

January 18, 2017

BRIAN HUMPHREY

TASMAN GEOSCIENCES

6899 PECOS ST. UNIT C

DENVER, CO 80221

RE: DCP - BE-7-4 LOOP

Enclosed are the results of analyses for samples received by the laboratory on 01/18/17 11:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

TASMAN GEOSCIENCES  
BRIAN HUMPHREY  
6899 PECOS ST. UNIT C  
DENVER CO, 80221  
Fax To:

Received: 01/18/2017  
Reported: 01/18/2017  
Project Name: DCP - BE-7-4 LOOP  
Project Number: BE-7-4 LOOP  
Project Location: CARLSBAD, NM

Sampling Date: 01/18/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 01 @ 7' (H700117-01)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.661	
Toluene*	<0.050	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536	
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354	
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366	
Total BTEX	<0.300	0.300	01/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/18/2017	ND	207	103	200	8.30	
DRO >C10-C28	12.2	10.0	01/18/2017	ND	209	104	200	5.39	

Surrogate: 1-Chlorooctane 73.1 % 35-147

Surrogate: 1-Chlorooctadecane 88.3 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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TASMAN GEOSCIENCES  
BRIAN HUMPHREY  
6899 PECOS ST. UNIT C  
DENVER CO, 80221  
Fax To:

Received: 01/18/2017  
Reported: 01/18/2017  
Project Name: DCP - BE-7-4 LOOP  
Project Number: BE-7-4 LOOP  
Project Location: CARLSBAD, NM

Sampling Date: 01/18/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 02 @ 7' (H700117-02)**

BTX 8021B		mg / kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.661		
Toluene*	<0.050	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536		
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354		
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366		
Total BTX	<0.300	0.300	01/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/18/2017	ND	207	103	200	8.30	
DRO >C10-C28	<10.0	10.0	01/18/2017	ND	209	104	200	5.39	

Surrogate: 1-Chlorooctane 85.3 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

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Fax To:

Received: 01/18/2017  
Reported: 01/18/2017  
Project Name: DCP - BE-7-4 LOOP  
Project Number: BE-7-4 LOOP  
Project Location: CARLSBAD, NM

Sampling Date: 01/18/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 03 @ 7' (H700117-03)**

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.661	
Toluene*	<0.050	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536	
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354	
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366	
Total BTEx	<0.300	0.300	01/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/18/2017	ND	207	103	200	8.30	
DRO >C10-C28	<10.0	10.0	01/18/2017	ND	209	104	200	5.39	

Surrogate: 1-Chlorooctane 93.6 % 35-147

Surrogate: 1-Chlorooctadecane 96.7 % 28-171

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BRIAN HUMPHREY  
6899 PECOS ST. UNIT C  
DENVER CO, 80221  
Fax To:

Received: 01/18/2017  
Reported: 01/18/2017  
Project Name: DCP - BE-7-4 LOOP  
Project Number: BE-7-4 LOOP  
Project Location: CARLSBAD, NM

Sampling Date: 01/18/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 04 @ 7' (H700117-04)**

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.055	0.050	01/18/2017	ND	1.87	93.7	2.00	0.661	
Toluene*	0.304	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536	
Ethylbenzene*	0.103	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354	
Total Xylenes*	0.710	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366	
Total BTEX	1.17	0.300	01/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/18/2017	ND	207	103	200	8.30	
DRO >C10-C28	<10.0	10.0	01/18/2017	ND	209	104	200	5.39	

Surrogate: 1-Chlorooctane 87.4 % 35-147

Surrogate: 1-Chlorooctadecane 80.6 % 28-171

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Fax To:

Received: 01/18/2017  
Reported: 01/18/2017  
Project Name: DCP - BE-7-4 LOOP  
Project Number: BE-7-4 LOOP  
Project Location: CARLSBAD, NM

Sampling Date: 01/18/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 05 @ 7' (H700117-05)**

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>61.1</b>	2.00	01/18/2017	ND	1.87	93.7	2.00	0.661		
<b>Toluene*</b>	<b>285</b>	2.00	01/18/2017	ND	1.85	92.6	2.00	0.536		
<b>Ethylbenzene*</b>	<b>65.6</b>	2.00	01/18/2017	ND	1.87	93.7	2.00	0.354		
<b>Total Xylenes*</b>	<b>300</b>	6.00	01/18/2017	ND	5.31	88.5	6.00	0.366		
<b>Total BTX</b>	<b>712</b>	12.0	01/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>11000</b>	100	01/18/2017	ND	207	103	200	8.30		
<b>DRO &gt;C10-C28</b>	<b>529</b>	100	01/18/2017	ND	209	104	200	5.39		

Surrogate: 1-Chlorooctane 173 % 35-147

Surrogate: 1-Chlorooctadecane 81.1 % 28-171

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Fax To:

