

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

(Amended)

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: XTO Energy, Inc.	Contact: Kurt Hoekstra
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3100
Facility Name: Salty Dog SWD # 4	Facility Type: Gas Well (Basin Fruitland Coal)
Surface Owner: Federal	Mineral Owner
API No. 30-045-32334	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	1	30N	14W	2580	FSL	1890	FWL	San Juan

Latitude: 36.8427 Longitude: -108.2629

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 150 BBL	Volume Recovered: 20 BBL
Source of Release: 6" underground water transfer line	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 2-23-2017 @ 4:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Vanessa Fields NMOCD	
By Whom? Kurt Hoekstra XTO Energy	Date and Hour: 2-23-2017 @ 4:10 pm	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse. Approximately 150 BBL produced water	
If a Watercourse was Impacted, Describe Fully. * Approximately 150 bbls of produced water was lost from a 6" water transfer line ponding on location, before flowing off location to the east, entering a small drainage feature, and eventually entering a wash south of the location. The water traveled for approximately 1,500 feet off location, and approximately 1,000 feet in the wash.		

OIL CONS. DIV DIST. 3
APR 21 2017

Describe Cause of Problem and Remedial Action Taken: Approximately 150 bbls of produced water was lost from a 6" water transfer line ponding on location, before flowing off location to the east, entering a small drainage feature, and eventually entering a wash south of the location. The water traveled for approximately 1,500 feet off location, and approximately 1,000 feet in the wash. Vanessa Fields NMOCD was notified at 4:10 pm. 2-23-2017. The site was ranked a 20 pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases due to distance to surface water 200-1000 feet, and an estimated depth to groundwater between 50 and 100 feet, and distance to a domestic water source greater than 1,000 feet. This set the closure standards to 100 ppm TPH, 10 ppm benzene and 50 ppm total BTEX. A spill has been confirmed at this location.

Describe Area Affected and Cleanup Action Taken. *Due to a produced water leak of 150 BBLs a release has been confirmed at this location. The line was shut in immediately and the leak was stopped. A water truck was called and 20 BBLs of produced water was recovered. Repairs were made to the 6" transfer line. The sample results (attached) collected on 4-6-2017 returned results below the regulatory requirements. No further action is required.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Kurt Hoekstra</i>	OIL CONSERVATION DIVISION	
Printed Name: Kurt Hoekstra	Approved by Environmental Specialist: <i>Vanessa Fields</i>	
Title: EHS Coordinator	Approval Date: 4/24/2017	Expiration Date:
E-mail Address: Kurt.Hoekstra@xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 4-18-2017 Phone: 505-333-3100	NF1706731924	

* Attach Additional Sheets If Necessary

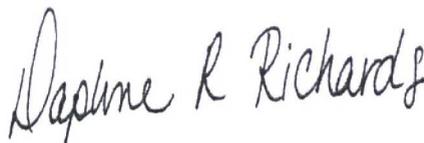
April 12, 2017

XTO Energy - San Juan Division

Sample Delivery Group: L901241
Samples Received: 04/07/2017
Project Number: SALTY DOG SWD 4
Description: Salty Dog SWD 4

Report To: James McDaniel
382 County Road 3100
Aztec, NM 87410

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

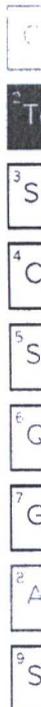
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



TABLE OF CONTENTS



¹ Cp: Cover Page	1
² Tc: Table of Contents	2
³ Ss: Sample Summary	3
⁴ Cn: Case Narrative	6
⁵ Sr: Sample Results	7
CULVERT DISCH L901241-01	7
CULVERT 100' L901241-02	8
CULVERT 200' L901241-03	9
CULVERT 300' L901241-04	10
BEG OF WASH L901241-05	11
WASH 100' L901241-06	12
WASH 200' L901241-07	13
WASH 300' L901241-08	14
WASH 400' L901241-09	15
WASH 500' L901241-10	16
WASH 600' L901241-11	17
WASH 800' L901241-12	18
WASH 900' L901241-13	19
WASH 1000' L901241-14	20
END OF SPILL L901241-15	21
⁶ Qc: Quality Control Summary	22
Total Solids by Method 2540 G-2011	22
Wet Chemistry by Method 9056A	25
⁷ Gl: Glossary of Terms	27
⁸ Al: Accreditations & Locations	28
⁹ Sc: Chain of Custody	29



