11	23.20	4894.33	4878.22	NA
MW01	11/18/2019	16.34	23.20	4894.33	4877.99	-0.23
MW02	8/14/2019	17.82	22.61	4895.22	4877.40	NA
MW02	11/18/2019	18.02	22.61	4895.22	4877.20	-0.20
MW03	8/14/2019	18.16	22.71	4895.50	4877.34	NA
MW03	11/18/2019	18.30	22.71	4895.50	4877.20	-0.14
MW04	8/14/2019	17.07	22.61	4895.08	4878.01	NA
MW04	11/18/2019	17.27	22.61	4895.08	4877.81	-0.20
MW05	8/14/2019	15.35	22.23	4892.98	4877.63	NA
MW05	11/18/2019	15.54	22.23	4892.98	4877.44	-0.19
Average groundwater elevation change between 8/14/2019 and 11/18/2019						-0.19

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

NM = Not Measured

**TABLE 2**  
**FOURTH QUARTER 2019**  
**SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER**  
**DCP MIDSTREAM - S. BOOSTER 6-inch GATHERING 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)<sup>(1)</sup></b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>	
MW01	11/18/2019	<1.00	<1.00	<1.00	<1.00	
MW02	11/18/2019	<1.00	<1.00	<1.00	<1.00	
MW03	11/18/2019	<1.00	<1.00	<1.00	<1.00	
MW04	11/18/2019	<1.00	<1.00	<1.00	<1.00	
MW05	11/18/2019	<b>50.3</b>	89.5	<1.00	172	

Notes:

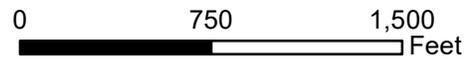
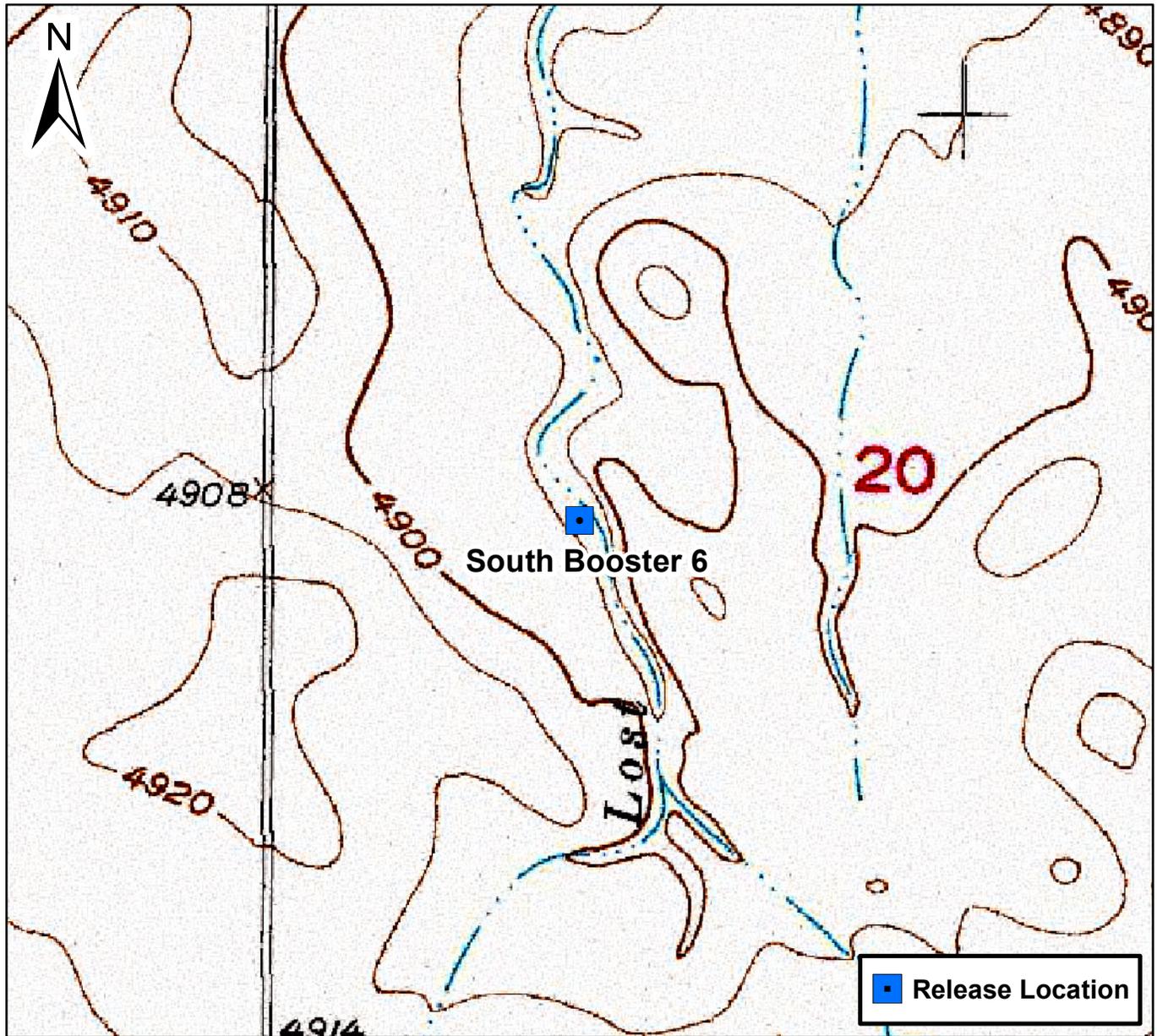
1) The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 910-1 of the COGCC 900 Series Rule for E&P Waste Management. Bold red values indicate an exceedance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

