

**DCP SOUTH BOOSTER 6-INCH RELEASE 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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- 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 ⁽¹⁾ (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
COGCC Standards (µg/L)⁽¹⁾		5	560	700	1,400	
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	50.3	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.

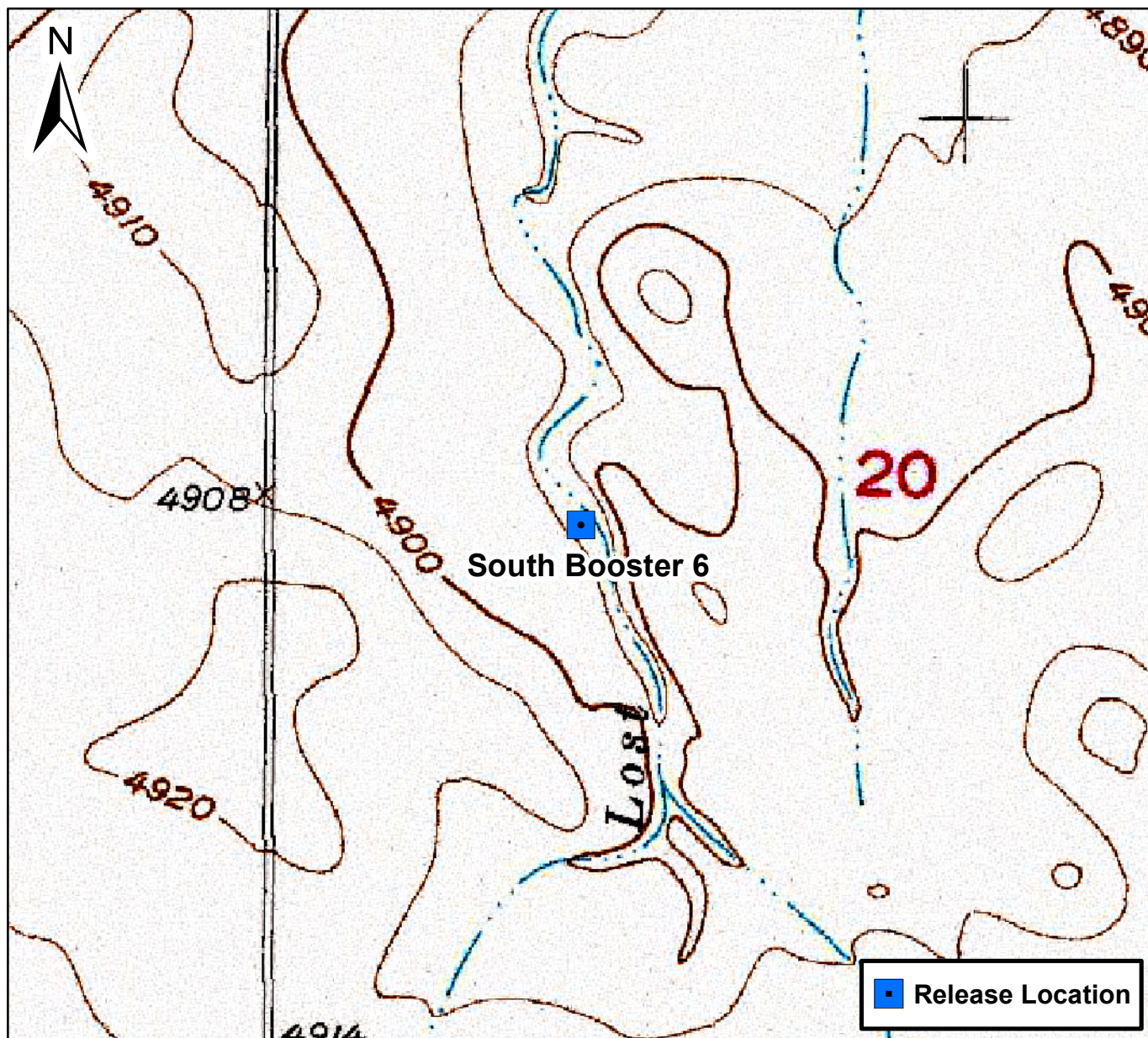
µg/L = micrograms per liter.

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
COGCC Standards (µg/L)⁽¹⁾		5	560	700	1,400	
GW01	6/19/2019	129	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	50.3	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.



