



Lab Report Compilation for:

2RP-3980

XTO Poker Lake Unit 078

August 10, 2018

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## **APPENDIX I.1**

### **Delineation – Borehole 1**



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

---

December 12, 2017

STAN MICKLE

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: PLU 078

Enclosed are the results of analyses for samples received by the laboratory on 12/06/17 14:30.

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](http://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,

A handwritten signature in blue ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 1.1' (H703366-01)**

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	12/07/2017	ND	1.77	88.6	2.00	0.109	
Toluene*	<0.050	0.050	12/07/2017	ND	1.74	86.9	2.00	0.0159	
Ethylbenzene*	<0.050	0.050	12/07/2017	ND	1.71	85.7	2.00	0.191	
Total Xylenes*	<0.150	0.150	12/07/2017	ND	5.31	88.5	6.00	0.206	
Total BTEX	<0.300	0.300	12/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	12/08/2017	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	12/11/2017	ND	204	102	200	2.25	
DRO >C10-C28	593	10.0	12/11/2017	ND	217	108	200	1.15	
EXT DRO >C28-C36	127	10.0	12/11/2017	ND					

Surrogate: 1-Chlorooctane 85.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 85.4 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 1.2' (H703366-02)**

BTX 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	12/07/2017	ND	1.77	88.6	2.00	0.109	
Toluene*	<0.050	0.050	12/07/2017	ND	1.74	86.9	2.00	0.0159	
Ethylbenzene*	<0.050	0.050	12/07/2017	ND	1.71	85.7	2.00	0.191	
Total Xylenes*	<0.150	0.150	12/07/2017	ND	5.31	88.5	6.00	0.206	
Total BTX	<0.300	0.300	12/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	12/08/2017	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	12/11/2017	ND	204	102	200	2.25	
DRO >C10-C28	967	10.0	12/11/2017	ND	217	108	200	1.15	
EXT DRO >C28-C36	140	10.0	12/11/2017	ND					

Surrogate: 1-Chlorooctane 95.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 112 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 1.3' (H703366-03)**

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	12/07/2017	ND	1.77	88.6	2.00	0.109	
Toluene*	<0.050	0.050	12/07/2017	ND	1.74	86.9	2.00	0.0159	
Ethylbenzene*	<0.050	0.050	12/07/2017	ND	1.71	85.7	2.00	0.191	
Total Xylenes*	<0.150	0.150	12/07/2017	ND	5.31	88.5	6.00	0.206	
Total BTEX	<0.300	0.300	12/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	12/08/2017	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	12/11/2017	ND	204	102	200	2.25	
DRO >C10-C28	864	10.0	12/11/2017	ND	217	108	200	1.15	
EXT DRO >C28-C36	168	10.0	12/11/2017	ND					

Surrogate: 1-Chlorooctane 94.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 107 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 1.4'-6' (H703366-04)**

BTX 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	12/07/2017	ND	1.77	88.6	2.00	0.109		
Toluene*	<0.050	0.050	12/07/2017	ND	1.74	86.9	2.00	0.0159		
Ethylbenzene*	<0.050	0.050	12/07/2017	ND	1.71	85.7	2.00	0.191		
Total Xylenes*	<0.150	0.150	12/07/2017	ND	5.31	88.5	6.00	0.206		
Total BTX	<0.300	0.300	12/07/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 72-148

Chloride, SM4500CI-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	12/08/2017	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	12/11/2017	ND	204	102	200	2.25	
DRO >C10-C28	<10.0	10.0	12/11/2017	ND	217	108	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	12/11/2017	ND					

Surrogate: 1-Chlorooctane 93.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 90.2 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 1.9'-11' (H703366-05)**

BTX 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	12/07/2017	ND	1.77	88.6	2.00	0.109	
Toluene*	<0.050	0.050	12/07/2017	ND	1.74	86.9	2.00	0.0159	
Ethylbenzene*	<0.050	0.050	12/07/2017	ND	1.71	85.7	2.00	0.191	
Total Xylenes*	<0.150	0.150	12/07/2017	ND	5.31	88.5	6.00	0.206	
Total BTX	<0.300	0.300	12/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 72-148

Chloride, SM4500CI-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	12/08/2017	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	12/11/2017	ND	204	102	200	2.25	
DRO >C10-C28	<10.0	10.0	12/11/2017	ND	217	108	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	12/11/2017	ND					

Surrogate: 1-Chlorooctane 85.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.4 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 1.19' - 21' (H703366-06)**

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	12/07/2017	ND	1.77	88.6	2.00	0.109		
Toluene*	<0.050	0.050	12/07/2017	ND	1.74	86.9	2.00	0.0159		
Ethylbenzene*	<0.050	0.050	12/07/2017	ND	1.71	85.7	2.00	0.191		
Total Xylenes*	<0.150	0.150	12/07/2017	ND	5.31	88.5	6.00	0.206		
Total BTEX	<0.300	0.300	12/07/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	12/08/2017	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	12/11/2017	ND	204	102	200	2.25	
DRO >C10-C28	<10.0	10.0	12/11/2017	ND	217	108	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	12/11/2017	ND					

Surrogate: 1-Chlorooctane 93.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 90.6 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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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

---

Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



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

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## **APPENDIX I.2**

### **Delineation – Borehole 2**



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

---

December 12, 2017

STAN MICKLE

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: PLU 078

Enclosed are the results of analyses for samples received by the laboratory on 12/06/17 14:30.

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](http://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:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 2. 1' (H703367-01)**

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	12/08/2017	ND	1.92	95.8	2.00	0.0880	
Toluene*	<0.050	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744	
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24	
Total Xylenes*	<0.150	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45	
Total BTEX	<0.300	0.300	12/08/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	12/08/2017	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	12/11/2017	ND	204	102	200	2.25	
DRO >C10-C28	923	10.0	12/11/2017	ND	217	108	200	1.15	
EXT DRO >C28-C36	177	10.0	12/11/2017	ND					

Surrogate: 1-Chlorooctane 91.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 105 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 2. 2' (H703367-02)**

BTX 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	12/08/2017	ND	1.92	95.8	2.00	0.0880	
Toluene*	<0.050	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744	
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24	
Total Xylenes*	<0.150	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45	
Total BTX	<0.300	0.300	12/08/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	12/08/2017	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	12/11/2017	ND	204	102	200	2.25	
DRO >C10-C28	155	10.0	12/11/2017	ND	217	108	200	1.15	
EXT DRO >C28-C36	23.0	10.0	12/11/2017	ND					

Surrogate: 1-Chlorooctane 96.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 101 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 2. 3' (H703367-03)**

BTX 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	12/08/2017	ND	1.92	95.8	2.00	0.0880	
Toluene*	<0.050	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744	
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24	
Total Xylenes*	<0.150	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45	
Total BTX	<0.300	0.300	12/08/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	12/08/2017	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	12/11/2017	ND	204	102	200	2.25	
DRO >C10-C28	<10.0	10.0	12/11/2017	ND	217	108	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	12/11/2017	ND					

Surrogate: 1-Chlorooctane 93.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.7 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 2. 4'- 6' (H703367-04)**

BTX 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	12/08/2017	ND	1.92	95.8	2.00	0.0880		
Toluene*	<0.050	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744		
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24		
Total Xylenes*	<0.150	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45		
Total BTX	<0.300	0.300	12/08/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8260	16.0	12/08/2017	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	12/11/2017	ND	204	102	200	2.25	
DRO >C10-C28	<10.0	10.0	12/11/2017	ND	217	108	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	12/11/2017	ND					

Surrogate: 1-Chlorooctane 93.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.5 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
STAN MICKLE  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 12/06/2017  
Reported: 12/12/2017  
Project Name: PLU 078  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 12/05/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 2. 9' - 11' (H703367-05)**

BTX 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	12/08/2017	ND	1.92	95.8	2.00	0.0880	
Toluene*	<0.050	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744	
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24	
Total Xylenes*	<0.150	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45	
Total BTX	<0.300	0.300	12/08/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8260	16.0	12/08/2017	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	12/11/2017	ND	204	102	200	2.25	
DRO >C10-C28	<10.0	10.0	12/11/2017	ND	217	108	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	12/11/2017	ND					

Surrogate: 1-Chlorooctane 88.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 84.7 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

### Analytical Results For:

RX-SOIL INC.  
STAN MICKLE  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 12/06/2017  
Reported: 12/12/2017  
Project Name: PLU 078  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 12/05/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

### Sample ID: 078 BH 2. 19' -21' (H703367-06)

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	12/08/2017	ND	1.92	95.8	2.00	0.0880		
Toluene*	<0.050	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744		
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24		
Total Xylenes*	<0.150	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45		
Total BTEx	<0.300	0.300	12/08/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/08/2017	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	12/11/2017	ND	204	102	200	2.25	
DRO >C10-C28	<10.0	10.0	12/11/2017	ND	217	108	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	12/11/2017	ND					

Surrogate: 1-Chlorooctane 90.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.8 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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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

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\*=Accredited Analyte

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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

<b>Company Name:</b> <u>RSOL</u> <b>Project Manager:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b> <b>Project #:</b> <b>Project Name:</b> <u>PLU 078</u> <b>Project Location:</b> <b>Sample Name:</b> <u>STAN MICKLE</u> <small>FOR LAB USE ONLY</small>		<b>P.O. #:</b> <b>Company:</b> <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>	
<b>Lab I.D.</b> <u>H70367</u> <u>078 BH 2.1</u> <u>078 BH 2.2</u> <u>078 BH 2.3</u> <u>078 BH 2.4</u> <u>078 BH 2.4-1</u> <u>078 BH 2.4-2</u>		<b>BILL TO</b> <b>ANALYSIS REQUEST</b>	
<b>Sample I.D.</b> <b>(G)RAB OR (C)OMP.</b> <b># CONTAINERS</b> <b>GROUNDWATER</b> <b>WASTEWATER</b> <b>SOIL</b> <b>OIL</b> <b>SLUDGE</b> <b>OTHER:</b> <b>ACID/BASE:</b> <b>ICE / COOL</b> <b>OTHER:</b>		<b>MATRIX</b> <b>PRESERV.</b> <b>SAMPLING</b>	
<b>DATE</b> <u>12/05</u> <b>TIME</b> <u>13:00</u> <b>CHLORIDES</b> <b>TPH EXT</b> <u>Added 12-7-17 T.O.</u> <b>BTEX</b> <u>Added 12-7-17 T.O.</u>			
<b>Relinquished By:</b> <u>[Signature]</u> <b>Date:</b> <u>12-4-17</u> <b>Time:</b> <u>14:30</u> <b>Received By:</b> <u>[Signature]</u> <b>Date:</b> <u>12-4-17</u> <b>Time:</b>		<b>Sample Condition</b> <b>Cool</b> <input checked="" type="checkbox"/> <b>Intact</b> <input checked="" type="checkbox"/> <b>Yes</b> <input checked="" type="checkbox"/> <b>No</b> <input type="checkbox"/> <b>Checked By:</b> <u>[Signature]</u> <b>Initials:</b> <u>TS</u>	
<b>Delivered By: (Circle One)</b> <u>4.4</u> <b>Sampler - UPS - Bus - Other:</b> <u>Inspected 4.15</u>		<b>REMARKS:</b> <b>Phone Result:</b> <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b> <b>Add'l Phone #:</b> <b>Fax Result:</b> <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b> <b>Add'l Fax #:</b>	

## **APPENDIX I.3**

### **Delineation – Borehole 2 addition**



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

---

December 21, 2017

STAN MICKLE

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: PLU 078

Enclosed are the results of analyses for samples received by the laboratory on 12/19/17 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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](http://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,

A handwritten signature in blue ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

RX-SOIL INC.  
STAN MICKLE  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 12/19/2017  
Reported: 12/21/2017  
Project Name: PLU 078  
Project Number: XTO  
Project Location: NOT GIVEN

Sampling Date: 12/05/2017  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 2.9'-11' (H703510-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	12/21/2017	ND	432	108	400	3.77		

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

---

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



---

Celey D. Keene, Lab Director/Quality Manager



## **APPENDIX I.4**

### **Delineation – Borehole 3**



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

---

December 12, 2017

STAN MICKLE

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: PLU 078

Enclosed are the results of analyses for samples received by the laboratory on 12/06/17 14:30.

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](http://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,

A handwritten signature in blue ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 3.1' (H703368-01)**

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	12/08/2017	ND	1.92	95.8	2.00	0.0880	
Toluene*	<0.050	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744	
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24	
Total Xylenes*	<0.150	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45	
Total BTEX	<0.300	0.300	12/08/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3880	16.0	12/08/2017	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	12/11/2017	ND	204	102	200	2.25	
DRO >C10-C28	2180	10.0	12/11/2017	ND	217	108	200	1.15	
EXT DRO >C28-C36	349	10.0	12/11/2017	ND					

Surrogate: 1-Chlorooctane 76.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 99.2 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 3.2' (H703368-02)**

BTX 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	12/08/2017	ND	1.92	95.8	2.00	0.0880		
Toluene*	<0.050	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744		
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24		
Total Xylenes*	<0.150	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45		
Total BTX	<0.300	0.300	12/08/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5760	16.0	12/08/2017	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	12/11/2017	ND	204	102	200	2.25	
DRO >C10-C28	1740	10.0	12/11/2017	ND	217	108	200	1.15	
EXT DRO >C28-C36	293	10.0	12/11/2017	ND					

Surrogate: 1-Chlorooctane 98.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 117 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RX-SOIL INC.  
STAN MICKLE  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 12/06/2017  
Reported: 12/12/2017  
Project Name: PLU 078  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 12/05/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 3.3' (H703368-03)**

BTX 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	12/08/2017	ND	1.92	95.8	2.00	0.0880		
Toluene*	<0.050	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744		
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24		
Total Xylenes*	<0.150	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45		
Total BTX	<0.300	0.300	12/08/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7200	16.0	12/08/2017	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	12/11/2017	ND	204	102	200	2.25	
DRO >C10-C28	1130	10.0	12/11/2017	ND	217	108	200	1.15	
EXT DRO >C28-C36	197	10.0	12/11/2017	ND					

Surrogate: 1-Chlorooctane 90.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 105 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 3.4' - 6' (H703368-04)**

BTX 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	12/08/2017	ND	1.92	95.8	2.00	0.0880		
Toluene*	<0.050	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744		
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24		
Total Xylenes*	<0.150	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45		
Total BTX	<0.300	0.300	12/08/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5120	16.0	12/08/2017	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	12/11/2017	ND	204	102	200	2.25	
DRO >C10-C28	11.4	10.0	12/11/2017	ND	217	108	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	12/11/2017	ND					

Surrogate: 1-Chlorooctane 81.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 81.4 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 3.9' - 11' (H703368-05)**

BTX 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	12/08/2017	ND	1.92	95.8	2.00	0.0880		
Toluene*	<0.050	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744		
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24		
Total Xylenes*	<0.150	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45		
Total BTX	<0.300	0.300	12/08/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/08/2017	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	12/11/2017	ND	204	102	200	2.25	
DRO >C10-C28	<10.0	10.0	12/11/2017	ND	217	108	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	12/11/2017	ND					

Surrogate: 1-Chlorooctane 87.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 83.6 % 34.7-157

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 3.19' - 21' (H703368-06)**

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	12/08/2017	ND	1.92	95.8	2.00	0.0880		
Toluene*	<0.050	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744		
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24		
Total Xylenes*	<0.150	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45		
Total BTEx	<0.300	0.300	12/08/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	12/08/2017	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	12/11/2017	ND	204	102	200	2.25	
DRO >C10-C28	<10.0	10.0	12/11/2017	ND	217	108	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	12/11/2017	ND					

Surrogate: 1-Chlorooctane 84.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 83.3 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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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

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Celey D. Keene, Lab Director/Quality Manager



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

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## **APPENDIX I.5**

### **Delineation – Borehole 4**



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

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December 12, 2017

STAN MICKLE

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: PLU 078

Enclosed are the results of analyses for samples received by the laboratory on 12/06/17 14:30.

