

**DCP SOUTH BOOSTER 6-INCH RELEASE SITE
THIRD QUARTER 2019
FORM 27 SUPPLEMENTAL 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

Figures

- 1 Site Location Map
- 2 Site Overview Map with Monitoring Well Locations
- 3 Groundwater Elevation Contour Map – August 14, 2019
- 4 Groundwater Analytical Results Map – August 14, 2019

Appendices

- A Laboratory Analytical Report
 - Origins Laboratory Job #: Y906350
 - Origins Laboratory Job #: Y908221

TABLE 1
THIRD 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
MW02	8/14/2019	17.82	22.61	4895.22	4877.40	NA
MW03	8/14/2019	18.16	22.71	4895.50	4877.34	NA
MW04	8/14/2019	17.07	22.61	4895.08	4878.01	NA
MW05	8/14/2019	15.35	22.23	4892.98	4877.63	NA

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
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
DCP MIDSTREAM - S. BOOSTER 6-inch GATHERING RELEASE
WELD COUNTY, COLORADO

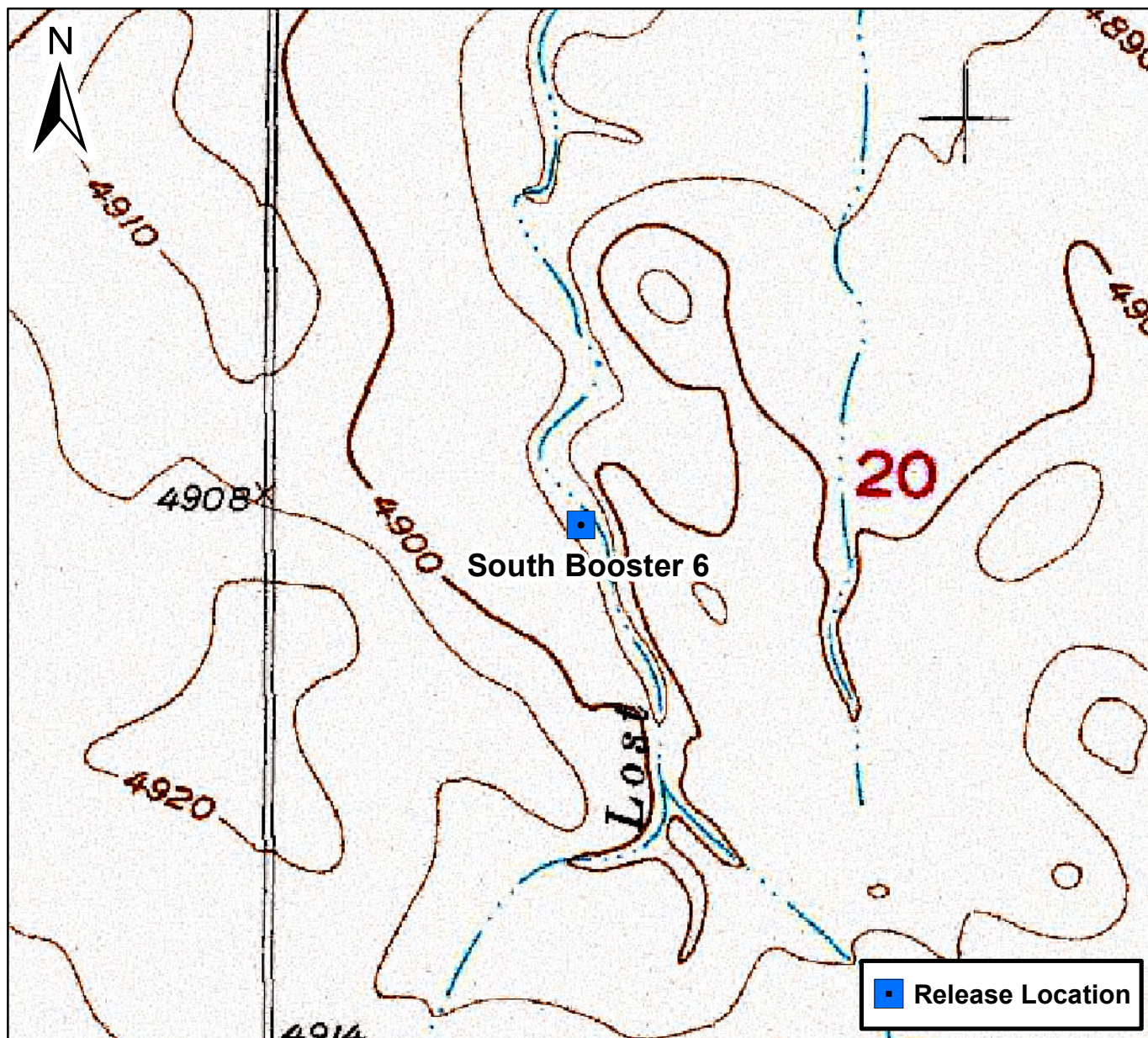
Location Identification	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Comments
COGCC Standards (µg/L)⁽¹⁾		5	560	700	1,400	
GW01	6/19/2019	129	357	45.5	497	
MW01	8/14/2019	<1.00	<1.00	<1.00	<1.00	
MW02	8/14/2019	<1.00	<1.00	<1.00	<1.00	
MW03	8/14/2019	<1.00	<1.00	<1.00	<1.00	
MW04	8/14/2019	<1.00	<1.00	<1.00	<1.00	
MW05	8/14/2019	3.62	2.65	3.09	57.6	

