



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

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October 30, 2015

C D WALKER  
DCP MIDSTREAM  
2010 ORCHARD LANE  
ARTESIA, NM 88210

RE: LOCO HILLS MM PIPE LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/29/15 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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:**

DCP MIDSTREAM  
C D WALKER  
2010 ORCHARD LANE  
ARTESIA NM, 88210  
Fax To: NONE

Received: 10/29/2015  
Reported: 10/30/2015  
Project Name: LOCO HILLS MM PIPE LINE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/29/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: BOTTOM @ 13' (H502841-01)**

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	10/29/2015	ND	2.03	102	2.00	1.74	
Toluene*	<0.050	0.050	10/29/2015	ND	2.22	111	2.00	1.91	
Ethylbenzene*	<0.050	0.050	10/29/2015	ND	2.02	101	2.00	2.00	
Total Xylenes*	<0.150	0.150	10/29/2015	ND	6.42	107	6.00	1.91	
Total BTX	<0.300	0.300	10/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/30/2015	ND	400	100	400	7.69		

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	10/30/2015	ND	210	105	200	1.78	
DRO >C10-C28	10.0	10.0	10/30/2015	ND	218	109	200	1.40	

Surrogate: 1-Chlorooctane 95.4 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DCP MIDSTREAM  
C D WALKER  
2010 ORCHARD LANE  
ARTESIA NM, 88210  
Fax To: NONE

Received: 10/29/2015  
Reported: 10/30/2015  
Project Name: LOCO HILLS MM PIPE LINE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/29/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PT. 1 WALL (H502841-02)**

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	10/29/2015	ND	2.03	102	2.00	1.74	
Toluene*	<0.050	0.050	10/29/2015	ND	2.22	111	2.00	1.91	
Ethylbenzene*	<0.050	0.050	10/29/2015	ND	2.02	101	2.00	2.00	
Total Xylenes*	<0.150	0.150	10/29/2015	ND	6.42	107	6.00	1.91	
Total BTX	<0.300	0.300	10/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/30/2015	ND	400	100	400	7.69	

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	10/30/2015	ND	210	105	200	1.78	
DRO >C10-C28	<10.0	10.0	10/30/2015	ND	218	109	200	1.40	

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 117 % 28-171

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C D WALKER  
2010 ORCHARD LANE  
ARTESIA NM, 88210  
Fax To: NONE

Received: 10/29/2015  
Reported: 10/30/2015  
Project Name: LOCO HILLS MM PIPE LINE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/29/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PT. 2 WALL (H502841-03)**

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	10/29/2015	ND	2.03	102	2.00	1.74	
Toluene*	<0.050	0.050	10/29/2015	ND	2.22	111	2.00	1.91	
Ethylbenzene*	<0.050	0.050	10/29/2015	ND	2.02	101	2.00	2.00	
Total Xylenes*	<0.150	0.150	10/29/2015	ND	6.42	107	6.00	1.91	
Total BTX	<0.300	0.300	10/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/30/2015	ND	400	100	400	7.69	

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	10/30/2015	ND	210	105	200	1.78	
DRO >C10-C28	<10.0	10.0	10/30/2015	ND	218	109	200	1.40	

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 113 % 28-171

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C D WALKER  
2010 ORCHARD LANE  
ARTESIA NM, 88210  
Fax To: NONE

Received: 10/29/2015  
Reported: 10/30/2015  
Project Name: LOCO HILLS MM PIPE LINE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/29/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PT. 3 WALL (H502841-04)**

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	10/29/2015	ND	2.03	102	2.00	1.74	
Toluene*	<0.050	0.050	10/29/2015	ND	2.22	111	2.00	1.91	
Ethylbenzene*	<0.050	0.050	10/29/2015	ND	2.02	101	2.00	2.00	
Total Xylenes*	<0.150	0.150	10/29/2015	ND	6.42	107	6.00	1.91	
Total BTEx	<0.300	0.300	10/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/30/2015	ND	400	100	400	7.69	

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	10/30/2015	ND	210	105	200	1.78	
DRO >C10-C28	<10.0	10.0	10/30/2015	ND	218	109	200	1.40	

Surrogate: 1-Chlorooctane 110 % 35-147

Surrogate: 1-Chlorooctadecane 121 % 28-171

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DCP MIDSTREAM  
C D WALKER  
2010 ORCHARD LANE  
ARTESIA NM, 88210  
Fax To: NONE