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](http://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



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

### Analytical Results For:

RX-SOIL INC.  
STAN MICKLE  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 12/06/2017  
Reported: 12/12/2017  
Project Name: PLU 078  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 12/05/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

### Sample ID: 078 BH 4.1' (H703369-01)

BTX 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	12/08/2017	ND	1.92	95.8	2.00	0.0880	
Toluene*	<0.050	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744	
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24	
<b>Total Xylenes*</b>	<b>0.268</b>	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45	
Total BTX	<0.300	0.300	12/08/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1410</b>	16.0	12/08/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>59.2</b>	50.0	12/11/2017	ND	204	102	200	2.25		
<b>DRO &gt;C10-C28</b>	<b>3780</b>	50.0	12/11/2017	ND	217	108	200	1.15		
<b>EXT DRO &gt;C28-C36</b>	<b>647</b>	50.0	12/11/2017	ND						

Surrogate: 1-Chlorooctane 109 % 28.3-164

Surrogate: 1-Chlorooctadecane 159 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

### Analytical Results For:

RX-SOIL INC.  
STAN MICKLE  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 12/06/2017  
Reported: 12/12/2017  
Project Name: PLU 078  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 12/05/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

### Sample ID: 078 BH 4.2' (H703369-02)

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	12/08/2017	ND	1.92	95.8	2.00	0.0880		
Toluene*	<0.050	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744		
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24		
Total Xylenes*	0.307	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45		
Total BTEX	0.307	0.300	12/08/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	12/08/2017	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	138	10.0	12/09/2017	ND	199	99.3	200	4.49	
DRO >C10-C28	3290	10.0	12/09/2017	ND	206	103	200	15.0	QM-07
EXT DRO >C28-C36	617	10.0	12/09/2017	ND					

Surrogate: 1-Chlorooctane 109 % 28.3-164

Surrogate: 1-Chlorooctadecane 135 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 4.3' (H703369-03)**

BTX 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	12/08/2017	ND	1.92	95.8	2.00	0.0880	
Toluene*	<0.050	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744	
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24	
Total Xylenes*	<0.150	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45	
Total BTX	<0.300	0.300	12/08/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	12/08/2017	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	34.8	10.0	12/09/2017	ND	199	99.3	200	4.49	
DRO >C10-C28	1290	10.0	12/09/2017	ND	206	103	200	15.0	
EXT DRO >C28-C36	303	10.0	12/09/2017	ND					

Surrogate: 1-Chlorooctane 106 % 28.3-164

Surrogate: 1-Chlorooctadecane 145 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 4.4' - 6' (H703369-04)**

BTX 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	12/08/2017	ND	1.92	95.8	2.00	0.0880		
Toluene*	<0.050	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744		
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24		
Total Xylenes*	<0.150	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45		
Total BTX	<0.300	0.300	12/08/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/08/2017	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	12/09/2017	ND	199	99.3	200	4.49	
DRO >C10-C28	<10.0	10.0	12/09/2017	ND	206	103	200	15.0	
EXT DRO >C28-C36	14.0	10.0	12/09/2017	ND					

Surrogate: 1-Chlorooctane 93.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.5 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 4.9' - 11' (H703369-05)**

BTX 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	12/08/2017	ND	1.92	95.8	2.00	0.0880		
Toluene*	<0.050	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744		
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24		
Total Xylenes*	<0.150	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45		
Total BTX	<0.300	0.300	12/08/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 72-148

Chloride, SM4500CI-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	12/08/2017	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	12/09/2017	ND	199	99.3	200	4.49	
DRO >C10-C28	<10.0	10.0	12/09/2017	ND	206	103	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	12/09/2017	ND					

Surrogate: 1-Chlorooctane 91.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.0 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 078 BH 4.19' - 21' (H703369-06)**

BTX 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	12/08/2017	ND	1.92	95.8	2.00	0.0880		
Toluene*	<0.050	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744		
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24		
Total Xylenes*	<0.150	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45		
Total BTX	<0.300	0.300	12/08/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	12/08/2017	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	12/09/2017	ND	199	99.3	200	4.49	
DRO >C10-C28	<10.0	10.0	12/09/2017	ND	206	103	200	15.0	
EXT DRO >C28-C36	<10.0	10.0	12/09/2017	ND					

Surrogate: 1-Chlorooctane 93.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.6 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>RX501L</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																																			
Project Manager: <b>STAN MCKE</b>		P.O. #:																																					
Address:		Company:																																					
City:		Attn:																																					
State:		Address:																																					
Zip:		City:																																					
Phone #:		State:																																					
Fax #:		Zip:																																					
Project #:		Project Owner:																																					
Project Name: <b>PLU 078</b>		City:																																					
Project Location:		State:																																					
Sample Name: <b>STAN MCKE</b>		Phone #:																																					
FOR LAB USE ONLY		Fax #:																																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME											
1		078 BH 4.1'																								12/05		12:00											
2		078 BH 4.2'																																					
3		078 BH 4.3'																																					
4		078 BH 4.4-5'																																					
5		078 BH 4.9-11'																																					
6		078 BH 4.14-21'																																					
H708365																																							
Relinquished By: <b>[Signature]</b>		Date: <b>12-4-17</b>		Received By: <b>[Signature]</b>		Date: <b>12-4-17</b>		Time: <b>14:30</b>		Revised By: <b>[Signature]</b>		Time: <b>14:30</b>		Sample Condition		Cool		Intact		Checked By: <b>[Signature]</b>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:											
Delivered By: (Circle One) <b>4.48</b>		Sampler - UPS - Bus - Other: <b>4.48</b>		Sample Condition		Cool		Intact		Checked By: <b>[Signature]</b>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:																					

## **APPENDIX I.6**

### **Delineation – Piles**





December 12, 2017

STAN MICKLE

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: PLU 078

Enclosed are the results of analyses for samples received by the laboratory on 12/06/17 14:30.

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](http://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:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PILE #1 (H703370-01)**

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	12/08/2017	ND	1.92	95.8	2.00	0.0880	
<b>Toluene*</b>	<b>0.120</b>	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744	
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24	
Total Xylenes*	<0.150	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45	
Total BTEX	<0.300	0.300	12/08/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 148 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	12/08/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	268	50.0	12/09/2017	ND	199	99.3	200	4.49	
DRO >C10-C28	11100	50.0	12/09/2017	ND	206	103	200	15.0	
EXT DRO >C28-C36	1980	50.0	12/09/2017	ND					

Surrogate: 1-Chlorooctane 142 % 28.3-164

Surrogate: 1-Chlorooctadecane 271 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PILE #2 (H703370-02)**

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	12/08/2017	ND	1.92	95.8	2.00	0.0880	
Toluene*	0.084	0.050	12/08/2017	ND	1.88	93.8	2.00	0.744	
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	1.80	89.8	2.00	1.24	
Total Xylenes*	<0.150	0.150	12/08/2017	ND	5.54	92.4	6.00	1.45	
Total BTEX	<0.300	0.300	12/08/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 138 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4530	16.0	12/08/2017	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	213	50.0	12/09/2017	ND	199	99.3	200	4.49	
DRO >C10-C28	11600	50.0	12/09/2017	ND	206	103	200	15.0	
EXT DRO >C28-C36	2360	50.0	12/09/2017	ND					

Surrogate: 1-Chlorooctane 119 % 28.3-164

Surrogate: 1-Chlorooctadecane 262 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 12/06/2017  
 Reported: 12/12/2017  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FLAME PILE #3 (H703370-03)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/08/2017	ND	2.02	101	2.00	3.33	
Toluene*	<0.050	0.050	12/08/2017	ND	2.06	103	2.00	3.59	
Ethylbenzene*	<0.050	0.050	12/08/2017	ND	2.08	104	2.00	3.33	
Total Xylenes*	1.18	0.150	12/08/2017	ND	6.03	100	6.00	3.66	
Total BTX	1.18	0.300	12/08/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 157 % 72-148

Chloride, SM4500CI-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4880</b>	16.0	12/08/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	137	50.0	12/09/2017	ND	199	99.3	200	4.49	
DRO >C10-C28	2420	50.0	12/09/2017	ND	206	103	200	15.0	
EXT DRO >C28-C36	695	50.0	12/09/2017	ND					

Surrogate: 1-Chlorooctane 131 % 28.3-164

Surrogate: 1-Chlorooctadecane 188 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>RXSOIL</b> Project Manager: <b>STAN WICKLE</b> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <b>PLU 078</b> Project Location: _____ Sampler Name: <b>STAN WICKLE</b> FOR LAB USE ONLY				<b>BILL TO</b> P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____				<b>ANALYSIS REQUEST</b>									
Lab I.D. <b>H70370</b> Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX PRESERV		SAMPLING DATE TIME		CHLORIDES TPH <b>Added Ext 12/7 T.O.</b> BTEX									
1 PILE #1 2 PILE #2 3 FLAME PILE #3		12/05 14:00		X X X		X X X											
Relinquished By: <i>[Signature]</i> Date: <b>12-4-17</b> Time: <b>14:30</b>		Received By: <i>[Signature]</i> Date: _____ Time: _____		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: <i>[Signature]</i> (Initials) <b>T.O. #75</b>		REMARKS:									
Delivered By: (Circle One) <b>4:42</b> Sampler - UPS - Bus - Other: <b>Consented 4:45</b>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: _____		* Cardinal cannot accept verbal changes. Please fax written changes to (573) 303 3000.													

## **APPENDIX II.1**

### **Excavation – Cell A**



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

February 21, 2018

NICK RICH

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: PLU 078

Enclosed are the results of analyses for samples received by the laboratory on 02/14/18 17:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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](http://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:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/14/2018  
 Reported: 02/21/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/12/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPA 1.2 (H800473-01)**

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	02/19/2018	ND	1.87	93.6	2.00	8.38	
Toluene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	9.29	
Ethylbenzene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	10.2	
Total Xylenes*	<0.150	0.150	02/19/2018	ND	5.46	91.0	6.00	10.1	
Total BTEX	<0.300	0.300	02/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/16/2018	ND	432	108	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	02/16/2018	ND	211	106	200	2.30	
DRO >C10-C28*	<10.0	10.0	02/16/2018	ND	203	102	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	02/16/2018	ND					

Surrogate: 1-Chlorooctane 88.6 % 41-142

Surrogate: 1-Chlorooctadecane 85.6 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/14/2018  
 Reported: 02/21/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/12/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPA 2.4 (H800473-02)**

BTX 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	02/19/2018	ND	1.87	93.6	2.00	8.38		
Toluene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	9.29		
Ethylbenzene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	10.2		
Total Xylenes*	<0.150	0.150	02/19/2018	ND	5.46	91.0	6.00	10.1		
Total BTX	<0.300	0.300	02/19/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/16/2018	ND	432	108	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	02/16/2018	ND	211	106	200	2.30	
DRO >C10-C28*	<10.0	10.0	02/16/2018	ND	203	102	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	02/16/2018	ND					

Surrogate: 1-Chlorooctane 82.7 % 41-142

Surrogate: 1-Chlorooctadecane 79.9 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/14/2018  
 Reported: 02/21/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/12/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPA 3.4 (H800473-03)**

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	02/19/2018	ND	1.87	93.6	2.00	8.38		
Toluene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	9.29		
Ethylbenzene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	10.2		
Total Xylenes*	<0.150	0.150	02/19/2018	ND	5.46	91.0	6.00	10.1		
Total BTEX	<0.300	0.300	02/19/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	02/16/2018	ND	432	108	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	02/16/2018	ND	211	106	200	2.30	
DRO >C10-C28*	67.8	10.0	02/16/2018	ND	203	102	200	3.18	
EXT DRO >C28-C36	11.5	10.0	02/16/2018	ND					

Surrogate: 1-Chlorooctane 87.8 % 41-142

Surrogate: 1-Chlorooctadecane 87.6 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/14/2018  
 Reported: 02/21/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/12/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPA 4.4 (H800473-04)**

BTX 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	02/19/2018	ND	1.87	93.6	2.00	8.38		
Toluene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	9.29		
Ethylbenzene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	10.2		
Total Xylenes*	<0.150	0.150	02/19/2018	ND	5.46	91.0	6.00	10.1		
Total BTX	<0.300	0.300	02/19/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	02/16/2018	ND	432	108	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	02/16/2018	ND	211	106	200	2.30	
DRO >C10-C28*	12.2	10.0	02/16/2018	ND	203	102	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	02/16/2018	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/14/2018  
 Reported: 02/21/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/12/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPA 5.2 (H800473-05)**

BTX 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	02/19/2018	ND	1.87	93.6	2.00	8.38		
Toluene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	9.29		
Ethylbenzene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	10.2		
Total Xylenes*	<0.150	0.150	02/19/2018	ND	5.46	91.0	6.00	10.1		
Total BTX	<0.300	0.300	02/19/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13300	16.0	02/16/2018	ND	432	108	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	02/16/2018	ND	211	106	200	2.30	
DRO >C10-C28*	<10.0	10.0	02/16/2018	ND	203	102	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	02/16/2018	ND					

Surrogate: 1-Chlorooctane 89.6 % 41-142

Surrogate: 1-Chlorooctadecane 87.0 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/14/2018  
 Reported: 02/21/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/12/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPA 6.4 (H800473-06)**

BTX 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	02/19/2018	ND	1.87	93.6	2.00	8.38		
Toluene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	9.29		
Ethylbenzene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	10.2		
Total Xylenes*	<0.150	0.150	02/19/2018	ND	5.46	91.0	6.00	10.1		
Total BTX	<0.300	0.300	02/19/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/16/2018	ND	432	108	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	02/16/2018	ND	211	106	200	2.30	
DRO >C10-C28*	<10.0	10.0	02/16/2018	ND	203	102	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	02/16/2018	ND					

Surrogate: 1-Chlorooctane 92.3 % 41-142

Surrogate: 1-Chlorooctadecane 90.6 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/14/2018  
 Reported: 02/21/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/12/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPA 7.4 (H800473-07)**

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	02/19/2018	ND	1.87	93.6	2.00	8.38		
Toluene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	9.29		
Ethylbenzene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	10.2		
Total Xylenes*	<0.150	0.150	02/19/2018	ND	5.46	91.0	6.00	10.1		
Total BTEX	<0.300	0.300	02/19/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 72-148

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	02/16/2018	ND	432	108	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	02/16/2018	ND	211	106	200	2.30	
DRO >C10-C28*	<10.0	10.0	02/16/2018	ND	203	102	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	02/16/2018	ND					

Surrogate: 1-Chlorooctane 88.0 % 41-142

Surrogate: 1-Chlorooctadecane 86.1 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/14/2018  
 Reported: 02/21/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/12/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPA 8.4 (H800473-08)**

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	02/19/2018	ND	1.87	93.6	2.00	8.38	
Toluene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	9.29	
Ethylbenzene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	10.2	
Total Xylenes*	<0.150	0.150	02/19/2018	ND	5.46	91.0	6.00	10.1	
Total BTEX	<0.300	0.300	02/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 72-148

Chloride, SM4500CI-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	02/16/2018	ND	432	108	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	02/16/2018	ND	211	106	200	2.30	
DRO >C10-C28*	<10.0	10.0	02/16/2018	ND	203	102	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	02/16/2018	ND					

Surrogate: 1-Chlorooctane 94.7 % 41-142

Surrogate: 1-Chlorooctadecane 93.6 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/14/2018  
 Reported: 02/21/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/12/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPA 9.2 (H800473-09)**

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	02/19/2018	ND	1.87	93.6	2.00	8.38		
Toluene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	9.29		
Ethylbenzene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	10.2		
Total Xylenes*	<0.150	0.150	02/19/2018	ND	5.46	91.0	6.00	10.1		
Total BTEX	<0.300	0.300	02/19/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/16/2018	ND	432	108	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	02/16/2018	ND	211	106	200	2.30	
DRO >C10-C28*	<10.0	10.0	02/16/2018	ND	203	102	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	02/16/2018	ND					

Surrogate: 1-Chlorooctane 86.5 % 41-142

Surrogate: 1-Chlorooctadecane 86.2 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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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.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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## **APPENDIX II.2**

### **Excavation – Cell A East Sidewall**



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

---

February 21, 2018

NICK RICH

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: PLU 078

Enclosed are the results of analyses for samples received by the laboratory on 02/14/18 17:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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](http://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,

A handwritten signature in blue ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/14/2018  
 Reported: 02/21/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/10/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPA 5E-2 (H800472-01)**

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	02/19/2018	ND	1.87	93.6	2.00	8.38	
Toluene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	9.29	
Ethylbenzene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	10.2	
Total Xylenes*	<0.150	0.150	02/19/2018	ND	5.46	91.0	6.00	10.1	
Total BTEX	<0.300	0.300	02/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/16/2018	ND	432	108	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	02/16/2018	ND	179	89.7	200	0.681	
DRO >C10-C28*	<10.0	10.0	02/16/2018	ND	210	105	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	02/16/2018	ND					

Surrogate: 1-Chlorooctane 89.3 % 41-142

Surrogate: 1-Chlorooctadecane 85.2 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/14/2018  
 Reported: 02/21/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/10/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPA 5D-2 (H800472-02)**

BTX 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	02/19/2018	ND	1.87	93.6	2.00	8.38		
Toluene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	9.29		
Ethylbenzene*	<0.050	0.050	02/19/2018	ND	1.88	93.9	2.00	10.2		
Total Xylenes*	<0.150	0.150	02/19/2018	ND	5.46	91.0	6.00	10.1		
Total BTX	<0.300	0.300	02/19/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	02/16/2018	ND	432	108	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	02/16/2018	ND	211	106	200	2.30	
DRO >C10-C28*	<10.0	10.0	02/16/2018	ND	203	102	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	02/16/2018	ND					

Surrogate: 1-Chlorooctane 75.0 % 41-142

Surrogate: 1-Chlorooctadecane 71.4 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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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.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