Notes:

1) The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 910-1 of the COGCC 900 Series Rule for E&P Waste Management.

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

µg/L = micrograms per liter.



0 750 1,500 Feet

Figure 1

Site Location Map
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:
October 2019

DESIGNED BY:
B. Humphrey

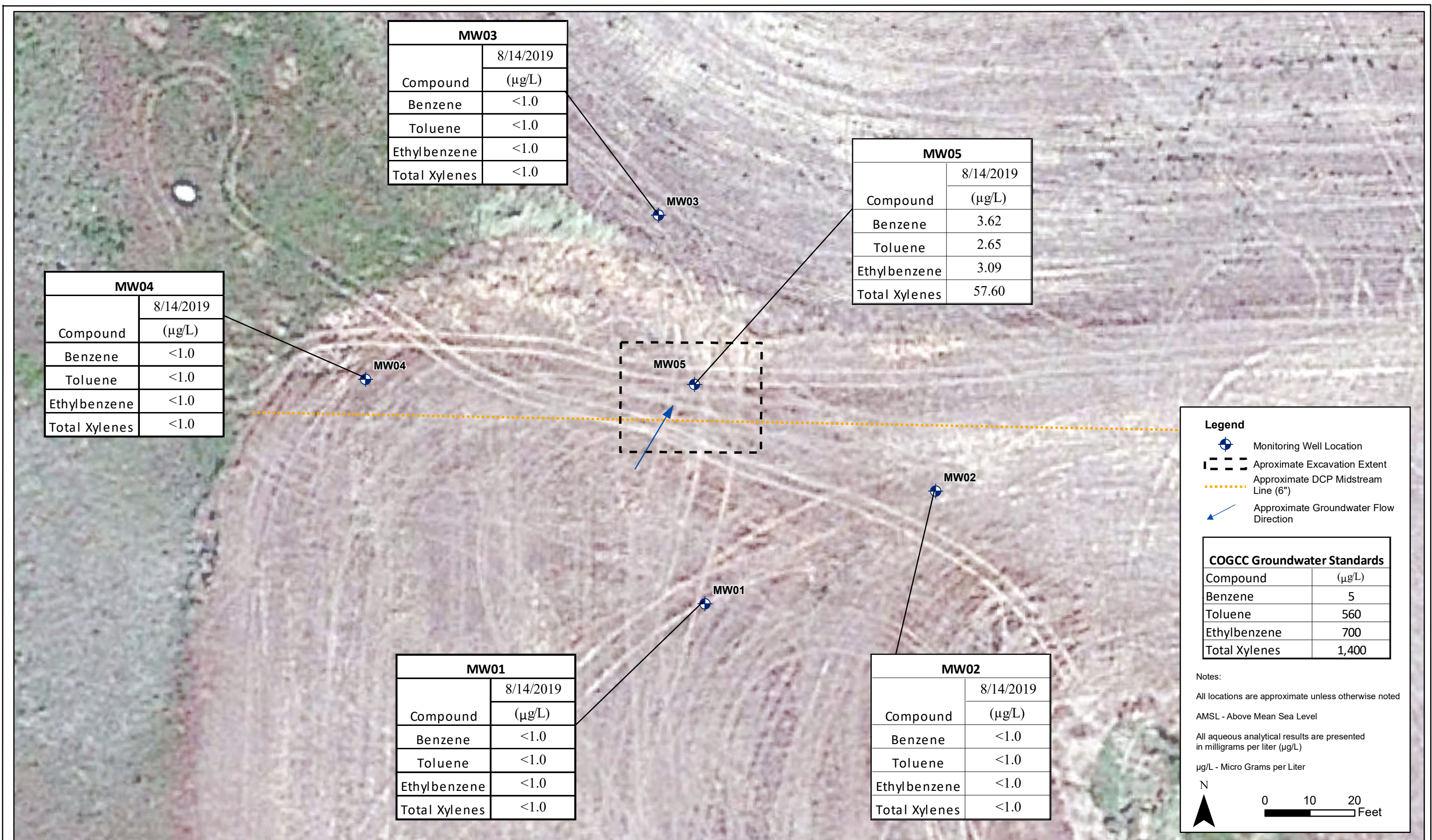
DRAWN BY:
J. Clonts



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

Groundwater Elevation
Contour Map
(08/14/2019)

Figure
3



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

Groundwater Analytical
Results Map
(08/14/2019)

Figure
4



June 26, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

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. June 19, 2019. This project is associated with Origins project number Y906350-01.

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 - South Booster 6" Gathering

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	Y906350-01	Water	June 19, 2019 12:45	06/19/2019 13:45

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

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

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

ORIGINS LABORATORY, INC

www.originslaboratory.com

page 1 of 1

Client: Tasman / OCP
 Address: _____
 Project Manager: Brian Humphrey
 Project Name: South Boulder G"
 Project Number: _____
 Telephone Number: 303-487-1228
 Email Address: bhumphrey@tasman-gas.com

Samples Collected By: B. Humphrey

Sample ID Description	Date Sampled	Time Sampled	# of Containers				Preservative				Matrix				Analysis				Sample Instructions
							Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other					
G201	6/19/19	1245	3	X			X				X				82608 STE EX				1
																			2
																			3
																			4
																			5
																			6
																			7
																			8
																			9
																			10
Relinquished By: <u>[Signature]</u>	Date: <u>6/19/19</u>	Time: <u>1345</u>													Date: <u>6/19/19</u>	Time: <u>1345</u>	Turnaround Time:		
Relinquished By: <u>[Signature]</u>	Date: <u>6/19/19</u>	Time: <u>1345</u>													Date: <u>6/19/19</u>	Time: <u>1345</u>	<input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Standard		

Temp Received- 13.3