0 750 1,500 Feet

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



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

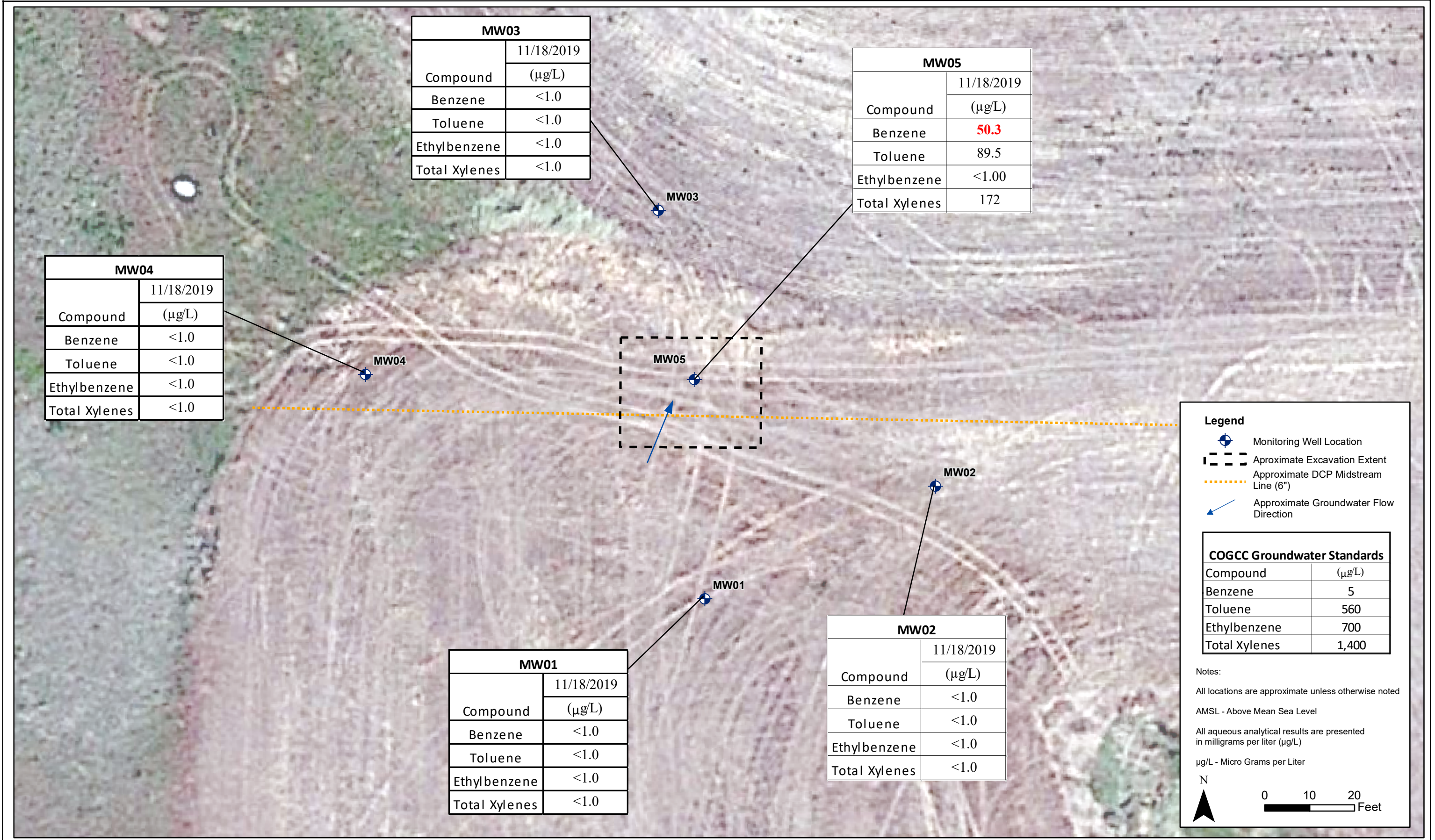
DRAWN BY:
L. Martin



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

 **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

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



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 - 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.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

ORIGINS LABORATORY, INC

www.originslaboratory.com

page 1 of 1

Client: Tasman / DCP Multicore

Address: 6855 W. 119th Ave Broomfield, CO

Telephone Number: 303-391-7887

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 ₃	Other	Groundwater	Soil	Air Summa Canister #		
MW01	11/18/19	1240	3	X				X				1
MW02		1250	1									2
MW03		1258	1									3
MW04		1315	1									4
MW05		1320	1									5
												6
												7
												8
												9
												10

Relinquished By: [Signature] Date: 11/18/19 Time: 1645

Relinquished By: [Signature] Date: 11/18/19 Time: 1645

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 - 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.)

Date/time completed: 4 / 19 / 2019

Airbill #: N/A

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

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 ⁽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) JP

Date/Time Reviewed 11/20/19

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 - 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	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
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	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
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			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
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)

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.



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

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			

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 - 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			

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

Tasman Geosciences
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 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			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

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.