**(575) 393-2326 FAX (575) 393-2476**

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## **APPENDIX II.3**

### **Excavation – Cell B**



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

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January 31, 2018

NICK RICH

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: PLU 078

Enclosed are the results of analyses for samples received by the laboratory on 01/29/18 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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](http://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,

A handwritten signature in blue ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

### Analytical Results For:

RX-SOIL INC.  
NICK RICH  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 01/29/2018  
Reported: 01/31/2018  
Project Name: PLU 078  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 01/17/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

### Sample ID: B1.078 SP 5 (H800300-01)

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	01/30/2018	ND	464	116	400	7.14	
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	01/30/2018	ND	201	100	200	3.32	
DRO >C10-C28*	<10.0	10.0	01/30/2018	ND	238	119	200	1.92	
EXT DRO >C28-C36	<10.0	10.0	01/30/2018	ND					
Surrogate: 1-Chlorooctane	103 %	41-142							
Surrogate: 1-Chlorooctadecane	101 %	37.6-147							

### Sample ID: B1.078 SP 6 (H800300-02)

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	01/30/2018	ND	464	116	400	7.14	
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	01/30/2018	ND	201	100	200	3.32	
DRO >C10-C28*	<10.0	10.0	01/30/2018	ND	238	119	200	1.92	
EXT DRO >C28-C36	<10.0	10.0	01/30/2018	ND					
Surrogate: 1-Chlorooctane	119 %	41-142							
Surrogate: 1-Chlorooctadecane	117 %	37.6-147							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 01/29/2018  
 Reported: 01/31/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 01/13/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B2.078 SP 9 (H800300-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/30/2018	ND	464	116	400	7.14		
TPH 8015M		mg/kg		Analyzed By: MS						I-03
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/31/2018	ND	209	105	200	9.37		
DRO >C10-C28*	<10.0	10.0	01/31/2018	ND	252	126	200	10.8		
EXT DRO >C28-C36	<10.0	10.0	01/31/2018	ND						
Surrogate: 1-Chlorooctane	95.3 %	41-142								
Surrogate: 1-Chlorooctadecane	93.3 %	37.6-147								

**Sample ID: B3.078 SP 9 (H800300-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/30/2018	ND	464	116	400	7.14		
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	01/31/2018	ND	209	105	200	9.37		
DRO >C10-C28*	<10.0	10.0	01/31/2018	ND	252	126	200	10.8		
EXT DRO >C28-C36	<10.0	10.0	01/31/2018	ND						
Surrogate: 1-Chlorooctane		118 %	41-142							
Surrogate: 1-Chlorooctadecane		119 %	37.6-147							

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 01/29/2018  
 Reported: 01/31/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 01/22/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B3.078 SP 12 (H800300-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/30/2018	ND	416	104	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	01/31/2018	ND	209	105	200	9.37	
DRO >C10-C28*	85.4	10.0	01/31/2018	ND	252	126	200	10.8	
EXT DRO >C28-C36	24.8	10.0	01/31/2018	ND					
Surrogate: 1-Chlorooctane	121 %	41-142							
Surrogate: 1-Chlorooctadecane	123 %	37.6-147							

**Sample ID: B3.078 SP 15 (H800300-06)**

Chloride, SM4500CI-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	01/30/2018	ND	416	104	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	01/31/2018	ND	209	105	200	9.37	
DRO >C10-C28*	<10.0	10.0	01/31/2018	ND	252	126	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	01/31/2018	ND					
Surrogate: 1-Chlorooctane	116 %	41-142							
Surrogate: 1-Chlorooctadecane	110 %	37.6-147							

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 01/29/2018  
 Reported: 01/31/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 01/22/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B3.078 SP 18 (H800300-07)**

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	01/30/2018	ND	416	104	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	01/31/2018	ND	209	105	200	9.37	
DRO >C10-C28*	<10.0	10.0	01/31/2018	ND	252	126	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	01/31/2018	ND					
Surrogate: 1-Chlorooctane	96.0 %	41-142							
Surrogate: 1-Chlorooctadecane	95.6 %	37.6-147							

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
I-03	This result was extracted outside of the EPA recommended holding time of 14 days.
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





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>RXSO11</u>		P.O. #:		BILL TO												ANALYSIS REQUEST											
Project Manager: <u>Nick Rich</u>		Company:																									
Address:		Attn:																									
City:		Address:																									
Phone #:		City:																									
Project #:		State:																									
Project Name: <u>PLU 078 XTO</u>		Zip:																									
Project Location:		Phone #:																									
Sample Name: <u>Matt Longene</u>		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.																									
1 <u>4806 300</u>		B1.078 SP 5																									
2 <u>B1.078 SP 6</u>		B2.078 SP 9																									
3 <u>B3.078 SP 9</u>		B3.078 SP 12																									
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Relinquished By: Matt Longene Date: 1/24/18 Received By: Jamara Alvarado Time: 4:50 PM

Relinquished By: Matt Longene Date: 1/24/18 Received By: Jamara Alvarado Time: 4:50 PM

Delivered By: (Circle One) 8.82 Sample Condition: Intact Checked By: JD-HJS

Sampler - UPS - Bus - Other: Consolidated 4.05 Yes No Yes No

REMARKS: Chao some head space

## **APPENDIX II.4**

### **Excavation – Cell C**



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

---

February 26, 2018

NICK RICH

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: PLU 078

Enclosed are the results of analyses for samples received by the laboratory on 02/20/18 17:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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](http://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,

A handwritten signature in blue ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/20/2018  
 Reported: 02/26/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPC 1.2 (H800514-01)**

BTEX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2018	ND	2.23	112	2.00	15.4	
Toluene*	<0.050	0.050	02/21/2018	ND	2.21	110	2.00	16.2	
Ethylbenzene*	<0.050	0.050	02/21/2018	ND	2.15	107	2.00	13.7	
Total Xylenes*	<0.150	0.150	02/21/2018	ND	6.56	109	6.00	13.4	
Total BTEX	<0.300	0.300	02/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/21/2018	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	02/21/2018	ND	195	97.4	200	8.53	
DRO >C10-C28*	<10.0	10.0	02/21/2018	ND	205	103	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	02/21/2018	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/20/2018  
 Reported: 02/26/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPC 2.2 (H800514-02)**

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2018	ND	2.23	112	2.00	15.4	
Toluene*	<0.050	0.050	02/21/2018	ND	2.21	110	2.00	16.2	
Ethylbenzene*	<0.050	0.050	02/21/2018	ND	2.15	107	2.00	13.7	
Total Xylenes*	<0.150	0.150	02/21/2018	ND	6.56	109	6.00	13.4	
Total BTX	<0.300	0.300	02/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/21/2018	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	02/21/2018	ND	195	97.4	200	8.53	
DRO >C10-C28*	<10.0	10.0	02/21/2018	ND	205	103	200	3.16	
EXT DRO >C28-C36	<10.0	10.0	02/21/2018	ND					

Surrogate: 1-Chlorooctane 96.3 % 41-142

Surrogate: 1-Chlorooctadecane 95.9 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/20/2018  
 Reported: 02/26/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPC 3.4 (H800514-03)**

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2018	ND	2.23	112	2.00	15.4	
Toluene*	<0.050	0.050	02/21/2018	ND	2.21	110	2.00	16.2	
Ethylbenzene*	<0.050	0.050	02/21/2018	ND	2.15	107	2.00	13.7	
Total Xylenes*	<0.150	0.150	02/21/2018	ND	6.56	109	6.00	13.4	
Total BTX	<0.300	0.300	02/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	02/21/2018	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	02/21/2018	ND	195	97.4	200	8.53	
DRO >C10-C28*	277	10.0	02/21/2018	ND	205	103	200	3.16	
EXT DRO >C28-C36	45.4	10.0	02/21/2018	ND					

Surrogate: 1-Chlorooctane 94.7 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/20/2018  
 Reported: 02/26/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPC 4.4 (H800514-04)**

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2018	ND	2.23	112	2.00	15.4	
Toluene*	<0.050	0.050	02/21/2018	ND	2.21	110	2.00	16.2	
Ethylbenzene*	<0.050	0.050	02/21/2018	ND	2.15	107	2.00	13.7	
Total Xylenes*	<0.150	0.150	02/21/2018	ND	6.56	109	6.00	13.4	
Total BTX	<0.300	0.300	02/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	02/21/2018	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	02/21/2018	ND	201	101	200	2.67	
DRO >C10-C28*	154	10.0	02/21/2018	ND	196	98.2	200	2.99	
EXT DRO >C28-C36	32.4	10.0	02/21/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/20/2018  
 Reported: 02/26/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPC 5.2 (H800514-05)**

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2018	ND	2.23	112	2.00	15.4	
Toluene*	<0.050	0.050	02/21/2018	ND	2.21	110	2.00	16.2	
Ethylbenzene*	<0.050	0.050	02/21/2018	ND	2.15	107	2.00	13.7	
Total Xylenes*	<0.150	0.150	02/21/2018	ND	6.56	109	6.00	13.4	
Total BTX	<0.300	0.300	02/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 81.3-128

Chloride, SM4500CI-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	02/21/2018	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	02/21/2018	ND	201	101	200	2.67	
DRO >C10-C28*	<10.0	10.0	02/21/2018	ND	196	98.2	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	02/21/2018	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/20/2018  
 Reported: 02/26/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPC 6.2 (H800514-06)**

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2018	ND	2.23	112	2.00	15.4	
Toluene*	<0.050	0.050	02/21/2018	ND	2.21	110	2.00	16.2	
Ethylbenzene*	<0.050	0.050	02/21/2018	ND	2.15	107	2.00	13.7	
Total Xylenes*	<0.150	0.150	02/21/2018	ND	6.56	109	6.00	13.4	
Total BTX	<0.300	0.300	02/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 81.3-128

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	02/21/2018	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	02/21/2018	ND	201	101	200	2.67	
DRO >C10-C28*	<10.0	10.0	02/21/2018	ND	196	98.2	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	02/21/2018	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/20/2018  
 Reported: 02/26/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPC 7.4 (H800514-07)**

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2018	ND	2.23	112	2.00	15.4	
Toluene*	<0.050	0.050	02/21/2018	ND	2.21	110	2.00	16.2	
Ethylbenzene*	<0.050	0.050	02/21/2018	ND	2.15	107	2.00	13.7	
Total Xylenes*	<0.150	0.150	02/21/2018	ND	6.56	109	6.00	13.4	
Total BTX	<0.300	0.300	02/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	02/21/2018	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	02/22/2018	ND	201	101	200	2.67	
DRO >C10-C28*	33.4	10.0	02/22/2018	ND	196	98.2	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	02/22/2018	ND					

Surrogate: 1-Chlorooctane 99.9 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 NICK RICH  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 02/20/2018  
 Reported: 02/26/2018  
 Project Name: PLU 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/16/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SPC 8.4 (H800514-08)**

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2018	ND	2.23	112	2.00	15.4	
Toluene*	<0.050	0.050	02/21/2018	ND	2.21	110	2.00	16.2	
Ethylbenzene*	<0.050	0.050	02/21/2018	ND	2.15	107	2.00	13.7	
Total Xylenes*	<0.150	0.150	02/21/2018	ND	6.56	109	6.00	13.4	
Total BTX	<0.300	0.300	02/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	02/21/2018	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	02/22/2018	ND	201	101	200	2.67	
DRO >C10-C28*	87.0	10.0	02/22/2018	ND	196	98.2	200	2.99	
EXT DRO >C28-C36	12.6	10.0	02/22/2018	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>RASOTEC</b>		P.O. #:		<b>BILL TO</b>											
Project Manager: <b>NICK RECH</b>		Company:		<b>ANALYSIS REQUEST</b>											
Address:		Attn:													
City:		Address:													
State:		City:													
Zip:		State:													
Phone #: <b>210-853-7645</b>		Phone #:													
Fax #: <b>210-853-7645</b>		Fax #:													
Project #: <b>PLN 078</b>		Project Owner:													
Project Name:		State:													
Project Location:		Zip:													
Sample Name: <b>JACO'S MICKLE</b>		Phone #:													
Fax #:		Fax #:													
FOR LAB USE ONLY		PRESERV.		SAMPLING											
Lab I.D.		Sample I.D.													
H806514		SPC-#1.2													
1		SPC-2.2													
2		SPC-3.4													
3		SPC-4.4													
4		SPC-5.2													
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## **APPENDIX II.5**

### **Excavation – Cell D**



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

---

February 09, 2018

STAN MICKLE

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: PLU 078

Enclosed are the results of analyses for samples received by the laboratory on 02/08/18 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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](http://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



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

**Analytical Results For:**

RX-SOIL INC.  
STAN MICKLE  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 02/08/2018  
Reported: 02/09/2018  
Project Name: PLU 078  
Project Number: XTO  
Project Location: NOT GIVEN

Sampling Date: 02/02/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: D. 078 SP2 - NW (H800417-01)**

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	02/09/2018	ND	2.05	103	2.00	1.96	
Toluene*	<0.050	0.050	02/09/2018	ND	2.01	100	2.00	2.18	
Ethylbenzene*	<0.050	0.050	02/09/2018	ND	1.97	98.6	2.00	1.49	
Total Xylenes*	<0.150	0.150	02/09/2018	ND	6.01	100	6.00	1.60	
Total BTEX	<0.300	0.300	02/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/09/2018	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	02/09/2018	ND	183	91.7	200	0.778	
DRO >C10-C28*	<10.0	10.0	02/09/2018	ND	162	81.0	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	02/09/2018	ND					

Surrogate: 1-Chlorooctane 96.4 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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### Analytical Results For:

RX-SOIL INC.  
STAN MICKLE  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 02/08/2018  
Reported: 02/09/2018  
Project Name: PLU 078  
Project Number: XTO  
Project Location: NOT GIVEN

Sampling Date: 02/02/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

### Sample ID: D. 078 SP4 - NW (H800417-02)

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	02/09/2018	ND	2.05	103	2.00	1.96		
Toluene*	<0.050	0.050	02/09/2018	ND	2.01	100	2.00	2.18		
Ethylbenzene*	<0.050	0.050	02/09/2018	ND	1.97	98.6	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/09/2018	ND	6.01	100	6.00	1.60		
Total BTEx	<0.300	0.300	02/09/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500CI-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	02/09/2018	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	02/09/2018	ND	183	91.7	200	0.778	
DRO >C10-C28*	<10.0	10.0	02/09/2018	ND	162	81.0	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	02/09/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Analytical Results For:

RX-SOIL INC.  
STAN MICKLE  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 02/08/2018  
Reported: 02/09/2018  
Project Name: PLU 078  
Project Number: XTO  
Project Location: NOT GIVEN

Sampling Date: 02/02/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

### Sample ID: D. 078 SP6 - WW (H800417-03)

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	02/09/2018	ND	2.05	103	2.00	1.96	
Toluene*	<0.050	0.050	02/09/2018	ND	2.01	100	2.00	2.18	
Ethylbenzene*	<0.050	0.050	02/09/2018	ND	1.97	98.6	2.00	1.49	
Total Xylenes*	<0.150	0.150	02/09/2018	ND	6.01	100	6.00	1.60	
Total BTEx	<0.300	0.300	02/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500CI-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	02/09/2018	ND	400	100	400	3.92		

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	02/09/2018	ND	183	91.7	200	0.778	
DRO >C10-C28*	<10.0	10.0	02/09/2018	ND	162	81.0	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	02/09/2018	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
STAN MICKLE  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 02/08/2018  
Reported: 02/09/2018  
Project Name: PLU 078  
Project Number: XTO  
Project Location: NOT GIVEN

Sampling Date: 02/02/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: D. 078 SP8 - SW (H800417-04)**

BTX 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	02/09/2018	ND	2.05	103	2.00	1.96	
Toluene*	<0.050	0.050	02/09/2018	ND	2.01	100	2.00	2.18	
Ethylbenzene*	<0.050	0.050	02/09/2018	ND	1.97	98.6	2.00	1.49	
Total Xylenes*	<0.150	0.150	02/09/2018	ND	6.01	100	6.00	1.60	
Total BTX	<0.300	0.300	02/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

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	02/09/2018	ND	400	100	400	3.92		

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	02/09/2018	ND	183	91.7	200	0.778	
DRO >C10-C28*	<10.0	10.0	02/09/2018	ND	162	81.0	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	02/09/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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### Analytical Results For:

RX-SOIL INC.  
STAN MICKLE  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 02/08/2018  
Reported: 02/09/2018  
Project Name: PLU 078  
Project Number: XTO  
Project Location: NOT GIVEN

Sampling Date: 02/02/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

### Sample ID: D. 078 SP12 - CLEAN (H800417-05)

BTX 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	02/09/2018	ND	2.05	103	2.00	1.96		
Toluene*	<0.050	0.050	02/09/2018	ND	2.01	100	2.00	2.18		
Ethylbenzene*	<0.050	0.050	02/09/2018	ND	1.97	98.6	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/09/2018	ND	6.01	100	6.00	1.60		
Total BTX	<0.300	0.300	02/09/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500CI-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	02/09/2018	ND	400	100	400	3.92		