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellipini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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: Y906350

Client: Tasman

Client Project ID: South Booster

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 6/20/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 16.3 °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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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) Onp

Date/Time Reviewed 6/21/19

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 - South Booster 6" Gathering

GW01

6/19/2019 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906350-01 (Water)

BTEX by EPA 8260D

Benzene	129	1.00	ug/L	1	B9F2403	KDK	06/24/2019	06/25/2019
Toluene	357	10.0	"	10	"	KDK	"	06/26/2019
Ethylbenzene	45.5	1.00	"	1	"	KDK	"	06/25/2019
Xylenes, total	497	1.00	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	106 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	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 - 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 B9F2403 - EPA 5030B (Water)

Blank (B9F2403-BLK1)

Prepared: 06/24/2019 Analyzed: 06/25/2019

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	62		"	62.5		99.2	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C
Denver CO 80211

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B9F2403 - EPA 5030B (Water)

Blank (B9F2403-BLK2)

Prepared: 06/24/2019 Analyzed: 06/25/2019

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	63		"	62.5	102		70-130			
Surrogate: Toluene-d8	65		"	62.5	104		70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		70-130			

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C
Denver CO 80211

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B9F2403 - EPA 5030B (Water)

LCS (B9F2403-BS1)

Prepared: 06/24/2019 Analyzed: 06/25/2019

Benzene	52.4	1.00	ug/L	50.0		105	70-130			
Toluene	52.6	1.00	"	50.0		105	70-130			
Ethylbenzene	51.3	1.00	"	50.0		103	70-130			
m,p-Xylene	102	2.00	"	100		102	70-130			
o-Xylene	50.0	1.00	"	50.0		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.2	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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6899 Pecos Street, Unit C
Denver CO 80211

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B9F2403 - EPA 5030B (Water)