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

Tc
4 Cl
5 Sr
6 Q
7 GI
8 Al
9 Sc

			Collected by Kurt Hoekstra	Collected date/time 04/06/17 09:20	Received date/time 04/07/17 09:00
CULVERT DISCH L901241-01 Solid					
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG969287	1	04/11/17 14:18	04/11/17 14:27	MLW
Net Chemistry by Method 9056A	WG968769	1	04/10/17 12:28	04/10/17 17:32	KCF

			Collected by Kurt Hoekstra	Collected date/time 04/06/17 09:22	Received date/time 04/07/17 09:00
CULVERT 100' L901241-02 Solid					
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG969287	1	04/11/17 14:18	04/11/17 14:27	MLW
Net Chemistry by Method 9056A	WG968769	1	04/10/17 12:28	04/10/17 18:03	KCF

			Collected by Kurt Hoekstra	Collected date/time 04/06/17 09:24	Received date/time 04/07/17 09:00
CULVERT 200' L901241-03 Solid					
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG969287	1	04/11/17 14:18	04/11/17 14:27	MLW
Net Chemistry by Method 9056A	WG968769	1	04/10/17 12:28	04/11/17 00:13	KCF

			Collected by Kurt Hoekstra	Collected date/time 04/06/17 09:25	Received date/time 04/07/17 09:00
CULVERT 300' L901241-04 Solid					
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG969288	1	04/11/17 14:04	04/11/17 14:13	MLW
Net Chemistry by Method 9056A	WG968769	1	04/10/17 12:28	04/10/17 18:49	KCF

			Collected by Kurt Hoekstra	Collected date/time 04/06/17 09:27	Received date/time 04/07/17 09:00
BEG OF WASH L901241-05 Solid					
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG969288	1	04/11/17 14:04	04/11/17 14:13	MLW
Net Chemistry by Method 9056A	WG968769	1	04/10/17 12:28	04/10/17 19:35	KCF

			Collected by Kurt Hoekstra	Collected date/time 04/06/17 09:30	Received date/time 04/07/17 09:00
WASH 100' L901241-06 Solid					
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG969288	1	04/11/17 14:04	04/11/17 14:13	MLW
Net Chemistry by Method 9056A	WG969122	1	04/11/17 09:38	04/11/17 16:44	KCF

			Collected by Kurt Hoekstra	Collected date/time 04/06/17 09:33	Received date/time 04/07/17 09:00
WASH 200' L901241-07 Solid					
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG969288	1	04/11/17 14:04	04/11/17 14:13	MLW
Net Chemistry by Method 9056A	WG969122	1	04/11/17 09:38	04/11/17 16:53	KCF

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

C
Tc
4 Cl
5 Sr
6 Q
7 G
8 Al
9 Sc

			Collected by Kurt Hoekstra	Collected date/time 04/06/17 09:35	Received date/time 04/07/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
WASH 300' L901241-08 Solid					
Total Solids by Method 2540 G-2011	WG969288	1	04/11/17 14:04	04/11/17 14:13	MLW
Wet Chemistry by Method 9056A	WG969122	1	04/11/17 09:38	04/11/17 17:11	KCF

			Collected by Kurt Hoekstra	Collected date/time 04/06/17 09:38	Received date/time 04/07/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
WASH 400' L901241-09 Solid					
Total Solids by Method 2540 G-2011	WG969288	1	04/11/17 14:04	04/11/17 14:13	MLW
Wet Chemistry by Method 9056A	WG969122	1	04/11/17 09:38	04/11/17 17:38	KCF

			Collected by Kurt Hoekstra	Collected date/time 04/06/17 09:40	Received date/time 04/07/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
WASH 500' L901241-10 Solid					
Total Solids by Method 2540 G-2011	WG969288	1	04/11/17 14:04	04/11/17 14:13	MLW
Wet Chemistry by Method 9056A	WG969122	1	04/11/17 09:38	04/11/17 18:05	KCF