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	02/09/2018	ND	183	91.7	200	0.778	
DRO >C10-C28*	<10.0	10.0	02/09/2018	ND	162	81.0	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	02/09/2018	ND					

Surrogate: 1-Chlorooctane 94.0 % 41-142

Surrogate: 1-Chlorooctadecane 98.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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### Analytical Results For:

RX-SOIL INC.  
STAN MICKLE  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 02/08/2018  
Reported: 02/09/2018  
Project Name: PLU 078  
Project Number: XTO  
Project Location: NOT GIVEN

Sampling Date: 02/02/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

### Sample ID: D. 078 SP14 - CLEAN (H800417-06)

BTX 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	02/09/2018	ND	2.05	103	2.00	1.96		
Toluene*	<0.050	0.050	02/09/2018	ND	2.01	100	2.00	2.18		
Ethylbenzene*	<0.050	0.050	02/09/2018	ND	1.97	98.6	2.00	1.49		
Total Xylenes*	<0.150	0.150	02/09/2018	ND	6.01	100	6.00	1.60		
Total BTX	<0.300	0.300	02/09/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500CI-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	02/09/2018	ND	400	100	400	3.92	

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	02/09/2018	ND	183	91.7	200	0.778	
DRO >C10-C28*	<10.0	10.0	02/09/2018	ND	162	81.0	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	02/09/2018	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 90.4 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Analytical Results For:

RX-SOIL INC.  
STAN MICKLE  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 02/08/2018  
Reported: 02/09/2018  
Project Name: PLU 078  
Project Number: XTO  
Project Location: NOT GIVEN

Sampling Date: 02/02/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

### Sample ID: D. 078 SP18 - B (H800417-07)

BTX 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	02/09/2018	ND	2.05	103	2.00	1.96	
Toluene*	<0.050	0.050	02/09/2018	ND	2.01	100	2.00	2.18	
Ethylbenzene*	<0.050	0.050	02/09/2018	ND	1.97	98.6	2.00	1.49	
Total Xylenes*	<0.150	0.150	02/09/2018	ND	6.01	100	6.00	1.60	
Total BTX	<0.300	0.300	02/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500CI-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	02/09/2018	ND	400	100	400	3.92		

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	02/09/2018	ND	183	91.7	200	0.778	
DRO >C10-C28*	<10.0	10.0	02/09/2018	ND	162	81.0	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	02/09/2018	ND					

Surrogate: 1-Chlorooctane 92.1 % 41-142

Surrogate: 1-Chlorooctadecane 94.6 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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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

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---

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

[illegible]



## **APPENDIX II.6**

### **Excavation – Shelf**



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May 18, 2018

STAN MICKLE

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: PLU 078

Enclosed are the results of analyses for samples received by the laboratory on 05/11/18 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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](http://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:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - SHELF EXCAVATION  
 Project Location: NOT GIVEN

 Sampling Date: 05/10/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SHF - N (H801327-01)**

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	05/15/2018	ND	1.65	82.6	2.00	1.15	
Toluene*	<0.050	0.050	05/15/2018	ND	1.78	89.0	2.00	0.214	
Ethylbenzene*	<0.050	0.050	05/15/2018	ND	1.81	90.5	2.00	0.554	
Total Xylenes*	<0.150	0.150	05/15/2018	ND	5.61	93.6	6.00	0.532	
Total BTEX	<0.300	0.300	05/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/15/2018	ND	432	108	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	05/14/2018	ND	195	97.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2018	ND	197	98.5	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	05/14/2018	ND					

Surrogate: 1-Chlorooctane 81.4 % 41-142

Surrogate: 1-Chlorooctadecane 80.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - SHELF EXCAVATION  
 Project Location: NOT GIVEN

 Sampling Date: 05/10/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SHF - E-N (H801327-02)**

BTX 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	05/15/2018	ND	1.65	82.6	2.00	1.15		
Toluene*	<0.050	0.050	05/15/2018	ND	1.78	89.0	2.00	0.214		
Ethylbenzene*	<0.050	0.050	05/15/2018	ND	1.81	90.5	2.00	0.554		
Total Xylenes*	<0.150	0.150	05/15/2018	ND	5.61	93.6	6.00	0.532		
Total BTX	<0.300	0.300	05/15/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

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	05/15/2018	ND	432	108	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	05/14/2018	ND	195	97.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2018	ND	197	98.5	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	05/14/2018	ND					

Surrogate: 1-Chlorooctane 92.9 % 41-142

Surrogate: 1-Chlorooctadecane 95.3 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - SHELF EXCAVATION  
 Project Location: NOT GIVEN

 Sampling Date: 05/10/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SHF - E - 5.2 (H801327-03)**

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	05/15/2018	ND	1.65	82.6	2.00	1.15	
Toluene*	<0.050	0.050	05/15/2018	ND	1.78	89.0	2.00	0.214	
Ethylbenzene*	<0.050	0.050	05/15/2018	ND	1.81	90.5	2.00	0.554	
Total Xylenes*	<0.150	0.150	05/15/2018	ND	5.61	93.6	6.00	0.532	
Total BTEX	<0.300	0.300	05/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/15/2018	ND	432	108	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	05/14/2018	ND	195	97.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2018	ND	197	98.5	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	05/14/2018	ND					

Surrogate: 1-Chlorooctane 95.0 % 41-142

Surrogate: 1-Chlorooctadecane 96.4 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - SHELF EXCAVATION  
 Project Location: NOT GIVEN

 Sampling Date: 05/10/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SHF - 5.2 (H801327-04)**

BTX 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	05/15/2018	ND	1.65	82.6	2.00	1.15		
Toluene*	<0.050	0.050	05/15/2018	ND	1.78	89.0	2.00	0.214		
Ethylbenzene*	<0.050	0.050	05/15/2018	ND	1.81	90.5	2.00	0.554		
Total Xylenes*	<0.150	0.150	05/15/2018	ND	5.61	93.6	6.00	0.532		
Total BTX	<0.300	0.300	05/15/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	05/15/2018	ND	432	108	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	05/14/2018	ND	195	97.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2018	ND	197	98.5	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	05/14/2018	ND					

Surrogate: 1-Chlorooctane 96.1 % 41-142

Surrogate: 1-Chlorooctadecane 97.6 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - SHELF EXCAVATION  
 Project Location: NOT GIVEN

 Sampling Date: 05/10/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SHF - B1 (H801327-05)**

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	05/15/2018	ND	1.65	82.6	2.00	1.15		
Toluene*	<0.050	0.050	05/15/2018	ND	1.78	89.0	2.00	0.214		
Ethylbenzene*	<0.050	0.050	05/15/2018	ND	1.81	90.5	2.00	0.554		
Total Xylenes*	<0.150	0.150	05/15/2018	ND	5.61	93.6	6.00	0.532		
Total BTEx	<0.300	0.300	05/15/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	05/15/2018	ND	432	108	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	05/14/2018	ND	195	97.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2018	ND	197	98.5	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	05/14/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - SHELF EXCAVATION  
 Project Location: NOT GIVEN

 Sampling Date: 05/10/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SHF - B2 (H801327-06)**

BTX 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	05/15/2018	ND	1.65	82.6	2.00	1.15		
Toluene*	<0.050	0.050	05/15/2018	ND	1.78	89.0	2.00	0.214		
Ethylbenzene*	<0.050	0.050	05/15/2018	ND	1.81	90.5	2.00	0.554		
Total Xylenes*	<0.150	0.150	05/15/2018	ND	5.61	93.6	6.00	0.532		
Total BTX	<0.300	0.300	05/15/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	05/15/2018	ND	432	108	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	05/14/2018	ND	195	97.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2018	ND	197	98.5	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	05/14/2018	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

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

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## **APPENDIX II.7**

### **Excavation – Flare**



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

May 22, 2018

STAN MICKLE

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: PLU 078

Enclosed are the results of analyses for samples received by the laboratory on 05/11/18 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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](http://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	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

A handwritten signature in blue ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**RX-SOIL INC.  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102Project: PLU 078  
Project Number: XTO - FLARE EXCAVATION  
Project Manager: STAN MICKLE  
Fax To: NAReported:  
22-May-18 16:56

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FLR 2	H801326-01	Soil	10-May-18 00:00	11-May-18 12:45
FLR 3	H801326-02	Soil	10-May-18 00:00	11-May-18 12:45
FLR 5	H801326-03	Soil	10-May-18 00:00	11-May-18 12:45
FLR 6	H801326-04	Soil	10-May-18 00:00	11-May-18 12:45
FLR 7	H801326-05	Soil	10-May-18 00:00	11-May-18 12:45
FLR 8	H801326-06	Soil	10-May-18 00:00	11-May-18 12:45
FLR B1	H801326-07	Soil	10-May-18 00:00	11-May-18 12:45
FLR B2	H801326-08	Soil	10-May-18 00:00	11-May-18 12:45

Client asked for a chloride rerun on H801326-03 (FLR 5). We discovered a dilution factor error on the original data. The sample was re-extracted and reanalyzed. This report contains the revised chloride data for H801326-03. This report will replace the one sent on 05/18/18.

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102

 Project: PLU 078  
 Project Number: XTO - FLARE EXCAVATION  
 Project Manager: STAN MICKLE  
 Fax To: NA

 Reported:  
 22-May-18 16:56

**FLR 2**  
**H801326-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Chloride	544		16.0	mg/kg	4	8051411	AC	15-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051408	MS	15-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051408	MS	15-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051408	MS	15-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051408	MS	15-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051408	MS	15-May-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	72-148		8051408	MS	15-May-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051401	MS	14-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051401	MS	14-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051401	MS	14-May-18	8015B	
Surrogate: 1-Chlorooctane			81.7 %	41-142		8051401	MS	14-May-18	8015B	
Surrogate: 1-Chlorooctadecane			67.8 %	37.6-147		8051401	MS	14-May-18	8015B	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102

Project: PLU 078  
Project Number: XTO - FLARE EXCAVATION  
Project Manager: STAN MICKLE  
Fax To: NA

Reported:  
22-May-18 16:56

**FLR 3**  
**H801326-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	8051411	AC	15-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051505	MS	17-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051505	MS	17-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051505	MS	17-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051505	MS	17-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051505	MS	17-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148 8051505 MS 17-May-18 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051401	MS	14-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051401	MS	14-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051401	MS	14-May-18	8015B	

Surrogate: 1-Chlorooctane 79.5 % 41-142 8051401 MS 14-May-18 8015B

Surrogate: 1-Chlorooctadecane 66.1 % 37.6-147 8051401 MS 14-May-18 8015B

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\*=Accredited Analyte

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*Coley D. Keene*

Coley D. Keene, Lab Director/Quality Manager



Analytical Results For:

RX-SOIL INC. 201 MAIN STREET, SUITE 1360 FORT WORTH TX, 76102	Project: PLU 078 Project Number: XTO - FLARE EXCAVATION Project Manager: STAN MICKLE Fax To: NA	Reported: 22-May-18 16:56
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FLR 5  
H801326-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	176		16.0	mg/kg	4	8051411	AC	15-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8051505	MS	15-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051505	MS	15-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051505	MS	15-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051505	MS	15-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051505	MS	15-May-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	72-148		8051505	MS	15-May-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051401	MS	14-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051401	MS	14-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051401	MS	14-May-18	8015B	
Surrogate: 1-Chlorooctane			74.2 %	41-142		8051401	MS	14-May-18	8015B	
Surrogate: 1-Chlorooctadecane			59.6 %	37.6-147		8051401	MS	14-May-18	8015B	

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\_\_\_\_\_  
Celey D. Keene, Lab Director/Quality Manager





Analytical Results For:

RX-SOIL INC. 201 MAIN STREET, SUITE 1360 FORT WORTH TX, 76102	Project: PLU 078 Project Number: XTO - FLARE EXCAVATION Project Manager: STAN MICKLE Fax To: NA	Reported: 22-May-18 16:56
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FLR 6  
H801326-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	240		16.0	mg/kg	4	8051411	AC	15-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8051505	MS	15-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051505	MS	15-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051505	MS	15-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051505	MS	15-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051505	MS	15-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		72-148	8051505	MS	15-May-18	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051401	MS	14-May-18	8015B	
DRO >C10-C28*	11.7		10.0	mg/kg	1	8051401	MS	14-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051401	MS	14-May-18	8015B	

Surrogate: 1-Chlorooctane			79.1 %		41-142	8051401	MS	14-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			65.2 %		37.6-147	8051401	MS	14-May-18	8015B	
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Celestine D. Keene  
\_\_\_\_\_  
Celestine D. Keene, Lab Director/Quality Manager



Analytical Results For:

RX-SOIL INC.  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102

Project: PLU 078  
Project Number: XTO - FLARE EXCAVATION  
Project Manager: STAN MICKLE  
Fax To: NA

Reported:  
22-May-18 16:56

FLR 7  
H801326-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	448		16.0	mg/kg	4	8051411	AC	15-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8051505	MS	15-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051505	MS	15-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051505	MS	15-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051505	MS	15-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051505	MS	15-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		72-148	8051505	MS	15-May-18	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051402	MS	14-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051402	MS	14-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051402	MS	14-May-18	8015B	

Surrogate: 1-Chlorooctane			83.0 %		41-142	8051402	MS	14-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			83.2 %		37.6-147	8051402	MS	14-May-18	8015B	
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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager



Analytical Results For:

RX-SOIL INC. 201 MAIN STREET, SUITE 1360 FORT WORTH TX, 76102	Project: PLU 078 Project Number: XTO - FLARE EXCAVATION Project Manager: STAN MICKLE Fax To: NA	Reported: 22-May-18 16:56
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FLR 8  
H801326-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	8051411	AC	15-May-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8051505	MS	15-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051505	MS	15-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051505	MS	15-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051505	MS	15-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051505	MS	15-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	72-148		8051505	MS	15-May-18	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051402	MS	14-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051402	MS	14-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051402	MS	14-May-18	8015B	

Surrogate: 1-Chlorooctane			97.5 %	41-142		8051402	MS	14-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			97.2 %	37.6-147		8051402	MS	14-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102

Project: PLU 078  
Project Number: XTO - FLARE EXCAVATION  
Project Manager: STAN MICKLE  
Fax To: NA

Reported:  
22-May-18 16:56

**FLR B1**  
**H801326-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	1250		16.0	mg/kg	4	8051411	AC	15-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051505	MS	15-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051505	MS	15-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051505	MS	15-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051505	MS	15-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051505	MS	15-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148 8051505 MS 15-May-18 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051402	MS	14-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051402	MS	14-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051402	MS	14-May-18	8015B	

Surrogate: 1-Chlorooctane 98.9 % 41-142 8051402 MS 14-May-18 8015B

Surrogate: 1-Chlorooctadecane 101 % 37.6-147 8051402 MS 14-May-18 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102

Project: PLU 078  
Project Number: XTO - FLARE EXCAVATION  
Project Manager: STAN MICKLE  
Fax To: NA

Reported:  
22-May-18 16:56

**FLR B2**  
**H801326-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	432		16.0	mg/kg	4	8051411	AC	15-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051505	MS	15-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051505	MS	15-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051505	MS	15-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051505	MS	15-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051505	MS	15-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148 8051505 MS 15-May-18 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051402	MS	14-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051402	MS	14-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051402	MS	14-May-18	8015B	

Surrogate: 1-Chlorooctane 99.0 % 41-142 8051402 MS 14-May-18 8015B

Surrogate: 1-Chlorooctadecane 100 % 37.6-147 8051402 MS 14-May-18 8015B

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\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

RX-SOIL INC. 201 MAIN STREET, SUITE 1360 FORT WORTH TX, 76102	Project: PLU 078 Project Number: XTO - FLARE EXCAVATION Project Manager: STAN MICKLE Fax To: NA	Reported: 22-May-18 16:56
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Inorganic Compounds - Quality Control  
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 8051411 - 1:4 DI Water									
Blank (8051411-BLK1)				Prepared & Analyzed: 14-May-18					
Chloride	ND	16.0	mg/kg						
LCS (8051411-BS1)				Prepared & Analyzed: 14-May-18					
Chloride	432	16.0	mg/kg	400		108	80-120		
LCS Dup (8051411-BSD1)				Prepared & Analyzed: 14-May-18					
Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102

 Project: PLU 078  
 Project Number: XTO - FLARE EXCAVATION  
 Project Manager: STAN MICKLE  
 Fax To: NA

 Reported:  
 22-May-18 16:56

**Volatile Organic Compounds by EPA Method 8021 - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 8051408 - Volatiles**
**Blank (8051408-BLK1)**

Prepared &amp; Analyzed: 14-May-18

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.101		mg/kg	0.100		101	72-148			

**LCS (8051408-BS1)**

Prepared &amp; Analyzed: 14-May-18

Benzene	1.79	0.050	mg/kg	2.00		89.4	79.5-124			
Toluene	1.90	0.050	mg/kg	2.00		94.8	75.5-127			
Ethylbenzene	1.90	0.050	mg/kg	2.00		95.0	77.7-125			
Total Xylenes	5.88	0.150	mg/kg	6.00		98.0	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0988		mg/kg	0.100		98.8	72-148			