LCS (B9F2403-BS2)

Prepared: 06/24/2019 Analyzed: 06/25/2019

Benzene	57.4	1.00	ug/L	50.0		115	70-130			
Toluene	57.6	1.00	"	50.0		115	70-130			
Ethylbenzene	52.1	1.00	"	50.0		104	70-130			
m,p-Xylene	104	2.00	"	100		104	70-130			
o-Xylene	50.4	1.00	"	50.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.7	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		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 - 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 B9F2403 - EPA 5030B (Water)

Matrix Spike (B9F2403-MS1)		Source: Y906387-01			Prepared: 06/24/2019 Analyzed: 06/25/2019					
Benzene	65.1	1.00	ug/L	50.0	ND	130	70-130			QM-07
Toluene	67.4	1.00	"	50.0	ND	135	70-130			
Ethylbenzene	62.4	1.00	"	50.0	ND	125	70-130			
m,p-Xylene	124	2.00	"	100	0.200	124	70-130			
o-Xylene	58.0	1.00	"	50.0	ND	116	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.6	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		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 - 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 B9F2403 - EPA 5030B (Water)

Matrix Spike (B9F2403-MS2)		Source: Y906387-02			Prepared: 06/24/2019 Analyzed: 06/25/2019					
Benzene	65.5	1.00	ug/L	50.0	ND	131	70-130			QM-07
Toluene	67.1	1.00	"	50.0	ND	134	70-130			QM-07
Ethylbenzene	61.9	1.00	"	50.0	ND	124	70-130			
m,p-Xylene	123	2.00	"	100	ND	123	70-130			
o-Xylene	57.4	1.00	"	50.0	ND	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.8	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	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 - 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B9F2403 - EPA 5030B (Water)

Matrix Spike Dup (B9F2403-MSD1)		Source: Y906387-01			Prepared: 06/24/2019 Analyzed: 06/25/2019					
Benzene	69.2	1.00	ug/L	50.0	ND	138	70-130	6.17	20	QM-07
Toluene	70.8	1.00	"	50.0	ND	142	70-130	4.98	20	QM-07
Ethylbenzene	65.5	1.00	"	50.0	ND	131	70-130	4.93	20	QM-07
m,p-Xylene	130	2.00	"	100	0.200	130	70-130	5.28	20	
o-Xylene	61.1	1.00	"	50.0	ND	122	70-130	5.17	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.7	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	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 - 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 B9F2403 - EPA 5030B (Water)

Matrix Spike Dup (B9F2403-MSD2)		Source: Y906387-02			Prepared: 06/24/2019 Analyzed: 06/25/2019					
Benzene	63.1	1.00	ug/L	50.0	ND	126	70-130	3.79	20	
Toluene	65.0	1.00	"	50.0	ND	130	70-130	3.14	20	
Ethylbenzene	59.7	1.00	"	50.0	ND	119	70-130	3.54	20	
m,p-Xylene	118	2.00	"	100	ND	118	70-130	4.72	20	
o-Xylene	56.0	1.00	"	50.0	ND	112	70-130	2.38	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.6	70-130			
Surrogate: Toluene-d8	67		"	62.5		106	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 - South Booster 6" Gathering

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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.

August 20, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

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. August 14, 2019. This project is associated with Origins project number Y908221-01.

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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 - South Booster 6" Gathering

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y908221-01	Water	August 14, 2019 12:13	08/14/2019 14:25
MW02	Y908221-02	Water	August 14, 2019 12:20	08/14/2019 14:25
MW03	Y908221-03	Water	August 14, 2019 12:23	08/14/2019 14:25
MW04	Y908221-04	Water	August 14, 2019 12:32	08/14/2019 14:25
MW05	Y908221-05	Water	August 14, 2019 12:40	08/14/2019 14:25

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

www.originslaboratory.com

page 1 of 1

4908221

ORIGINS
LABORATORY, INC

Client: DCP / Tasman
Address: 6899 W 141st AVE
Broomfield, CO 80020
Telephone Number: 303-487-1228

Project Manager/Send Report To: Brian Humphrey
Email Address: bhumphre@tasman-geo.com
Project Name/Number: South Booster 6"
Samples Collected By: Brian G. Jones C

