



March 15, 2021

NMOCD District 2
811 S. First St
Artesia, NM 88210

Re: Closure Request
Apache Corporation – Empire Abo Unit K-14

RXSoil, Inc. is pleased to submit the closure request for the on-site remediation of impacted soil for the above release in Eddy County, New Mexico.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jace Caraway'.

Jace Caraway
Chief Operating Officer
RXSoil, Inc.
(940) 210-2051

A handwritten signature in black ink, appearing to read 'Zach Robbins'.

Zach Robbins
Technical and Engineering Analyst
RXSoil, Inc.
(210) 400-7645

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I. Introduction

On behalf of Apache Corporation, RXSoil, Inc. ("RXSoil") has prepared this work plan that describes remediation of the release of produced water and crude oil.

The release occurred on 5/31/2019 in Unit Letter K, Section 02, Township 18S, Range 27E (see *Figure 1* for Vicinity Map) at approximate coordinates 32.77505, -104.25316. It was reported that six (6) barrels of crude oil and 11 barrels of produced water were released, and two (2) barrels of crude oil and three (3) barrels of produced water were recovered during the initial response.

II. Site Assessment/Characterization

1. **Site Map** – See *Figure 2*
2. **Depth to ground water** – USGS 324603104155001 is the nearest water well (listed in *Appendix B*) and has a reported depth to water of 32', recorded in January of 1999. This well is approximately 0.79 miles from the spill area. Remediation standards will follow the strictest thresholds stated in Table I, ≤50 feet.
3. **Wellhead protection area** – There are no known water sources within a half mile of the release (see *Figure 3*).
4. **Distance to nearest significant watercourse** – The nearest water way per the New Mexico OCD Oil and Gas Map GIS Service, Scoggin Draw, is approximately 530' away from the release area at its closest point (see *Figure 3*). This is a draw connecting to the Pecos River approximately 28,000' downstream.
5. **Soil/waste characteristics** – Delineation occurred throughout excavation. Sample points are shown in *Figure 3* with results summarized in *Appendix C*. Lab data is displayed in *Appendix D*. Horizontal excavation included sampling sidewalls (composites representing <200 square feet) to verify each wall is below thresholds listed in NMAC 19.15.29.13.D.1 (600 mg/kg chloride) and Table I (100 mg/kg TPH, 50 mg/kg BTEX, 10 mg/kg benzene). Some of the deeper walls required multiple depths of sidewall samples, with sample names designating this with a "D" for deep. Vertical delineation occurred throughout the spill area to clean material per Table I. Excavation continued until all samples tested below threshold. The one exception occurred at EB5 where refusal was hit with a rock layer that was impenetrable.

III. Remediation Plan

RXSoil's core process of on-site remediation was used to address the contamination. RXSoil supervised all excavation with approval from area utilities owners via NM 811.

RXSoil constructed an above-ground treatment cell adjacent to the contaminated area (see *Figure 2* for placement). Berms were built around the perimeter of the cell area. A 20-mil reinforced poly liner was placed on the surface and up the sides of the berms to contain treatment. A proprietary drainage and collection system was installed prior to filling the cells with the 3,400 cubic yards of contaminated soils.

RXSoil, Inc.

201 Main St. Ste. 1360, Fort Worth, TX 76102

Once all contaminated material was in the treatment cell, chemical and biological treatment began. To confirm successful treatment, a grid of confirmation samples was gathered at depth 36"-48" with one sample representing no more than 100 cubic yards. All samples were field screened using Quantab Chloride Test Strips. If a sample tested above threshold, treatment continued in that area until the soil tested clean, per strictest Table I guidelines for impacted soils. All samples were transferred on ice to a third-party lab for confirmation testing using NMOCD approved testing methods.

Due to the chloride and hydrocarbons remediating at different rates, if chloride samples were below threshold and TPH thresholds were not, the less than 100 cubic yards represented by that clean sample (as approved in the work plan) were transferred to an adjacent lined treatment area to allow more time for the hydrocarbon remediation to occur. The soil remaining in the cell was then smoothed over. Treatment continued until all 3,400 cubic yards had a clean test for chlorides and BTEX/TPH. In total, 39 final samples were taken for chloride testing (beyond the 34 required) and 36 final samples were taken for TPH/BTEX testing (beyond the 34 required).

Sidewall and bottom samples were taken using a stainless-steel hand shovel while remediation samples were taken using a stainless-steel bucket auger. All tools were decontaminated before each sample, as specified in *Field Equipment Cleaning and Decontamination* (EPA, 2015). This includes wiping the equipment clean, water-rinsing the equipment, washing the equipment in detergent and water, and rinsing the equipment in water.

Samples were temporarily transferred to a new plastic bag in the field. Once in a location safer for handling glass, the samples were transferred to glass jars, supplied by an approved laboratory. The threads on all jars were wiped clean to allow an air-tight seal. Samples were transferred on ice to a third-party laboratory to ensure tests were completed within 14 days (as recommended for EPA methods 8021B and 8015M).

IV. Restoration, Reclamation and Re-Vegetation

Following remediation, RXSoil will drill in seed at the discretion of the appropriate surface owners (SLO). RXSoil will continue to monitor this area to ensure growth.

Figure 1 - Vicinity Map

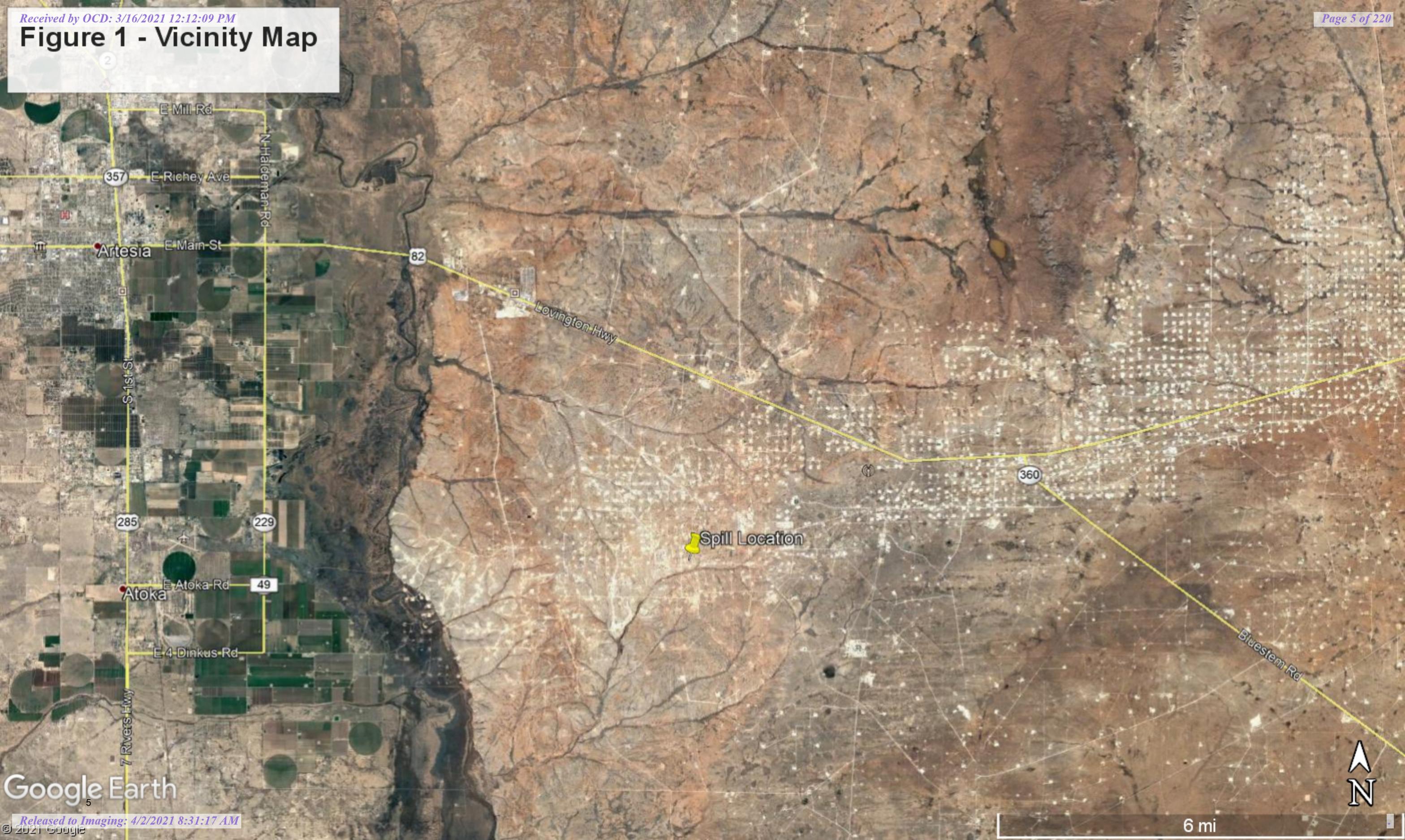


Figure 2 - Site Overview

Legend

- 16' Excavation
- 7' Excavation
- 8' Excavation
- Sample Location
- Treatment Cell

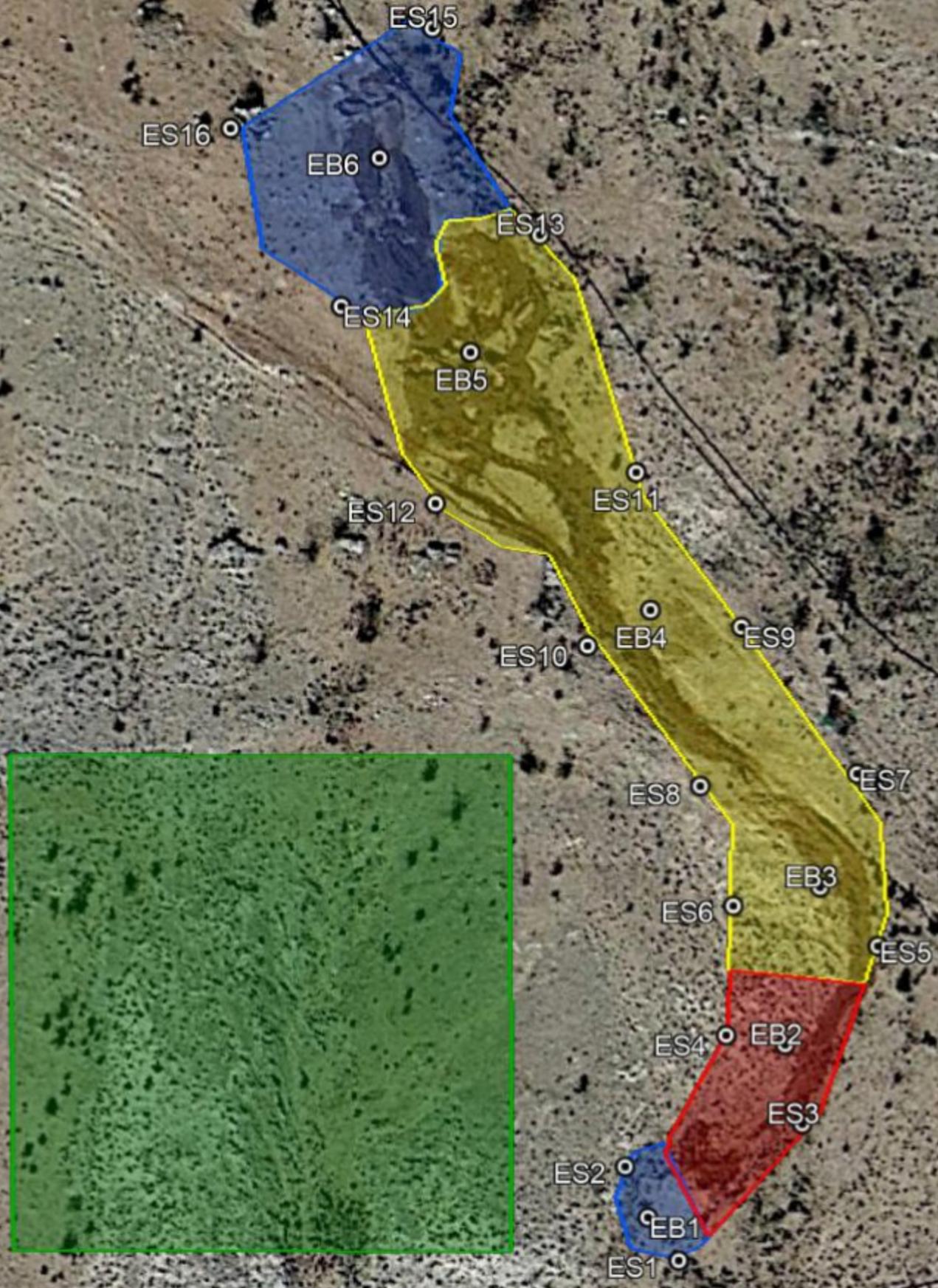
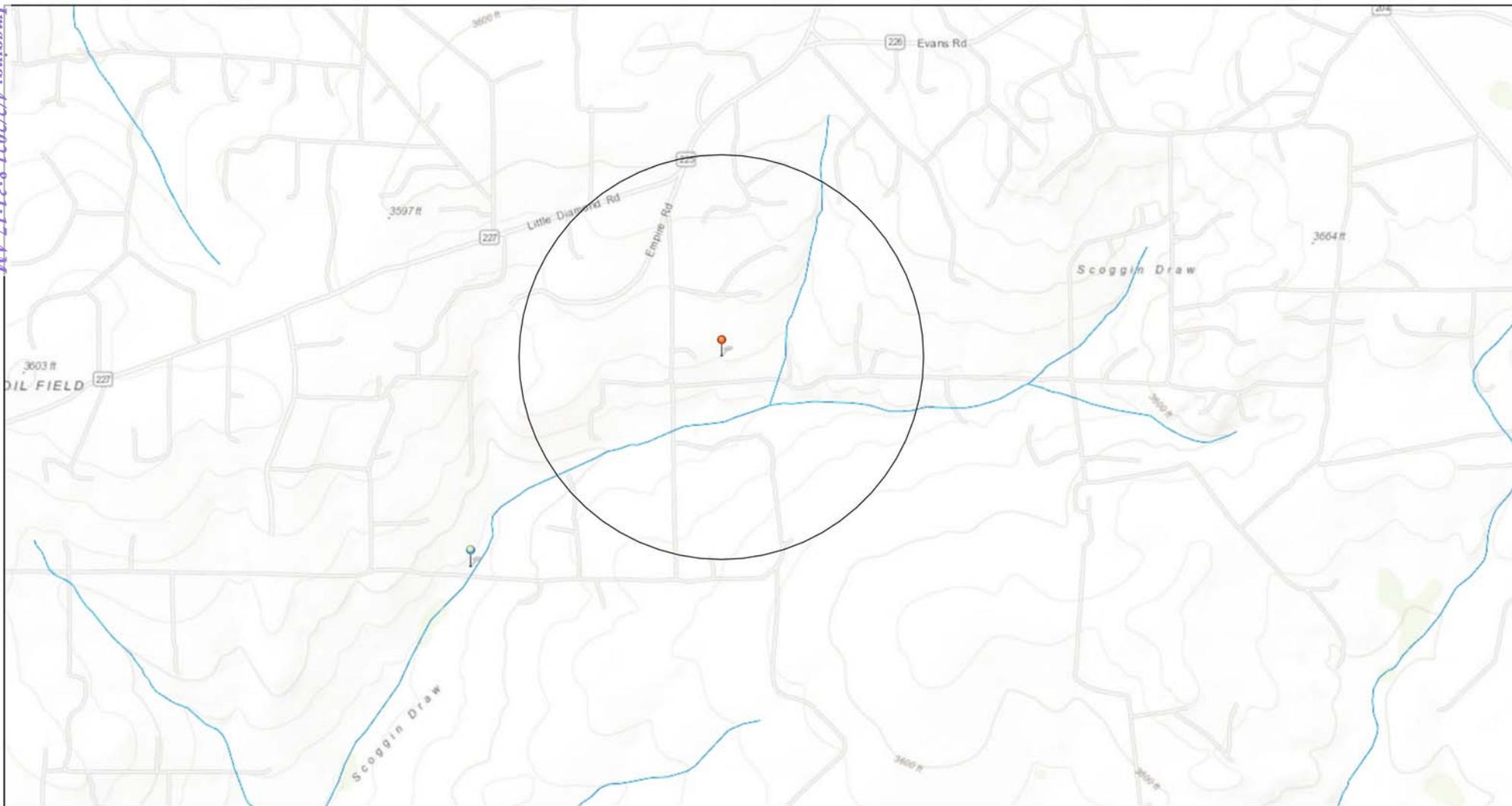
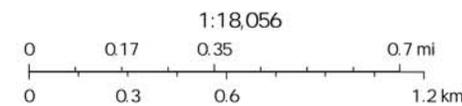


Figure 3. Water Map



10/14/2019, 4:57:15 PM

- 0.5 Mile Radius
- Nearest Well
- OSE Water-bodies
- Points
- OCD Districts
- PLJV Probable Playas
- Release
- OCD District Offices
- OSE Streams



Sources: Esri, HERE, Garmin, Intermap, incrementP Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community, OCD

APPENDIX A

C-141

RXSoil, Inc.