**LCS Dup (8051408-BSD1)**

Prepared &amp; Analyzed: 14-May-18

Benzene	1.73	0.050	mg/kg	2.00		86.7	79.5-124	3.07	6.5	
Toluene	1.85	0.050	mg/kg	2.00		92.5	75.5-127	2.51	7.02	
Ethylbenzene	1.88	0.050	mg/kg	2.00		93.8	77.7-125	1.35	7.83	
Total Xylenes	5.84	0.150	mg/kg	6.00		97.3	70.9-124	0.664	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.101		mg/kg	0.100		101	72-148			

**Batch 8051505 - Volatiles**
**Blank (8051505-BLK1)**

Prepared &amp; Analyzed: 15-May-18

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.102		mg/kg	0.100		102	72-148			

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

RX-SOIL INC.  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102

Project: PLU 078  
Project Number: XTO - FLARE EXCAVATION  
Project Manager: STAN MICKLE  
Fax To: NA

Reported:  
22-May-18 16:56

Volatile Organic Compounds by EPA Method 8021 - Quality Control  
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8051505 - Volatiles

LCS (8051505-BS1)		Prepared & Analyzed: 15-May-18								
Benzene	1.65	0.050	mg/kg	2.00		82.6	79.5-124			
Toluene	1.78	0.050	mg/kg	2.00		89.0	75.5-127			
Ethylbenzene	1.81	0.050	mg/kg	2.00		90.5	77.7-125			
Total Xylenes	5.61	0.150	mg/kg	6.00		93.6	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.101		mg/kg	0.100		101	72-148			
LCS Dup (8051505-BSD1)		Prepared & Analyzed: 15-May-18								
Benzene	1.67	0.050	mg/kg	2.00		83.6	79.5-124	1.15	6.5	
Toluene	1.78	0.050	mg/kg	2.00		89.2	75.5-127	0.214	7.02	
Ethylbenzene	1.80	0.050	mg/kg	2.00		90.0	77.7-125	0.554	7.83	
Total Xylenes	5.58	0.150	mg/kg	6.00		93.1	70.9-124	0.532	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.100		mg/kg	0.100		100	72-148			

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Celey D. Keene, Lab Director/Quality Manager





Analytical Results For:

RX-SOIL INC. 201 MAIN STREET, SUITE 1360 FORT WORTH TX, 76102	Project: PLU 078 Project Number: XTO - FLARE EXCAVATION Project Manager: STAN MICKLE Fax To: NA	Reported: 22-May-18 16:56
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Petroleum Hydrocarbons by GC FID - Quality Control  
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8051401 - General Prep - Organics

Blank (8051401-BLK1)		Prepared & Analyzed: 14-May-18								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	44.2		mg/kg	50.0		88.4	41-142			
Surrogate: 1-Chlorooctadecane	38.4		mg/kg	50.0		76.8	37.6-147			

LCS (8051401-BS1)		Prepared & Analyzed: 14-May-18								
GRO C6-C10	231	10.0	mg/kg	200		116	76.5-133			
DRO >C10-C28	196	10.0	mg/kg	200		98.0	72.9-138			
Total TPH C6-C28	427	10.0	mg/kg	400		107	78-132			
Surrogate: 1-Chlorooctane	46.8		mg/kg	50.0		93.7	41-142			
Surrogate: 1-Chlorooctadecane	43.4		mg/kg	50.0		86.8	37.6-147			

LCS Dup (8051401-BSD1)		Prepared & Analyzed: 14-May-18								
GRO C6-C10	222	10.0	mg/kg	200		111	76.5-133	3.91	20.6	
DRO >C10-C28	178	10.0	mg/kg	200		89.0	72.9-138	9.59	20.6	
Total TPH C6-C28	400	10.0	mg/kg	400		100	78-132	6.48	18	
Surrogate: 1-Chlorooctane	44.2		mg/kg	50.0		88.4	41-142			
Surrogate: 1-Chlorooctadecane	38.8		mg/kg	50.0		77.6	37.6-147			

Batch 8051402 - General Prep - Organics

Blank (8051402-BLK1)		Prepared & Analyzed: 14-May-18								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	51.4		mg/kg	50.0		103	41-142			
Surrogate: 1-Chlorooctadecane	50.9		mg/kg	50.0		102	37.6-147			

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

RX-SOIL INC. 201 MAIN STREET, SUITE 1360 FORT WORTH TX, 76102	Project: PLU 078 Project Number: XTO - FLARE EXCAVATION Project Manager: STAN MICKLE Fax To: NA	Reported: 22-May-18 16:56
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Petroleum Hydrocarbons by GC FID - Quality Control  
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 8051402 - General Prep - Organics

LCS (8051402-BS1)		Prepared & Analyzed: 14-May-18							
GRO C6-C10	195	10.0	mg/kg	200		97.7	76.5-133		
DRO >C10-C28	197	10.0	mg/kg	200		98.5	72.9-138		
Total TPH C6-C28	392	10.0	mg/kg	400		98.1	78-132		
Surrogate: 1-Chlorooctane	51.0		mg/kg	50.0		102	41-142		
Surrogate: 1-Chlorooctadecane	51.3		mg/kg	50.0		103	37.6-147		
LCS Dup (8051402-BS1)		Prepared & Analyzed: 14-May-18							
GRO C6-C10	201	10.0	mg/kg	200		101	76.5-133	3.03	20.6
DRO >C10-C28	204	10.0	mg/kg	200		102	72.9-138	3.68	20.6
Total TPH C6-C28	406	10.0	mg/kg	400		101	78-132	3.36	18
Surrogate: 1-Chlorooctane	51.7		mg/kg	50.0		103	41-142		
Surrogate: 1-Chlorooctadecane	52.5		mg/kg	50.0		105	37.6-147		

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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

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



## **APPENDIX III.1**

### **Remediation – Cell A**



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

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May 01, 2018

JACE CARAWAY

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: PLU 078

Enclosed are the results of analyses for samples received by the laboratory on 04/30/18 9:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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](http://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,

A handwritten signature in blue ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 04/30/2018  
 Reported: 05/01/2018  
 Project Name: PLU 078  
 Project Number: #078  
 Project Location: NOT GIVEN

 Sampling Date: 04/29/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A:SP A - 4' (H801177-01)**

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	04/30/2018	ND	1.80	90.0	2.00	5.41	
Toluene*	<0.050	0.050	04/30/2018	ND	1.83	91.6	2.00	5.79	
Ethylbenzene*	<0.050	0.050	04/30/2018	ND	1.83	91.5	2.00	5.96	
Total Xylenes*	<0.150	0.150	04/30/2018	ND	5.35	89.1	6.00	4.97	
Total BTEX	<0.300	0.300	04/30/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/30/2018	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	04/30/2018	ND	200	99.8	200	0.0636	
DRO >C10-C28*	<10.0	10.0	04/30/2018	ND	197	98.6	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	04/30/2018	ND					

Surrogate: 1-Chlorooctane 85.7 % 41-142

Surrogate: 1-Chlorooctadecane 61.0 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 04/30/2018  
 Reported: 05/01/2018  
 Project Name: PLU 078  
 Project Number: #078  
 Project Location: NOT GIVEN

 Sampling Date: 04/29/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A:SP B - 2' (H801177-02)**

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	04/30/2018	ND	1.80	90.0	2.00	5.41		
Toluene*	<0.050	0.050	04/30/2018	ND	1.83	91.6	2.00	5.79		
Ethylbenzene*	0.053	0.050	04/30/2018	ND	1.83	91.5	2.00	5.96		
Total Xylenes*	<0.150	0.150	04/30/2018	ND	5.35	89.1	6.00	4.97		
Total BTEX	<0.300	0.300	04/30/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 72-148

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	04/30/2018	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	04/30/2018	ND	200	99.8	200	0.0636	
<b>DRO &gt;C10-C28*</b>	<b>72.9</b>	10.0	04/30/2018	ND	197	98.6	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	04/30/2018	ND					

Surrogate: 1-Chlorooctane 79.0 % 41-142

Surrogate: 1-Chlorooctadecane 64.6 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 04/30/2018  
 Reported: 05/01/2018  
 Project Name: PLU 078  
 Project Number: #078  
 Project Location: NOT GIVEN

 Sampling Date: 04/29/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A:SP C - 3' (H801177-03)**

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	04/30/2018	ND	1.80	90.0	2.00	5.41		
Toluene*	<0.050	0.050	04/30/2018	ND	1.83	91.6	2.00	5.79		
Ethylbenzene*	<0.050	0.050	04/30/2018	ND	1.83	91.5	2.00	5.96		
Total Xylenes*	<0.150	0.150	04/30/2018	ND	5.35	89.1	6.00	4.97		
Total BTEx	<0.300	0.300	04/30/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/30/2018	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	04/30/2018	ND	200	99.8	200	0.0636	
DRO >C10-C28*	<10.0	10.0	04/30/2018	ND	197	98.6	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	04/30/2018	ND					

Surrogate: 1-Chlorooctane 84.1 % 41-142

Surrogate: 1-Chlorooctadecane 62.2 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 04/30/2018  
 Reported: 05/01/2018  
 Project Name: PLU 078  
 Project Number: #078  
 Project Location: NOT GIVEN

 Sampling Date: 04/29/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A:SP D - 2' (H801177-04)**

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	04/30/2018	ND	1.80	90.0	2.00	5.41		
Toluene*	<0.050	0.050	04/30/2018	ND	1.83	91.6	2.00	5.79		
Ethylbenzene*	<0.050	0.050	04/30/2018	ND	1.83	91.5	2.00	5.96		
Total Xylenes*	<0.150	0.150	04/30/2018	ND	5.35	89.1	6.00	4.97		
Total BTEX	<0.300	0.300	04/30/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/30/2018	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	04/30/2018	ND	200	99.8	200	0.0636	
DRO >C10-C28*	13.2	10.0	04/30/2018	ND	197	98.6	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	04/30/2018	ND					

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 65.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 04/30/2018  
 Reported: 05/01/2018  
 Project Name: PLU 078  
 Project Number: #078  
 Project Location: NOT GIVEN

 Sampling Date: 04/29/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A:SP E - 4' (H801177-05)**

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	04/30/2018	ND	1.80	90.0	2.00	5.41		
Toluene*	<0.050	0.050	04/30/2018	ND	1.83	91.6	2.00	5.79		
Ethylbenzene*	<0.050	0.050	04/30/2018	ND	1.83	91.5	2.00	5.96		
Total Xylenes*	<0.150	0.150	04/30/2018	ND	5.35	89.1	6.00	4.97		
Total BTEX	<0.300	0.300	04/30/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 72-148

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	04/30/2018	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	04/30/2018	ND	200	99.8	200	0.0636	
DRO >C10-C28*	<10.0	10.0	04/30/2018	ND	197	98.6	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	04/30/2018	ND					

Surrogate: 1-Chlorooctane 85.6 % 41-142

Surrogate: 1-Chlorooctadecane 64.4 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 04/30/2018  
 Reported: 05/01/2018  
 Project Name: PLU 078  
 Project Number: #078  
 Project Location: NOT GIVEN

 Sampling Date: 04/29/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A:SP F - 2' (H801177-06)**

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	04/30/2018	ND	1.80	90.0	2.00	5.41		
Toluene*	<0.050	0.050	04/30/2018	ND	1.83	91.6	2.00	5.79		
Ethylbenzene*	<0.050	0.050	04/30/2018	ND	1.83	91.5	2.00	5.96		
Total Xylenes*	<0.150	0.150	04/30/2018	ND	5.35	89.1	6.00	4.97		
Total BTEX	<0.300	0.300	04/30/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 72-148

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	04/30/2018	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	04/30/2018	ND	200	99.8	200	0.0636	
DRO >C10-C28*	17.7	10.0	04/30/2018	ND	197	98.6	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	04/30/2018	ND					

Surrogate: 1-Chlorooctane 84.6 % 41-142

Surrogate: 1-Chlorooctadecane 64.5 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 04/30/2018  
 Reported: 05/01/2018  
 Project Name: PLU 078  
 Project Number: #078  
 Project Location: NOT GIVEN

 Sampling Date: 04/29/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A:SP G - 3' (H801177-07)**

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	04/30/2018	ND	1.80	90.0	2.00	5.41		
Toluene*	<0.050	0.050	04/30/2018	ND	1.83	91.6	2.00	5.79		
Ethylbenzene*	<0.050	0.050	04/30/2018	ND	1.83	91.5	2.00	5.96		
Total Xylenes*	<0.150	0.150	04/30/2018	ND	5.35	89.1	6.00	4.97		
Total BTEX	<0.300	0.300	04/30/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 72-148

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	04/30/2018	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	04/30/2018	ND	200	99.8	200	0.0636	
DRO >C10-C28*	<10.0	10.0	04/30/2018	ND	197	98.6	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	04/30/2018	ND					

Surrogate: 1-Chlorooctane 87.7 % 41-142

Surrogate: 1-Chlorooctadecane 65.2 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 04/30/2018  
 Reported: 05/01/2018  
 Project Name: PLU 078  
 Project Number: #078  
 Project Location: NOT GIVEN

 Sampling Date: 04/29/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A:SP H - 2' (H801177-08)**

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	04/30/2018	ND	1.80	90.0	2.00	5.41	
Toluene*	<0.050	0.050	04/30/2018	ND	1.83	91.6	2.00	5.79	
Ethylbenzene*	0.185	0.050	04/30/2018	ND	1.83	91.5	2.00	5.96	
Total Xylenes*	<0.150	0.150	04/30/2018	ND	5.35	89.1	6.00	4.97	
Total BTEX	<0.300	0.300	04/30/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/30/2018	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	04/30/2018	ND	200	99.8	200	0.0636	
<b>DRO &gt;C10-C28*</b>	<b>57.0</b>	10.0	04/30/2018	ND	197	98.6	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	04/30/2018	ND					

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 67.0 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 04/30/2018  
 Reported: 05/01/2018  
 Project Name: PLU 078  
 Project Number: #078  
 Project Location: NOT GIVEN

 Sampling Date: 04/29/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A:SP I - 3' (H801177-09)**

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	04/30/2018	ND	1.80	90.0	2.00	5.41		
Toluene*	<0.050	0.050	04/30/2018	ND	1.83	91.6	2.00	5.79		
Ethylbenzene*	<0.050	0.050	04/30/2018	ND	1.83	91.5	2.00	5.96		
Total Xylenes*	<0.150	0.150	04/30/2018	ND	5.35	89.1	6.00	4.97		
Total BTEX	<0.300	0.300	04/30/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/30/2018	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	04/30/2018	ND	200	99.8	200	0.0636	
DRO >C10-C28*	22.4	10.0	04/30/2018	ND	197	98.6	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	04/30/2018	ND					

Surrogate: 1-Chlorooctane 90.5 % 41-142

Surrogate: 1-Chlorooctadecane 68.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 04/30/2018  
 Reported: 05/01/2018  
 Project Name: PLU 078  
 Project Number: #078  
 Project Location: NOT GIVEN

 Sampling Date: 04/29/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A:SP J - 2' (H801177-10)**

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	04/30/2018	ND	1.80	90.0	2.00	5.41	
Toluene*	<0.050	0.050	04/30/2018	ND	1.83	91.6	2.00	5.79	
Ethylbenzene*	<0.050	0.050	04/30/2018	ND	1.83	91.5	2.00	5.96	
Total Xylenes*	<0.150	0.150	04/30/2018	ND	5.35	89.1	6.00	4.97	
Total BTEx	<0.300	0.300	04/30/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/30/2018	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	04/30/2018	ND	200	99.8	200	0.0636	
DRO >C10-C28*	67.2	10.0	04/30/2018	ND	197	98.6	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	04/30/2018	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 73.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 04/30/2018  
 Reported: 05/01/2018  
 Project Name: PLU 078  
 Project Number: #078  
 Project Location: NOT GIVEN

 Sampling Date: 04/29/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A:SP K - 1' (H801177-11)**

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	04/30/2018	ND	1.80	90.0	2.00	5.41		
Toluene*	<0.050	0.050	04/30/2018	ND	1.83	91.6	2.00	5.79		
Ethylbenzene*	<0.050	0.050	04/30/2018	ND	1.83	91.5	2.00	5.96		
Total Xylenes*	<0.150	0.150	04/30/2018	ND	5.35	89.1	6.00	4.97		
Total BTEX	<0.300	0.300	04/30/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/30/2018	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	04/30/2018	ND	200	99.8	200	0.0636	
DRO >C10-C28*	38.0	10.0	04/30/2018	ND	197	98.6	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	04/30/2018	ND					

Surrogate: 1-Chlorooctane 89.1 % 41-142

Surrogate: 1-Chlorooctadecane 70.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 04/30/2018  
 Reported: 05/01/2018  
 Project Name: PLU 078  
 Project Number: #078  
 Project Location: NOT GIVEN