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister	Other		
MW01	8/14/19	12:13	3	X					X			BTEX	1
MW02		12:20	1										2
MW03		12:23	1										3
MW04		12:32	1										4
MW05		12:40	1										5
													6
													7
													8
													9
													10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
James Conlyton	8/14/19	14:25	[Signature]	8-14-19	14:25	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>
Relinquished By:	Date: <td>Time: <td>Received By: <td>Date: <td>Time: <td>48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/></td> </td></td></td></td>	Time: <td>Received By: <td>Date: <td>Time: <td>48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/></td> </td></td></td>	Received By: <td>Date: <td>Time: <td>48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/></td> </td></td>	Date: <td>Time: <td>48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/></td> </td>	Time: <td>48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/></td>	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>

Date Results Needed:

44

Comments:

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9445

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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: 490221

Client: Tasman

Client Project ID: DCP - South Booster 6"

Checklist Completed by: Dan Lee

Shipped Via: H17

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

Date/time completed: 8-7-11

Airbill #: 247

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

Cooler Number/Temperature: 1 / 9.9 °C 1 / _____ °C 1 / _____ °C (Describe)

Thermometer ID: 1003

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"/>		Sampled same Day
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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽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 checked="" 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 8/15/11

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

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

MW01

8/14/2019 12:13:00PM

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

Origins Laboratory, Inc. Y908221-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H1514	KDK	08/15/2019	08/16/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	98.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.6 %	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 - South Booster 6" Gathering

MW02

8/14/2019 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y908221-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H1514	KDK	08/15/2019	08/16/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	98.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	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 - South Booster 6" Gathering

MW03

8/14/2019 12:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y908221-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H1514	KDK	08/15/2019	08/16/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	99.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.5 %	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 - South Booster 6" Gathering

MW04

8/14/2019 12:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y908221-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9H1514	KDK	08/15/2019	08/16/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

104 % 70-130
98.1 % 70-130
101 % 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 - South Booster 6" Gathering

MW05

8/14/2019 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y908221-05 (Water)

BTEX by EPA 8260D

Benzene	3.62	1.00	ug/L	1	B9H1514	KDK	08/15/2019	08/16/2019
Toluene	2.65	1.00	"	"	"	KDK	"	"
Ethylbenzene	3.09	1.00	"	"	"	KDK	"	"
Xylenes, total	57.6	1.00	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"
Surrogate: Toluene-d8	89.9 %	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 - 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
Batch B9H1514 - EPA 5030B (Water)										
Blank (B9H1514-BLK1)					Prepared: 08/15/2019 Analyzed: 08/16/2019					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	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 - 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B9H1514 - EPA 5030B (Water)

LCS (B9H1514-BS1)

Prepared: 08/15/2019 Analyzed: 08/16/2019

Benzene	48.9	1.00	ug/L	50.0		97.7	70-130			
Toluene	46.8	1.00	"	50.0		93.7	70-130			
Ethylbenzene	46.5	1.00	"	50.0		93.0	70-130			
m,p-Xylene	90.9	2.00	"	100		90.9	70-130			
o-Xylene	45.5	1.00	"	50.0		90.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	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 - 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 B9H1514 - EPA 5030B (Water)

Matrix Spike (B9H1514-MS1)		Source: Y908220-01			Prepared: 08/15/2019 Analyzed: 08/16/2019					
Benzene	51.8	1.00	ug/L	50.0	1.52	101	70-130			
Toluene	49.4	1.00	"	50.0	ND	98.8	70-130			
Ethylbenzene	46.4	1.00	"	50.0	0.080	92.7	70-130			
m,p-Xylene	91.3	2.00	"	100	0.490	90.8	70-130			
o-Xylene	45.8	1.00	"	50.0	ND	91.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.3	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 - 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 B9H1514 - EPA 5030B (Water)

Matrix Spike Dup (B9H1514-MSD1)		Source: Y908220-01			Prepared: 08/15/2019 Analyzed: 08/16/2019					
Benzene	52.9	1.00	ug/L	50.0	1.52	103	70-130	2.20	20	
Toluene	51.1	1.00	"	50.0	ND	102	70-130	3.36	20	
Ethylbenzene	47.6	1.00	"	50.0	0.080	95.0	70-130	2.47	20	
m,p-Xylene	92.0	2.00	"	100	0.490	91.5	70-130	0.742	20	
o-Xylene	46.6	1.00	"	50.0	ND	93.2	70-130	1.69	20	
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.8	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	70-130			

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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

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.



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