201 Main St. Ste. 1360, Fort Worth, TX 76102

Incident ID	NRM2009845600
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Bruce Baker Title: Environmental Tech SR
 Signature: Larry Baker Date: 3/16/2021
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: Chad Hensley Date: 04/02/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: 04/02/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

APPENDIX B

NEAREST WATER WELL DATA

RXSoil, Inc.

201 Main St. Ste. 1360, Fort Worth, TX 76102



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

Click to hide News Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#)

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
• 324603104155001

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 324603104155001 18S.27E.10.213223

Eddy County, New Mexico
Latitude 32°46'03", Longitude 104°15'50" NAD27
Land-surface elevation 3,479 feet above NAVD88
The depth of the well is 130 feet below land surface.
This well is completed in the Artesia Group (313ARTS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measureme
1999-01-19		D	31.73			2		S	USGS	
1994-02-24		D	32.67			2		S		
1989-02-02		D	19.41			2		U		
1984-03-01		D	21.36			2		U		
1984-02-09		D	22.16			2		U		
1966-01-24		D	41.29			2		U		
1964-01-09		D	46.92			2		U		
1963-11-22		D	46.16			2		U		
1963-10-01		D	45.73			2		U		
1963-09-04		D	45.59			2		U		
1963-08-30		D	48.28			2		U		
1963-07-23		D	48.21			2		U		
1963-01-07		D	48.75			2		U		
1962-01-04		D	47.31			2		U		
1961-12-28		D	47.28			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day

Section	Code	Description
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

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[Accessibility](#) [Plug-Ins](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2019-10-14 17:52:10 EDT

0.46 0.42 nadww02

APPENDIX C

EXCAVATION SUMMARY TABLE

RXSoil, Inc.

201 Main St. Ste. 1360, Fort Worth, TX 76102

K14 Excavation Data								
Sample Name	Sample Type	Sample Date	Received	Lab ID Sample	Chloride	Benzene	BTEX	TPH
					Method 4500	8021B	8015M	
EB-1	Bottom	12/7/2020	12/8/2020	H003206-01	-	<0.050	<0.300	26.7
EB-2	Bottom	12/7/2020	12/8/2020	H003206-02	-	<0.050	<0.300	<30
EB3	Bottom	6/24/2020	6/26/2020	H001677-08	48.0	<0.050	<0.300	<30
EB4	Bottom	7/6/2020	7/8/2020	H001776-10	160	<0.050	<0.300	20.2
EB5	Bottom	7/6/2020	7/8/2020	H001776-11	255	<0.050	<0.300	442
	Bottom	8/26/2020	8/28/2020	H002260-06	-	-	-	623
	Bottom	7/6/2020	7/8/2020	H001776-12	2440	<0.050	<0.300	245
EB6	Bottom	8/26/2020	8/28/2020	H002260-08	176	-	-	<30
ES1	Sidewall	6/24/2020	6/25/2020	H001668-02	16.0	<0.050	<0.300	21.6
ES1D	Sidewall	12/7/2020	12/8/2020	H003206-03	80.0	<0.050	<0.300	<30
ES2	Sidewall	12/7/2020	12/8/2020	H003206-04	64.0	<0.050	<0.300	55.2
ES2D	Sidewall	12/7/2020	12/8/2020	H003206-05	400	<0.050	<0.300	23.7
ES3	Sidewall	6/24/2020	6/26/2020	H001677-01	32.0	<0.050	<0.300	34.8
ES3D	Sidewall	12/7/2020	12/8/2020	H003206-06	128	<0.050	<0.300	1585
	Sidewall	12/9/2020	12/9/2020	H003213-01	-	<0.050	<0.300	<30
ES4	Sidewall	6/24/2020	6/26/2020	H001677-02	528	<0.050	<0.300	<30
ES4D	Sidewall	12/7/2020	12/8/2020	H003206-07	112	<0.050	<0.300	50.8
ES5	Sidewall	6/24/2020	6/26/2020	H001677-03	48.0	<0.050	<0.300	<30
ES6	Sidewall	6/24/2020	6/26/2020	H001677-04	224	<0.050	<0.300	<30
ES7	Sidewall	6/25/2020	6/26/2020	H001677-05	96.0	<0.050	<0.300	12.9
ES8	Sidewall	7/6/2020	7/9/2020	H001776-01	832	<0.050	<0.300	<30
	Sidewall	12/8/2020	12/9/2020	H003212-01	80.0	-	-	-
ES9	Sidewall	7/6/2020	7/8/2020	H001776-02	112	<0.050	<0.300	<30
	Sidewall	7/6/2020	7/8/2020	H001776-03	256	<0.050	4.35	1473
ES10	Sidewall	12/9/2020	12/10/2020	H003228-01	-	<0.050	<0.300	<30
	Sidewall	7/6/2020	7/8/2020	H001776-04	752	<0.050	<0.300	31.4
ES11	Sidewall	12/8/2020	12/9/2020	H003212-03	304	-	-	-
ES12	Sidewall	7/6/2020	7/8/2020	H001776-05	160	<0.050	<0.300	<30
ES13	Sidewall	7/6/2020	7/8/2020	H001776-06	288	<0.050	<0.300	65.6
ES14	Sidewall	12/8/2020	12/9/2020	H003212-04	80	<0.050	<0.300	10.0
ES15	Sidewall	12/8/2020	12/9/2020	H003212-05	128	<0.050	<0.300	<30
ES15D	Sidewall	12/8/2020	12/9/2020	H003212-06	192	<0.050	<0.300	<30
ES16	Sidewall	7/6/2020	7/8/2020	H001776-09	160	<0.050	<0.300	41.8
NMOC Thresholds					600	10	50	100

APPENDIX D.1
REMEDIATION DATA SUMMARY TABLE
CHLORIDE SAMPLING

K14 Chlorides Remediation				
Sample Name	Sample Date	Received	Lab ID Sample	Chloride
				Method 4500
A1	8/5/2020	8/6/2020	H002030-01	464
A1	11/19/2020	11/20/2020	H003079-01	384
A2	10/28/2020	10/29/2020	H002861-02	512
A3	9/4/2020	9/8/2020	H002368-03	560
A3	11/19/2020	11/20/2020	H003079-02	496
A4	8/5/2020	8/6/2020	H002030-02	560
A4	11/19/2020	11/20/2020	H003079-03	448
A4	9/4/2020	9/8/2020	H002368-04	448
B1	8/5/2020	8/6/2020	H002030-03	400
B3	8/5/2020	8/6/2020	H002030-04	464
B4	9/4/2020	9/8/2020	H002368-08	432
C1	10/28/2020	10/29/2020	H002861-05	480
C2	8/5/2020	8/6/2020	H002030-05	432
C2	11/19/2020	11/20/2020	H003079-04	480
C3	8/5/2020	8/6/2020	H002030-06	512
C3	11/23/2020	11/23/2020	H003099-01	448
C4	9/4/2020	9/8/2020	H002368-11	400
C4	11/19/2020	11/20/2020	H003079-06	528
C5	8/5/2020	8/6/2020	H002030-07	224
D1	8/5/2020	8/6/2020	H002030-08	320
D2	8/5/2020	8/7/2020	H002030-09	176
D3	9/4/2020	9/8/2020	H002368-14	528
D4	9/4/2020	9/8/2020	H002368-15	384
D4	8/5/2020	8/7/2020	H002030-10	528
E1	10/28/2020	10/29/2020	H002861-09	576
E2	10/28/2020	10/29/2020	H002861-10	256
E2	8/5/2020	8/7/2020	H002030-11	112
E3	8/5/2020	8/7/2020	H002030-12	256
E3	11/19/2020	11/20/2020	H003079-07	432
E4	8/5/2020	8/7/2020	H002030-13	560
E4	11/19/2020	11/20/2020	H003079-08	400
G1	10/28/2020	10/29/2020	H002861-13	256
G2	10/28/2020	10/29/2020	H002861-14	224
G3	10/28/2020	10/29/2020	H002861-15	240
G4	10/28/2020	10/29/2020	H002861-16	560
I1	10/28/2020	10/29/2020	H002861-17	480
I2	10/28/2020	10/29/2020	H002861-18	144
I3	10/28/2020	10/29/2020	H002861-19	448
I4	10/28/2020	10/29/2020	H002861-20	464
NMOCD Thresholds				600

Total clean chloride samples: 39

All samples listed in mg/kg unless otherwise noted

APPENDIX D.2
REMEDIATION DATA SUMMARY TABLE
TPH/BTEX SAMPLING

RXSoil, Inc.
201 Main St. Ste. 1360, Fort Worth, TX 76102

K14 Hydrocarbon Remediation						
Sample Name	Sample Date	Received	Lab ID Sample	Benzene	BTEX	TPH
				8021B		8015M
A1	12/17/2020	12/17/2020	H003297-01	<0.050	<0.300	41.5
A2	12/17/2020	12/17/2020	H003297-02	<0.050	<0.300	22.8
A3	12/17/2020	12/17/2020	H003297-03	<0.050	<0.300	41.8
A4	12/17/2020	12/17/2020	H003297-04	<0.050	<0.300	37.6
C1	12/17/2020	12/17/2020	H003297-05	<0.050	<0.300	31.9
C2	8/5/2020	8/6/2020	H002030-05	<0.050	0.642	72.0
C2	12/17/2020	12/17/2020	H003297-06	<0.050	<0.300	41.1
C3	11/23/2020	11/23/2020	H003099-01	<0.050	<0.300	62.8
C4	12/14/2020	12/15/2020	H003253-07	<0.050	<0.300	53.4
E1	12/17/2020	12/17/2020	H003297-07	<0.050	<0.300	49.3
E2	10/28/2020	10/29/2020	H002861-10	<0.050	0.808	58.4
E3	10/28/2020	10/29/2020	H002861-11	<0.050	1.39	75.6
E3	12/14/2020	12/15/2020	H003253-09	<0.050	<0.300	78.5
E4	8/5/2020	8/7/2020	H002030-13	<0.050	<0.300	28.5
E4	10/28/2020	10/29/2020	H002861-12	<0.050	1.56	81.4
E4	12/14/2020	12/15/2020	H003253-10	<0.050	<0.300	40.2
G1	12/14/2020	12/15/2020	H003253-11	<0.050	0.876	44.3
G2	12/14/2020	12/15/2020	H003253-12	<0.050	0.697	55.3
G3	12/14/2020	12/15/2020	H003253-13	<0.050	<0.300	86.6
G4	12/14/2020	12/15/2020	H003253-14	<0.050	<0.300	86.5
I1	12/14/2020	12/15/2020	H003253-15	<0.050	0.572	85.1
I2	12/14/2020	12/15/2020	H003253-16	<0.050	<0.300	82.2
I3	12/17/2020	12/17/2020	H003297-08	<0.050	<0.300	43.0
I4	12/17/2020	12/17/2020	H003297-09	<0.050	<0.300	95.8
W1	10/28/2020	10/29/2020	H002862-01	<0.050	<0.300	76.4
W2	10/28/2020	10/29/2020	H002862-02	<0.050	<0.300	67.6
W3	10/28/2020	10/29/2020	H002862-03	<0.050	<0.300	55.3
X1	12/17/2020	12/17/2020	H003297-10	<0.050	<0.300	76.5
X2	12/14/2020	12/15/2020	H003253-20	<0.050	<0.300	66.8
X3	10/28/2020	10/29/2020	H002862-06	<0.050	<0.300	14.1
Y2	10/28/2020	10/29/2020	H002862-08	<0.050	<0.300	73.8
Y2	12/14/2020	12/14/2020	H003253-21	<0.050	0.347	80.3
Y3	10/28/2020	10/29/2020	H002862-09	<0.050	<0.300	21.5
Z1	10/28/2020	10/29/2020	H002862-10	<0.050	<0.300	32.0
Z2	10/28/2020	10/29/2020	H002862-11	<0.050	<0.300	39.4
Z3	10/28/2020	10/29/2020	H002862-12	<0.050	<0.300	41.7
NMOC Thresholds				10	50	100

Total clean TPH/BTEX samples: 36

All samples listed in mg/kg unless otherwise noted

APPENDIX E
SITE PHOTOGRAPHS

RXSoil, Inc.
201 Main St. Ste. 1360, Fort Worth, TX 76102



RXSoil, Inc.
201 Main St. Ste. 1360, Fort Worth, TX 76102

APPENDIX F

LABORATORY REPORTS

Appendix F – Laboratory Reports

1. H001668	22
2. H001677	28
3. H001776	39
4. H002030	55
5. H002260	72
6. H002368	80
7. H002861	99
8. H002862	123
9. H003079	139
10. H003099	150
11. H003206	154
12. H003212	164
13. H003213	172
14. H003228	176
15. H003253	180
16. H003297	206

RXSoil, Inc.

201 Main St. Ste. 1360, Fort Worth, TX 76102



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

June 26, 2020

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

RE: K - 14

Enclosed are the results of analyses for samples received by the laboratory on 06/25/20 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/25/2020	Sampling Date:	06/24/2020
Reported:	06/26/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	SP - 3	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EB - 1 (H001668-01)

BTEX 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	06/26/2020	ND	1.94	96.8	2.00	4.70	
Toluene*	0.377	0.050	06/26/2020	ND	1.93	96.6	2.00	4.94	
Ethylbenzene*	1.12	0.050	06/26/2020	ND	1.97	98.5	2.00	4.31	
Total Xylenes*	4.02	0.150	06/26/2020	ND	5.77	96.2	6.00	4.29	
Total BTEX	5.52	0.300	06/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 184 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/25/2020	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	46.9	10.0	06/26/2020	ND	202	101	200	11.4	
DRO >C10-C28*	829	10.0	06/26/2020	ND	199	99.7	200	12.7	
EXT DRO >C28-C36	114	10.0	06/26/2020	ND					

Surrogate: 1-Chlorooctane 132 % 44.3-144

Surrogate: 1-Chlorooctadecane 139 % 42.2-156

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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	06/25/2020	Sampling Date:	06/24/2020
Reported:	06/26/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	SP - 3	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES - 1 (H001668-02)

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	06/26/2020	ND	1.94	96.8	2.00	4.70	
Toluene*	<0.050	0.050	06/26/2020	ND	1.93	96.6	2.00	4.94	
Ethylbenzene*	<0.050	0.050	06/26/2020	ND	1.97	98.5	2.00	4.31	
Total Xylenes*	<0.150	0.150	06/26/2020	ND	5.77	96.2	6.00	4.29	
Total BTEX	<0.300	0.300	06/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2020	ND	400	100	400	7.69	

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	06/25/2020	ND	202	101	200	11.4	
DRO >C10-C28*	21.6	10.0	06/25/2020	ND	199	99.7	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 122 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/25/2020	Sampling Date:	06/24/2020
Reported:	06/26/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	SP - 3	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES - 2 (H001668-03)

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	06/26/2020	ND	1.94	96.8	2.00	4.70		
Toluene*	<0.050	0.050	06/26/2020	ND	1.93	96.6	2.00	4.94		
Ethylbenzene*	<0.050	0.050	06/26/2020	ND	1.97	98.5	2.00	4.31		
Total Xylenes*	<0.150	0.150	06/26/2020	ND	5.77	96.2	6.00	4.29		
Total BTEX	<0.300	0.300	06/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	06/25/2020	ND	400	100	400	7.69		

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	06/25/2020	ND	202	101	200	11.4		
DRO >C10-C28*	494	10.0	06/25/2020	ND	199	99.7	200	12.7		
EXT DRO >C28-C36	116	10.0	06/25/2020	ND						

Surrogate: 1-Chlorooctane 116 % 44.3-144

Surrogate: 1-Chlorooctadecane 131 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

June 29, 2020

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

RE: K - 14

Enclosed are the results of analyses for samples received by the laboratory on 06/26/20 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/26/2020	Sampling Date:	06/24/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES - 3 (H001677-01)

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	06/26/2020	ND	2.00	100	2.00	0.0376	
Toluene*	<0.050	0.050	06/26/2020	ND	1.98	99.2	2.00	0.0715	
Ethylbenzene*	<0.050	0.050	06/26/2020	ND	2.00	100	2.00	0.168	
Total Xylenes*	<0.150	0.150	06/26/2020	ND	5.86	97.6	6.00	0.0525	
Total BTEX	<0.300	0.300	06/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/26/2020	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	06/26/2020	ND	204	102	200	0.886	
DRO >C10-C28*	34.8	10.0	06/26/2020	ND	198	98.8	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	06/26/2020	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 42.2-156

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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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	06/26/2020	Sampling Date:	06/24/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES - 4 (H001677-02)

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	06/26/2020	ND	2.00	100	2.00	0.0376		
Toluene*	<0.050	0.050	06/26/2020	ND	1.98	99.2	2.00	0.0715		
Ethylbenzene*	<0.050	0.050	06/26/2020	ND	2.00	100	2.00	0.168		
Total Xylenes*	<0.150	0.150	06/26/2020	ND	5.86	97.6	6.00	0.0525		
Total BTEX	<0.300	0.300	06/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	06/26/2020	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	06/26/2020	ND	204	102	200	0.886		
DRO >C10-C28*	<10.0	10.0	06/26/2020	ND	198	98.8	200	1.85		
EXT DRO >C28-C36	<10.0	10.0	06/26/2020	ND						

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 124 % 42.2-156

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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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	06/26/2020	Sampling Date:	06/24/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES - 5 (H001677-03)