 Sampling Date: 04/29/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A:SP L - 4' (H801177-12)**

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	04/30/2018	ND	1.80	90.0	2.00	5.41		
Toluene*	<0.050	0.050	04/30/2018	ND	1.83	91.6	2.00	5.79		
Ethylbenzene*	<0.050	0.050	04/30/2018	ND	1.83	91.5	2.00	5.96		
Total Xylenes*	<0.150	0.150	04/30/2018	ND	5.35	89.1	6.00	4.97		
Total BTEX	<0.300	0.300	04/30/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/30/2018	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	04/30/2018	ND	200	99.8	200	0.0636	
DRO >C10-C28*	18.2	10.0	04/30/2018	ND	197	98.6	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	04/30/2018	ND					

Surrogate: 1-Chlorooctane 91.0 % 41-142

Surrogate: 1-Chlorooctadecane 69.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 04/30/2018  
 Reported: 05/01/2018  
 Project Name: PLU 078  
 Project Number: #078  
 Project Location: NOT GIVEN

 Sampling Date: 04/29/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A:SP M - 1' (H801177-13)**

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	04/30/2018	ND	1.80	90.0	2.00	5.41	
Toluene*	<0.050	0.050	04/30/2018	ND	1.83	91.6	2.00	5.79	
Ethylbenzene*	<0.050	0.050	04/30/2018	ND	1.83	91.5	2.00	5.96	
Total Xylenes*	<0.150	0.150	04/30/2018	ND	5.35	89.1	6.00	4.97	
Total BTEX	<0.300	0.300	04/30/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 72-148

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	04/30/2018	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	04/30/2018	ND	200	99.8	200	0.0636	
DRO >C10-C28*	<10.0	10.0	04/30/2018	ND	197	98.6	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	04/30/2018	ND					

Surrogate: 1-Chlorooctane 88.8 % 41-142

Surrogate: 1-Chlorooctadecane 65.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 04/30/2018  
 Reported: 05/01/2018  
 Project Name: PLU 078  
 Project Number: #078  
 Project Location: NOT GIVEN

 Sampling Date: 04/29/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A:SP N - 4' (H801177-14)**

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	04/30/2018	ND	1.80	90.0	2.00	5.41		
Toluene*	<0.050	0.050	04/30/2018	ND	1.83	91.6	2.00	5.79		
Ethylbenzene*	<0.050	0.050	04/30/2018	ND	1.83	91.5	2.00	5.96		
Total Xylenes*	<0.150	0.150	04/30/2018	ND	5.35	89.1	6.00	4.97		
Total BTEX	<0.300	0.300	04/30/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/30/2018	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	04/30/2018	ND	200	99.8	200	0.0636	
DRO >C10-C28*	<10.0	10.0	04/30/2018	ND	197	98.6	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	04/30/2018	ND					

Surrogate: 1-Chlorooctane 84.0 % 41-142

Surrogate: 1-Chlorooctadecane 61.3 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 04/30/2018  
 Reported: 05/01/2018  
 Project Name: PLU 078  
 Project Number: #078  
 Project Location: NOT GIVEN

 Sampling Date: 04/29/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A:SP O - 1' (H801177-15)**

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	04/30/2018	ND	1.80	90.0	2.00	5.41		
Toluene*	<0.050	0.050	04/30/2018	ND	1.83	91.6	2.00	5.79		
Ethylbenzene*	0.060	0.050	04/30/2018	ND	1.83	91.5	2.00	5.96		
Total Xylenes*	<0.150	0.150	04/30/2018	ND	5.35	89.1	6.00	4.97		
Total BTEx	<0.300	0.300	04/30/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/30/2018	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	04/30/2018	ND	200	99.8	200	0.0636	
DRO >C10-C28*	123	10.0	04/30/2018	ND	197	98.6	200	20.4	
EXT DRO >C28-C36	18.3	10.0	04/30/2018	ND					

Surrogate: 1-Chlorooctane 90.3 % 41-142

Surrogate: 1-Chlorooctadecane 76.9 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

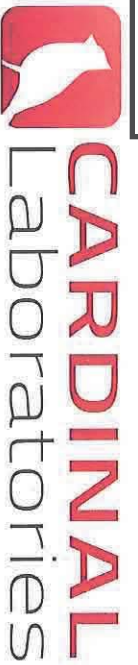
### Notes and Definitions

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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <b>Rx56IL</b>		P.O. #:		<b>BILL TO</b>													
Project Manager: <b>JALE CARAWAY</b>		Company:		<b>ANALYSIS REQUEST</b>													
Address:		Attn:															
City:		Address:															
State:		City:															
Zip:		State:															
Phone #:		Fax #:															
Project #:		Project Owner:															
Project Name:		Phone #:															
Project Location:		Fax #:															
Sampler Name: <b>JACKIE MILLER</b>		PRESERV		SAMPLING													
FOR LAB USE ONLY		MATRIX															
		GROUNDWATER															
		WASTEWATER															
		SOIL															
		OIL															
		SLUDGE															
		OTHER :															
		ACID/BASE:															
		ICE / COOL															
		OTHER :															
Lab I.D.		DATE		TIME													
Sample I.D.																	
1 A:SP A - 4'		6/1/14		0800		CHLORIDES (4500)											
2 A:SP B - 2'						TPH											
3 A:SP C - 3'						BTEX											
4 A:SP D - 2'																	
5 A:SP E - 4'																	
6 A:SP F - 2'																	
7 A:SP G - 3'																	
8 A:SP H - 2'																	
9 A:SP I - 3'																	
10 A:SP J - 2'																	

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Relinquished By: **Chad** Date: **4-30-18** Received By: **Patricia Aldridge** Time: **9:45**

Relinquished By: Date: Time: Received By: Time:

Delivered By: (Circle One) **UPS** Sample Condition: ☒ Cool ☒ Intact ☐ Yes ☐ No ☐ Yes ☐ No CHECKED BY: (Initials) **TE #15**

Sampler - UPS - Bus - Other: **Consolidated O.S.C.**

REMARKS: **160% RUSH**

Phone Result: ☐ Yes ☐ No ☐ Yes ☐ No Add'l Phone #: Add'l Fax #:



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

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## **APPENDIX III.2**

### **Remediation – Cell B**



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

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May 18, 2018

STAN MICKLE

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: PLU 078

Enclosed are the results of analyses for samples received by the laboratory on 05/11/18 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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](http://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:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - CELL B CLOSURE  
 Project Location: NOT GIVEN

 Sampling Date: 05/06/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - SP A-4' (H801328-01)**

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	05/15/2018	ND	1.65	82.6	2.00	1.15	
Toluene*	<0.050	0.050	05/15/2018	ND	1.78	89.0	2.00	0.214	
Ethylbenzene*	<0.050	0.050	05/15/2018	ND	1.81	90.5	2.00	0.554	
Total Xylenes*	<0.150	0.150	05/15/2018	ND	5.61	93.6	6.00	0.532	
Total BTEX	<0.300	0.300	05/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/15/2018	ND	432	108	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	05/14/2018	ND	195	97.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2018	ND	197	98.5	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	05/14/2018	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - CELL B CLOSURE  
 Project Location: NOT GIVEN

 Sampling Date: 05/06/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - SP B-2' (H801328-02)**

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	05/15/2018	ND	1.65	82.6	2.00	1.15	
Toluene*	<0.050	0.050	05/15/2018	ND	1.78	89.0	2.00	0.214	
Ethylbenzene*	<0.050	0.050	05/15/2018	ND	1.81	90.5	2.00	0.554	
Total Xylenes*	<0.150	0.150	05/15/2018	ND	5.61	93.6	6.00	0.532	
Total BTEX	<0.300	0.300	05/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/15/2018	ND	432	108	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	05/14/2018	ND	195	97.7	200	3.03	
DRO >C10-C28*	23.8	10.0	05/14/2018	ND	197	98.5	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	05/14/2018	ND					

Surrogate: 1-Chlorooctane 98.5 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - CELL B CLOSURE  
 Project Location: NOT GIVEN

 Sampling Date: 05/06/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - SP C-1' (H801328-03)**

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	05/15/2018	ND	1.65	82.6	2.00	1.15	
Toluene*	<0.050	0.050	05/15/2018	ND	1.78	89.0	2.00	0.214	
Ethylbenzene*	<0.050	0.050	05/15/2018	ND	1.81	90.5	2.00	0.554	
Total Xylenes*	<0.150	0.150	05/15/2018	ND	5.61	93.6	6.00	0.532	
Total BTEX	<0.300	0.300	05/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/15/2018	ND	432	108	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	05/14/2018	ND	195	97.7	200	3.03	
DRO >C10-C28*	473	10.0	05/14/2018	ND	197	98.5	200	3.68	
EXT DRO >C28-C36	113	10.0	05/14/2018	ND					

Surrogate: 1-Chlorooctane 97.7 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - CELL B CLOSURE  
 Project Location: NOT GIVEN

 Sampling Date: 05/09/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - SP D-2'.3 (H801328-04)**

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	05/15/2018	ND	1.65	82.6	2.00	1.15		
Toluene*	<0.050	0.050	05/15/2018	ND	1.78	89.0	2.00	0.214		
Ethylbenzene*	<0.050	0.050	05/15/2018	ND	1.81	90.5	2.00	0.554		
Total Xylenes*	<0.150	0.150	05/15/2018	ND	5.61	93.6	6.00	0.532		
Total BTEX	<0.300	0.300	05/15/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/15/2018	ND	432	108	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	05/14/2018	ND	195	97.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2018	ND	197	98.5	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	05/14/2018	ND					

Surrogate: 1-Chlorooctane 97.5 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - CELL B CLOSURE  
 Project Location: NOT GIVEN

 Sampling Date: 05/09/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - SP D-3'.3 (H801328-05)**

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	05/15/2018	ND	1.65	82.6	2.00	1.15		
Toluene*	<0.050	0.050	05/15/2018	ND	1.78	89.0	2.00	0.214		
Ethylbenzene*	<0.050	0.050	05/15/2018	ND	1.81	90.5	2.00	0.554		
Total Xylenes*	<0.150	0.150	05/15/2018	ND	5.61	93.6	6.00	0.532		
Total BTEX	<0.300	0.300	05/15/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/15/2018	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	05/14/2018	ND	195	97.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2018	ND	197	98.5	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	05/14/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - CELL B CLOSURE  
 Project Location: NOT GIVEN

 Sampling Date: 05/06/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - SP E-4' (H801328-06)**

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	05/17/2018	ND	2.06	103	2.00	3.57	
Toluene*	<0.050	0.050	05/17/2018	ND	2.12	106	2.00	3.33	
Ethylbenzene*	<0.050	0.050	05/17/2018	ND	2.17	109	2.00	3.34	
Total Xylenes*	<0.150	0.150	05/17/2018	ND	6.40	107	6.00	3.27	
Total BTEX	<0.300	0.300	05/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	05/15/2018	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	05/14/2018	ND	195	97.7	200	3.03	
DRO >C10-C28*	16.7	10.0	05/14/2018	ND	197	98.5	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	05/14/2018	ND					

Surrogate: 1-Chlorooctane 97.8 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

### Analytical Results For:

RX-SOIL INC.  
STAN MICKLE  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 05/11/2018  
Reported: 05/18/2018  
Project Name: PLU 078  
Project Number: XTO - CELL B CLOSURE  
Project Location: NOT GIVEN

Sampling Date: 05/06/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

### Sample ID: B - SP F-2' (H801328-07)

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	05/17/2018	ND	2.06	103	2.00	3.57	
Toluene*	<0.050	0.050	05/17/2018	ND	2.12	106	2.00	3.33	
Ethylbenzene*	<0.050	0.050	05/17/2018	ND	2.17	109	2.00	3.34	
Total Xylenes*	<0.150	0.150	05/17/2018	ND	6.40	107	6.00	3.27	
Total BTEx	<0.300	0.300	05/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/15/2018	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	05/14/2018	ND	195	97.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2018	ND	197	98.5	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	05/14/2018	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - CELL B CLOSURE  
 Project Location: NOT GIVEN

 Sampling Date: 05/06/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - SP G-3' (H801328-08)**

BTX 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	05/17/2018	ND	2.06	103	2.00	3.57	
Toluene*	<0.050	0.050	05/17/2018	ND	2.12	106	2.00	3.33	
Ethylbenzene*	0.063	0.050	05/17/2018	ND	2.17	109	2.00	3.34	
Total Xylenes*	<0.150	0.150	05/17/2018	ND	6.40	107	6.00	3.27	
Total BTX	<0.300	0.300	05/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 72-148

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	05/15/2018	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	05/14/2018	ND	195	97.7	200	3.03	
DRO >C10-C28*	134	10.0	05/14/2018	ND	197	98.5	200	3.68	
EXT DRO >C28-C36	29.1	10.0	05/14/2018	ND					

Surrogate: 1-Chlorooctane 99.2 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - CELL B CLOSURE  
 Project Location: NOT GIVEN

 Sampling Date: 05/06/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - SP H-2' (H801328-09)**

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	05/17/2018	ND	2.06	103	2.00	3.57		
Toluene*	<0.050	0.050	05/17/2018	ND	2.12	106	2.00	3.33		
Ethylbenzene*	<0.050	0.050	05/17/2018	ND	2.17	109	2.00	3.34		
Total Xylenes*	<0.150	0.150	05/17/2018	ND	6.40	107	6.00	3.27		
Total BTEX	<0.300	0.300	05/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 72-148

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	05/15/2018	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	05/14/2018	ND	195	97.7	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2018	ND	197	98.5	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	05/14/2018	ND					

Surrogate: 1-Chlorooctane 97.0 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - CELL B CLOSURE  
 Project Location: NOT GIVEN

 Sampling Date: 05/06/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - SP I-3' (H801328-10)**

BTX 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	05/17/2018	ND	2.06	103	2.00	3.57		
Toluene*	<0.050	0.050	05/17/2018	ND	2.12	106	2.00	3.33		
Ethylbenzene*	<0.050	0.050	05/17/2018	ND	2.17	109	2.00	3.34		
Total Xylenes*	<0.150	0.150	05/17/2018	ND	6.40	107	6.00	3.27		
Total BTX	<0.300	0.300	05/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/15/2018	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	05/14/2018	ND	195	97.7	200	3.03	
DRO >C10-C28*	71.9	10.0	05/14/2018	ND	197	98.5	200	3.68	
EXT DRO >C28-C36	10.4	10.0	05/14/2018	ND					

Surrogate: 1-Chlorooctane 98.2 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - CELL B CLOSURE  
 Project Location: NOT GIVEN

 Sampling Date: 05/06/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - SP J-2' (H801328-11)**

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	05/17/2018	ND	2.06	103	2.00	3.57	
Toluene*	<0.050	0.050	05/17/2018	ND	2.12	106	2.00	3.33	
Ethylbenzene*	<0.050	0.050	05/17/2018	ND	2.17	109	2.00	3.34	
Total Xylenes*	<0.150	0.150	05/17/2018	ND	6.40	107	6.00	3.27	
Total BTEx	<0.300	0.300	05/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

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	05/15/2018	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	05/15/2018	ND	207	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	05/15/2018	ND	211	106	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	05/15/2018	ND					

Surrogate: 1-Chlorooctane 94.8 % 41-142

Surrogate: 1-Chlorooctadecane 97.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - CELL B CLOSURE  
 Project Location: NOT GIVEN

 Sampling Date: 05/06/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - SP K-1' (H801328-12)**

BTX 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	05/17/2018	ND	2.06	103	2.00	3.57	
Toluene*	<0.050	0.050	05/17/2018	ND	2.12	106	2.00	3.33	
Ethylbenzene*	<0.050	0.050	05/17/2018	ND	2.17	109	2.00	3.34	
Total Xylenes*	<0.150	0.150	05/17/2018	ND	6.40	107	6.00	3.27	
Total BTX	<0.300	0.300	05/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

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	05/15/2018	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	05/15/2018	ND	207	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	05/15/2018	ND	211	106	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	05/15/2018	ND					

Surrogate: 1-Chlorooctane 99.3 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - CELL B CLOSURE  
 Project Location: NOT GIVEN

 Sampling Date: 05/06/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - SP L-4' (H801328-13)**

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	05/17/2018	ND	2.06	103	2.00	3.57		
Toluene*	<0.050	0.050	05/17/2018	ND	2.12	106	2.00	3.33		
Ethylbenzene*	<0.050	0.050	05/17/2018	ND	2.17	109	2.00	3.34		
Total Xylenes*	<0.150	0.150	05/17/2018	ND	6.40	107	6.00	3.27		
Total BTEX	<0.300	0.300	05/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	05/15/2018	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	05/15/2018	ND	207	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	05/15/2018	ND	211	106	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	05/15/2018	ND					

Surrogate: 1-Chlorooctane 99.7 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - CELL B CLOSURE  
 Project Location: NOT GIVEN

 Sampling Date: 05/06/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - SP M-1' (H801328-14)**

