

January 12, 2016

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 01/11/16 9:00.

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:	01/11/2016	Sampling Date:	01/07/2016
Reported:	01/12/2016	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 (H600045-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-1 4' (H600045-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-1 6' (H600045-03)

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	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-1 7' (H600045-04)

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	01/11/2016	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Received:	01/11/2016	Sampling Date:	01/07/2016
Reported:	01/12/2016	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 SURFACE (H600045-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-2 2' (H600045-06)

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	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-2 4' (H600045-07)

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	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-2 5' (H600045-08)

Chloride, SM4500Cl-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	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-2 7' (H600045-09)

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	01/11/2016	ND	432	108	400	3.77	

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Received:	01/11/2016	Sampling Date:	01/07/2016
Reported:	01/12/2016	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-3 SURFACE (H600045-10)

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	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-3 2' (H600045-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-3 4' (H600045-12)

Chloride, SM4500Cl-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	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-3 5' (H600045-13)

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	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-3 7' (H600045-14)

Chloride, SM4500Cl-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	01/11/2016	ND	432	108	400	3.77	

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Received:	01/11/2016	Sampling Date:	01/07/2016
Reported:	01/12/2016	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 SURFACE (H600045-15)

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	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-4 2' (H600045-16)

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	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-4 4' (H600045-17)

Chloride, SM4500Cl-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	01/11/2016	ND	432	108	400	3.77	

Sample ID: TT-4 5' (H600045-18)

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	01/11/2016	ND	448	112	400	3.64	

Sample ID: TT-4 7' (H600045-19)

Chloride, SM4500Cl-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	01/11/2016	ND	448	112	400	3.64	

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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



CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

Company Name: SEEST
 Project Manager: **Bill To** PO #:

Address: 703 E. CLINTON, #103
 City: HOBBS State: NM Zip: 88240
 Company: SAME

Phone #: (505) 397-0510
 Alt: Address: City: State: Zip:

Fax #: (505) 393-4388
 City: State: Zip:

Project #: **Del-15-003** Project Owner: **Devon**

Project Name: **Coron Detu 181** Phone #: Fax #:

Project Location: **Soss Jerry**

FOR LAB USE ONLY

LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRES.	SAMPLING	DATE	TIME
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H000045								
1	TI-1 Surface						01/07	1030
2	TI-1 4 FT						01/07	1045
3	TI-1 6 FT						01/07	1115
4	TI-1 7 FT						01/07	1200
5	TI-2 Surface						01/07	1215
6	TI-2 2 FT						01/07	1220
7	TI-2 4 FT						01/07	1230
8	TI-2 5 FT						01/07	1245
9	TI-2 7 FT						01/07	1250
10	TI-3 Surface						01/07	1300

Chloride

PLEASE NOTE: Liquids and Damages, Cardboard, Stability and other, oxidize, flammable, for any other safety hazard based on label or MSDS. This form shall be filled out by the analyst or the analyst's representative. No event shall constitute a liability for Cardinal Laboratories, Inc. for any damage to or loss of property, including without limitation, loss of data, 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 Laboratories, Inc. or its subsidiaries, affiliates or successors.

Terms and Conditions: Invoices will be charged on all accounts more than 30 days past due at the rate of 2 1/2% per annum from the original date of invoice, and all cost of collection, including attorney's fees.

Sampler Relinquished By: **Soss Jerry** Date: **01/11/06** Time: **0800**

Received By: **Wael Henderson** Date: **01/11/06** Time: **0800**

Relinquished By: **Soss Jerry** Date: **01/11/06** Time: **0800**

Received By: **Wael Henderson** Date: **01/11/06** Time: **0800**

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: **12.60**

Sample Condition: Cool Intact
 Checked By: **[Signature]**

* Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

Company Name: SEST
 Project Manager:
 Address: 703 E. CLINTON, #103
 City: HOBBS State: NM Zip: 88240
 Phone #: (505) 397-0510
 Fax #: (505) 393-4388
 Project #: 001-15-003 Project Owner: Deven
 Project Name: Cotton Draw 181
 Project Location: Boss Jerry
 FOR Lab Use Only
 LAB I.D. Sample I.D.
 Matrix: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER:
 Pres.: ACID, ICE / COOL, OTHER:
 Date: DATE
 Time: TIME

LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRES.	SAMPLING	DATE	TIME	ANALYSIS REQUEST
AB00045									
11	TI-3	20T	1	X	X	X	1310		Chloride
12	TI-3	40T	1	X	X	X	1320		
13	TI-3	50T	1	X	X	X	1330		
14	TI-3	70T	1	X	X	X	1345		
15	TI-4	Surf	1	X	X	X	1400		
16	TI-4	20T	1	X	X	X	1400		
17	TI-4	40T	1	X	X	X	1420		
18	TI-4	50T	1	X	X	X	1430		
19	TI-4	70T	1	X	X	X	1445		

Relinquished By: [Signature]
 Date: 01/11/16
 Time: 0900
 Received By: [Signature]
 Date: 12.10.12
 Time: [Blank]
 Sample Condition: Cool Intact
 Checked By: [Signature]

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other:
 Remarks:
 Terms and Conditions: [Text]
 Phone Result: Yes No
 Fax Result: Yes No
 Additional Fax #: [Blank]