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	06/26/2020	ND	2.00	100	2.00	0.0376	
Toluene*	<0.050	0.050	06/26/2020	ND	1.98	99.2	2.00	0.0715	
Ethylbenzene*	<0.050	0.050	06/26/2020	ND	2.00	100	2.00	0.168	
Total Xylenes*	<0.150	0.150	06/26/2020	ND	5.86	97.6	6.00	0.0525	
Total BTEX	<0.300	0.300	06/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/26/2020	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	06/26/2020	ND	204	102	200	0.886	
DRO >C10-C28*	<10.0	10.0	06/26/2020	ND	198	98.8	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	06/26/2020	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 127 % 42.2-156

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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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	06/26/2020	Sampling Date:	06/24/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES - 6 (H001677-04)

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	06/26/2020	ND	2.00	100	2.00	0.0376	
Toluene*	<0.050	0.050	06/26/2020	ND	1.98	99.2	2.00	0.0715	
Ethylbenzene*	<0.050	0.050	06/26/2020	ND	2.00	100	2.00	0.168	
Total Xylenes*	<0.150	0.150	06/26/2020	ND	5.86	97.6	6.00	0.0525	
Total BTEX	<0.300	0.300	06/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/26/2020	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	06/26/2020	ND	204	102	200	0.886	
DRO >C10-C28*	<10.0	10.0	06/26/2020	ND	198	98.8	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	06/26/2020	ND					

Surrogate: 1-Chlorooctane 115 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 42.2-156

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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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	06/26/2020	Sampling Date:	06/25/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES - 7 (H001677-05)

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	06/26/2020	ND	2.00	100	2.00	0.0376	
Toluene*	<0.050	0.050	06/26/2020	ND	1.98	99.2	2.00	0.0715	
Ethylbenzene*	<0.050	0.050	06/26/2020	ND	2.00	100	2.00	0.168	
Total Xylenes*	<0.150	0.150	06/26/2020	ND	5.86	97.6	6.00	0.0525	
Total BTEX	<0.300	0.300	06/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/26/2020	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	06/26/2020	ND	204	102	200	0.886	
DRO >C10-C28*	12.9	10.0	06/26/2020	ND	198	98.8	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	06/26/2020	ND					

Surrogate: 1-Chlorooctane 120 % 44.3-144

Surrogate: 1-Chlorooctadecane 133 % 42.2-156

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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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	06/26/2020	Sampling Date:	06/24/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES - 8 (H001677-06)

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	06/26/2020	ND	2.00	100	2.00	0.0376	
Toluene*	<0.050	0.050	06/26/2020	ND	1.98	99.2	2.00	0.0715	
Ethylbenzene*	<0.050	0.050	06/26/2020	ND	2.00	100	2.00	0.168	
Total Xylenes*	<0.150	0.150	06/26/2020	ND	5.86	97.6	6.00	0.0525	
Total BTEX	<0.300	0.300	06/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/26/2020	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	06/26/2020	ND	204	102	200	0.886	
DRO >C10-C28*	183	10.0	06/26/2020	ND	198	98.8	200	1.85	
EXT DRO >C28-C36	23.8	10.0	06/26/2020	ND					

Surrogate: 1-Chlorooctane 116 % 44.3-144

Surrogate: 1-Chlorooctadecane 136 % 42.2-156

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Analytical Results For:

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

Received:	06/26/2020	Sampling Date:	06/24/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EB - 2 (H001677-07)

BTEX 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	06/29/2020	ND	2.00	100	2.00	0.0376	
Toluene*	1.67	0.050	06/29/2020	ND	1.98	99.2	2.00	0.0715	
Ethylbenzene*	5.37	0.050	06/29/2020	ND	2.00	100	2.00	0.168	
Total Xylenes*	19.3	0.150	06/29/2020	ND	5.86	97.6	6.00	0.0525	
Total BTEX	26.4	0.300	06/29/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 188 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/26/2020	ND	416	104	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*	333	50.0	06/26/2020	ND	204	102	200	0.886	
DRO >C10-C28*	3070	50.0	06/26/2020	ND	198	98.8	200	1.85	
EXT DRO >C28-C36	380	50.0	06/26/2020	ND					

Surrogate: 1-Chlorooctane 175 % 44.3-144

Surrogate: 1-Chlorooctadecane 208 % 42.2-156

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Analytical Results For:

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

Received:	06/26/2020	Sampling Date:	06/24/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EB - 3 (H001677-08)

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	06/26/2020	ND	2.00	100	2.00	0.0376	
Toluene*	<0.050	0.050	06/26/2020	ND	1.98	99.2	2.00	0.0715	
Ethylbenzene*	<0.050	0.050	06/26/2020	ND	2.00	100	2.00	0.168	
Total Xylenes*	<0.150	0.150	06/26/2020	ND	5.86	97.6	6.00	0.0525	
Total BTEX	<0.300	0.300	06/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/26/2020	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	06/26/2020	ND	204	102	200	0.886	
DRO >C10-C28*	<10.0	10.0	06/26/2020	ND	198	98.8	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	06/26/2020	ND					

Surrogate: 1-Chlorooctane 118 % 44.3-144

Surrogate: 1-Chlorooctadecane 130 % 42.2-156

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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.
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

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: **RX5011** P.O. #: **BILL TO** ANALYSIS REQUEST
 Project Manager: **Matt Longoria** Company: **ANALYSIS REQUEST**
 Address: _____ Attn: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: **K-14** City: _____ State: _____ Zip: _____
 Project Location: _____ Phone #: _____
 Sampler Name: **Hays Adams** Fax #: _____

Lab I.D.	Sample I.D.	FOR LAB USE ONLY						DATE	TIME	Chloride	BTEX	TPH
		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX								
		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :		
AD01677	1 ES-3			X								
	2 ES-4			X			6/24	12:00	X	X	X	
	3 ES-5			X			6/24		X	X	X	
	4 ES-6			X			6/25		X	X	X	
	5 ES-7			X			6/24		X	X	X	
	6 ES-8			X			6/24		X	X	X	
	7 EB-2			X			6/24		X	X	X	
	8 EB-3			X			6/24	12:00	X	X	X	

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Relinquished By: **Matt Longoria** Date: **6/26** Received By: **Juanita**
 Time: **9:00 am**
 Delivered By: (Circle One) Observed Temp. °C: **-5.8** Sample Condition: **Intact** CHECKED BY: **JD**
 Sampler - UPS - Bus - Other: Corrected Temp. °C: _____ Cool Intact
 Turnaround Time: _____ Standard Bacteria (only)
 Thermometer ID #113 Cool Intact
 Correction Factor: None Yes No Observed Temp. °C: _____
 Corrected Temp. °C: _____



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July 13, 2020

HAYES ADAMS

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: EAU K14

Enclosed are the results of analyses for samples received by the laboratory on 07/07/20 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

- Method EPA 552.2 Haloacetic Acids (HAA-5)
- Method EPA 524.2 Total Trihalomethanes (TTHM)
- Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/07/2020	Sampling Date:	07/06/2020
Reported:	07/13/2020	Sampling Type:	Soil
Project Name:	EAU K14	Sampling Condition:	Cool & Intact
Project Number:	EXCAVATION SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES 8 (H001776-01)

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	07/10/2020	ND	1.85	92.6	2.00	4.67		
Toluene*	<0.050	0.050	07/10/2020	ND	1.86	93.1	2.00	4.79		
Ethylbenzene*	<0.050	0.050	07/10/2020	ND	1.87	93.5	2.00	4.91		
Total Xylenes*	<0.150	0.150	07/10/2020	ND	5.38	89.7	6.00	4.90		
Total BTEX	<0.300	0.300	07/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	07/10/2020	ND	416	104	400	3.77		

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	07/09/2020	ND	207	103	200	1.29		
DRO >C10-C28*	<10.0	10.0	07/09/2020	ND	240	120	200	14.5		
EXT DRO >C28-C36	<10.0	10.0	07/09/2020	ND						

Surrogate: 1-Chlorooctane 75.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.9 % 42.2-156

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Analytical Results For:

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

Received:	07/07/2020	Sampling Date:	07/06/2020
Reported:	07/13/2020	Sampling Type:	Soil
Project Name:	EAU K14	Sampling Condition:	Cool & Intact
Project Number:	EXCAVATION SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES 9 (H001776-02)

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	07/08/2020	ND	1.86	93.1	2.00	4.12	
Toluene*	<0.050	0.050	07/08/2020	ND	1.88	94.1	2.00	4.33	
Ethylbenzene*	<0.050	0.050	07/08/2020	ND	1.91	95.5	2.00	4.49	
Total Xylenes*	<0.150	0.150	07/08/2020	ND	5.53	92.2	6.00	4.41	
Total BTEX	<0.300	0.300	07/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/08/2020	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	07/08/2020	ND	171	85.6	200	0.335	
DRO >C10-C28*	<10.0	10.0	07/08/2020	ND	165	82.6	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	07/08/2020	ND					

Surrogate: 1-Chlorooctane 70.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.7 % 42.2-156

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Analytical Results For:

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

Received:	07/07/2020	Sampling Date:	07/06/2020
Reported:	07/13/2020	Sampling Type:	Soil
Project Name:	EAU K14	Sampling Condition:	Cool & Intact
Project Number:	EXCAVATION SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES 10 (H001776-03)

BTEX 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	07/08/2020	ND	1.86	93.1	2.00	4.12	
Toluene*	0.084	0.050	07/08/2020	ND	1.88	94.1	2.00	4.33	
Ethylbenzene*	1.04	0.050	07/08/2020	ND	1.91	95.5	2.00	4.49	
Total Xylenes*	3.23	0.150	07/08/2020	ND	5.53	92.2	6.00	4.41	
Total BTEX	4.35	0.300	07/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 164 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/08/2020	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*	95.4	50.0	07/08/2020	ND	171	85.6	200	0.335	
DRO >C10-C28*	1240	50.0	07/08/2020	ND	165	82.6	200	1.16	
EXT DRO >C28-C36	138	50.0	07/08/2020	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/07/2020	Sampling Date:	07/06/2020
Reported:	07/13/2020	Sampling Type:	Soil
Project Name:	EAU K14	Sampling Condition:	Cool & Intact
Project Number:	EXCAVATION SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES 11 (H001776-04)

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	07/08/2020	ND	1.86	93.1	2.00	4.12	
Toluene*	<0.050	0.050	07/08/2020	ND	1.88	94.1	2.00	4.33	
Ethylbenzene*	<0.050	0.050	07/08/2020	ND	1.91	95.5	2.00	4.49	
Total Xylenes*	<0.150	0.150	07/08/2020	ND	5.53	92.2	6.00	4.41	
Total BTEX	<0.300	0.300	07/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	07/08/2020	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	07/08/2020	ND	171	85.6	200	0.335	
DRO >C10-C28*	31.4	10.0	07/08/2020	ND	165	82.6	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	07/08/2020	ND					

Surrogate: 1-Chlorooctane 73.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 73.9 % 42.2-156

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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.
 HAYES ADAMS
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	07/07/2020	Sampling Date:	07/06/2020
Reported:	07/13/2020	Sampling Type:	Soil
Project Name:	EAU K14	Sampling Condition:	Cool & Intact
Project Number:	EXCAVATION SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES 12 (H001776-05)

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	07/08/2020	ND	1.86	93.1	2.00	4.12	
Toluene*	<0.050	0.050	07/08/2020	ND	1.88	94.1	2.00	4.33	
Ethylbenzene*	<0.050	0.050	07/08/2020	ND	1.91	95.5	2.00	4.49	
Total Xylenes*	<0.150	0.150	07/08/2020	ND	5.53	92.2	6.00	4.41	
Total BTEX	<0.300	0.300	07/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/08/2020	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	07/08/2020	ND	171	85.6	200	0.335	
DRO >C10-C28*	<10.0	10.0	07/08/2020	ND	165	82.6	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	07/08/2020	ND					

Surrogate: 1-Chlorooctane 60.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 63.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/07/2020	Sampling Date:	07/06/2020
Reported:	07/13/2020	Sampling Type:	Soil
Project Name:	EAU K14	Sampling Condition:	Cool & Intact
Project Number:	EXCAVATION SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES 13 (H001776-06)

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	07/08/2020	ND	1.86	93.1	2.00	4.12	
Toluene*	<0.050	0.050	07/08/2020	ND	1.88	94.1	2.00	4.33	
Ethylbenzene*	<0.050	0.050	07/08/2020	ND	1.91	95.5	2.00	4.49	
Total Xylenes*	<0.150	0.150	07/08/2020	ND	5.53	92.2	6.00	4.41	
Total BTEX	<0.300	0.300	07/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/08/2020	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	07/08/2020	ND	171	85.6	200	0.335	
DRO >C10-C28*	65.6	10.0	07/08/2020	ND	165	82.6	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	07/08/2020	ND					

Surrogate: 1-Chlorooctane 67.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 71.6 % 42.2-156

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Analytical Results For:

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

Received:	07/07/2020	Sampling Date:	07/06/2020
Reported:	07/13/2020	Sampling Type:	Soil
Project Name:	EAU K14	Sampling Condition:	Cool & Intact
Project Number:	EXCAVATION SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES 14 (H001776-07)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.097	0.050	07/08/2020	ND	1.86	93.1	2.00	4.12	
Toluene*	1.02	0.050	07/08/2020	ND	1.88	94.1	2.00	4.33	
Ethylbenzene*	5.64	0.050	07/08/2020	ND	1.91	95.5	2.00	4.49	
Total Xylenes*	14.2	0.150	07/08/2020	ND	5.53	92.2	6.00	4.41	
Total BTEX	21.0	0.300	07/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 217 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	07/08/2020	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*	247	50.0	07/08/2020	ND	171	85.6	200	0.335	
DRO >C10-C28*	1810	50.0	07/08/2020	ND	165	82.6	200	1.16	
EXT DRO >C28-C36	209	50.0	07/08/2020	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 134 % 42.2-156

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Analytical Results For:

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

Received:	07/07/2020	Sampling Date:	07/06/2020
Reported:	07/13/2020	Sampling Type:	Soil
Project Name:	EAU K14	Sampling Condition:	Cool & Intact
Project Number:	EXCAVATION SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES 15 (H001776-08)

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	07/08/2020	ND	1.86	93.1	2.00	4.12	
Toluene*	<0.050	0.050	07/08/2020	ND	1.88	94.1	2.00	4.33	
Ethylbenzene*	0.107	0.050	07/08/2020	ND	1.91	95.5	2.00	4.49	
Total Xylenes*	1.09	0.150	07/08/2020	ND	5.53	92.2	6.00	4.41	
Total BTEX	1.20	0.300	07/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	07/08/2020	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	29.0	10.0	07/08/2020	ND	171	85.6	200	0.335		
DRO >C10-C28*	3000	10.0	07/08/2020	ND	165	82.6	200	1.16		
EXT DRO >C28-C36	631	10.0	07/08/2020	ND						

Surrogate: 1-Chlorooctane 91.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 193 % 42.2-156

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Analytical Results For:

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

Received:	07/07/2020	Sampling Date:	07/06/2020
Reported:	07/13/2020	Sampling Type:	Soil
Project Name:	EAU K14	Sampling Condition:	Cool & Intact
Project Number:	EXCAVATION SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: ES 16 (H001776-09)

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	07/08/2020	ND	1.86	93.1	2.00	4.12		
Toluene*	<0.050	0.050	07/08/2020	ND	1.88	94.1	2.00	4.33		
Ethylbenzene*	<0.050	0.050	07/08/2020	ND	1.91	95.5	2.00	4.49		
Total Xylenes*	<0.150	0.150	07/08/2020	ND	5.53	92.2	6.00	4.41		
Total BTEX	<0.300	0.300	07/08/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/08/2020	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	07/08/2020	ND	171	85.6	200	0.335		
DRO >C10-C28*	41.8	10.0	07/08/2020	ND	165	82.6	200	1.16		
EXT DRO >C28-C36	<10.0	10.0	07/08/2020	ND						

Surrogate: 1-Chlorooctane 78.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/07/2020	Sampling Date:	07/06/2020
Reported:	07/13/2020	Sampling Type:	Soil
Project Name:	EAU K14	Sampling Condition:	Cool & Intact
Project Number:	EXCAVATION SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EB 4 (H001776-10)

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	07/08/2020	ND	1.86	93.1	2.00	4.12	
Toluene*	<0.050	0.050	07/08/2020	ND	1.88	94.1	2.00	4.33	
Ethylbenzene*	<0.050	0.050	07/08/2020	ND	1.91	95.5	2.00	4.49	
Total Xylenes*	<0.150	0.150	07/08/2020	ND	5.53	92.2	6.00	4.41	
Total BTEX	<0.300	0.300	07/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/08/2020	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	07/08/2020	ND	171	85.6	200	0.335	
DRO >C10-C28*	20.2	10.0	07/08/2020	ND	165	82.6	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	07/08/2020	ND					

Surrogate: 1-Chlorooctane 77.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/07/2020	Sampling Date:	07/06/2020
Reported:	07/13/2020	Sampling Type:	Soil
Project Name:	EAU K14	Sampling Condition:	Cool & Intact
Project Number:	EXCAVATION SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EB 5 (H001776-11)