BTX 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	05/17/2018	ND	2.06	103	2.00	3.57		
Toluene*	<0.050	0.050	05/17/2018	ND	2.12	106	2.00	3.33		
Ethylbenzene*	<0.050	0.050	05/17/2018	ND	2.17	109	2.00	3.34		
Total Xylenes*	<0.150	0.150	05/17/2018	ND	6.40	107	6.00	3.27		
Total BTX	<0.300	0.300	05/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/15/2018	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	05/15/2018	ND	207	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	05/15/2018	ND	211	106	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	05/15/2018	ND					

Surrogate: 1-Chlorooctane 93.9 % 41-142

Surrogate: 1-Chlorooctadecane 94.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - CELL B CLOSURE  
 Project Location: NOT GIVEN

 Sampling Date: 05/08/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - SP N-4'.2 (H801328-15)**

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	05/17/2018	ND	2.06	103	2.00	3.57		
Toluene*	<0.050	0.050	05/17/2018	ND	2.12	106	2.00	3.33		
Ethylbenzene*	<0.050	0.050	05/17/2018	ND	2.17	109	2.00	3.34		
Total Xylenes*	<0.150	0.150	05/17/2018	ND	6.40	107	6.00	3.27		
Total BTEX	<0.300	0.300	05/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 72-148

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	05/15/2018	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	05/15/2018	ND	207	104	200	4.03	
DRO >C10-C28*	163	10.0	05/15/2018	ND	211	106	200	6.21	
EXT DRO >C28-C36	32.2	10.0	05/15/2018	ND					

Surrogate: 1-Chlorooctane 97.9 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/11/2018  
 Reported: 05/18/2018  
 Project Name: PLU 078  
 Project Number: XTO - CELL B CLOSURE  
 Project Location: NOT GIVEN

 Sampling Date: 05/06/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B - SP O-1' (H801328-16)**

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	05/17/2018	ND	2.06	103	2.00	3.57	
Toluene*	<0.050	0.050	05/17/2018	ND	2.12	106	2.00	3.33	
Ethylbenzene*	<0.050	0.050	05/17/2018	ND	2.17	109	2.00	3.34	
Total Xylenes*	<0.150	0.150	05/17/2018	ND	6.40	107	6.00	3.27	
Total BTEX	<0.300	0.300	05/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

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	05/15/2018	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	05/15/2018	ND	214	107	200	20.4	
DRO >C10-C28*	<10.0	10.0	05/15/2018	ND	212	106	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	05/15/2018	ND					

Surrogate: 1-Chlorooctane 81.0 % 41-142

Surrogate: 1-Chlorooctadecane 70.4 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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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.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Company Name: <u>RX Soil</u>		P.O. #:		<b>BILL TO</b>																																					
Project Manager:		Company:		<b>ANALYSIS REQUEST</b>																																					
Address:		Attn:																																							
City:		Address:																																							
State:		City:																																							
Zip:		State:																																							
Phone #:		Fax #:																																							
Project #:		Project Owner:																																							
Project Name: <u>XTD PLU 078</u>		City:																																							
Project Location: <u>Cell B Closure</u>		State:																																							
Sample Name:		Phone #:																																							
FOR LAB USE ONLY		Fax #:																																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
1 B-SPA-4'		5/6/18																																							
2 B-SPB-2'		5/6/18																																							
3 B-SPC-1'		5/6/18																																							
4 B-SPD-2'-3'		5/6/18																																							
5 B-SPD-3'-3'		5/6/18																																							
6 B-SPE-4'		5/6/18																																							
7 B-SPF-2'		5/6/18																																							
8 B-SPG-3'		5/6/18																																							
9 B-SPH-2'		5/6/18																																							
10 B-SPI-3'		5/6/18																																							

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 services. 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: [Signature] Date: 5/11/18 Time: 12:45 Received By: [Signature] Date: 5/11/18 Time: 12:45

Delivered By: (Circle One) 1.12 Sample Condition ☒ Cool ☐ Intact ☒ Yes ☐ No ☒ Yes ☐ No CHECKED BY: (Initials) TS

Sampler - UPS - Bus - Other: Counted 1.05 REMARKS: has some mudstone



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

[illegible]

## **APPENDIX III.3**

### **Remediation – Cells C and D**



June 04, 2018

JACE CARAWAY

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: 139/078

Enclosed are the results of analyses for samples received by the laboratory on 05/29/18 9:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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](http://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,

A handwritten signature in blue ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
JACE CARAWAY  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 05/29/2018  
Reported: 06/04/2018  
Project Name: 139/078  
Project Number: NONE GIVEN  
Project Location: LOVING, NM

Sampling Date: 05/25/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSP A-4 (H801451-01)**

BTX 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	05/30/2018	ND	1.89	94.4	2.00	2.20	
Toluene*	<0.050	0.050	05/30/2018	ND	1.95	97.3	2.00	2.47	
Ethylbenzene*	<0.050	0.050	05/30/2018	ND	1.97	98.6	2.00	2.70	
Total Xylenes*	<0.150	0.150	05/30/2018	ND	5.77	96.1	6.00	2.66	
Total BTX	<0.300	0.300	05/30/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/04/2018	ND	448	112	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	05/29/2018	ND	199	99.5	200	4.23	
DRO >C10-C28*	12.7	10.0	05/29/2018	ND	215	107	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2018	ND					

Surrogate: 1-Chlorooctane 78.2 % 41-142

Surrogate: 1-Chlorooctadecane 72.2 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

RX-SOIL INC.  
JACE CARAWAY  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 05/29/2018  
Reported: 06/04/2018  
Project Name: 139/078  
Project Number: NONE GIVEN  
Project Location: LOVING, NM

Sampling Date: 05/25/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSP B-2 (H801451-02)**

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	05/30/2018	ND	1.89	94.4	2.00	2.20	
Toluene*	<0.050	0.050	05/30/2018	ND	1.95	97.3	2.00	2.47	
Ethylbenzene*	<0.050	0.050	05/30/2018	ND	1.97	98.6	2.00	2.70	
Total Xylenes*	<0.150	0.150	05/30/2018	ND	5.77	96.1	6.00	2.66	
Total BTEX	<0.300	0.300	05/30/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/04/2018	ND	448	112	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	05/29/2018	ND	199	99.5	200	4.23	
DRO >C10-C28*	14.8	10.0	05/29/2018	ND	215	107	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2018	ND					

Surrogate: 1-Chlorooctane 79.6 % 41-142

Surrogate: 1-Chlorooctadecane 73.2 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/29/2018  
 Reported: 06/04/2018  
 Project Name: 139/078  
 Project Number: NONE GIVEN  
 Project Location: LOVING, NM

 Sampling Date: 05/25/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CSP C-3 (H801451-03)**

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	05/30/2018	ND	1.89	94.4	2.00	2.20	
Toluene*	<0.050	0.050	05/30/2018	ND	1.95	97.3	2.00	2.47	
Ethylbenzene*	<0.050	0.050	05/30/2018	ND	1.97	98.6	2.00	2.70	
Total Xylenes*	<0.150	0.150	05/30/2018	ND	5.77	96.1	6.00	2.66	
Total BTEX	<0.300	0.300	05/30/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

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	06/04/2018	ND	448	112	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	05/29/2018	ND	199	99.5	200	4.23	
DRO >C10-C28*	11.1	10.0	05/29/2018	ND	215	107	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2018	ND					

Surrogate: 1-Chlorooctane 80.4 % 41-142

Surrogate: 1-Chlorooctadecane 72.8 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/29/2018  
 Reported: 06/04/2018  
 Project Name: 139/078  
 Project Number: NONE GIVEN  
 Project Location: LOVING, NM

 Sampling Date: 05/25/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CSP D-2 (H801451-04)**

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	05/30/2018	ND	1.89	94.4	2.00	2.20	
Toluene*	<0.050	0.050	05/30/2018	ND	1.95	97.3	2.00	2.47	
Ethylbenzene*	<0.050	0.050	05/30/2018	ND	1.97	98.6	2.00	2.70	
Total Xylenes*	<0.150	0.150	05/30/2018	ND	5.77	96.1	6.00	2.66	
Total BTEX	<0.300	0.300	05/30/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	06/04/2018	ND	448	112	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	05/29/2018	ND	199	99.5	200	4.23	
DRO >C10-C28*	<10.0	10.0	05/29/2018	ND	215	107	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	05/29/2018	ND					

Surrogate: 1-Chlorooctane 79.5 % 41-142

Surrogate: 1-Chlorooctadecane 72.1 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RX-SOIL INC.  
JACE CARAWAY  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 05/29/2018  
Reported: 06/04/2018  
Project Name: 139/078  
Project Number: NONE GIVEN  
Project Location: LOVING, NM

Sampling Date: 05/25/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSP E-4 (H801451-05)**

BTX 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	05/30/2018	ND	1.89	94.4	2.00	2.20	
Toluene*	<0.050	0.050	05/30/2018	ND	1.95	97.3	2.00	2.47	
Ethylbenzene*	<0.050	0.050	05/30/2018	ND	1.97	98.6	2.00	2.70	
Total Xylenes*	<0.150	0.150	05/30/2018	ND	5.77	96.1	6.00	2.66	
Total BTX	<0.300	0.300	05/30/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/04/2018	ND	448	112	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	05/30/2018	ND	199	99.5	200	4.23	
DRO >C10-C28*	<10.0	10.0	05/30/2018	ND	215	107	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 78.1 % 41-142

Surrogate: 1-Chlorooctadecane 71.2 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
JACE CARAWAY  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 05/29/2018  
Reported: 06/04/2018  
Project Name: 139/078  
Project Number: NONE GIVEN  
Project Location: LOVING, NM

Sampling Date: 05/25/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSP F-2 (H801451-06)**

BTX 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	05/30/2018	ND	1.89	94.4	2.00	2.20	
Toluene*	<0.050	0.050	05/30/2018	ND	1.95	97.3	2.00	2.47	
Ethylbenzene*	<0.050	0.050	05/30/2018	ND	1.97	98.6	2.00	2.70	
Total Xylenes*	<0.150	0.150	05/30/2018	ND	5.77	96.1	6.00	2.66	
Total BTX	<0.300	0.300	05/30/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	06/04/2018	ND	448	112	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	05/30/2018	ND	199	99.5	200	4.23	
DRO >C10-C28*	163	10.0	05/30/2018	ND	215	107	200	4.48	
EXT DRO >C28-C36	36.6	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 82.0 % 41-142

Surrogate: 1-Chlorooctadecane 82.4 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/29/2018  
 Reported: 06/04/2018  
 Project Name: 139/078  
 Project Number: NONE GIVEN  
 Project Location: LOVING, NM

 Sampling Date: 05/25/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CSP G-3 (H801451-07)**

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	05/30/2018	ND	1.89	94.4	2.00	2.20	
Toluene*	<0.050	0.050	05/30/2018	ND	1.95	97.3	2.00	2.47	
Ethylbenzene*	<0.050	0.050	05/30/2018	ND	1.97	98.6	2.00	2.70	
Total Xylenes*	<0.150	0.150	05/30/2018	ND	5.77	96.1	6.00	2.66	
Total BTEX	<0.300	0.300	05/30/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	06/04/2018	ND	448	112	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	05/30/2018	ND	199	99.5	200	4.23	
DRO >C10-C28*	162	10.0	05/30/2018	ND	215	107	200	4.48	
EXT DRO >C28-C36	34.9	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 75.0 % 41-142

Surrogate: 1-Chlorooctadecane 77.7 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
JACE CARAWAY  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 05/29/2018  
Reported: 06/04/2018  
Project Name: 139/078  
Project Number: NONE GIVEN  
Project Location: LOVING, NM

Sampling Date: 05/25/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSP H-2 (H801451-08)**

BTX 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	05/30/2018	ND	1.89	94.4	2.00	2.20	
Toluene*	<0.050	0.050	05/30/2018	ND	1.95	97.3	2.00	2.47	
Ethylbenzene*	<0.050	0.050	05/30/2018	ND	1.97	98.6	2.00	2.70	
Total Xylenes*	<0.150	0.150	05/30/2018	ND	5.77	96.1	6.00	2.66	
Total BTX	<0.300	0.300	05/30/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	06/04/2018	ND	448	112	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	05/30/2018	ND	198	99.1	200	3.71	
DRO >C10-C28*	201	10.0	05/30/2018	ND	213	107	200	3.62	
EXT DRO >C28-C36	32.9	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 85.5 % 41-142

Surrogate: 1-Chlorooctadecane 88.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/29/2018  
 Reported: 06/04/2018  
 Project Name: 139/078  
 Project Number: NONE GIVEN  
 Project Location: LOVING, NM

 Sampling Date: 05/25/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CSP I-3 (H801451-09)**

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	05/30/2018	ND	1.89	94.4	2.00	2.20	
Toluene*	<0.050	0.050	05/30/2018	ND	1.95	97.3	2.00	2.47	
Ethylbenzene*	<0.050	0.050	05/30/2018	ND	1.97	98.6	2.00	2.70	
Total Xylenes*	<0.150	0.150	05/30/2018	ND	5.77	96.1	6.00	2.66	
Total BTEX	<0.300	0.300	05/30/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	06/04/2018	ND	448	112	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	05/30/2018	ND	189	94.5	200	4.51	
DRO >C10-C28*	28.8	10.0	05/30/2018	ND	188	93.9	200	6.61	
EXT DRO >C28-C36	<10.0	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 81.2 % 41-142

Surrogate: 1-Chlorooctadecane 93.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/29/2018  
 Reported: 06/04/2018  
 Project Name: 139/078  
 Project Number: NONE GIVEN  
 Project Location: LOVING, NM

 Sampling Date: 05/25/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CSP J-2 (H801451-10)**

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	05/30/2018	ND	1.89	94.4	2.00	2.20	
Toluene*	<0.050	0.050	05/30/2018	ND	1.95	97.3	2.00	2.47	
Ethylbenzene*	<0.050	0.050	05/30/2018	ND	1.97	98.6	2.00	2.70	
Total Xylenes*	<0.150	0.150	05/30/2018	ND	5.77	96.1	6.00	2.66	
Total BTEX	<0.300	0.300	05/30/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

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	06/04/2018	ND	448	112	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	05/30/2018	ND	189	94.5	200	4.51	
DRO >C10-C28*	<10.0	10.0	05/30/2018	ND	188	93.9	200	6.61	
EXT DRO >C28-C36	<10.0	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 82.1 % 41-142

Surrogate: 1-Chlorooctadecane 90.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/29/2018  
 Reported: 06/04/2018  
 Project Name: 139/078  
 Project Number: NONE GIVEN  
 Project Location: LOVING, NM

 Sampling Date: 05/25/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CSP K-1 (H801451-11)**

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	05/30/2018	ND	1.89	94.4	2.00	2.20	
Toluene*	<0.050	0.050	05/30/2018	ND	1.95	97.3	2.00	2.47	
Ethylbenzene*	<0.050	0.050	05/30/2018	ND	1.97	98.6	2.00	2.70	
Total Xylenes*	<0.150	0.150	05/30/2018	ND	5.77	96.1	6.00	2.66	
Total BTEX	<0.300	0.300	05/30/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>960</b>	16.0	06/04/2018	ND	448	112	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	05/30/2018	ND	189	94.5	200	4.51	
<b>DRO &gt;C10-C28*</b>	<b>62.8</b>	10.0	05/30/2018	ND	188	93.9	200	6.61	
<b>EXT DRO &gt;C28-C36</b>	<b>15.6</b>	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 82.8 % 41-142

Surrogate: 1-Chlorooctadecane 95.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/29/2018  
 Reported: 06/04/2018  
 Project Name: 139/078  
 Project Number: NONE GIVEN  
 Project Location: LOVING, NM

 Sampling Date: 05/25/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CSP L-4 (H801451-12)**

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	05/30/2018	ND	1.89	94.4	2.00	2.20	
Toluene*	<0.050	0.050	05/30/2018	ND	1.95	97.3	2.00	2.47	
<b>Ethylbenzene*</b>	<b>0.054</b>	0.050	05/30/2018	ND	1.97	98.6	2.00	2.70	
Total Xylenes*	<0.150	0.150	05/30/2018	ND	5.77	96.1	6.00	2.66	
Total BTEX	<0.300	0.300	05/30/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	06/04/2018	ND	448	112	400	11.3	

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	05/30/2018	ND	189	94.5	200	4.51	
<b>DRO &gt;C10-C28*</b>	<b>110</b>	10.0	05/30/2018	ND	188	93.9	200	6.61	
<b>EXT DRO &gt;C28-C36</b>	<b>29.0</b>	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 84.4 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RX-SOIL INC.  
JACE CARAWAY  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 05/29/2018  
Reported: 06/04/2018  
Project Name: 139/078  
Project Number: NONE GIVEN  
Project Location: LOVING, NM

Sampling Date: 05/25/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSP M-1 (H801451-13)**