Received: 10/29/2015  
Reported: 10/30/2015  
Project Name: LOCO HILLS MM PIPE LINE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/29/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PT. 4 WALL (H502841-05)**

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	10/29/2015	ND	2.03	102	2.00	1.74	
Toluene*	<0.050	0.050	10/29/2015	ND	2.22	111	2.00	1.91	
Ethylbenzene*	<0.050	0.050	10/29/2015	ND	2.02	101	2.00	2.00	
Total Xylenes*	<0.150	0.150	10/29/2015	ND	6.42	107	6.00	1.91	
Total BTEx	<0.300	0.300	10/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/30/2015	ND	400	100	400	7.69		

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	10/30/2015	ND	210	105	200	1.78	
DRO >C10-C28	<10.0	10.0	10/30/2015	ND	218	109	200	1.40	

Surrogate: 1-Chlorooctane 94.2 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DCP MIDSTREAM  
C D WALKER  
2010 ORCHARD LANE  
ARTESIA NM, 88210  
Fax To: NONE

Received: 10/29/2015  
Reported: 10/30/2015  
Project Name: LOCO HILLS MM PIPE LINE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/29/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: 6" SCRAPE PT. 1 @ 6" (H502841-06)**

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	10/30/2015	ND	1.84	92.1	2.00	1.48	
Toluene*	<0.050	0.050	10/30/2015	ND	2.02	101	2.00	2.35	
Ethylbenzene*	<0.050	0.050	10/30/2015	ND	1.85	92.5	2.00	3.56	
Total Xylenes*	<0.150	0.150	10/30/2015	ND	5.88	98.0	6.00	3.68	
Total BTX	<0.300	0.300	10/30/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/30/2015	ND	400	100	400	7.69	

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	10/30/2015	ND	210	105	200	1.78	
DRO >C10-C28	<10.0	10.0	10/30/2015	ND	218	109	200	1.40	

Surrogate: 1-Chlorooctane 108 % 35-147

Surrogate: 1-Chlorooctadecane 115 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DCP MIDSTREAM  
C D WALKER  
2010 ORCHARD LANE  
ARTESIA NM, 88210  
Fax To: NONE

Received: 10/29/2015  
Reported: 10/30/2015  
Project Name: LOCO HILLS MM PIPE LINE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/29/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: 6" SCRAPE PT. 2 @ 6" (H502841-07)**

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	10/30/2015	ND	1.84	92.1	2.00	1.48	
Toluene*	<0.050	0.050	10/30/2015	ND	2.02	101	2.00	2.35	
Ethylbenzene*	<0.050	0.050	10/30/2015	ND	1.85	92.5	2.00	3.56	
Total Xylenes*	<0.150	0.150	10/30/2015	ND	5.88	98.0	6.00	3.68	
Total BTX	<0.300	0.300	10/30/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/30/2015	ND	400	100	400	7.69	

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	10/30/2015	ND	210	105	200	1.78	
DRO >C10-C28	<10.0	10.0	10/30/2015	ND	218	109	200	1.40	

Surrogate: 1-Chlorooctane 106 % 35-147

Surrogate: 1-Chlorooctadecane 114 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DCP MIDSTREAM  
C D WALKER  
2010 ORCHARD LANE  
ARTESIA NM, 88210  
Fax To: NONE

Received: 10/29/2015  
Reported: 10/30/2015  
Project Name: LOCO HILLS MM PIPE LINE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/29/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: 6" SCRAPE PT. 3 @ 6" (H502841-08)**

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	10/30/2015	ND	1.84	92.1	2.00	1.48	
Toluene*	<0.050	0.050	10/30/2015	ND	2.02	101	2.00	2.35	
Ethylbenzene*	<0.050	0.050	10/30/2015	ND	1.85	92.5	2.00	3.56	
Total Xylenes*	<0.150	0.150	10/30/2015	ND	5.88	98.0	6.00	3.68	
Total BTX	<0.300	0.300	10/30/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	10/30/2015	ND	400	100	400	7.69	

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	10/30/2015	ND	210	105	200	1.78	
DRO >C10-C28	<10.0	10.0	10/30/2015	ND	218	109	200	1.40	

Surrogate: 1-Chlorooctane 99.1 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

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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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