**TABLE 3  
HISTORICAL GROUNDWATER ANALYTICAL DATA  
DCP MIDSTREAM - S. BOOSTER 6-inch GATHERING 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)<sup>(1)</sup></b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>	
GW01	6/19/2019	<b>129</b>	357	45.5	497	
MW01	8/14/2019	<1.00	<1.00	<1.00	<1.00	
MW01	11/18/2019	<1.00	<1.00	<1.00	<1.00	
MW02	8/14/2019	<1.00	<1.00	<1.00	<1.00	
MW02	11/18/2019	<1.00	<1.00	<1.00	<1.00	
MW03	8/14/2019	<1.00	<1.00	<1.00	<1.00	
MW03	11/18/2019	<1.00	<1.00	<1.00	<1.00	
MW04	8/14/2019	<1.00	<1.00	<1.00	<1.00	
MW04	11/18/2019	<1.00	<1.00	<1.00	<1.00	
MW05	8/14/2019	3.62	2.65	3.09	57.6	
MW05	11/18/2019	<b>50.3</b>	89.5	<1.00	172	

Notes:

- 1) The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission  
Bold red values indicate an exceedance of the COGCC groundwater standards for the Site.  
µg/L = micrograms per liter.



## Figure 1

Site Location Map  
 South Booster 6  
 NESW S20 T1N R63W  
 Weld County, Colorado





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



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

**DCP Midstream – DJ Basin**  
**S. Booster 6 inch**  
NESW, Section 20, Township 1 North, Range 63 West  
Weld County, Colorado

