

January 11, 2017

KIRK FARIES

ROVER OPERATING

11387 LOVINGTON HWY

ARTESIA, NM 88210

RE: HASTIE FED FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 01/04/17 11:00.

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,



Celey D. Keene

Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: Rover Operating Project Manager: Kirk Faries Address: 11387 Lovington Hwy City: Artesia State: Zip: 88210 Phone #: Fax #: Project #: Project Owner: Project Name: Hastic Fed Flowline Project Location: Eddy County, NM Sampler Name: Kirk				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST																																							
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	PH	TPH	BTX																													
					GROUN/WATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER																																		
	HT000022	1 Sidewalk #1 2 Sidewalk #2 3 Low Point 3 4 Soil Removed											11/4/17	8:00	✓	✓	✓																														

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 analyses. 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 applicable 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: Kirk Faries 1-4-17 Date: 11/4/16 Time: 11:00	Received By: Joaqui Henson Date: _____ Time: _____	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: L.faries@roverpetro.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other: #75 30c	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) JFH

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Analytical Results For:

 ROVER OPERATING
 KIRK FARIES
 11387 LOVINGTON HWY
 ARTESIA NM, 88210
 Fax To: NA

 Received: 01/04/2017
 Reported: 01/11/2017
 Project Name: HASTIE FED FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/04/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SIDEWALL #1 (H700022-01)

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	01/06/2017	ND	2.00	99.9	2.00	0.831	
Toluene*	0.094	0.050	01/06/2017	ND	1.98	98.9	2.00	0.679	
Ethylbenzene*	0.102	0.050	01/06/2017	ND	2.01	100	2.00	0.275	
Total Xylenes*	<0.150	0.150	01/06/2017	ND	5.66	94.4	6.00	0.283	
Total BTEX -	<0.300	0.300	01/06/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	01/05/2017	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	<10.0	10.0	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	18.8	10.0	01/06/2017	ND	194	97.1	200	0.949	

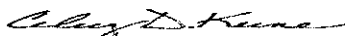
Surrogate: 1-Chlorooctane 100 % 35-147

Surrogate: 1-Chlorooctadecane 98.2 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ROVER OPERATING
 KIRK FARIES
 11387 LOVINGTON HWY
 ARTESIA NM, 88210
 Fax To: NA

 Received: 01/04/2017
 Reported: 01/11/2017
 Project Name: HASTIE FED FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/04/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SIDEWALL #2 (H700022-02)

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	01/05/2017	ND	2.00	99.9	2.00	0.831		
Toluene*	<0.050	0.050	01/05/2017	ND	1.98	98.9	2.00	0.679		
Ethylbenzene*	0.051	0.050	01/05/2017	ND	2.01	100	2.00	0.275		
Total Xylenes*	<0.150	0.150	01/05/2017	ND	5.66	94.4	6.00	0.283		
Total BTEX	<0.300	0.300	01/05/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	01/05/2017	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	<10.0	10.0	01/05/2017	ND	183	91.7	200	0.659		
DRO >C10-C28	<10.0	10.0	01/05/2017	ND	194	97.1	200	0.949		

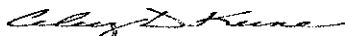
Surrogate: 1-Chlorooctane 99.0 % 35-147

Surrogate: 1-Chlorooctadecane 110 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ROVER OPERATING
 KIRK FARIES
 11387 LOVINGTON HWY
 ARTESIA NM, 8821C
 Fax To: NA

 Received: 01/04/2017
 Reported: 01/11/2017
 Project Name: HASTIE FED FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/04/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: LOW POINT #3 (H700022-03)

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	01/06/2017	ND	2.00	99.9	2.00	0.831		
Toluene*	<0.050	0.050	01/06/2017	ND	1.98	98.9	2.00	0.679		
Ethylbenzene*	<0.050	0.050	01/06/2017	ND	2.01	100	2.00	0.275		
Total Xylenes*	<0.150	0.150	01/06/2017	ND	5.66	94.4	6.00	0.283		
Total BTEX	<0.300	0.300	01/06/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1540	16.0	01/05/2017	ND	432	108	400	0.00		

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	01/06/2017	ND	183	91.7	200	0.659		
DRO >C10-C28	12.3	10.0	01/06/2017	ND	194	97.1	200	0.949		

Surrogate: 1-Chlorooctane 64.3 % 35-147

Surrogate: 1-Chlorooctadecane 64.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ROVER OPERATING
 KIRK FARIES
 11387 LOVINGTON HWY
 ARTESIA NM, 88210
 Fax To: NA

 Received: 01/04/2017
 Reported: 01/11/2017
 Project Name: HASTIE FED FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/04/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SOIL REMOVED (H700022-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.102	0.050	01/06/2017	ND	2.00	99.9	2.00	0.831		
Toluene*	0.720	0.050	01/06/2017	ND	1.98	98.9	2.00	0.679		
Ethylbenzene*	1.52	0.050	01/06/2017	ND	2.01	100	2.00	0.275		
Total Xylenes*	4.41	0.150	01/06/2017	ND	5.66	94.4	6.00	0.283		
Total BTEX	6.75	0.300	01/06/2017	ND						

Surrogate: 4-Bromofluorobenzene (PII) 114 % 73.6-140

Chloride, SM4500C1-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	01/05/2017	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	163	50.0	01/06/2017	ND	183	91.7	200	0.659		
DRO >C10-C28	1790	50.0	01/06/2017	ND	194	97.1	200	0.949		

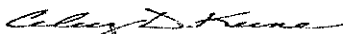
Surrogate: 1-Chlorooctane 134 % 35-147

Surrogate: 1-Chlorooctadecane 133 % 28-171

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Celey D. Keene, Lab Director/Quality Manager


Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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