			Collected by Kurt Hoekstra	Collected date/time 04/06/17 09:45	Received date/time 04/07/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
WASH 600' L901241-11 Solid					
Total Solids by Method 2540 G-2011	WG969288	1	04/11/17 14:04	04/11/17 14:13	MLW
Wet Chemistry by Method 9056A	WG969122	1	04/11/17 09:38	04/11/17 18:14	KCF

			Collected by Kurt Hoekstra	Collected date/time 04/06/17 09:47	Received date/time 04/07/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
WASH 800' L901241-12 Solid					
Total Solids by Method 2540 G-2011	WG969288	1	04/11/17 14:04	04/11/17 14:13	MLW
Wet Chemistry by Method 9056A	WG969122	1	04/11/17 09:38	04/11/17 18:23	KCF

			Collected by Kurt Hoekstra	Collected date/time 04/06/17 09:50	Received date/time 04/07/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
WASH 900' L901241-13 Solid					
Total Solids by Method 2540 G-2011	WG969288	1	04/11/17 14:04	04/11/17 14:13	MLW
Wet Chemistry by Method 9056A	WG969122	1	04/11/17 09:38	04/11/17 18:32	KCF

			Collected by Kurt Hoekstra	Collected date/time 04/06/17 09:52	Received date/time 04/07/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
WASH 1000' L901241-14 Solid					
Total Solids by Method 2540 G-2011	WG969289	1	04/11/17 13:30	04/11/17 13:48	MLW
Wet Chemistry by Method 9056A	WG969122	1	04/11/17 09:38	04/11/17 18:41	KCF

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



END OF SPILL L901241-15 Solid

Collected by
Kurt Hoekstra

Collected date/time
04/06/17 09:55

Received date/time
04/07/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG969289	1	04/11/17 13:30	04/11/17 13:48	MLW
Wet Chemistry by Method 9056A	WG969122	1	04/11/17 09:38	04/11/17 18:50	KCF

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

4
Cl

5
Sr

6
Q

7
G

8
Al

9
Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative

1
2
3 Sc
4
5 Sr
6 Q
7 GI
8 AI
9 Sc



Collected date/time: 04/06/17 09:20

L901241

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.9		1	04/11/2017 14:27	<u>WG969287</u>

Met Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	58.6		11.8	1	04/10/2017 17:32	<u>WG968769</u>

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9



Collected date/time: 04/06/17 09:22

L901241

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.0		1	04/11/2017 14:27	WG969287

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	359		11.2	1	04/10/2017 18:03	WG968769

1

2

3

4

5

6

7

8



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.3		1	04/11/2017 14:27	<u>WG969287</u>

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	80.5		11.9	1	04/11/2017 00:13	<u>WG968769</u>

1

2

3

4

5

6

7

8



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.6		1	04/11/2017 14:13	<u>WG969288</u>

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	109		12.0	1	04/10/2017 18:49	<u>WG968769</u>

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9



Collected date/time: 04/06/17 09:27

L901241

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.1		1	04/11/2017 14:13	<u>WG969288</u>

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	96.2		11.7	1	04/10/2017 19:35	<u>WG968769</u>

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9



Collect'd date/time: 04/06/17 09:30

L901241

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.6		1	04/11/2017 14:13	<u>WG969288</u>

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	53.1		11.4	1	04/11/2017 16:44	<u>WG969122</u>

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.2		1	04/11/2017 14:13	<u>WG969288</u>

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	59.8		11.5	1	04/11/2017 16:53	<u>WG969122</u>





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.1		1	04/11/2017 14:13	<u>WG969288</u>

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	70.7		11.9	1	04/11/2017 17:11	<u>WG969122</u>

1

2

3

4

5

6

7

8



Collected date/time: 04/06/17 09:38

L901241

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.3		1	04/11/2017 14:13	<u>WG969288</u>

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	63.4		11.9	1	04/11/2017 17:38	<u>WG969122</u>

1
2
3
4
5
6
7
8
9



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.1		1	04/11/2017 14:13	<u>WG969288</u>

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	58.8		11.7	1	04/11/2017 18:05	<u>WG969122</u>