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	07/08/2020	ND	1.86	93.1	2.00	4.12		
Toluene*	<0.050	0.050	07/08/2020	ND	1.88	94.1	2.00	4.33		
Ethylbenzene*	<0.050	0.050	07/08/2020	ND	1.91	95.5	2.00	4.49		
Total Xylenes*	<0.150	0.150	07/08/2020	ND	5.53	92.2	6.00	4.41		
Total BTEX	<0.300	0.300	07/08/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	255	16.0	07/08/2020	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	07/08/2020	ND	171	85.6	200	0.335		
DRO >C10-C28*	389	10.0	07/08/2020	ND	165	82.6	200	1.16		
EXT DRO >C28-C36	53.1	10.0	07/08/2020	ND						

Surrogate: 1-Chlorooctane 69.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.4 % 42.2-156

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Analytical Results For:

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

Received:	07/07/2020	Sampling Date:	07/06/2020
Reported:	07/13/2020	Sampling Type:	Soil
Project Name:	EAU K14	Sampling Condition:	Cool & Intact
Project Number:	EXCAVATION SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EB 6 (H001776-12)

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	07/08/2020	ND	1.86	93.1	2.00	4.12	
Toluene*	<0.050	0.050	07/08/2020	ND	1.88	94.1	2.00	4.33	
Ethylbenzene*	<0.050	0.050	07/08/2020	ND	1.91	95.5	2.00	4.49	
Total Xylenes*	<0.150	0.150	07/08/2020	ND	5.53	92.2	6.00	4.41	
Total BTEX	<0.300	0.300	07/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	07/08/2020	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	07/08/2020	ND	171	85.6	200	0.335	
DRO >C10-C28*	222	10.0	07/08/2020	ND	165	82.6	200	1.16	
EXT DRO >C28-C36	23.3	10.0	07/08/2020	ND					

Surrogate: 1-Chlorooctane 71.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.9 % 42.2-156

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Notes and Definitions

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: RXSOIL		BILL TO		ANALYSIS REQUEST		
Project Manager: HAYES ADAMS		P.O. #:				
Address:		Company: RXSOIL				
City:	State:	Zip:	Attn:			
Phone #:	Fax #:	Project Owner:	Address:			
Project #:	Project Name: EAU K14	State:	City:	Zip:		
Project Location: EXCAVATION SAMPLES	Phone #:	Phone #:				
Sampler Name: HAYES ADAMS	Fax #:	SAMPLING				
FOR LAB USE ONLY						
Lab I.D. <i>H001776</i>	Sample I.D. 1 ES8 2 ES9 3 ES10 4 ES11 5 ES12 6 ES13 7 ES14 8 ES15 9 ES16	(G)RAB OR (C)OMP.				
		# CONTAINERS				
		GROUNDWATER				
		WASTEWATER				
		SOIL				
		OIL				
		SLUDGE				
		OTHER:				
		ACID/BASE:				
		ICE / COOL				
OTHER:						
DATE	7/6/20	TIME				
CHLORIDES	X	X	X			
TPH	X	X	X			
BTEX	X	X	X			

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Relinquished By: *HAYES ADAMS*
Date: *7-7-20*
Time: *16:35*
Received By: *Yamuna Chakraborty*
Date: _____
Time: _____

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: *-1.1c #113*
Sample Condition: Cool Intact
Checked By: *Y.O.*

REMARKS: *Zach.robbins@rxsoil.solutions*

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

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

August 11, 2020

ZACH ROBBINS

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: K - 14

Enclosed are the results of analyses for samples received by the laboratory on 08/05/20 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

- Method EPA 552.2 Haloacetic Acids (HAA-5)
- Method EPA 524.2 Total Trihalomethanes (TTHM)
- Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/05/2020	Sampling Date:	08/05/2020
Reported:	08/11/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	FINAL - V1	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: A 1 (H002030-01)

BTEX 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	08/06/2020	ND	1.79	89.7	2.00	3.17	
Toluene*	0.463	0.050	08/06/2020	ND	1.82	91.0	2.00	3.28	
Ethylbenzene*	<0.050	0.050	08/06/2020	ND	1.83	91.7	2.00	3.60	
Total Xylenes*	13.6	0.150	08/06/2020	ND	5.37	89.5	6.00	3.40	
Total BTEX	14.1	0.300	08/06/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 236 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/06/2020	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*	38.4	10.0	08/06/2020	ND	202	101	200	1.49	
DRO >C10-C28*	395	10.0	08/06/2020	ND	206	103	200	0.423	
EXT DRO >C28-C36	67.3	10.0	08/06/2020	ND					

Surrogate: 1-Chlorooctane 97.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/05/2020	Sampling Date:	08/05/2020
Reported:	08/11/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	FINAL - V1	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: A 4 (H002030-02)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.090	0.050	08/06/2020	ND	1.79	89.7	2.00	3.17	
Toluene*	0.422	0.050	08/06/2020	ND	1.82	91.0	2.00	3.28	
Ethylbenzene*	2.79	0.050	08/06/2020	ND	1.83	91.7	2.00	3.60	
Total Xylenes*	10.7	0.150	08/06/2020	ND	5.37	89.5	6.00	3.40	
Total BTEX	14.0	0.300	08/06/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 209 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/06/2020	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*	17.1	10.0	08/06/2020	ND	202	101	200	1.49	
DRO >C10-C28*	95.8	10.0	08/06/2020	ND	206	103	200	0.423	
EXT DRO >C28-C36	14.9	10.0	08/06/2020	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/05/2020	Sampling Date:	08/05/2020
Reported:	08/11/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	FINAL - V1	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 1 (H002030-03)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	08/06/2020	ND	1.79	89.7	2.00	3.17	
Toluene*	1.82	0.200	08/06/2020	ND	1.82	91.0	2.00	3.28	
Ethylbenzene*	7.23	0.200	08/06/2020	ND	1.83	91.7	2.00	3.60	
Total Xylenes*	34.2	0.600	08/06/2020	ND	5.37	89.5	6.00	3.40	
Total BTEX	43.2	1.20	08/06/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 152 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/06/2020	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*	168	10.0	08/06/2020	ND	202	101	200	1.49	
DRO >C10-C28*	1440	10.0	08/06/2020	ND	206	103	200	0.423	
EXT DRO >C28-C36	222	10.0	08/06/2020	ND					

Surrogate: 1-Chlorooctane 121 % 44.3-144

Surrogate: 1-Chlorooctadecane 133 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/05/2020	Sampling Date:	08/05/2020
Reported:	08/11/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	FINAL - V1	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 3 (H002030-04)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.237	0.200	08/06/2020	ND	1.79	89.7	2.00	3.17	
Toluene*	5.08	0.200	08/06/2020	ND	1.82	91.0	2.00	3.28	
Ethylbenzene*	6.21	0.200	08/06/2020	ND	1.83	91.7	2.00	3.60	
Total Xylenes*	44.0	0.600	08/06/2020	ND	5.37	89.5	6.00	3.40	
Total BTEX	55.5	1.20	08/06/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 162 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/06/2020	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*	252	10.0	08/06/2020	ND	202	101	200	1.49	
DRO >C10-C28*	1100	10.0	08/06/2020	ND	206	103	200	0.423	
EXT DRO >C28-C36	170	10.0	08/06/2020	ND					

Surrogate: 1-Chlorooctane 129 % 44.3-144

Surrogate: 1-Chlorooctadecane 129 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/05/2020	Sampling Date:	08/05/2020
Reported:	08/11/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	FINAL - V1	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: C 2 (H002030-05)

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	08/06/2020	ND	1.79	89.7	2.00	3.17	
Toluene*	<0.050	0.050	08/06/2020	ND	1.82	91.0	2.00	3.28	
Ethylbenzene*	<0.050	0.050	08/06/2020	ND	1.83	91.7	2.00	3.60	
Total Xylenes*	0.642	0.150	08/06/2020	ND	5.37	89.5	6.00	3.40	
Total BTEX	0.642	0.300	08/06/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/06/2020	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	08/06/2020	ND	202	101	200	1.49	
DRO >C10-C28*	52.1	10.0	08/06/2020	ND	206	103	200	0.423	
EXT DRO >C28-C36	19.9	10.0	08/06/2020	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/05/2020	Sampling Date:	08/05/2020
Reported:	08/11/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	FINAL - V1	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: C 3 (H002030-06)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.056	0.050	08/06/2020	ND	1.79	89.7	2.00	3.17	
Toluene*	1.05	0.050	08/06/2020	ND	1.82	91.0	2.00	3.28	
Ethylbenzene*	1.48	0.050	08/06/2020	ND	1.83	91.7	2.00	3.60	
Total Xylenes*	9.54	0.150	08/06/2020	ND	5.37	89.5	6.00	3.40	
Total BTEX	12.1	0.300	08/06/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 201 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	08/06/2020	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*	22.1	10.0	08/06/2020	ND	202	101	200	1.49	
DRO >C10-C28*	88.4	10.0	08/06/2020	ND	206	103	200	0.423	
EXT DRO >C28-C36	11.8	10.0	08/06/2020	ND					

Surrogate: 1-Chlorooctane 97.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/05/2020	Sampling Date:	08/05/2020
Reported:	08/11/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	FINAL - V1	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: C 5 (H002030-07)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.379	0.200	08/07/2020	ND	1.79	89.7	2.00	3.17	
Toluene*	0.829	0.200	08/07/2020	ND	1.82	91.0	2.00	3.28	
Ethylbenzene*	11.8	0.200	08/07/2020	ND	1.83	91.7	2.00	3.60	
Total Xylenes*	28.5	0.600	08/07/2020	ND	5.37	89.5	6.00	3.40	
Total BTEX	41.5	1.20	08/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 158 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/06/2020	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*	73.1	10.0	08/06/2020	ND	202	101	200	1.49	
DRO >C10-C28*	460	10.0	08/06/2020	ND	206	103	200	0.423	
EXT DRO >C28-C36	66.1	10.0	08/06/2020	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/05/2020	Sampling Date:	08/05/2020
Reported:	08/11/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	FINAL - V1	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: D 1 (H002030-08)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	08/07/2020	ND	1.79	89.7	2.00	3.17	
Toluene*	0.510	0.200	08/07/2020	ND	1.82	91.0	2.00	3.28	
Ethylbenzene*	6.39	0.200	08/07/2020	ND	1.83	91.7	2.00	3.60	
Total Xylenes*	22.6	0.600	08/07/2020	ND	5.37	89.5	6.00	3.40	
Total BTEX	29.5	1.20	08/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/06/2020	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*	106	10.0	08/06/2020	ND	202	101	200	1.49	
DRO >C10-C28*	578	10.0	08/06/2020	ND	206	103	200	0.423	
EXT DRO >C28-C36	80.8	10.0	08/06/2020	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 120 % 42.2-156

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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.
 ZACH ROBBINS
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	08/05/2020	Sampling Date:	08/05/2020
Reported:	08/11/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	FINAL - V1	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: D 2 (H002030-09)

BTEX 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	08/07/2020	ND	1.85	92.6	2.00	5.01	
Toluene*	0.240	0.050	08/07/2020	ND	1.85	92.4	2.00	5.17	
Ethylbenzene*	<0.050	0.050	08/07/2020	ND	1.84	92.2	2.00	5.33	
Total Xylenes*	4.86	0.150	08/07/2020	ND	5.29	88.1	6.00	5.30	
Total BTEX	5.10	0.300	08/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 182 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/06/2020	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	68.7	10.0	08/07/2020	ND	203	102	200	2.39	
DRO >C10-C28*	832	10.0	08/07/2020	ND	210	105	200	1.06	QM-07
EXT DRO >C28-C36	115	10.0	08/07/2020	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

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Analytical Results For:

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

Received:	08/05/2020	Sampling Date:	08/05/2020
Reported:	08/11/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	FINAL - V1	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: D 4 (H002030-10)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.079	0.050	08/07/2020	ND	1.85	92.6	2.00	5.01	
Toluene*	0.353	0.050	08/07/2020	ND	1.85	92.4	2.00	5.17	
Ethylbenzene*	<0.050	0.050	08/07/2020	ND	1.84	92.2	2.00	5.33	
Total Xylenes*	5.00	0.150	08/07/2020	ND	5.29	88.1	6.00	5.30	
Total BTEX	5.43	0.300	08/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 193 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/06/2020	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	25.0	10.0	08/07/2020	ND	203	102	200	2.39	
DRO >C10-C28*	195	10.0	08/07/2020	ND	210	105	200	1.06	
EXT DRO >C28-C36	35.8	10.0	08/07/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/05/2020	Sampling Date:	08/05/2020
Reported:	08/11/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	FINAL - V1	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: E 2 (H002030-11)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.052	0.050	08/07/2020	ND	1.85	92.6	2.00	5.01	
Toluene*	0.586	0.050	08/07/2020	ND	1.85	92.4	2.00	5.17	
Ethylbenzene*	2.27	0.050	08/07/2020	ND	1.84	92.2	2.00	5.33	
Total Xylenes*	13.1	0.150	08/07/2020	ND	5.29	88.1	6.00	5.30	
Total BTEX	16.0	0.300	08/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 190 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/06/2020	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	19.1	10.0	08/07/2020	ND	203	102	200	2.39	
DRO >C10-C28*	107	10.0	08/07/2020	ND	210	105	200	1.06	
EXT DRO >C28-C36	17.3	10.0	08/07/2020	ND					

Surrogate: 1-Chlorooctane 92.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/05/2020	Sampling Date:	08/05/2020
Reported:	08/11/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	FINAL - V1	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: E 3 (H002030-12)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.068	0.050	08/07/2020	ND	1.85	92.6	2.00	5.01	
Toluene*	0.506	0.050	08/07/2020	ND	1.85	92.4	2.00	5.17	
Ethylbenzene*	<0.050	0.050	08/07/2020	ND	1.84	92.2	2.00	5.33	
Total Xylenes*	11.3	0.150	08/07/2020	ND	5.29	88.1	6.00	5.30	
Total BTEX	11.9	0.300	08/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 213 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/06/2020	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	34.9	10.0	08/07/2020	ND	203	102	200	2.39	
DRO >C10-C28*	331	10.0	08/07/2020	ND	210	105	200	1.06	
EXT DRO >C28-C36	51.1	10.0	08/07/2020	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/05/2020	Sampling Date:	08/05/2020
Reported:	08/11/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	FINAL - V1	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: E 4 (H002030-13)

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	08/07/2020	ND	1.85	92.6	2.00	5.01	
Toluene*	<0.050	0.050	08/07/2020	ND	1.85	92.4	2.00	5.17	
Ethylbenzene*	<0.050	0.050	08/07/2020	ND	1.84	92.2	2.00	5.33	
Total Xylenes*	<0.150	0.150	08/07/2020	ND	5.29	88.1	6.00	5.30	
Total BTEX	<0.300	0.300	08/07/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/06/2020	ND	432	108	400	7.69	

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	08/07/2020	ND	203	102	200	2.39	
DRO >C10-C28*	28.5	10.0	08/07/2020	ND	210	105	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	08/07/2020	ND					

Surrogate: 1-Chlorooctane 97.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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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-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

Celey D. Keene, Lab Director/Quality Manager



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

August 28, 2020

ZACH ROBBINS

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: K - 14

Enclosed are the results of analyses for samples received by the laboratory on 08/26/20 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

- Method EPA 552.2 Haloacetic Acids (HAA-5)
- Method EPA 524.2 Total Trihalomethanes (TTHM)
- Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/26/2020	Sampling Date:	08/26/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	APACHE K14 (DELIN)	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: EB 1 4' (H002260-01)

TPH 8015M	mg/kg	Analyzed By: MS					S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1650	10.0	08/27/2020	ND	212	106	200	3.97		
DRO >C10-C28*	9900	10.0	08/27/2020	ND	224	112	200	1.95		
EXT DRO >C28-C36	1190	10.0	08/27/2020	ND						
<hr/>										
Surrogate: 1-Chlorooctane	520 %	44.3-144								
Surrogate: 1-Chlorooctadecane	410 %	42.2-156								

Sample ID: EB 1 5' (H002260-02)

TPH 8015M	mg/kg	Analyzed By: MS					S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/27/2020	ND	212	106	200	3.97		
DRO >C10-C28*	253	10.0	08/27/2020	ND	224	112	200	1.95		
EXT DRO >C28-C36	56.3	10.0	08/27/2020	ND						
<hr/>										
Surrogate: 1-Chlorooctane	143 %	44.3-144								
Surrogate: 1-Chlorooctadecane	155 %	42.2-156								

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/26/2020	Sampling Date:	08/26/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	APACHE K14 (DELIN)	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: EB 2 8' (H002260-03)

TPH 8015M	mg/kg	Analyzed By: MS					S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	130	10.0	08/27/2020	ND	212	106	200	3.97		
DRO >C10-C28*	1360	10.0	08/27/2020	ND	224	112	200	1.95		
EXT DRO >C28-C36	187	10.0	08/27/2020	ND						

Surrogate: 1-Chlorooctane 148 % 44.3-144

Surrogate: 1-Chlorooctadecane 157 % 42.2-156

Sample ID: EB 2 10' (H002260-04)

TPH 8015M	mg/kg	Analyzed By: MS								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	69.6	10.0	08/28/2020	ND	212	106	200	3.97		
DRO >C10-C28*	443	10.0	08/28/2020	ND	224	112	200	1.95		
EXT DRO >C28-C36	56.9	10.0	08/28/2020	ND						

Surrogate: 1-Chlorooctane 133 % 44.3-144

Surrogate: 1-Chlorooctadecane 139 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/26/2020	Sampling Date:	08/26/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	APACHE K14 (DELIN)	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: EB 2 11' (H002260-05)

