



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

January 12, 2017

ED HAMBLIN

SHERIDAN PRODUCTION COMPANY,LLC

1602 W. BROADWAY

ANDREWS, TX 79714

RE: MONTERREY FED #1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/12/17 8:15.

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

Analytical Results For:

SHERIDAN PRODUCTION COMPANY,LLC
ED HAMBLIN
1602 W. BROADWAY
ANDREWS TX, 79714
Fax To: (432) 523-1099

Received:	01/12/2017	Sampling Date:	01/12/2017
Reported:	01/12/2017	Sampling Type:	Soil
Project Name:	MONTERREY FED #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 3' (H700081-01)

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	01/12/2017	ND	2.07	103	2.00	1.42	
Toluene*	<0.050	0.050	01/12/2017	ND	2.03	102	2.00	1.08	
Ethylbenzene*	<0.050	0.050	01/12/2017	ND	2.04	102	2.00	0.415	
Total Xylenes*	<0.150	0.150	01/12/2017	ND	5.77	96.2	6.00	0.616	
Total BTX	<0.300	0.300	01/12/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	32.0	16.0	01/12/2017	ND	448	112	400	3.64	

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	01/12/2017	ND	180	89.8	200	0.628	
DRO >C10-C28	98.7	10.0	01/12/2017	ND	188	93.8	200	0.234	

Surrogate: 1-Chlorooctane 93.3 % 35-147

Surrogate: 1-Chlorooctadecane 109 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Received:	01/12/2017	Sampling Date:	01/12/2017
Reported:	01/12/2017	Sampling Type:	Soil
Project Name:	MONTERREY FED #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 2' (H700081-02)

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	01/12/2017	ND	2.07	103	2.00	1.42		
Toluene*	<0.050	0.050	01/12/2017	ND	2.03	102	2.00	1.08		
Ethylbenzene*	<0.050	0.050	01/12/2017	ND	2.04	102	2.00	0.415		
Total Xylenes*	<0.150	0.150	01/12/2017	ND	5.77	96.2	6.00	0.616		
Total BTX	<0.300	0.300	01/12/2017	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/12/2017	ND	448	112	400	3.64	

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	01/12/2017	ND	180	89.8	200	0.628	
DRO >C10-C28	60.4	10.0	01/12/2017	ND	188	93.8	200	0.234	

Surrogate: 1-Chlorooctane 89.5 % 35-147

Surrogate: 1-Chlorooctadecane 99.3 % 28-171

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Received:	01/12/2017	Sampling Date:	01/12/2017
Reported:	01/12/2017	Sampling Type:	Soil
Project Name:	MONTERREY FED #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 2' (H700081-03)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	01/12/2017	ND	2.07	103	2.00	1.42		
Toluene*	0.563	0.200	01/12/2017	ND	2.03	102	2.00	1.08		
Ethylbenzene*	1.19	0.200	01/12/2017	ND	2.04	102	2.00	0.415		
Total Xylenes*	8.88	0.600	01/12/2017	ND	5.77	96.2	6.00	0.616		
Total BTEX	10.6	1.20	01/12/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	16.0	16.0	01/12/2017	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	438	10.0	01/12/2017	ND	180	89.8	200	0.628	
DRO >C10-C28	2410	10.0	01/12/2017	ND	188	93.8	200	0.234	

Surrogate: 1-Chlorooctane 151 % 35-147

Surrogate: 1-Chlorooctadecane 154 % 28-171

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Reported:	01/12/2017	Sampling Type:	Soil
Project Name:	MONTERREY FED #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3' (H700081-04)

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	01/12/2017	ND	2.07	103	2.00	1.42		
Toluene*	<0.050	0.050	01/12/2017	ND	2.03	102	2.00	1.08		
Ethylbenzene*	0.050	0.050	01/12/2017	ND	2.04	102	2.00	0.415		
Total Xylenes*	0.494	0.150	01/12/2017	ND	5.77	96.2	6.00	0.616		
Total BTEX	0.544	0.300	01/12/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	32.0	16.0	01/12/2017	ND	448	112	400	3.64		

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	01/12/2017	ND	180	89.8	200	0.628	
DRO >C10-C28	96.8	10.0	01/12/2017	ND	188	93.8	200	0.234	

Surrogate: 1-Chlorooctane 99.6 % 35-147

Surrogate: 1-Chlorooctadecane 112 % 28-171

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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



Rustii

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Sheridan

Project Manager: Robert

Address: _____

City: _____ State: _____ Zip: _____

Phone #: _____ Fax #: _____

Project #: _____

Project Name: Sheridan

Project Location: Monterey Fed Bldg #1

Sampler Name: Ruben Blum

P.O. #: _____

Company: Sheridan

Attn: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone #: _____

Fax #: _____

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	PRESERV.	SAMPLING
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
H700081	SP203		9							1/24/7	7:10		
	SP102		1										
	SP102		1										
	SP103		1										

Relinquished By: _____

Relinquished By: _____

Date: 1/24/7

Time: 8:15

Received By: Robert

Received By: _____

Date: _____

Time: _____

Delivered By: (Circle One) #75 5.20

Sampler - UPS - Bus - Other: _____

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

Checked By: _____

REMARKS:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #: _____

Add'l Fax #: _____

email to: LFW@diversifiedfsi.com

in files @

in bulletin

in padlock

in drawer