1
2
3
4
5
6
7
8
9



Collected date/time: 04/06/17 09:45

L901241

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.1		1	04/11/2017 14:13	<u>WG969288</u>

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	71.5		11.8	1	04/11/2017 18:14	<u>WG969122</u>

1

2 To

3 Sc

4 Cl

5 Q

7 GI

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.4		1	04/11/2017 14:13	<u>WG969288</u>

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	54.0		11.3	1	04/11/2017 18:23	<u>WG969122</u>

C

T

3 S

4 C

6 Q

7 G

8 A

9 S



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.4		1	04/11/2017 14:13	<u>WG969288</u>

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	56.0		11.4	1	04/11/2017 18:32	<u>WG969122</u>

1
2
3
4
5
6
7
8
9



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.8		1	04/11/2017 13:48	<u>WG969289</u>

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	52.7		11.4	1	04/11/2017 18:41	<u>WG969122</u>

1
2
3
4
5
6
7
8
9



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.2		1	04/11/2017 13:48	<u>WG969289</u>

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	56.6		11.5	1	04/11/2017 18:50	<u>WG969122</u>

- 1
- 2 T
- 3 S
- 4 C
- 5
- 6 Q
- 7 G
- 8 A
- 9 S

WG969287

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

L901241-01,02,03

Method Blank (MB)

(MB) R3210133-1 04/11/17 14:27

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Total Solids	0.000100			

L901241-03 Original Sample (OS) • Duplicate (DUP)

(OS) L901241-03 04/11/17 14:27 • (DUP) R3210133-3 04/11/17 14:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Total Solids	84.3	84.0	1	0.336		5

Laboratory Control Sample (LCS)

(LCS) R3210133-2 04/11/17 14:27

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	85.0-115	

ACCOUNT:
XTO Energy - San Juan Division

PROJECT:
SALTY DOG SWD 4

SDG:
L901241

DATE/T
04/12/17

WG969288

QUALITY CONTROL SUMMARY

Total Solids by Method 2540 G-2011

L901241-04,05,06,07,08,09,10,11,12,13

Method Blank (MB)

(MB) R3210073-1 04/11/17 14:13

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Total Solids	0.000400			

L901241-04 Original Sample (OS) • Duplicate (DUP)

(OS) L901241-04 04/11/17 14:13 • (DUP) R3210073-3 04/11/17 14:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Total Solids	83.6	83.4	1	0.255		5

Laboratory Control Sample (LCS)

(LCS) R3210073-2 04/11/17 14:13

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	85.0-115	

ACCOUNT:
XTO Energy - San Juan Division

PROJECT:
SALTY DOG SWD 4

SDG:
L901241

DATE/T
04/12/17

WG969289

QUALITY CONTROL SUMMARY

Total Solids by Method 2540 G-2011

L901241-14,15

Method Blank (MB)

(MB) R3210067-1 04/11/17 13:48

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
	%		%	%
Total Solids	0.00110			

L901241-14 Original Sample (OS) • Duplicate (DUP)

(OS) L901241-14 04/11/17 13:48 • (DUP) R3210067-3 04/11/17 13:48

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
	%	%		%		%
Total Solids	87.8	87.4	1	0.487		5

Laboratory Control Sample (LCS)

(LCS) R3210067-2 04/11/17 13:48

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

ACCOUNT:
XTO Energy - San Juan Division

PROJECT:
SALTY DOG SWD 4

SDG:
L901241

DATE/T
04/12/17

Method Blank (MB)

(MB) R3209754-4 04/10/17 17:16

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		0.795	10.0

L901241-01 Original Sample (OS) • Duplicate (DUP)

(OS) L901241-01 04/10/17 17:32 • (DUP) R3209754-5 04/10/17 17:47

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	58.6	62.1	1	6		15

L901241-03 Original Sample (OS) • Duplicate (DUP)

(OS) L901241-03 04/11/17 00:13 • (DUP) R3209754-8 04/11/17 00:28

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	80.5	87.2	1	8		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3209754-2 04/10/17 16:15 • (LCSD) R3209754-3 04/10/17 16:30

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chloride	200	203	204	101	102	80-120			1	15

L901241-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L901241-02 04/10/17 18:03 • (MS) R3209754-6 04/10/17 18:18 • (MSD) R3209754-7 04/10/17 18:34