TPH 8015M	mg/kg	Analyzed By: MS					S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	2270	10.0	08/28/2020	ND	212	106	200	3.97		
DRO >C10-C28*	9550	10.0	08/28/2020	ND	224	112	200	1.95		
EXT DRO >C28-C36	1190	10.0	08/28/2020	ND						

Surrogate: 1-Chlorooctane 528 % 44.3-144
 Surrogate: 1-Chlorooctadecane 366 % 42.2-156

Sample ID: EB 5 7' (H002260-06)

TPH 8015M	mg/kg	Analyzed By: MS								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	28.1	10.0	08/28/2020	ND	212	106	200	3.97		
DRO >C10-C28*	481	10.0	08/28/2020	ND	224	112	200	1.95		
EXT DRO >C28-C36	114	10.0	08/28/2020	ND						

Surrogate: 1-Chlorooctane 123 % 44.3-144
 Surrogate: 1-Chlorooctadecane 130 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/26/2020	Sampling Date:	08/26/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	APACHE K14 (DELIN)	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: EB 6 7' (H002260-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	08/28/2020	ND	416	104	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	08/28/2020	ND	212	106	200	3.97	
DRO >C10-C28*	<10.0	10.0	08/28/2020	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	08/28/2020	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>137 %</i>	<i>44.3-144</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>142 %</i>	<i>42.2-156</i>							

Sample ID: EB 6 8' (H002260-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/28/2020	ND	416	104	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	08/28/2020	ND	212	106	200	3.97	
DRO >C10-C28*	<10.0	10.0	08/28/2020	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	08/28/2020	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>135 %</i>	<i>44.3-144</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>142 %</i>	<i>42.2-156</i>							

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Analytical Results For:

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

Received:	08/26/2020	Sampling Date:	08/26/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	APACHE K14 (DELIN)	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: EB 6 9' (H002260-09)

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	08/28/2020	ND	416	104	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	08/28/2020	ND	212	106	200	3.97	
DRO >C10-C28*	<10.0	10.0	08/28/2020	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	08/28/2020	ND					
Surrogate: 1-Chlorooctane	141 %	44.3-144							
Surrogate: 1-Chlorooctadecane	147 %	42.2-156							

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Notes and Definitions

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



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September 09, 2020

HAYES ADAMS

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: K - 14

Enclosed are the results of analyses for samples received by the laboratory on 09/08/20 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

- Method EPA 552.2 Haloacetic Acids (HAA-5)
- Method EPA 524.2 Total Trihalomethanes (TTHM)
- Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2020	Sampling Date:	09/04/2020
Reported:	09/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	LOCO HILLS	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: A 1 (H002368-01)

BTEX 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	09/08/2020	ND	2.12	106	2.00	5.02	
Toluene*	0.276	0.050	09/08/2020	ND	2.12	106	2.00	5.20	
Ethylbenzene*	1.09	0.050	09/08/2020	ND	2.12	106	2.00	5.26	
Total Xylenes*	4.58	0.150	09/08/2020	ND	6.10	102	6.00	5.56	
Total BTEX	5.94	0.300	09/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 230 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	09/08/2020	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	17.5	10.0	09/08/2020	ND	171	85.5	200	11.8	
DRO >C10-C28*	227	10.0	09/08/2020	ND	191	95.7	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	09/08/2020	ND					

Surrogate: 1-Chlorooctane 75.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.3 % 42.2-156

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Analytical Results For:

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

Received:	09/08/2020	Sampling Date:	09/04/2020
Reported:	09/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	LOCO HILLS	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: A 2 (H002368-02)

BTEX 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	09/08/2020	ND	2.12	106	2.00	5.02	
Toluene*	0.198	0.050	09/08/2020	ND	2.12	106	2.00	5.20	
Ethylbenzene*	<0.050	0.050	09/08/2020	ND	2.12	106	2.00	5.26	
Total Xylenes*	3.73	0.150	09/08/2020	ND	6.10	102	6.00	5.56	
Total BTEX	3.93	0.300	09/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 204 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	09/08/2020	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.5	10.0	09/08/2020	ND	171	85.5	200	11.8	
DRO >C10-C28*	151	10.0	09/08/2020	ND	191	95.7	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	09/08/2020	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.1 % 42.2-156

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Analytical Results For:

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

Received:	09/08/2020	Sampling Date:	09/04/2020
Reported:	09/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	LOCO HILLS	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: A 3 (H002368-03)

BTEX 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	09/08/2020	ND	2.12	106	2.00	5.02	
Toluene*	0.503	0.050	09/08/2020	ND	2.12	106	2.00	5.20	
Ethylbenzene*	<0.050	0.050	09/08/2020	ND	2.12	106	2.00	5.26	
Total Xylenes*	6.99	0.150	09/08/2020	ND	6.10	102	6.00	5.56	
Total BTEX	7.54	0.300	09/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 268 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/08/2020	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	32.7	10.0	09/08/2020	ND	171	85.5	200	11.8	
DRO >C10-C28*	355	10.0	09/08/2020	ND	191	95.7	200	6.96	
EXT DRO >C28-C36	20.7	10.0	09/08/2020	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.9 % 42.2-156

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Analytical Results For:

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

Received:	09/08/2020	Sampling Date:	09/04/2020
Reported:	09/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	LOCO HILLS	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: A 4 (H002368-04)

BTEX 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	09/08/2020	ND	2.12	106	2.00	5.02	
Toluene*	0.180	0.050	09/08/2020	ND	2.12	106	2.00	5.20	
Ethylbenzene*	<0.050	0.050	09/08/2020	ND	2.12	106	2.00	5.26	
Total Xylenes*	3.99	0.150	09/08/2020	ND	6.10	102	6.00	5.56	
Total BTEX	4.17	0.300	09/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 198 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	09/08/2020	ND	416	104	400	8.00	

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	09/08/2020	ND	171	85.5	200	11.8	
DRO >C10-C28*	138	10.0	09/08/2020	ND	191	95.7	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	09/08/2020	ND					

Surrogate: 1-Chlorooctane 82.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.7 % 42.2-156

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Analytical Results For:

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

Received:	09/08/2020	Sampling Date:	09/04/2020
Reported:	09/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	LOCO HILLS	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: B 1 (H002368-05)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.067	0.050	09/08/2020	ND	2.12	106	2.00	5.02	
Toluene*	0.388	0.050	09/08/2020	ND	2.12	106	2.00	5.20	
Ethylbenzene*	2.40	0.050	09/08/2020	ND	2.12	106	2.00	5.26	
Total Xylenes*	6.43	0.150	09/08/2020	ND	6.10	102	6.00	5.56	
Total BTEX	9.28	0.300	09/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 246 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	09/08/2020	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	77.9	10.0	09/08/2020	ND	171	85.5	200	11.8	
DRO >C10-C28*	790	10.0	09/08/2020	ND	191	95.7	200	6.96	
EXT DRO >C28-C36	102	10.0	09/08/2020	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/08/2020	Sampling Date:	09/04/2020
Reported:	09/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	LOCO HILLS	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: B 2 (H002368-06)

BTEX 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	09/08/2020	ND	2.12	106	2.00	5.02	
Toluene*	0.255	0.050	09/08/2020	ND	2.12	106	2.00	5.20	
Ethylbenzene*	1.21	0.050	09/08/2020	ND	2.12	106	2.00	5.26	
Total Xylenes*	4.13	0.150	09/08/2020	ND	6.10	102	6.00	5.56	
Total BTEX	5.59	0.300	09/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 211 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	09/08/2020	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	21.4	10.0	09/08/2020	ND	171	85.5	200	11.8	
DRO >C10-C28*	287	10.0	09/08/2020	ND	191	95.7	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	09/08/2020	ND					

Surrogate: 1-Chlorooctane 81.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.3 % 42.2-156

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Analytical Results For:

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

Received:	09/08/2020	Sampling Date:	09/04/2020
Reported:	09/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	LOCO HILLS	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: B 3 (H002368-07)

BTEX 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	09/08/2020	ND	2.12	106	2.00	5.02	
Toluene*	0.198	0.050	09/08/2020	ND	2.12	106	2.00	5.20	
Ethylbenzene*	<0.050	0.050	09/08/2020	ND	2.12	106	2.00	5.26	
Total Xylenes*	3.69	0.150	09/08/2020	ND	6.10	102	6.00	5.56	
Total BTEX	3.89	0.300	09/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 207 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	09/08/2020	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	18.4	10.0	09/08/2020	ND	171	85.5	200	11.8	
DRO >C10-C28*	247	10.0	09/08/2020	ND	191	95.7	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	09/08/2020	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.6 % 42.2-156

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Analytical Results For:

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

Received:	09/08/2020	Sampling Date:	09/04/2020
Reported:	09/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	LOCO HILLS	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: B 4 (H002368-08)

BTEX 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	09/08/2020	ND	2.12	106	2.00	5.02	
Toluene*	0.397	0.050	09/08/2020	ND	2.12	106	2.00	5.20	
Ethylbenzene*	1.96	0.050	09/08/2020	ND	2.12	106	2.00	5.26	
Total Xylenes*	6.81	0.150	09/08/2020	ND	6.10	102	6.00	5.56	
Total BTEX	9.16	0.300	09/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 147 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	09/08/2020	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	36.5	10.0	09/08/2020	ND	171	85.5	200	11.8	
DRO >C10-C28*	514	10.0	09/08/2020	ND	191	95.7	200	6.96	
EXT DRO >C28-C36	61.7	10.0	09/08/2020	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.9 % 42.2-156

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Analytical Results For:

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

Received:	09/08/2020	Sampling Date:	09/04/2020
Reported:	09/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	LOCO HILLS	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: C 2 (H002368-09)

BTEX 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	09/08/2020	ND	2.12	106	2.00	5.02	
Toluene*	0.266	0.050	09/08/2020	ND	2.12	106	2.00	5.20	
Ethylbenzene*	<0.050	0.050	09/08/2020	ND	2.12	106	2.00	5.26	
Total Xylenes*	4.13	0.150	09/08/2020	ND	6.10	102	6.00	5.56	
Total BTEX	4.40	0.300	09/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 242 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	09/08/2020	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	23.2	10.0	09/08/2020	ND	171	85.5	200	11.8	
DRO >C10-C28*	205	10.0	09/08/2020	ND	191	95.7	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	09/08/2020	ND					

Surrogate: 1-Chlorooctane 92.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.4 % 42.2-156

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Analytical Results For:

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

Received:	09/08/2020	Sampling Date:	09/04/2020
Reported:	09/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	LOCO HILLS	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: C 3 (H002368-10)

BTEX 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	09/08/2020	ND	2.12	106	2.00	5.02	
Toluene*	0.282	0.050	09/08/2020	ND	2.12	106	2.00	5.20	
Ethylbenzene*	<0.050	0.050	09/08/2020	ND	2.12	106	2.00	5.26	
Total Xylenes*	5.15	0.150	09/08/2020	ND	6.10	102	6.00	5.56	
Total BTEX	5.43	0.300	09/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 225 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	09/08/2020	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.3	10.0	09/08/2020	ND	171	85.5	200	11.8	
DRO >C10-C28*	135	10.0	09/08/2020	ND	191	95.7	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	09/08/2020	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.7 % 42.2-156

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Analytical Results For:

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

Received:	09/08/2020	Sampling Date:	09/04/2020
Reported:	09/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	LOCO HILLS	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: C 4 (H002368-11)

BTEX 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	09/08/2020	ND	2.12	106	2.00	5.02	
Toluene*	0.114	0.050	09/08/2020	ND	2.12	106	2.00	5.20	
Ethylbenzene*	<0.050	0.050	09/08/2020	ND	2.12	106	2.00	5.26	
Total Xylenes*	2.85	0.150	09/08/2020	ND	6.10	102	6.00	5.56	
Total BTEX	2.96	0.300	09/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 188 % 73.3-129

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	09/08/2020	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.1	10.0	09/08/2020	ND	171	85.5	200	11.8	
DRO >C10-C28*	144	10.0	09/08/2020	ND	191	95.7	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	09/08/2020	ND					

Surrogate: 1-Chlorooctane 91.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.1 % 42.2-156

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Analytical Results For:

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

Received:	09/08/2020	Sampling Date:	09/04/2020
Reported:	09/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	LOCO HILLS	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: D 1 (H002368-12)

BTEX 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	09/08/2020	ND	2.12	106	2.00	5.02	
Toluene*	0.253	0.050	09/08/2020	ND	2.12	106	2.00	5.20	
Ethylbenzene*	<0.050	0.050	09/08/2020	ND	2.12	106	2.00	5.26	
Total Xylenes*	4.79	0.150	09/08/2020	ND	6.10	102	6.00	5.56	
Total BTEX	5.05	0.300	09/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 213 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	09/08/2020	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	18.9	10.0	09/08/2020	ND	171	85.5	200	11.8	
DRO >C10-C28*	156	10.0	09/08/2020	ND	191	95.7	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	09/08/2020	ND					

Surrogate: 1-Chlorooctane 88.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.0 % 42.2-156

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Analytical Results For:

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

Received:	09/08/2020	Sampling Date:	09/04/2020
Reported:	09/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	LOCO HILLS	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: D 2 (H002368-13)

BTEX 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	09/08/2020	ND	2.12	106	2.00	5.02	
Toluene*	0.165	0.050	09/08/2020	ND	2.12	106	2.00	5.20	
Ethylbenzene*	0.583	0.050	09/08/2020	ND	2.12	106	2.00	5.26	
Total Xylenes*	2.74	0.150	09/08/2020	ND	6.10	102	6.00	5.56	
Total BTEX	3.49	0.300	09/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 180 % 73.3-129

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	09/08/2020	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.9	10.0	09/08/2020	ND	171	85.5	200	11.8	
DRO >C10-C28*	115	10.0	09/08/2020	ND	191	95.7	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	09/08/2020	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.8 % 42.2-156

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Analytical Results For:

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

Received:	09/08/2020	Sampling Date:	09/04/2020
Reported:	09/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	LOCO HILLS	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: D 3 (H002368-14)

BTEX 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	09/08/2020	ND	2.12	106	2.00	5.02	
Toluene*	0.079	0.050	09/08/2020	ND	2.12	106	2.00	5.20	
Ethylbenzene*	<0.050	0.050	09/08/2020	ND	2.12	106	2.00	5.26	
Total Xylenes*	1.83	0.150	09/08/2020	ND	6.10	102	6.00	5.56	
Total BTEX	1.91	0.300	09/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 165 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	09/08/2020	ND	416	104	400	8.00	

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	09/08/2020	ND	171	85.5	200	11.8	
DRO >C10-C28*	112	10.0	09/08/2020	ND	191	95.7	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	09/08/2020	ND					

Surrogate: 1-Chlorooctane 90.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.6 % 42.2-156

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Analytical Results For:

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

Received:	09/08/2020	Sampling Date:	09/04/2020
Reported:	09/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	LOCO HILLS	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: D 4 (H002368-15)

BTEX 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	09/08/2020	ND	2.12	106	2.00	5.02	
Toluene*	0.121	0.050	09/08/2020	ND	2.12	106	2.00	5.20	
Ethylbenzene*	<0.050	0.050	09/08/2020	ND	2.12	106	2.00	5.26	
Total Xylenes*	3.04	0.150	09/08/2020	ND	6.10	102	6.00	5.56	
Total BTEX	3.16	0.300	09/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 194 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	09/08/2020	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	22.7	10.0	09/08/2020	ND	171	85.5	200	11.8	
DRO >C10-C28*	313	10.0	09/08/2020	ND	191	95.7	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	09/08/2020	ND					

Surrogate: 1-Chlorooctane 91.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Notes and Definitions

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

Celey D. Keene, Lab Director/Quality Manager



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

November 04, 2020

HAYES ADAMS

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: K - 14

Enclosed are the results of analyses for samples received by the laboratory on 10/28/20 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: A1 (H002861-01)

BTEX 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	10/29/2020	ND	1.85	92.5	2.00	16.7		
Toluene*	0.098	0.050	10/29/2020	ND	1.76	88.0	2.00	17.5	GC-NC1	
Ethylbenzene*	1.62	0.050	10/29/2020	ND	1.74	87.0	2.00	17.0	GC-NC1, QM-07	
Total Xylenes*	0.915	0.150	10/29/2020	ND	4.98	83.0	6.00	16.6	GC-NC1	
Total BTEX	2.63	0.300	10/29/2020	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 154 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	10/29/2020	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	18.8	10.0	10/29/2020	ND	218	109	200	0.822		
DRO >C10-C28*	290	10.0	10/29/2020	ND	206	103	200	2.21		
EXT DRO >C28-C36	35.1	10.0	10/29/2020	ND						

Surrogate: 1-Chlorooctane 91.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.8 % 42.2-156

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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: A2 (H002861-02)

BTEX 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	10/29/2020	ND	1.85	92.5	2.00	16.7		
Toluene*	0.096	0.050	10/29/2020	ND	1.76	88.0	2.00	17.5	GC-NC1	
Ethylbenzene*	1.41	0.050	10/29/2020	ND	1.74	87.0	2.00	17.0	GC-NC1	
Total Xylenes*	0.815	0.150	10/29/2020	ND	4.98	83.0	6.00	16.6	GC-NC1	
Total BTEX	2.32	0.300	10/29/2020	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 153 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	10/29/2020	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	10.2	10.0	10/29/2020	ND	218	109	200	0.822		
DRO >C10-C28*	125	10.0	10/29/2020	ND	206	103	200	2.21		
EXT DRO >C28-C36	10.9	10.0	10/29/2020	ND						