Site Overview  
Map

Figure  
2



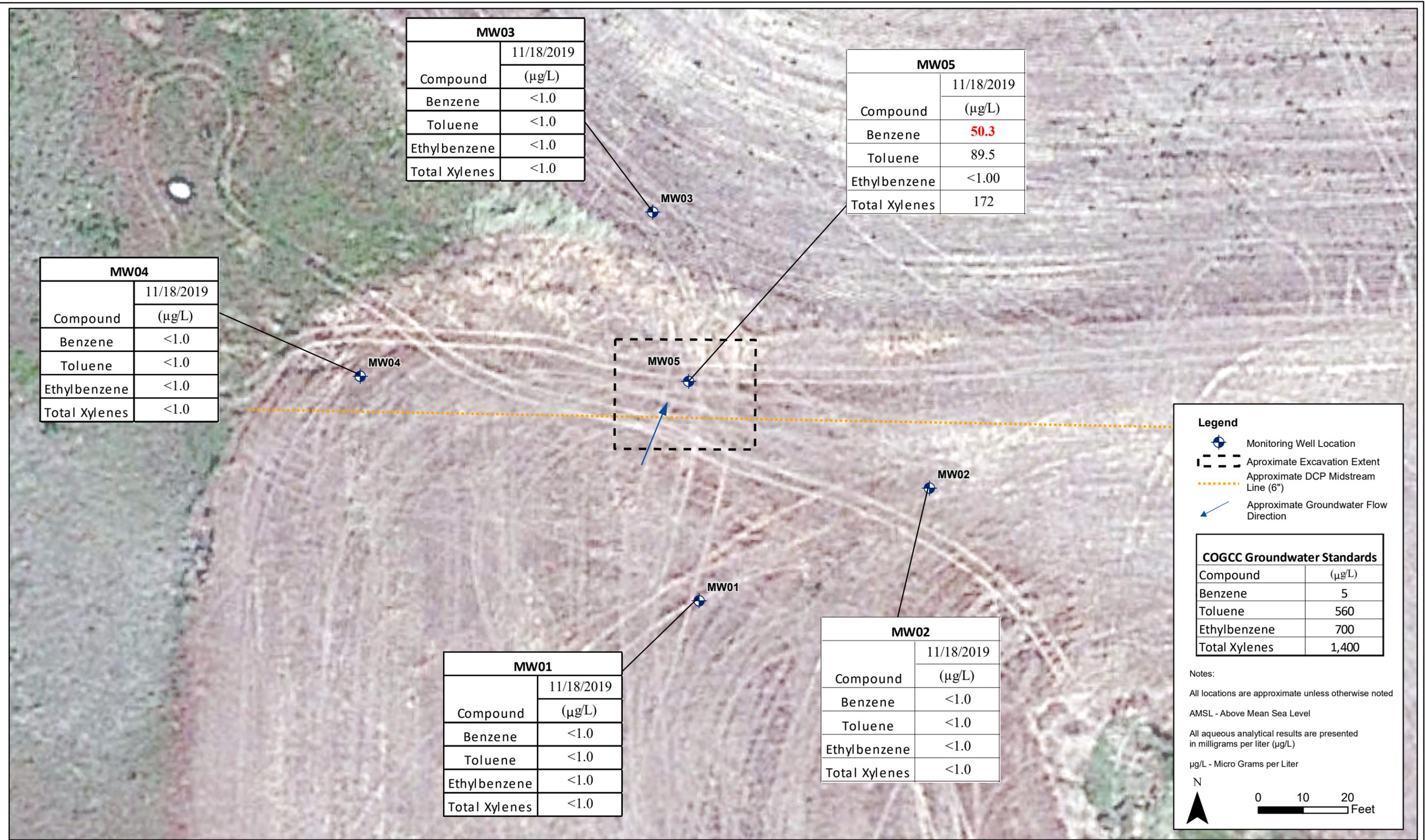
DATE:	December 2019
DESIGNED BY:	B. Humphrey
DRAWN BY:	L. Martin



**DCP Midstream – DJ Basin**  
**S. Booster 6 inch**  
 NESW, Section 20, Township 1 North, Range 63 West  
 Weld County, Colorado

Groundwater Elevation  
 Contour Map  
 (11/18/2019)

Figure  
 3



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



**DCP Midstream – DJ Basin  
 S. Booster 6 inch**  
 NESW, Section 20, Township 1 North, Range 63 West  
 Weld County, Colorado

Groundwater Analytical  
 Results Map  
 (11/18/2019)

Figure  
 4

November 21, 2019

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

**Project Name - DCP - South Booster 6" Gathering Project Number - [none]**

Attached are your analytical results for DCP - South Booster 6" Gathering received by Origins Laboratory, Inc. November 18, 2019. This project is associated with Origins project number Y911308-01.

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 - South Booster 6" Gathering

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y911308-01	Water	November 18, 2019 12:40	11/18/2019 16:45
MW02	Y911308-02	Water	November 18, 2019 12:50	11/18/2019 16:45
MW03	Y911308-03	Water	November 18, 2019 12:58	11/18/2019 16:45
MW04	Y911308-04	Water	November 18, 2019 13:15	11/18/2019 16:45
MW05	Y911308-05	Water	November 18, 2019 13:20	11/18/2019 16:45

Origins Laboratory, Inc.



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 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - South Booster 6" Gathering

www.originslaboratory.com

page 1 of 1

Y911308

**Client:** Tasman / DCP Midstream

**Address:** 6855 W. 119th Ave Broomfield, CO

**Telephone Number:** 303-321-7887

**Email Address:** bhumphrey@tasman-geo.com

**Project Manager:** B. Humphrey

**Project Name:** DCP - South Booster 6"

**Project Number:** —

**Samples Collected By:** J. Carrington

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 #		
MW01	11/18/19	1240	3	X				X			STEX	1
MW02		1250	1									2
MW03		1258	1									3
MW04		1315	1									4
MW05		1320	1									5
												6
												7
												8
												9
												10

Relinquished By: <i>[Signature]</i>	Date: 11/18/19	Time: 1645	Received By: <i>[Signature]</i>	Date: 11-18-19	Time: 1645
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

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

Origins Laboratory, Inc.