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	05/30/2018	ND	1.89	94.4	2.00	2.20	
Toluene*	<0.050	0.050	05/30/2018	ND	1.95	97.3	2.00	2.47	
Ethylbenzene*	<0.050	0.050	05/30/2018	ND	1.97	98.6	2.00	2.70	
Total Xylenes*	<0.150	0.150	05/30/2018	ND	5.77	96.1	6.00	2.66	
Total BTEX	<0.300	0.300	05/30/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1570</b>	16.0	06/04/2018	ND	448	112	400	11.3	

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	05/30/2018	ND	189	94.5	200	4.51	
<b>DRO &gt;C10-C28*</b>	<b>154</b>	10.0	05/30/2018	ND	188	93.9	200	6.61	
<b>EXT DRO &gt;C28-C36</b>	<b>52.9</b>	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 85.0 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/29/2018  
 Reported: 06/04/2018  
 Project Name: 139/078  
 Project Number: NONE GIVEN  
 Project Location: LOVING, NM

 Sampling Date: 05/25/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CSP N-4 (H801451-14)**

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	05/30/2018	ND	1.89	94.4	2.00	2.20	
Toluene*	<0.050	0.050	05/30/2018	ND	1.95	97.3	2.00	2.47	
Ethylbenzene*	<0.050	0.050	05/30/2018	ND	1.97	98.6	2.00	2.70	
Total Xylenes*	<0.150	0.150	05/30/2018	ND	5.77	96.1	6.00	2.66	
Total BTEX	<0.300	0.300	05/30/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/04/2018	ND	448	112	400	11.3	

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	05/30/2018	ND	189	94.5	200	4.51	
DRO >C10-C28*	15.4	10.0	05/30/2018	ND	188	93.9	200	6.61	
EXT DRO >C28-C36	<10.0	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 81.9 % 41-142

Surrogate: 1-Chlorooctadecane 90.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
JACE CARAWAY  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 05/29/2018  
Reported: 06/04/2018  
Project Name: 139/078  
Project Number: NONE GIVEN  
Project Location: LOVING, NM

Sampling Date: 05/25/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSP O-1 (H801451-15)**

BTX 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	05/31/2018	ND	1.70	85.1	2.00	2.16	
Toluene*	<0.050	0.050	05/31/2018	ND	1.67	83.6	2.00	3.60	
Ethylbenzene*	<0.050	0.050	05/31/2018	ND	1.69	84.7	2.00	2.03	
Total Xylenes*	<0.150	0.150	05/31/2018	ND	5.33	88.9	6.00	1.13	
Total BTX	<0.300	0.300	05/31/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	06/04/2018	ND	448	112	400	11.3	

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	05/30/2018	ND	189	94.5	200	4.51	
DRO >C10-C28*	13.0	10.0	05/30/2018	ND	188	93.9	200	6.61	
EXT DRO >C28-C36	<10.0	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 81.8 % 41-142

Surrogate: 1-Chlorooctadecane 90.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RX-SOIL INC.  
JACE CARAWAY  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 05/29/2018  
Reported: 06/04/2018  
Project Name: 139/078  
Project Number: NONE GIVEN  
Project Location: LOVING, NM

Sampling Date: 05/25/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: DSP A-5 (H801451-16)**

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	05/31/2018	ND	1.70	85.1	2.00	2.16	
Toluene*	<0.050	0.050	05/31/2018	ND	1.67	83.6	2.00	3.60	
Ethylbenzene*	<0.050	0.050	05/31/2018	ND	1.69	84.7	2.00	2.03	
Total Xylenes*	<0.150	0.150	05/31/2018	ND	5.33	88.9	6.00	1.13	
Total BTEX	<0.300	0.300	05/31/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/04/2018	ND	448	112	400	11.3	

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	05/30/2018	ND	189	94.5	200	4.51	
DRO >C10-C28*	<10.0	10.0	05/30/2018	ND	188	93.9	200	6.61	
EXT DRO >C28-C36	<10.0	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 80.0 % 41-142

Surrogate: 1-Chlorooctadecane 86.5 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/29/2018  
 Reported: 06/04/2018  
 Project Name: 139/078  
 Project Number: NONE GIVEN  
 Project Location: LOVING, NM

 Sampling Date: 05/25/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DSP B-1 (H801451-17)**

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	05/31/2018	ND	1.70	85.1	2.00	2.16	
Toluene*	<0.050	0.050	05/31/2018	ND	1.67	83.6	2.00	3.60	
Ethylbenzene*	<0.050	0.050	05/31/2018	ND	1.69	84.7	2.00	2.03	
Total Xylenes*	<0.150	0.150	05/31/2018	ND	5.33	88.9	6.00	1.13	
Total BTEX	<0.300	0.300	05/31/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/04/2018	ND	448	112	400	11.3	

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	05/30/2018	ND	189	94.5	200	4.51	
DRO >C10-C28*	<10.0	10.0	05/30/2018	ND	188	93.9	200	6.61	
EXT DRO >C28-C36	<10.0	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 81.7 % 41-142

Surrogate: 1-Chlorooctadecane 88.3 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/29/2018  
 Reported: 06/04/2018  
 Project Name: 139/078  
 Project Number: NONE GIVEN  
 Project Location: LOVING, NM

 Sampling Date: 05/25/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DSP C-2 (H801451-18)**

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	05/31/2018	ND	1.70	85.1	2.00	2.16	
Toluene*	<0.050	0.050	05/31/2018	ND	1.67	83.6	2.00	3.60	
Ethylbenzene*	<0.050	0.050	05/31/2018	ND	1.69	84.7	2.00	2.03	
Total Xylenes*	<0.150	0.150	05/31/2018	ND	5.33	88.9	6.00	1.13	
Total BTEX	<0.300	0.300	05/31/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

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	06/04/2018	ND	448	112	400	11.3	

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	05/30/2018	ND	189	94.5	200	4.51	
DRO >C10-C28*	<10.0	10.0	05/30/2018	ND	188	93.9	200	6.61	
EXT DRO >C28-C36	<10.0	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 81.3 % 41-142

Surrogate: 1-Chlorooctadecane 89.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/29/2018  
 Reported: 06/04/2018  
 Project Name: 139/078  
 Project Number: NONE GIVEN  
 Project Location: LOVING, NM

 Sampling Date: 05/25/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DSP D-3 (H801451-19)**

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	05/31/2018	ND	1.70	85.1	2.00	2.16	
Toluene*	<0.050	0.050	05/31/2018	ND	1.67	83.6	2.00	3.60	
Ethylbenzene*	<0.050	0.050	05/31/2018	ND	1.69	84.7	2.00	2.03	
Total Xylenes*	<0.150	0.150	05/31/2018	ND	5.33	88.9	6.00	1.13	
Total BTEX	<0.300	0.300	05/31/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/04/2018	ND	448	112	400	11.3	

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	05/30/2018	ND	189	94.5	200	4.51	
DRO >C10-C28*	<10.0	10.0	05/30/2018	ND	188	93.9	200	6.61	
EXT DRO >C28-C36	<10.0	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 82.9 % 41-142

Surrogate: 1-Chlorooctadecane 93.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/29/2018  
 Reported: 06/04/2018  
 Project Name: 139/078  
 Project Number: NONE GIVEN  
 Project Location: LOVING, NM

 Sampling Date: 05/25/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DSP E-4 (H801451-20)**

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	05/31/2018	ND	1.70	85.1	2.00	2.16	
Toluene*	<0.050	0.050	05/31/2018	ND	1.67	83.6	2.00	3.60	
Ethylbenzene*	<0.050	0.050	05/31/2018	ND	1.69	84.7	2.00	2.03	
Total Xylenes*	<0.150	0.150	05/31/2018	ND	5.33	88.9	6.00	1.13	
Total BTEX	<0.300	0.300	05/31/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/04/2018	ND	448	112	400	11.3	

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	05/30/2018	ND	189	94.5	200	4.51	
DRO >C10-C28*	<10.0	10.0	05/30/2018	ND	188	93.9	200	6.61	
EXT DRO >C28-C36	<10.0	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 75.8 % 41-142

Surrogate: 1-Chlorooctadecane 82.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
JACE CARAWAY  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 05/29/2018  
Reported: 06/04/2018  
Project Name: 139/078  
Project Number: NONE GIVEN  
Project Location: LOVING, NM

Sampling Date: 05/25/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: DSP F-5 (H801451-21)**

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	05/31/2018	ND	1.70	85.1	2.00	2.16	
Toluene*	<0.050	0.050	05/31/2018	ND	1.67	83.6	2.00	3.60	
Ethylbenzene*	<0.050	0.050	05/31/2018	ND	1.69	84.7	2.00	2.03	
Total Xylenes*	<0.150	0.150	05/31/2018	ND	5.33	88.9	6.00	1.13	
Total BTEX	<0.300	0.300	05/31/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

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	06/04/2018	ND	448	112	400	11.3	

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	05/30/2018	ND	189	94.5	200	4.51	
DRO >C10-C28*	<10.0	10.0	05/30/2018	ND	188	93.9	200	6.61	
EXT DRO >C28-C36	<10.0	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 80.8 % 41-142

Surrogate: 1-Chlorooctadecane 88.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/29/2018  
 Reported: 06/04/2018  
 Project Name: 139/078  
 Project Number: NONE GIVEN  
 Project Location: LOVING, NM

 Sampling Date: 05/25/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DSP G-1 (H801451-22)**

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	05/31/2018	ND	1.70	85.1	2.00	2.16	
Toluene*	<0.050	0.050	05/31/2018	ND	1.67	83.6	2.00	3.60	
Ethylbenzene*	<0.050	0.050	05/31/2018	ND	1.69	84.7	2.00	2.03	
Total Xylenes*	<0.150	0.150	05/31/2018	ND	5.33	88.9	6.00	1.13	
Total BTEX	<0.300	0.300	05/31/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/04/2018	ND	448	112	400	11.3	

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	05/30/2018	ND	189	94.5	200	4.51	
DRO >C10-C28*	<10.0	10.0	05/30/2018	ND	188	93.9	200	6.61	
EXT DRO >C28-C36	<10.0	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 83.4 % 41-142

Surrogate: 1-Chlorooctadecane 92.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/29/2018  
 Reported: 06/04/2018  
 Project Name: 139/078  
 Project Number: NONE GIVEN  
 Project Location: LOVING, NM

 Sampling Date: 05/25/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DSP H-3 (H801451-23)**

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	06/01/2018	ND	1.70	85.1	2.00	2.16		
Toluene*	<0.050	0.050	06/01/2018	ND	1.67	83.6	2.00	3.60		
Ethylbenzene*	<0.050	0.050	06/01/2018	ND	1.69	84.7	2.00	2.03		
Total Xylenes*	<0.150	0.150	06/01/2018	ND	5.33	88.9	6.00	1.13		
Total BTEx	<0.300	0.300	06/01/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/04/2018	ND	448	112	400	11.3		

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	05/30/2018	ND	189	94.5	200	4.51	
DRO >C10-C28*	<10.0	10.0	05/30/2018	ND	188	93.9	200	6.61	
EXT DRO >C28-C36	<10.0	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 79.6 % 41-142

Surrogate: 1-Chlorooctadecane 86.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 05/29/2018  
 Reported: 06/04/2018  
 Project Name: 139/078  
 Project Number: NONE GIVEN  
 Project Location: LOVING, NM

 Sampling Date: 05/25/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DSP I-5 (H801451-24)**

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	05/31/2018	ND	1.70	85.1	2.00	2.16	
Toluene*	<0.050	0.050	05/31/2018	ND	1.67	83.6	2.00	3.60	
Ethylbenzene*	<0.050	0.050	05/31/2018	ND	1.69	84.7	2.00	2.03	
Total Xylenes*	<0.150	0.150	05/31/2018	ND	5.33	88.9	6.00	1.13	
Total BTEX	<0.300	0.300	05/31/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

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	06/04/2018	ND	448	112	400	11.3	

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	05/30/2018	ND	189	94.5	200	4.51	
DRO >C10-C28*	12.1	10.0	05/30/2018	ND	188	93.9	200	6.61	
EXT DRO >C28-C36	<10.0	10.0	05/30/2018	ND					

Surrogate: 1-Chlorooctane 80.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.4 % 37.6-147

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\*=Accredited Analyte

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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

---

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Celey D. Keene, Lab Director/Quality Manager



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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

[illegible]

## **APPENDIX III.4**

### **Remediation – Cell C Retest 1**



June 05, 2018

STAN MICKLE

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: PLU 078

Enclosed are the results of analyses for samples received by the laboratory on 06/05/18 9:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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](http://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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
STAN MICKLE  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 06/05/2018  
Reported: 06/05/2018  
Project Name: PLU 078  
Project Number: XTO - CELL C  
Project Location: NOT GIVEN

Sampling Date: 05/25/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSP F-2.2 (H801510-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/05/2018	ND	448	112	400	11.3	

**Sample ID: CSP G-3.2 (H801510-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/05/2018	ND	432	108	400	0.00	

**Sample ID: CSP H-2.2 (H801510-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/05/2018	ND	432	108	400	0.00	

**Sample ID: CSP I-3.2 (H801510-04)**

Chloride, SM4500CI-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	06/05/2018	ND	432	108	400	0.00	

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 STAN MICKLE  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 06/05/2018  
 Reported: 06/05/2018  
 Project Name: PLU 078  
 Project Number: XTO - CELL C  
 Project Location: NOT GIVEN

 Sampling Date: 05/25/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CSP K-1.2 (H801510-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/05/2018	ND	432	108	400	0.00		

**Sample ID: CSP M-1.2 (H801510-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/05/2018	ND	432	108	400	0.00		

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Mike Snyder For 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

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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100% RUSH

## **APPENDIX III.5**

### **Remediation – Cell C Retest 2**



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

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August 09, 2018

JACE CARAWAY

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: XTO 078

Enclosed are the results of analyses for samples received by the laboratory on 08/09/18 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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](http://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,

A handwritten signature in black ink, appearing to read "Mike Snyder", is shown on a light-colored background.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 RX-SOIL INC.  
 JACE CARAWAY  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

 Received: 08/09/2018  
 Reported: 08/09/2018  
 Project Name: XTO 078  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/08/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CSP - H4 (H802192-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/09/2018	ND	416	104	400	0.00		

**Sample ID: CSP - K3 (H802192-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/09/2018	ND	416	104	400	0.00		

**Sample ID: CSP - M3 (H802192-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/09/2018	ND	416	104	400	0.00		

**Sample ID: CSP - G1 (H802192-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/09/2018	ND	400	100	400	0.00		

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
JACE CARAWAY  
201 MAIN STREET, SUITE 1360  
FORT WORTH TX, 76102  
Fax To: NA

Received: 08/09/2018  
Reported: 08/09/2018  
Project Name: XTO 078  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 08/08/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSP - F3 (H802192-05)**

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	08/09/2018	ND	416	104	400	0.00		

**Sample ID: CSP - I1 (H802192-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	08/09/2018	ND	400	100	400	0.00		

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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***	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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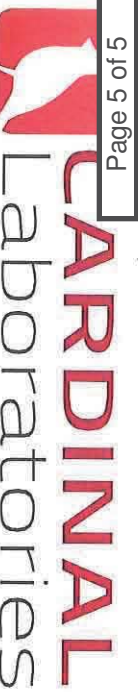
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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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(575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

<b>Company Name:</b> <u>RX Soil</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
<b>Project Manager:</b> <u>Jace Caraway</u>				<b>P.O. #:</b>															
<b>Address:</b>				<b>Company:</b>															
<b>City:</b>				<b>Attn:</b>															
<b>State:</b>				<b>Address:</b>															
<b>Phone #:</b>				<b>City:</b>															
<b>Fax #:</b>				<b>State:</b>															
<b>Project #:</b>				<b>Zip:</b>															
<b>Project Name:</b>				<b>Phone #:</b>															
<b>Project Location:</b> <u>XTD 078</u>				<b>Fax #:</b>															
<b>Sampler Name:</b> <u>Matt Longenecker</u>																			
<b>FOR LAB USE ONLY</b>																			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
#802192												
1	CSP-H4								8/8			Chlorides
2	CSP-K3											
3	CSP-M3											
4	CSP-G1											
5	CSP-F3											
6	CSP-I1								8/8			

<b>Relinquished By:</b> <u>Matt Longenecker</u>		<b>Received By:</b> <u>Matthew Decker</u>	
<b>Date:</b> <u>8/9</u>	<b>Date:</b> <u>8/9</u>	<b>Time:</b>	<b>Time:</b>
<b>Relinquished By:</b>	<b>Received By:</b>	<b>Time:</b>	<b>Time:</b>

<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other: <u>3.92 / 3.85</u>	<b>Sample Condition</b> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	<b>CHECKED BY:</b> (Initials) <u>YD-HRS</u>
--	--	---

<b>REMARKS:</b> <u>Matthew Longenecker @ RX Soil Solutions</u> <u>817-992-7649</u> <u>Bush!</u>	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	<b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:
--	---	---

**END OF REPORT**