Surrogate: 1-Chlorooctane 93.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/28/2020
 Reported: 11/04/2020
 Project Name: K - 14
 Project Number: LOCO HILLS
 Project Location: ARTESIA

Sampling Date: 10/28/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: A3 (H002861-03)

BTEX 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	10/29/2020	ND	1.85	92.5	2.00	16.7		
Toluene*	0.154	0.050	10/29/2020	ND	1.76	88.0	2.00	17.5	GC-NC1	
Ethylbenzene*	2.31	0.050	10/29/2020	ND	1.74	87.0	2.00	17.0	GC-NC1	
Total Xylenes*	1.31	0.150	10/29/2020	ND	4.98	83.0	6.00	16.6	GC-NC1	
Total BTEX	3.77	0.300	10/29/2020	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 173 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	10/29/2020	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	20.0	10.0	10/29/2020	ND	218	109	200	0.822		
DRO >C10-C28*	243	10.0	10/29/2020	ND	206	103	200	2.21		
EXT DRO >C28-C36	27.0	10.0	10/29/2020	ND						

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: A4 (H002861-04)

BTEX 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	10/29/2020	ND	1.85	92.5	2.00	16.7	
Toluene*	0.199	0.050	10/29/2020	ND	1.76	88.0	2.00	17.5	GC-NC1
Ethylbenzene*	2.76	0.050	10/29/2020	ND	1.74	87.0	2.00	17.0	GC-NC1
Total Xylenes*	0.651	0.150	10/29/2020	ND	4.98	83.0	6.00	16.6	GC-NC1
Total BTEX	3.61	0.300	10/29/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 182 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	10/29/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	20.6	10.0	10/29/2020	ND	218	109	200	0.822	
DRO >C10-C28*	229	10.0	10/29/2020	ND	206	103	200	2.21	
EXT DRO >C28-C36	23.3	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 99.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.9 % 42.2-156

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Analytical Results For:

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

Received: 10/28/2020
 Reported: 11/04/2020
 Project Name: K - 14
 Project Number: LOCO HILLS
 Project Location: ARTESIA

Sampling Date: 10/28/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: C1 (H002861-05)

BTEX 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	10/29/2020	ND	1.85	92.5	2.00	16.7		
Toluene*	0.057	0.050	10/29/2020	ND	1.76	88.0	2.00	17.5	GC-NC1	
Ethylbenzene*	1.06	0.050	10/29/2020	ND	1.74	87.0	2.00	17.0	GC-NC1	
Total Xylenes*	0.621	0.150	10/29/2020	ND	4.98	83.0	6.00	16.6	GC-NC1	
Total BTEX	1.74	0.300	10/29/2020	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 146 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	10/29/2020	ND	416	104	400	3.77		

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	10/29/2020	ND	218	109	200	0.822		
DRO >C10-C28*	109	10.0	10/29/2020	ND	206	103	200	2.21		
EXT DRO >C28-C36	10.8	10.0	10/29/2020	ND						

Surrogate: 1-Chlorooctane 99.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.8 % 42.2-156

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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: C2 (H002861-06)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.055	0.050	10/29/2020	ND	1.85	92.5	2.00	16.7	
Toluene*	0.243	0.050	10/29/2020	ND	1.76	88.0	2.00	17.5	GC-NC1
Ethylbenzene*	1.01	0.050	10/29/2020	ND	1.74	87.0	2.00	17.0	GC-NC1
Total Xylenes*	3.09	0.150	10/29/2020	ND	4.98	83.0	6.00	16.6	GC-NC1
Total BTEX	4.40	0.300	10/29/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 188 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	10/29/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	25.1	10.0	10/29/2020	ND	218	109	200	0.822	
DRO >C10-C28*	280	10.0	10/29/2020	ND	206	103	200	2.21	
EXT DRO >C28-C36	28.4	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 98.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.5 % 42.2-156

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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: C3 (H002861-07)

BTEX 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	10/29/2020	ND	1.85	92.5	2.00	16.7		
Toluene*	0.158	0.050	10/29/2020	ND	1.76	88.0	2.00	17.5	GC-NC1	
Ethylbenzene*	2.51	0.050	10/29/2020	ND	1.74	87.0	2.00	17.0	GC-NC1	
Total Xylenes*	1.27	0.150	10/29/2020	ND	4.98	83.0	6.00	16.6	GC-NC1	
Total BTEX	3.94	0.300	10/29/2020	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 183 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	10/29/2020	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	13.0	10.0	10/29/2020	ND	218	109	200	0.822		
DRO >C10-C28*	173	10.0	10/29/2020	ND	206	103	200	2.21		
EXT DRO >C28-C36	18.7	10.0	10/29/2020	ND						

Surrogate: 1-Chlorooctane 94.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: C4 (H002861-08)

BTEX 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	10/29/2020	ND	1.85	92.5	2.00	16.7	
Toluene*	0.168	0.050	10/29/2020	ND	1.76	88.0	2.00	17.5	GC-NC1
Ethylbenzene*	2.63	0.050	10/29/2020	ND	1.74	87.0	2.00	17.0	GC-NC1
Total Xylenes*	1.55	0.150	10/29/2020	ND	4.98	83.0	6.00	16.6	GC-NC1
Total BTEX	4.35	0.300	10/29/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 177 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	10/29/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	19.1	10.0	10/29/2020	ND	218	109	200	0.822	
DRO >C10-C28*	272	10.0	10/29/2020	ND	206	103	200	2.21	
EXT DRO >C28-C36	32.5	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 92.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.7 % 42.2-156

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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: E1 (H002861-09)

BTEX 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	10/29/2020	ND	1.85	92.5	2.00	16.7		
Toluene*	0.053	0.050	10/29/2020	ND	1.76	88.0	2.00	17.5	GC-NC1	
Ethylbenzene*	0.884	0.050	10/29/2020	ND	1.74	87.0	2.00	17.0	GC-NC1	
Total Xylenes*	0.526	0.150	10/29/2020	ND	4.98	83.0	6.00	16.6	GC-NC1	
Total BTEX	1.46	0.300	10/29/2020	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 144 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	10/29/2020	ND	416	104	400	3.77		

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	10/29/2020	ND	218	109	200	0.822		
DRO >C10-C28*	154	10.0	10/29/2020	ND	206	103	200	2.21		
EXT DRO >C28-C36	19.4	10.0	10/29/2020	ND						

Surrogate: 1-Chlorooctane 98.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.1 % 42.2-156

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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: E2 (H002861-10)

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	10/29/2020	ND	1.85	92.5	2.00	16.7	
Toluene*	<0.050	0.050	10/29/2020	ND	1.76	88.0	2.00	17.5	GC-NC1
Ethylbenzene*	0.500	0.050	10/29/2020	ND	1.74	87.0	2.00	17.0	GC-NC1
Total Xylenes*	0.308	0.150	10/29/2020	ND	4.98	83.0	6.00	16.6	GC-NC1
Total BTEX	0.808	0.300	10/29/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 125 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/29/2020	ND	416	104	400	3.77	

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	10/29/2020	ND	218	109	200	0.822	
DRO >C10-C28*	58.4	10.0	10/29/2020	ND	206	103	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 94.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.1 % 42.2-156

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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: E3 (H002861-11)

BTEX 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	10/29/2020	ND	1.85	92.5	2.00	16.7		
Toluene*	<0.050	0.050	10/29/2020	ND	1.76	88.0	2.00	17.5	GC-NC1	
Ethylbenzene*	0.870	0.050	10/29/2020	ND	1.74	87.0	2.00	17.0	GC-NC1	
Total Xylenes*	0.523	0.150	10/29/2020	ND	4.98	83.0	6.00	16.6	GC-NC1	
Total BTEX	1.39	0.300	10/29/2020	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 140 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	10/29/2020	ND	416	104	400	3.77		

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	10/29/2020	ND	218	109	200	0.822		
DRO >C10-C28*	75.6	10.0	10/29/2020	ND	206	103	200	2.21		
EXT DRO >C28-C36	<10.0	10.0	10/29/2020	ND						

Surrogate: 1-Chlorooctane 93.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.5 % 42.2-156

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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: E4 (H002861-12)

BTEX 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	10/29/2020	ND	1.85	92.5	2.00	16.7	
Toluene*	0.053	0.050	10/29/2020	ND	1.76	88.0	2.00	17.5	GC-NC1
Ethylbenzene*	0.952	0.050	10/29/2020	ND	1.74	87.0	2.00	17.0	GC-NC1
Total Xylenes*	0.556	0.150	10/29/2020	ND	4.98	83.0	6.00	16.6	GC-NC1
Total BTEX	1.56	0.300	10/29/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 141 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	10/29/2020	ND	416	104	400	3.77	

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	10/29/2020	ND	218	109	200	0.822	
DRO >C10-C28*	81.4	10.0	10/29/2020	ND	206	103	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 95.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.2 % 42.2-156

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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: G1 (H002861-13)

BTEX 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	10/29/2020	ND	1.85	92.5	2.00	16.7		
Toluene*	0.110	0.050	10/29/2020	ND	1.76	88.0	2.00	17.5	GC-NC1	
Ethylbenzene*	1.49	0.050	10/29/2020	ND	1.74	87.0	2.00	17.0	GC-NC1	
Total Xylenes*	0.800	0.150	10/29/2020	ND	4.98	83.0	6.00	16.6	GC-NC1	
Total BTEX	2.40	0.300	10/29/2020	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 152 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	10/29/2020	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	12.1	10.0	10/29/2020	ND	218	109	200	0.822		
DRO >C10-C28*	189	10.0	10/29/2020	ND	206	103	200	2.21		
EXT DRO >C28-C36	24.5	10.0	10/29/2020	ND						

Surrogate: 1-Chlorooctane 92.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.0 % 42.2-156

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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: G2 (H002861-14)

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	10/29/2020	ND	1.85	92.5	2.00	16.7	
Toluene*	<0.050	0.050	10/29/2020	ND	1.76	88.0	2.00	17.5	GC-NC1
Ethylbenzene*	0.491	0.050	10/29/2020	ND	1.74	87.0	2.00	17.0	GC-NC1
Total Xylenes*	0.303	0.150	10/29/2020	ND	4.98	83.0	6.00	16.6	GC-NC1
Total BTEX	0.794	0.300	10/29/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 125 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/29/2020	ND	416	104	400	3.77	

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	10/29/2020	ND	218	109	200	0.822	
DRO >C10-C28*	95.4	10.0	10/29/2020	ND	206	103	200	2.21	
EXT DRO >C28-C36	11.7	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 90.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.3 % 42.2-156

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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: G3 (H002861-15)

BTEX 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	10/29/2020	ND	1.85	92.5	2.00	16.7	
Toluene*	<0.050	0.050	10/29/2020	ND	1.76	88.0	2.00	17.5	GC-NC1
Ethylbenzene*	0.812	0.050	10/29/2020	ND	1.74	87.0	2.00	17.0	GC-NC1
Total Xylenes*	0.475	0.150	10/29/2020	ND	4.98	83.0	6.00	16.6	GC-NC1
Total BTEX	1.29	0.300	10/29/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 137 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/29/2020	ND	416	104	400	3.77	

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	10/29/2020	ND	206	103	200	2.09	
DRO >C10-C28*	245	10.0	10/29/2020	ND	192	95.8	200	10.9	QM-07, QR-03
EXT DRO >C28-C36	40.6	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 92.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: G4 (H002861-16)

BTEX 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	10/29/2020	ND	1.85	92.5	2.00	16.7		
Toluene*	0.055	0.050	10/29/2020	ND	1.76	88.0	2.00	17.5	GC-NC1	
Ethylbenzene*	0.923	0.050	10/29/2020	ND	1.74	87.0	2.00	17.0	GC-NC1	
Total Xylenes*	0.532	0.150	10/29/2020	ND	4.98	83.0	6.00	16.6	GC-NC1	
Total BTEX	1.51	0.300	10/29/2020	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 140 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	10/29/2020	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	11.4	10.0	10/29/2020	ND	206	103	200	2.09		
DRO >C10-C28*	240	10.0	10/29/2020	ND	192	95.8	200	10.9		
EXT DRO >C28-C36	19.7	10.0	10/29/2020	ND						

Surrogate: 1-Chlorooctane 87.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.5 % 42.2-156

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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.
 HAYES ADAMS
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: I1 (H002861-17)

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	10/29/2020	ND	1.85	92.5	2.00	16.7	
Toluene*	<0.050	0.050	10/29/2020	ND	1.76	88.0	2.00	17.5	GC-NC1
Ethylbenzene*	0.558	0.050	10/29/2020	ND	1.74	87.0	2.00	17.0	GC-NC1
Total Xylenes*	0.350	0.150	10/29/2020	ND	4.98	83.0	6.00	16.6	GC-NC1
Total BTEX	0.908	0.300	10/29/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 126 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	10/29/2020	ND	416	104	400	3.77	

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	10/29/2020	ND	206	103	200	2.09	
DRO >C10-C28*	231	10.0	10/29/2020	ND	192	95.8	200	10.9	
EXT DRO >C28-C36	34.5	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 79.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: I2 (H002861-18)

BTEX 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	10/29/2020	ND	1.85	92.5	2.00	16.7		
Toluene*	<0.050	0.050	10/29/2020	ND	1.76	88.0	2.00	17.5	GC-NC1	
Ethylbenzene*	0.656	0.050	10/29/2020	ND	1.74	87.0	2.00	17.0	GC-NC1	
Total Xylenes*	0.950	0.150	10/29/2020	ND	4.98	83.0	6.00	16.6	GC-NC1	
Total BTEX	1.61	0.300	10/29/2020	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 130 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/29/2020	ND	416	104	400	3.77		

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	10/29/2020	ND	206	103	200	2.09		
DRO >C10-C28*	245	10.0	10/29/2020	ND	192	95.8	200	10.9		
EXT DRO >C28-C36	50.6	10.0	10/29/2020	ND						

Surrogate: 1-Chlorooctane 90.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: I3 (H002861-19)

BTEX 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	10/30/2020	ND	1.99	99.3	2.00	1.20	
Toluene*	<0.050	0.050	10/30/2020	ND	1.91	95.3	2.00	1.78	GC-NC1
Ethylbenzene*	0.723	0.050	10/30/2020	ND	1.89	94.6	2.00	2.36	GC-NC1
Total Xylenes*	0.443	0.150	10/30/2020	ND	5.50	91.7	6.00	2.22	GC-NC1
Total BTEX	1.17	0.300	10/30/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 131 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/29/2020	ND	416	104	400	3.77	

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	10/29/2020	ND	206	103	200	2.09	
DRO >C10-C28*	204	10.0	10/29/2020	ND	192	95.8	200	10.9	
EXT DRO >C28-C36	33.0	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 93.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: I4 (H002861-20)

BTEX 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	10/30/2020	ND	1.99	99.3	2.00	1.20	
Toluene*	0.054	0.050	10/30/2020	ND	1.91	95.3	2.00	1.78	GC-NC1
Ethylbenzene*	1.07	0.050	10/30/2020	ND	1.89	94.6	2.00	2.36	GC-NC1
Total Xylenes*	0.656	0.150	10/30/2020	ND	5.50	91.7	6.00	2.22	GC-NC1
Total BTEX	1.78	0.300	10/30/2020	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 148 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/29/2020	ND	416	104	400	3.77	

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	10/29/2020	ND	206	103	200	2.09	
DRO >C10-C28*	106	10.0	10/29/2020	ND	192	95.8	200	10.9	
EXT DRO >C28-C36	15.9	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 94.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04 The RPD for the BS/BSD was outside of historical limits.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis.
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

Celey D. Keene, Lab Director/Quality Manager



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

Report #1 Pg 1
 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO ANALYSIS REQUEST

Company Name: AKS01 P.O. #: _____
 Project Manager: Hayes Adams Company: _____
 Address: _____ Attn: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: K-14 State: _____ Zip: _____
 Project Location: Loos Hills City: _____
 Sampler Name: Hayes Adams Phone #: _____
 FOR LAB USE ONLY: Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	Chlorides	TPH	btex
<u>HDDZ861</u>	<u>A1</u>		<u>1</u>	<input checked="" type="checkbox"/> SOIL			<u>10/28</u>	<u>1pm</u>			
	<u>A2</u>			<input checked="" type="checkbox"/> OIL							
	<u>A3</u>			<input checked="" type="checkbox"/> SLUDGE							
	<u>A4</u>			<input checked="" type="checkbox"/> OTHER :							
	<u>A5</u>			<input checked="" type="checkbox"/> ACID/BASE:							
	<u>A6</u>			<input checked="" type="checkbox"/> ICE / COOL							
	<u>A7</u>			<input checked="" type="checkbox"/> OTHER :							
	<u>A8</u>										
	<u>A9</u>										
	<u>A10</u>										

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Reinquisitioned By: _____ Date: 10/28 Received By: Celestine Keene
 Relinquished By: _____ Date: 3:56 Received By: _____
 Time: _____

Delivered By: (Circle One) Observed Temp. °C: 24 Sample Condition: Intact Cool Yes No
 Corrected Temp. °C: _____
 Turnaround Time: _____ Standard Rush
 Thermometer ID: 113 Bacteria (only) Sample Condition: Cool Intact Yes No
 Correction Factor: 1.4 Observed Temp. °C: _____ Corrected Temp. °C: _____

