

December 08, 2015

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: COTTON DRAW #181 SWD

Enclosed are the results of analyses for samples received by the laboratory on 12/02/15 8:00.

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.

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:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	12/02/2015	Sampling Date:	12/01/2015
Reported:	12/08/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW #181 SWD	Sampling Condition:	** (See Notes)
Project Number:	DEV-15-003	Sample Received By:	Jodi Henson
Project Location:	EDDY CO.		

Sample ID: TT-1 SURFACE (H503146-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/04/2015	ND	464	116	400	3.51	

Sample ID: TT-1 1' (H503146-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/04/2015	ND	464	116	400	3.51	

Sample ID: TT-2 SURFACE (H503146-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13000	16.0	12/04/2015	ND	464	116	400	3.51	

Sample ID: TT-2 1' (H503146-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/04/2015	ND	464	116	400	3.51	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	12/02/2015	Sampling Date:	12/01/2015
Reported:	12/08/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW #181 SWD	Sampling Condition:	** (See Notes)
Project Number:	DEV-15-003	Sample Received By:	Jodi Henson
Project Location:	EDDY CO.		

Sample ID: TT-2 2' (H503146-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	12/04/2015	ND	464	116	400	3.51	

Sample ID: TT-2 3' (H503146-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/04/2015	ND	464	116	400	3.51	

Sample ID: TT-3 SURFACE (H503146-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6040	16.0	12/04/2015	ND	464	116	400	3.51	

Sample ID: TT-3 1' (H503146-08)

Chloride, SM4500Cl-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	12/04/2015	ND	400	100	400	3.92	

Sample ID: TT-4 SURFACE (H503146-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	12/04/2015	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	12/02/2015	Sampling Date:	12/01/2015
Reported:	12/08/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW #181 SWD	Sampling Condition:	** (See Notes)
Project Number:	DEV-15-003	Sample Received By:	Jodi Henson
Project Location:	EDDY CO.		

Sample ID: TT-4 1' (H503146-10)

Chloride, SM4500Cl-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	12/04/2015	ND	400	100	400	3.92	

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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



Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ANALYSIS REQUEST

BILL TO

Company Name: Safety & Environmental Solutions, Inc.
 Project Manager: Bob Allen
 Address: 703 East Clinton
 City: Hobbs State: NM zip: 88240
 Phone #: 575-397-0510 Fax #: 575-393-4388
 Project #: DE-15-003 Project Owner: Debra
 Project Name: Cottonwood 181
 Project Location: Eddy Co.
 Sampler Name: Sam Perry
 Lab I.D.: Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	REMARKS	ANALYSIS REQUEST	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					ICE / COOL
H503146	TI-1	Surface	1									12/01	1030		
	TI-1	1ft	1									12/01	1035		
	TI-2	Surface	1									12/01	1100		
	TI-2	1ft	1									12/01	1115		
	TI-2	2ft	1									12/01	1130		
	TI-2	3ft	1									12/01	1150		
	TI-3	Surface	1									12/01	1205		
	TI-3	1ft	1									12/01	1215		
	TI-4	Surface	1									12/01	1230		
	TI-4	1ft	1									12/01	1245		

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Delivered By: (Circle One) UPS Bus Other: 8492

Temp. Cool Intact Yes No

Sample Condition Yes No

Checked By: [Signature]

Received By: [Signature]

Remarks: Chlorides

Terms and Conditions: Inherent will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.