



DATE:
November 2017

DESIGNED BY:
K. Norman

DRAWN BY:
D. Cavinder

TASMAN
GEOSCIENCES

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

DCP Midstream
M Extension Line Leak 1RP-4605
NENE Section 4, Township 19 South, Range 31 East
Eddy County, New Mexico

Soil Sample Location
Figure

Figure
1



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 03, 2017

YVONNE BLAIR

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: M EXTENSION LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/31/17 12:45.

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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

DCP Midstream - Midland
YVONNE BLAIR
10 Desta Dr., #400-W
Midland TX, 79705
Fax To: None

Received: 10/31/2017
Reported: 11/03/2017
Project Name: M EXTENSION LINE
Project Number: F-231
Project Location: NOT GIVEN

Sampling Date: 10/27/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SOUTH WALL EXTENDED (H702981-01)

BTX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2017	ND	2.06	103	2.00	0.991	
Toluene*	0.133	0.050	11/02/2017	ND	2.10	105	2.00	1.89	
Ethylbenzene*	0.384	0.050	11/02/2017	ND	2.12	106	2.00	1.22	
Total Xylenes*	2.27	0.150	11/02/2017	ND	6.78	113	6.00	1.32	
Total BTX	2.79	0.300	11/02/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 72-148

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/01/2017	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	112	10.0	11/01/2017	ND	198	98.8	200	3.65	
DRO >C10-C28	2030	10.0	11/01/2017	ND	194	97.1	200	1.15	
EXT DRO >C28-C36	71.0	10.0	11/01/2017	ND					

Surrogate: 1-Chlorooctane 112 % 28.3-164

Surrogate: 1-Chlorooctadecane 94.3 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DCP Midstream - Midland
YVONNE BLAIR
10 Desta Dr., #400-W
Midland TX, 79705
Fax To: None

Received: 10/31/2017
Reported: 11/03/2017
Project Name: M EXTENSION LINE
Project Number: F-231
Project Location: NOT GIVEN

Sampling Date: 10/27/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT.7 BOTTOM @4' (H702981-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2017	ND	2.06	103	2.00	0.991	
Toluene*	<0.050	0.050	11/02/2017	ND	2.10	105	2.00	1.89	
Ethylbenzene*	0.085	0.050	11/02/2017	ND	2.12	106	2.00	1.22	
Total Xylenes*	0.430	0.150	11/02/2017	ND	6.78	113	6.00	1.32	
Total BTEX	0.515	0.300	11/02/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 72-148

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	11/01/2017	ND	198	98.8	200	3.65	
DRO >C10-C28	436	10.0	11/01/2017	ND	194	97.1	200	1.15	
EXT DRO >C28-C36	63.8	10.0	11/01/2017	ND					

Surrogate: 1-Chlorooctane 87.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 104 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DCP Midstream - Midland
YVONNE BLAIR
10 Desta Dr., #400-W
Midland TX, 79705
Fax To: None

Received: 10/31/2017
Reported: 11/03/2017
Project Name: M EXTENSION LINE
Project Number: F-231
Project Location: NOT GIVEN

Sampling Date: 10/27/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT.7 WEST WALL (H702981-03)

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	11/01/2017	ND	198	98.8	200	3.65	
DRO >C10-C28	12.9	10.0	11/01/2017	ND	194	97.1	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	11/01/2017	ND					
<i>Surrogate: 1-Chlorooctane</i>									
	88.1 %	28.3-164							
<i>Surrogate: 1-Chlorooctadecane</i>									
	89.5 %	34.7-157							

Sample ID: PT.7 EAST WALL (H702981-04)

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	11/01/2017	ND	198	98.8	200	3.65	
DRO >C10-C28	<10.0	10.0	11/01/2017	ND	194	97.1	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	11/01/2017	ND					
<i>Surrogate: 1-Chlorooctane</i>									
	76.6 %	28.3-164							
<i>Surrogate: 1-Chlorooctadecane</i>									
	86.6 %	34.7-157							

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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



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RS#

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

+ Cardinal cannot accept verbal changes. Please fax written changes to 505-330-2479