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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Report # 1 pg. 2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

Company Name:
 Project Manager:
 Address:
 City: State: Zip:
 Phone #: Fax #:
 Project #: Project Owner:
 Project Name:
 Project Location:
 Sampler Name:
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H00286												Chlorides
11	EG4								10/28	1pm		TPH
12	EG4											bTEX
13	EG1											
14	EG2											
15	EG3											
16	EG4											
17	IG1											
18	IG2											
19	IG3											
20	IG4											

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Relinquished By: *[Signature]* Date: 10/28 Received By: *[Signature]* Verbal Result: Yes No Add'l Phone #:
 Relinquished By: *[Signature]* Date: 3:50 Received By: *[Signature]* All Results are emailed. Please provide Email address:
 REMARKS:

Delivered By: (Circle One) Observed Temp. °C: 2.4 Sample Condition: Intact Cool Yes No
 Sampler - UPS - Bus - Other: Corrected Temp. °C: CHECKED BY: (Initials) Turnaround Time: Standard Bacteria (only) Sample Condition
 Cool Intact Yes No Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celej/keene@cardinalabsnm.com



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

November 04, 2020

HAYES ADAMS

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: K - 14

Enclosed are the results of analyses for samples received by the laboratory on 10/28/20 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Celey D. Keene
Project Location:	ARTESIA		

Sample ID: W1 (H002862-01)

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	10/30/2020	ND	1.99	99.3	2.00	1.20		
Toluene*	<0.050	0.050	10/30/2020	ND	1.91	95.3	2.00	1.78		
Ethylbenzene*	<0.050	0.050	10/30/2020	ND	1.89	94.6	2.00	2.36	GC-NC	
Total Xylenes*	<0.150	0.150	10/30/2020	ND	5.50	91.7	6.00	2.22	GC-NC	
Total BTEX	<0.300	0.300	10/30/2020	ND					GC-NC	

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

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	10/29/2020	ND	206	103	200	2.09		
DRO >C10-C28*	76.4	10.0	10/29/2020	ND	192	95.8	200	10.9		
EXT DRO >C28-C36	<10.0	10.0	10/29/2020	ND						

Surrogate: 1-Chlorooctane 88.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/28/2020
 Reported: 11/04/2020
 Project Name: K - 14
 Project Number: LOCO HILLS
 Project Location: ARTESIA

Sampling Date: 10/28/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Celey D. Keene

Sample ID: W2 (H002862-02)

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	10/30/2020	ND	1.99	99.3	2.00	1.20	
Toluene*	<0.050	0.050	10/30/2020	ND	1.91	95.3	2.00	1.78	
Ethylbenzene*	<0.050	0.050	10/30/2020	ND	1.89	94.6	2.00	2.36	GC-NC
Total Xylenes*	<0.150	0.150	10/30/2020	ND	5.50	91.7	6.00	2.22	GC-NC
Total BTEX	<0.300	0.300	10/30/2020	ND					GC-NC

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

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	10/29/2020	ND	206	103	200	2.09	
DRO >C10-C28*	67.6	10.0	10/29/2020	ND	192	95.8	200	10.9	
EXT DRO >C28-C36	<10.0	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 91.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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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.
 HAYES ADAMS
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Celey D. Keene
Project Location:	ARTESIA		

Sample ID: W3 (H002862-03)

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	10/30/2020	ND	1.99	99.3	2.00	1.20	
Toluene*	<0.050	0.050	10/30/2020	ND	1.91	95.3	2.00	1.78	
Ethylbenzene*	<0.050	0.050	10/30/2020	ND	1.89	94.6	2.00	2.36	GC-NC
Total Xylenes*	<0.150	0.150	10/30/2020	ND	5.50	91.7	6.00	2.22	GC-NC
Total BTEX	<0.300	0.300	10/30/2020	ND					GC-NC

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.3-129

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	10/29/2020	ND	206	103	200	2.09	
DRO >C10-C28*	55.3	10.0	10/29/2020	ND	192	95.8	200	10.9	
EXT DRO >C28-C36	<10.0	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 87.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.4 % 42.2-156

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Analytical Results For:

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

Received: 10/28/2020
 Reported: 11/04/2020
 Project Name: K - 14
 Project Number: LOCO HILLS
 Project Location: ARTESIA

Sampling Date: 10/28/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Celey D. Keene

Sample ID: X1 (H002862-04)

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	10/30/2020	ND	1.99	99.3	2.00	1.20	
Toluene*	<0.050	0.050	10/30/2020	ND	1.91	95.3	2.00	1.78	
Ethylbenzene*	<0.050	0.050	10/30/2020	ND	1.89	94.6	2.00	2.36	GC-NC
Total Xylenes*	<0.150	0.150	10/30/2020	ND	5.50	91.7	6.00	2.22	GC-NC
Total BTEX	<0.300	0.300	10/30/2020	ND					GC-NC

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

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	10/29/2020	ND	206	103	200	2.09	
DRO >C10-C28*	141	10.0	10/29/2020	ND	192	95.8	200	10.9	
EXT DRO >C28-C36	24.6	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Celey D. Keene
Project Location:	ARTESIA		

Sample ID: X2 (H002862-05)

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	10/30/2020	ND	1.99	99.3	2.00	1.20		
Toluene*	<0.050	0.050	10/30/2020	ND	1.91	95.3	2.00	1.78		
Ethylbenzene*	<0.050	0.050	10/30/2020	ND	1.89	94.6	2.00	2.36	GC-NC	
Total Xylenes*	<0.150	0.150	10/30/2020	ND	5.50	91.7	6.00	2.22	GC-NC	
Total BTEX	<0.300	0.300	10/30/2020	ND					GC-NC	

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.3-129

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	10/29/2020	ND	206	103	200	2.09		
DRO >C10-C28*	206	10.0	10/29/2020	ND	192	95.8	200	10.9		
EXT DRO >C28-C36	41.9	10.0	10/29/2020	ND						

Surrogate: 1-Chlorooctane 93.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Celey D. Keene
Project Location:	ARTESIA		

Sample ID: X3 (H002862-06)

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	10/30/2020	ND	1.99	99.3	2.00	1.20	
Toluene*	<0.050	0.050	10/30/2020	ND	1.91	95.3	2.00	1.78	
Ethylbenzene*	<0.050	0.050	10/30/2020	ND	1.89	94.6	2.00	2.36	GC-NC
Total Xylenes*	<0.150	0.150	10/30/2020	ND	5.50	91.7	6.00	2.22	GC-NC
Total BTEX	<0.300	0.300	10/30/2020	ND					GC-NC

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

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	10/29/2020	ND	206	103	200	2.09	
DRO >C10-C28*	14.1	10.0	10/29/2020	ND	192	95.8	200	10.9	
EXT DRO >C28-C36	<10.0	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Analytical Results For:

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

Received: 10/28/2020
 Reported: 11/04/2020
 Project Name: K - 14
 Project Number: LOCO HILLS
 Project Location: ARTESIA

Sampling Date: 10/28/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Celey D. Keene

Sample ID: Y1 (H002862-07)

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	10/30/2020	ND	1.99	99.3	2.00	1.20	
Toluene*	<0.050	0.050	10/30/2020	ND	1.91	95.3	2.00	1.78	
Ethylbenzene*	<0.050	0.050	10/30/2020	ND	1.89	94.6	2.00	2.36	GC-NC
Total Xylenes*	<0.150	0.150	10/30/2020	ND	5.50	91.7	6.00	2.22	GC-NC
Total BTEX	<0.300	0.300	10/30/2020	ND					GC-NC

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	19.4	10.0	10/29/2020	ND	206	103	200	2.09	
DRO >C10-C28*	350	10.0	10/29/2020	ND	192	95.8	200	10.9	
EXT DRO >C28-C36	64.6	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 93.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Celey D. Keene
Project Location:	ARTESIA		

Sample ID: Y2 (H002862-08)

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	10/30/2020	ND	1.99	99.3	2.00	1.20	
Toluene*	<0.050	0.050	10/30/2020	ND	1.91	95.3	2.00	1.78	
Ethylbenzene*	<0.050	0.050	10/30/2020	ND	1.89	94.6	2.00	2.36	GC-NC
Total Xylenes*	<0.150	0.150	10/30/2020	ND	5.50	91.7	6.00	2.22	GC-NC
Total BTEX	<0.300	0.300	10/30/2020	ND					GC-NC

Surrogate: 4-Bromofluorobenzene (PID) 124 % 73.3-129

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	10/29/2020	ND	206	103	200	2.09	
DRO >C10-C28*	73.8	10.0	10/29/2020	ND	192	95.8	200	10.9	
EXT DRO >C28-C36	<10.0	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 93.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Analytical Results For:

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

Received: 10/28/2020
 Reported: 11/04/2020
 Project Name: K - 14
 Project Number: LOCO HILLS
 Project Location: ARTESIA

Sampling Date: 10/28/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Celey D. Keene

Sample ID: Y3 (H002862-09)

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	10/30/2020	ND	1.99	99.3	2.00	1.20	
Toluene*	<0.050	0.050	10/30/2020	ND	1.91	95.3	2.00	1.78	
Ethylbenzene*	<0.050	0.050	10/30/2020	ND	1.89	94.6	2.00	2.36	GC-NC
Total Xylenes*	<0.150	0.150	10/30/2020	ND	5.50	91.7	6.00	2.22	GC-NC
Total BTEX	<0.300	0.300	10/30/2020	ND					GC-NC

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.3-129

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	10/29/2020	ND	206	103	200	2.09	
DRO >C10-C28*	21.5	10.0	10/29/2020	ND	192	95.8	200	10.9	
EXT DRO >C28-C36	<10.0	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 88.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.1 % 42.2-156

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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Celey D. Keene
Project Location:	ARTESIA		

Sample ID: Z1 (H002862-10)

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	10/30/2020	ND	1.99	99.3	2.00	1.20	
Toluene*	<0.050	0.050	10/30/2020	ND	1.91	95.3	2.00	1.78	
Ethylbenzene*	<0.050	0.050	10/30/2020	ND	1.89	94.6	2.00	2.36	GC-NC
Total Xylenes*	<0.150	0.150	10/30/2020	ND	5.50	91.7	6.00	2.22	GC-NC
Total BTEX	<0.300	0.300	10/30/2020	ND					GC-NC

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.3-129

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	10/29/2020	ND	206	103	200	2.09	
DRO >C10-C28*	32.0	10.0	10/29/2020	ND	192	95.8	200	10.9	
EXT DRO >C28-C36	<10.0	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 91.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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Analytical Results For:

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

Received: 10/28/2020
 Reported: 11/04/2020
 Project Name: K - 14
 Project Number: LOCO HILLS
 Project Location: ARTESIA

Sampling Date: 10/28/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Celey D. Keene

Sample ID: Z2 (H002862-11)

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	10/30/2020	ND	1.99	99.3	2.00	1.20	
Toluene*	<0.050	0.050	10/30/2020	ND	1.91	95.3	2.00	1.78	
Ethylbenzene*	<0.050	0.050	10/30/2020	ND	1.89	94.6	2.00	2.36	GC-NC
Total Xylenes*	<0.150	0.150	10/30/2020	ND	5.50	91.7	6.00	2.22	GC-NC
Total BTEX	<0.300	0.300	10/30/2020	ND					GC-NC

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

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	10/29/2020	ND	206	103	200	2.09	
DRO >C10-C28*	39.4	10.0	10/29/2020	ND	192	95.8	200	10.9	
EXT DRO >C28-C36	<10.0	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.3 % 42.2-156

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Analytical Results For:

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

Received:	10/28/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	** (See Notes)
Project Number:	LOCO HILLS	Sample Received By:	Celey D. Keene
Project Location:	ARTESIA		

Sample ID: Z3 (H002862-12)

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	10/30/2020	ND	1.99	99.3	2.00	1.20	
Toluene*	<0.050	0.050	10/30/2020	ND	1.91	95.3	2.00	1.78	
Ethylbenzene*	<0.050	0.050	10/30/2020	ND	1.89	94.6	2.00	2.36	GC-NC
Total Xylenes*	<0.150	0.150	10/30/2020	ND	5.50	91.7	6.00	2.22	GC-NC
Total BTEX	<0.300	0.300	10/30/2020	ND					GC-NC

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

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	10/29/2020	ND	206	103	200	2.09	
DRO >C10-C28*	41.7	10.0	10/29/2020	ND	192	95.8	200	10.9	
EXT DRO >C28-C36	<10.0	10.0	10/29/2020	ND					

Surrogate: 1-Chlorooctane 88.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.5 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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.
GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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

Celey D. Keene, Lab Director/Quality Manager



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

Report #2 Pg 2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: _____ P.O. #: _____
 Project Manager: _____ Company: _____
 Address: _____ Attn: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: _____ City: _____ State: _____ Zip: _____
 Project Location: _____ Phone #: _____
 Sampler Name: _____ Fax #: _____
FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	PH	Stx
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
H002822-			1						12/28	1pm			
10													
11													
12													

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Relinquished By: _____
 Date: 04/28
 Time: 3:50
 Received By: *Libby Keene*
 Date: _____
 Time: _____

Delivered By: (Circle One) Observed Temp. °C: 2.4
 Corrected Temp. °C: _____
 Sample Condition: Cool Intact
 Sample - UPS - Bus - Other: Yes No

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

November 23, 2020

MATTHEW LONGCRIER

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: K - 14

Enclosed are the results of analyses for samples received by the laboratory on 11/20/20 10:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	11/20/2020	Sampling Date:	11/19/2020
Reported:	11/23/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: A1 (H003079-01)

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	11/20/2020	ND	1.99	99.6	2.00	4.39	
Toluene*	<0.050	0.050	11/20/2020	ND	1.89	94.4	2.00	4.71	
Ethylbenzene*	<0.050	0.050	11/20/2020	ND	1.99	99.4	2.00	4.68	
Total Xylenes*	<0.150	0.150	11/20/2020	ND	5.71	95.2	6.00	4.25	
Total BTEX	<0.300	0.300	11/20/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/20/2020	ND	400	100	400	7.69	

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	11/20/2020	ND	251	125	200	0.615	
DRO >C10-C28*	261	10.0	11/20/2020	ND	236	118	200	1.33	
EXT DRO >C28-C36	80.8	10.0	11/20/2020	ND					

Surrogate: 1-Chlorooctane 85.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.2 % 42.2-156

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* = Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/20/2020	Sampling Date:	11/19/2020
Reported:	11/23/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: A3 (H003079-02)

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	11/21/2020	ND	1.99	99.6	2.00	4.39	
Toluene*	<0.050	0.050	11/21/2020	ND	1.89	94.4	2.00	4.71	
Ethylbenzene*	<0.050	0.050	11/21/2020	ND	1.99	99.4	2.00	4.68	
Total Xylenes*	<0.150	0.150	11/21/2020	ND	5.71	95.2	6.00	4.25	
Total BTEX	<0.300	0.300	11/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	11/20/2020	ND	400	100	400	7.69	

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	11/20/2020	ND	251	125	200	0.615	
DRO >C10-C28*	260	10.0	11/20/2020	ND	236	118	200	1.33	
EXT DRO >C28-C36	58.0	10.0	11/20/2020	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.9 % 42.2-156

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* = Accredited Analyte

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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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received: 11/20/2020
 Reported: 11/23/2020
 Project Name: K - 14
 Project Number: NONE GIVEN
 Project Location: ARTESIA

Sampling Date: 11/19/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: A4 (H003079-03)

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	11/21/2020	ND	1.99	99.6	2.00	4.39	
Toluene*	<0.050	0.050	11/21/2020	ND	1.89	94.4	2.00	4.71	
Ethylbenzene*	<0.050	0.050	11/21/2020	ND	1.99	99.4	2.00	4.68	
Total Xylenes*	<0.150	0.150	11/21/2020	ND	5.71	95.2	6.00	4.25	
Total BTEX	<0.300	0.300	11/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	11/20/2020	ND	400	100	400	7.69	

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	11/20/2020	ND	251	125	200	0.615	
DRO >C10-C28*	380	10.0	11/20/2020	ND	236	118	200	1.33	
EXT DRO >C28-C36	92.0	10.0	11/20/2020	ND					

Surrogate: 1-Chlorooctane 85.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.8 % 42.2-156

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/20/2020
 Reported: 11/23/2020
 Project Name: K - 14
 Project Number: NONE GIVEN
 Project Location: ARTESIA

Sampling Date: 11/19/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: C2 (H003079-04)

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	11/21/2020	ND	1.99	99.6	2.00	4.39	
Toluene*	<0.050	0.050	11/21/2020	ND	1.89	94.4	2.00	4.71	
Ethylbenzene*	<0.050	0.050	11/21/2020	ND	1.99	99.4	2.00	4.68	
Total Xylenes*	<0.150	0.150	11/21/2020	ND	5.71	95.2	6.00	4.25	
Total BTEX	<0.300	0.300	11/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/20/2020	ND	400	100	400	7.69	

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	11/20/2020	ND	251	125	200	0.615	
DRO >C10-C28*	398	10.0	11/20/2020	ND	236	118	200	1.33	
EXT DRO >C28-C36	91.1	10.0	11/20/2020	ND					

Surrogate: 1-Chlorooctane 89.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.0 % 42.2-156