Received: 01/18/2017  
Reported: 01/18/2017  
Project Name: DCP - BE-7-4 LOOP  
Project Number: BE-7-4 LOOP  
Project Location: CARLSBAD, NM

Sampling Date: 01/18/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 06 @ 7' (H700117-06)**

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.661	
Toluene*	<0.050	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536	
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354	
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366	
Total BTEX	<0.300	0.300	01/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	22.8	10.0	01/18/2017	ND	207	103	200	8.30	
DRO >C10-C28	<10.0	10.0	01/18/2017	ND	209	104	200	5.39	

Surrogate: 1-Chlorooctane 86.7 % 35-147

Surrogate: 1-Chlorooctadecane 92.0 % 28-171

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DENVER CO, 80221  
Fax To:

Received: 01/18/2017  
Reported: 01/18/2017  
Project Name: DCP - BE-7-4 LOOP  
Project Number: BE-7-4 LOOP  
Project Location: CARLSBAD, NM

Sampling Date: 01/18/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: BS 01 @ 14' (H700117-07)**

BTX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>15.2</b>	0.500	01/18/2017	ND	1.87	93.7	2.00	0.661	
<b>Toluene*</b>	<b>76.1</b>	0.500	01/18/2017	ND	1.85	92.6	2.00	0.536	
<b>Ethylbenzene*</b>	<b>19.0</b>	0.500	01/18/2017	ND	1.87	93.7	2.00	0.354	
<b>Total Xylenes*</b>	<b>85.7</b>	1.50	01/18/2017	ND	5.31	88.5	6.00	0.366	
<b>Total BTX</b>	<b>196</b>	3.00	01/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.6-140

Chloride, SM4500CI-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	01/18/2017	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>1920</b>	10.0	01/18/2017	ND	207	103	200	8.30	
<b>DRO &gt;C10-C28</b>	<b>104</b>	10.0	01/18/2017	ND	209	104	200	5.39	

Surrogate: 1-Chlorooctane 111 % 35-147

Surrogate: 1-Chlorooctadecane 87.7 % 28-171

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TASMAN GEOSCIENCES  
BRIAN HUMPHREY  
6899 PECOS ST. UNIT C  
DENVER CO, 80221  
Fax To:

Received: 01/18/2017  
Reported: 01/18/2017  
Project Name: DCP - BE-7-4 LOOP  
Project Number: BE-7-4 LOOP  
Project Location: CARLSBAD, NM

Sampling Date: 01/18/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: BS 02 @ 14' (H700117-08)**

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.121	0.050	01/18/2017	ND	1.87	93.7	2.00	0.661	
Toluene*	0.221	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536	
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354	
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366	
Total BTEX	0.342	0.300	01/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	14.1	10.0	01/18/2017	ND	207	103	200	8.30	
DRO >C10-C28	<10.0	10.0	01/18/2017	ND	209	104	200	5.39	

Surrogate: 1-Chlorooctane 85.0 % 35-147

Surrogate: 1-Chlorooctadecane 90.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

RUST

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: DCP Midstream		P.O. #:		BILL TO		ANALYSIS REQUEST															
Project Manager: Brian Humphrey / Hack Conder		Company: Tasman																			
Address:		Attn: Brian Humphrey																			
City:		Address: 6899 Pecos St. Unit C																			
State:		City: Denver																			
Zip:		State: CO																			
Phone #:		Zip: 80221																			
Fax #:		Phone #: 303-487-1228																			
Project #:		Fax #:																			
Project Owner:																					
Project Name:																					
Project Location: BE-7-4 Loop																					
Sample Name: Kyle Norman																					
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS	
H70017	5501 @ 7'	G 1	1										1-18-17	8:45							
	5502 @ 7'	G 1	1											8:55							
	5503 @ 7'	G 1	1											9:00							
	5504 @ 7'	G 1	1											9:05							
	5505 @ 7'	G 1	1											9:10							
	5506 @ 7'	G 1	1											9:15							
	5501 @ 14'	G 1	1											9:20							
	5502 @ 14'	G 1	1											9:25							
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																					
Relinquished By: <i>hkn</i>		Date: 1-18-17		Received By: <i>Heidi Henderson</i>		Time: 11:25		Date: <i>1-18-17</i>		Time: <i>11:25</i>		Relinquished By: <i>hkn</i>		Date: <i>1-18-17</i>		Time: <i>11:25</i>		Relinquished By: <i>Heidi Henderson</i>		Time: <i>11:25</i>	
Delivered By: (Circle One)		Sample Condition		Cool		Intact		Checked By: <i>hkn</i>		Initials		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:		REMARKS:	
Sampler - UPS - Bus - Other:		2.80		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		575-318-5017		Verbal		email results:		bhumphrey@tasman-geo.com		hpcorder@dcpmidstream.com		swweathers@dcpmidstream.com		knorman@tasman-geo.com	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476