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%		
Chloride	562	359	981	979	111	110	1	80-120		

ACCOUNT:
XTO Energy - San Juan Division

PROJECT:
SALTY DOG SWD 4

SDG:
L901241

DATE/T
04/12/17

Method Blank (MB)

(MB) R3210065-2 04/11/17 12:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	4.53	J	0.795	10.0

L901241-07 Original Sample (OS) • Duplicate (DUP)

(OS) L901241-07 04/11/17 16:53 • (DUP) R3210065-5 04/11/17 17:02

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	59.8	62.5	1	4		15

L901241-15 Original Sample (OS) • Duplicate (DUP)

(OS) L901241-15 04/11/17 18:50 • (DUP) R3210065-8 04/11/17 18:59

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	56.6	54.2	1	4		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3210065-3 04/11/17 12:22 • (LCSD) R3210065-4 04/11/17 12:31

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	200	198	202	99	101	80-120			2	15

L901241-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L901241-08 04/11/17 17:11 • (MS) R3210065-6 04/11/17 17:20 • (MSD) R3210065-7 04/11/17 17:29

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier
Chloride	594	70.7	670	675	101	102	1	80-120		

ACCOUNT:
XTO Energy - San Juan Division

PROJECT:
SALTY DOG SWD 4

SDG:
L901241

DATE/T
04/12/17



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
---	---

1

2

3

4

5

6

7

8



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.
 * Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey-NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio-VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ^{1,4}	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

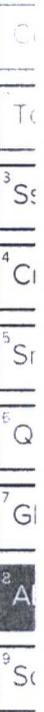
Third Party & Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA - ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**





Quote Number

Page ___ of ___

XTO Contact
KURT

XTO Contact Phone #
505-486-9543

Email Results to:

JAMES, KURT LOGAN

Well Site/Location

SALTY DOG SWD #4

API Number

30-045-32334

Saturday Delivery (Y/N)

Collected By

KURT

Samples on Ice

(V) N

Turnaround

Standard

Next Day

Two Day

Three Day

Same Day

Company

XTO

Test Reason

SPILL

Signature

Kurt Logan

Gray Areas for Lab Use Only!

Date Needed _____

Analysis/Cont

CHLORIDE

Sample ID	Sample Name	Media	Date	Time	Preservative	No. of Conts.
SALTY DOG #4	CONVERT DISCH	S	4/6	9:20	ON ICE (1) for Jar	X
	CONVERT 100'			9:22		X
	CONVERT 200'			9:24		X
	CONVERT 300'			9:25		X
	BEG OF WASH			9:27		X
	WASH 100'			9:30		X
	WASH 200'			9:33		X
	WASH 300'			9:35		X
	WASH 400'			9:38		X
	WASH 500'			9:40		X
	WASH 600'			9:45		X
	WASH 800'			9:47		X
	WASH 900'			9:50		X

Media: Filter = F Soil = S Wastewater = WW Groundwater = GW Drinking Water = DW Sludge = SG Surface Water = SW Air = A Drill Mud = M

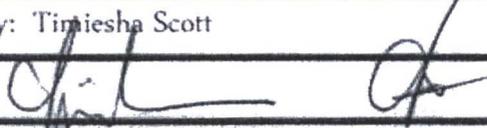
Relinquished By: (Signature) <i>Kurt Logan</i>	Date: 4-6-17	Time: 2:30	Received By: (Signature)
Relinquished By: (Signature)	Date:	Time:	
Relinquished By: (Signature)	Date:	Time:	Received for Lab by: (Signature) <i>[Signature]</i>

Comments

TRK # 6127 6739 4104

* Sample ID will be the office and sampler-date-military time FARJM-MMDDYY-1200

ESC LAB SCIENCES Cooler Receipt Form

Client: XTORN M	SDG#	19	
Cooler Received/Opened On: 4/7/17	Temperature:	2.4	
Received By: Timiesha Scott			
Signature: 			
Receipt Check List		NP	Yes
COC Seal Present / Intact?			
COC Signed / Accurate?			
Bottles arrive intact?			
Correct bottles used?			
Sufficient volume sent?			
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			