*Jefe Pellegrini*

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 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - South Booster 6" Gathering

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y911308

Client: Tasman  
 Client Project ID: South Booster 6"

Checklist Completed by: JG

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

Date/time completed: 4 / 19 / 2019

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

Cooler Number/Temperature: 1 / 6.0 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 11/20/19

Origins Laboratory, Inc.

*Jefe Pellegrini*

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 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - South Booster 6" Gathering

**MW01**

**11/18/2019 12:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y911308-01 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9K1908	KDK	11/19/2019	11/20/2019	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	99.3 %	70-130			"	"		"	
Surrogate: Toluene-d8	96.2 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"		"	

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 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - South Booster 6" Gathering

**MW02**

**11/18/2019 12:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y911308-02 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9K1908	KDK	11/19/2019	11/20/2019	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	95.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

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Brian Humphrey  
Project Number: [none]  
Project: DCP - South Booster 6" Gathering

**MW03**

**11/18/2019 12:58:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y911308-03 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9K1908	KDK	11/19/2019	11/20/2019	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	98.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	"	

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - South Booster 6" Gathering

**MW04**

**11/18/2019 1:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y911308-04 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9K1908	ZZZ	11/19/2019	11/21/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	70-130			"	"	"	"	

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 Project Number: [none]  
 Project: DCP - South Booster 6" Gathering

**MW05**

**11/18/2019 1:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y911308-05 (Water)**

**BTEX by EPA 8260D**

Benzene	50.3	1.00	ug/L	1	B9K1908	KDK	11/19/2019	11/20/2019	
Toluene	89.5	1.00	"	"	"	KDK	"	"	
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	172	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	92.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"	"	

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 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - South Booster 6" Gathering

**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 B9K1908 - EPA 5030B (Water)**

**Blank (B9K1908-BLK1)**

Prepared: 11/19/2019 Analyzed: 11/20/2019

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	71		"	62.5		114	70-130			
Surrogate: Toluene-d8	57		"	62.5		91.4	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
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 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - South Booster 6" Gathering

**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 B9K1908 - EPA 5030B (Water)

**LCS (B9K1908-BS1)**

Prepared: 11/19/2019 Analyzed: 11/20/2019

Benzene	54.2	1.00	ug/L	50.0		108	70-130			
Toluene	50.2	1.00	"	50.0		100	70-130			
Ethylbenzene	50.0	1.00	"	50.0		100	70-130			
m,p-Xylene	98.8	2.00	"	100		98.8	70-130			
o-Xylene	48.7	1.00	"	50.0		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	74		"	62.5		118	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.3	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 6855 West 119th Avenue  
 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - South Booster 6" Gathering

**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 B9K1908 - EPA 5030B (Water)

Matrix Spike (B9K1908-MS1)	Source: Y911305-11			Prepared: 11/19/2019 Analyzed: 11/20/2019						
Benzene	57.5	1.00	ug/L	50.0	11.3	92.5	70-130			
Toluene	50.7	1.00	"	50.0	ND	101	70-130			
Ethylbenzene	49.7	1.00	"	50.0	ND	99.3	70-130			
m,p-Xylene	99.5	2.00	"	100	ND	99.5	70-130			
o-Xylene	48.8	1.00	"	50.0	ND	97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5		111	70-130			
Surrogate: Toluene-d8	58		"	62.5		92.1	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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 Broomfield CO 80020

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - South Booster 6" Gathering

**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 B9K1908 - EPA 5030B (Water)**

Matrix Spike Dup (B9K1908-MSD1)	Source: Y911305-11			Prepared: 11/19/2019 Analyzed: 11/20/2019						
Benzene	62.1	1.00	ug/L	50.0	11.3	102	70-130	7.67	20	
Toluene	52.9	1.00	"	50.0	ND	106	70-130	4.25	20	
Ethylbenzene	51.6	1.00	"	50.0	ND	103	70-130	3.91	20	
m,p-Xylene	102	2.00	"	100	ND	102	70-130	2.65	20	
o-Xylene	50.4	1.00	"	50.0	ND	101	70-130	3.33	20	
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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*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 - South Booster 6" Gathering

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**Notes and Definitions**

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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