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/20/2020
 Reported: 11/23/2020
 Project Name: K - 14
 Project Number: NONE GIVEN
 Project Location: ARTESIA

Sampling Date: 11/19/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: C3 (H003079-05)

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	11/21/2020	ND	1.99	99.6	2.00	4.39	
Toluene*	<0.050	0.050	11/21/2020	ND	1.89	94.4	2.00	4.71	
Ethylbenzene*	<0.050	0.050	11/21/2020	ND	1.99	99.4	2.00	4.68	
Total Xylenes*	<0.150	0.150	11/21/2020	ND	5.71	95.2	6.00	4.25	
Total BTEX	<0.300	0.300	11/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	11/20/2020	ND	400	100	400	7.69	

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	11/20/2020	ND	251	125	200	0.615	
DRO >C10-C28*	417	10.0	11/20/2020	ND	236	118	200	1.33	
EXT DRO >C28-C36	105	10.0	11/20/2020	ND					

Surrogate: 1-Chlorooctane 82.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.2 % 42.2-156

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/20/2020	Sampling Date:	11/19/2020
Reported:	11/23/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: C4 (H003079-06)

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	11/21/2020	ND	1.99	99.6	2.00	4.39		
Toluene*	<0.050	0.050	11/21/2020	ND	1.89	94.4	2.00	4.71		
Ethylbenzene*	<0.050	0.050	11/21/2020	ND	1.99	99.4	2.00	4.68		
Total Xylenes*	<0.150	0.150	11/21/2020	ND	5.71	95.2	6.00	4.25		
Total BTEX	<0.300	0.300	11/21/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	11/20/2020	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	11.3	10.0	11/20/2020	ND	251	125	200	0.615		
DRO >C10-C28*	508	10.0	11/20/2020	ND	236	118	200	1.33		
EXT DRO >C28-C36	119	10.0	11/20/2020	ND						

Surrogate: 1-Chlorooctane 84.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.8 % 42.2-156

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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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	11/20/2020	Sampling Date:	11/19/2020
Reported:	11/23/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: E3 (H003079-07)

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	11/21/2020	ND	1.99	99.6	2.00	4.39	
Toluene*	<0.050	0.050	11/21/2020	ND	1.89	94.4	2.00	4.71	
Ethylbenzene*	<0.050	0.050	11/21/2020	ND	1.99	99.4	2.00	4.68	
Total Xylenes*	<0.150	0.150	11/21/2020	ND	5.71	95.2	6.00	4.25	
Total BTEX	<0.300	0.300	11/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	11/20/2020	ND	400	100	400	7.69	

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	11/20/2020	ND	251	125	200	0.615	
DRO >C10-C28*	378	10.0	11/20/2020	ND	236	118	200	1.33	
EXT DRO >C28-C36	81.8	10.0	11/20/2020	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.9 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	11/20/2020	Sampling Date:	11/19/2020
Reported:	11/23/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: E4 (H003079-08)

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	11/21/2020	ND	1.99	99.6	2.00	4.39	
Toluene*	<0.050	0.050	11/21/2020	ND	1.89	94.4	2.00	4.71	
Ethylbenzene*	<0.050	0.050	11/21/2020	ND	1.99	99.4	2.00	4.68	
Total Xylenes*	<0.150	0.150	11/21/2020	ND	5.71	95.2	6.00	4.25	
Total BTEX	<0.300	0.300	11/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	11/20/2020	ND	400	100	400	7.69	

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	11/20/2020	ND	251	125	200	0.615	
DRO >C10-C28*	357	10.0	11/20/2020	ND	236	118	200	1.33	
EXT DRO >C28-C36	64.6	10.0	11/20/2020	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.0 % 42.2-156

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

November 24, 2020

MATTHEW LONGCRIER

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: K - 14

Enclosed are the results of analyses for samples received by the laboratory on 11/23/20 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	11/23/2020	Sampling Date:	11/23/2020
Reported:	11/24/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: C 3 (H003099-01)

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	11/24/2020	ND	1.99	99.7	2.00	3.88	
Toluene*	<0.050	0.050	11/24/2020	ND	1.89	94.7	2.00	4.43	
Ethylbenzene*	<0.050	0.050	11/24/2020	ND	1.96	97.8	2.00	4.49	GC-NC
Total Xylenes*	<0.150	0.150	11/24/2020	ND	5.63	93.8	6.00	4.19	
Total BTEX	<0.300	0.300	11/24/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	11/24/2020	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	11/23/2020	ND					
DRO >C10-C28*	51.3	10.0	11/23/2020	ND					
EXT DRO >C28-C36	11.5	10.0	11/23/2020	ND					

Surrogate: 1-Chlorooctane 79.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 75.8 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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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.
- GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
- 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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Mike Snyder For 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

BILL TO

ANALYSIS REQUEST

Company Name: KX Soil
 Project Manager: Matt Longcrier
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: K-14
 Project Location: _____
 Sampler Name: Matt Longcrier
 FOR LAB USE ONLY

P.O. #: _____
 Company: _____
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :			
<u>H003079</u>	<u>C3</u>	<u>G</u>				<u>X</u>							<u>11/23</u>	<u>1:00pm</u>	<u>Chlorides</u>
															<u>TPH</u>
															<u>Btex</u>

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Relinquished By: Matt Longcrier
 Relinquished Date: 11/23
 Relinquished Time: 1:00pm

Received By: Jawana
 Received Date: _____
 Received Time: _____

Turnaround Time: _____
 Standard RUSH
 Bacteria (only) Bacteria Intact Bacteria None
 Sample Condition Cool Intact Other
 Observed Temp. °C _____
 Corrected Temp. °C _____

Delivered By: (Circle One) S.2
 Observed Temp. °C _____
 Corrected Temp. °C _____
 Checked By: (Initials) JS
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

December 08, 2020

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

RE: K - 14

Enclosed are the results of analyses for samples received by the laboratory on 12/08/20 8:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black 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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	12/08/2020	Sampling Date:	12/07/2020
Reported:	12/08/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: EB - 1 (H003206-01)

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	12/08/2020	ND	1.95	97.4	2.00	7.27	
Toluene*	<0.050	0.050	12/08/2020	ND	1.88	93.8	2.00	6.81	
Ethylbenzene*	<0.050	0.050	12/08/2020	ND	1.97	98.5	2.00	7.10	
Total Xylenes*	<0.150	0.150	12/08/2020	ND	5.63	93.9	6.00	6.59	
Total BTEX	<0.300	0.300	12/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	12/08/2020	ND	233	116	200	1.61	
DRO >C10-C28*	26.7	10.0	12/08/2020	ND	231	115	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/08/2020	ND					

Surrogate: 1-Chlorooctane 98.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.2 % 42.2-156

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/08/2020	Sampling Date:	12/07/2020
Reported:	12/08/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: EB - 2 (H003206-02)

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	12/08/2020	ND	1.95	97.4	2.00	7.27		
Toluene*	<0.050	0.050	12/08/2020	ND	1.88	93.8	2.00	6.81		
Ethylbenzene*	<0.050	0.050	12/08/2020	ND	1.97	98.5	2.00	7.10		
Total Xylenes*	<0.150	0.150	12/08/2020	ND	5.63	93.9	6.00	6.59		
Total BTEX	<0.300	0.300	12/08/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	12/08/2020	ND	233	116	200	1.61		
DRO >C10-C28*	<10.0	10.0	12/08/2020	ND	231	115	200	2.34		
EXT DRO >C28-C36	<10.0	10.0	12/08/2020	ND						

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

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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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	12/08/2020	Sampling Date:	12/07/2020
Reported:	12/08/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: ES - 1 D (H003206-03)

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	12/08/2020	ND	1.95	97.4	2.00	7.27	
Toluene*	<0.050	0.050	12/08/2020	ND	1.88	93.8	2.00	6.81	
Ethylbenzene*	<0.050	0.050	12/08/2020	ND	1.97	98.5	2.00	7.10	
Total Xylenes*	<0.150	0.150	12/08/2020	ND	5.63	93.9	6.00	6.59	
Total BTEX	<0.300	0.300	12/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/08/2020	ND	400	100	400	7.69	

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	12/08/2020	ND	233	116	200	1.61	
DRO >C10-C28*	<10.0	10.0	12/08/2020	ND	231	115	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/08/2020	ND					

Surrogate: 1-Chlorooctane 86.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.6 % 42.2-156

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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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	12/08/2020	Sampling Date:	12/07/2020
Reported:	12/08/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: ES - 2 (H003206-04)

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	12/08/2020	ND	1.95	97.4	2.00	7.27	
Toluene*	<0.050	0.050	12/08/2020	ND	1.88	93.8	2.00	6.81	
Ethylbenzene*	<0.050	0.050	12/08/2020	ND	1.97	98.5	2.00	7.10	
Total Xylenes*	<0.150	0.150	12/08/2020	ND	5.63	93.9	6.00	6.59	
Total BTEX	<0.300	0.300	12/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/08/2020	ND	400	100	400	7.69	

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	12/08/2020	ND	233	116	200	1.61	
DRO >C10-C28*	44.4	10.0	12/08/2020	ND	231	115	200	2.34	
EXT DRO >C28-C36	10.8	10.0	12/08/2020	ND					

Surrogate: 1-Chlorooctane 93.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.3 % 42.2-156

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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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	12/08/2020	Sampling Date:	12/07/2020
Reported:	12/08/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: ES - 2 D (H003206-05)

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	12/08/2020	ND	1.95	97.4	2.00	7.27	
Toluene*	<0.050	0.050	12/08/2020	ND	1.88	93.8	2.00	6.81	
Ethylbenzene*	<0.050	0.050	12/08/2020	ND	1.97	98.5	2.00	7.10	
Total Xylenes*	<0.150	0.150	12/08/2020	ND	5.63	93.9	6.00	6.59	
Total BTEX	<0.300	0.300	12/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/08/2020	ND	400	100	400	7.69	

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	12/08/2020	ND	233	116	200	1.61	
DRO >C10-C28*	23.7	10.0	12/08/2020	ND	231	115	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/08/2020	ND					

Surrogate: 1-Chlorooctane 94.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/08/2020	Sampling Date:	12/07/2020
Reported:	12/08/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: ES - 3 D (H003206-06)

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	12/08/2020	ND	1.95	97.4	2.00	7.27		
Toluene*	<0.050	0.050	12/08/2020	ND	1.88	93.8	2.00	6.81		
Ethylbenzene*	<0.050	0.050	12/08/2020	ND	1.97	98.5	2.00	7.10		
Total Xylenes*	<0.150	0.150	12/08/2020	ND	5.63	93.9	6.00	6.59		
Total BTEX	<0.300	0.300	12/08/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	12/08/2020	ND	400	100	400	7.69		

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	12/08/2020	ND	233	116	200	1.61		
DRO >C10-C28*	1270	10.0	12/08/2020	ND	231	115	200	2.34		
EXT DRO >C28-C36	315	10.0	12/08/2020	ND						

Surrogate: 1-Chlorooctane 84.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/08/2020	Sampling Date:	12/07/2020
Reported:	12/08/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: ES - 4 D (H003206-07)

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	12/08/2020	ND	1.95	97.4	2.00	7.27	
Toluene*	<0.050	0.050	12/08/2020	ND	1.88	93.8	2.00	6.81	
Ethylbenzene*	<0.050	0.050	12/08/2020	ND	1.97	98.5	2.00	7.10	
Total Xylenes*	<0.150	0.150	12/08/2020	ND	5.63	93.9	6.00	6.59	
Total BTEX	<0.300	0.300	12/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/08/2020	ND	400	100	400	7.69	

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	12/08/2020	ND	233	116	200	1.61	
DRO >C10-C28*	26.8	10.0	12/08/2020	ND	231	115	200	2.34	
EXT DRO >C28-C36	24.0	10.0	12/08/2020	ND					

Surrogate: 1-Chlorooctane 95.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.0 % 42.2-156

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

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: Rx Soil Project Manager: Matt Langricker Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Location: Sampler Name: Mat		BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST	
Lab I.D. 4003304 Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :		MATRIX ACID/BASE: ICE / COOL OTHER :	
FOR LAB USE ONLY Date: 12-8-20 Time: 0840 Observed Temp. °C: -5.7 Corrected Temp. °C:		DATE TIME 12/7 3:00		TPH Btex Chlorides	
Relinquished By: ACT V Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Received By: Jawara CHECKED BY: (Initials) YE		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:	
Relinquished By: _____ Date: _____ Time: _____		Received By: _____ Date: _____ Time: _____		Turnaround Time: Rush Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Condition <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C: _____ Corrected Temp. °C: _____	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

December 09, 2020

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

RE: K - 14

Enclosed are the results of analyses for samples received by the laboratory on 12/08/20 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black 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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	12/08/2020	Sampling Date:	12/08/2020
Reported:	12/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: ES 8 (H003212-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/09/2020	ND	416	104	400	3.77	

Sample ID: ES 10 (H003212-02)

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	12/08/2020	ND	2.00	100	2.00	7.92	
Toluene*	<0.050	0.050	12/08/2020	ND	1.91	95.7	2.00	7.52	
Ethylbenzene*	<0.050	0.050	12/08/2020	ND	2.00	100	2.00	8.28	
Total Xylenes*	<0.150	0.150	12/08/2020	ND	5.72	95.3	6.00	7.75	
Total BTEX	<0.300	0.300	12/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	12/09/2020	ND	244	122	200	3.19	
DRO >C10-C28*	78.4	10.0	12/09/2020	ND	236	118	200	1.03	
EXT DRO >C28-C36	67.5	10.0	12/09/2020	ND					

Surrogate: 1-Chlorooctane 73.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/08/2020
 Reported: 12/09/2020
 Project Name: K - 14
 Project Number: NONE GIVEN
 Project Location: ARTESIA

Sampling Date: 12/08/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ES 11 (H003212-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/09/2020	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/08/2020	Sampling Date:	12/08/2020
Reported:	12/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: ES 14 (H003212-04)

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	12/08/2020	ND	2.00	100	2.00	7.92	
Toluene*	<0.050	0.050	12/08/2020	ND	1.91	95.7	2.00	7.52	
Ethylbenzene*	<0.050	0.050	12/08/2020	ND	2.00	100	2.00	8.28	
Total Xylenes*	<0.150	0.150	12/08/2020	ND	5.72	95.3	6.00	7.75	
Total BTEX	<0.300	0.300	12/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/09/2020	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	12/09/2020	ND	244	122	200	3.19	
DRO >C10-C28*	<10.0	10.0	12/09/2020	ND	236	118	200	1.03	
EXT DRO >C28-C36	10.0	10.0	12/09/2020	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/08/2020	Sampling Date:	12/08/2020
Reported:	12/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: ES 15 (H003212-05)

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	12/08/2020	ND	2.00	100	2.00	7.92		
Toluene*	<0.050	0.050	12/08/2020	ND	1.91	95.7	2.00	7.52		
Ethylbenzene*	<0.050	0.050	12/08/2020	ND	2.00	100	2.00	8.28		
Total Xylenes*	<0.150	0.150	12/08/2020	ND	5.72	95.3	6.00	7.75		
Total BTEX	<0.300	0.300	12/08/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	12/09/2020	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	12/09/2020	ND	244	122	200	3.19		
DRO >C10-C28*	<10.0	10.0	12/09/2020	ND	236	118	200	1.03		
EXT DRO >C28-C36	<10.0	10.0	12/09/2020	ND						

Surrogate: 1-Chlorooctane 99.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.9 % 42.2-156

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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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	12/08/2020	Sampling Date:	12/08/2020
Reported:	12/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: ES 15 D (H003212-06)

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	12/08/2020	ND	2.00	100	2.00	7.92		
Toluene*	<0.050	0.050	12/08/2020	ND	1.91	95.7	2.00	7.52		
Ethylbenzene*	<0.050	0.050	12/08/2020	ND	2.00	100	2.00	8.28		
Total Xylenes*	<0.150	0.150	12/08/2020	ND	5.72	95.3	6.00	7.75		
Total BTEX	<0.300	0.300	12/08/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/09/2020	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	12/09/2020	ND	244	122	200	3.19		
DRO >C10-C28*	<10.0	10.0	12/09/2020	ND	236	118	200	1.03		
EXT DRO >C28-C36	<10.0	10.0	12/09/2020	ND						

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.7 % 42.2-156

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

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Rx Soil Project Manager: Math Longrier Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Name: K-14 Project Location: Sampler Name: Math Longrier FOR LAB USE ONLY		P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #: BILL TO		ANALYSIS REQUEST	
Lab I.D. H003212 Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : PRESERV. SAMPLING		DATE TIME TPH Btex Chloride	
ES 8 ES 10 ES 11 ES 14 ES 15 ES 16D		X X X X X X		X X X X X X	
Date: 12/8 Time: 3:00 pm Relinquished By: Math Longrier		Received By: Jessica Date: 12/8 Time: 12:00		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS: Rush	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 1.7 Corrected Temp. °C		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: (Initials) TD Turnaround Time: Rush Standard <input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	

† Cardinal cannot accept verbal changes. Please email changes to celya.keene@cardinalabnm.com



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

December 09, 2020

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

RE: K - 14

Enclosed are the results of analyses for samples received by the laboratory on 12/09/20 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black 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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	12/09/2020	Sampling Date:	12/09/2020
Reported:	12/09/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: ES - 3 D (H003213-01)

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	12/09/2020	ND	2.12	106	2.00	1.70		
Toluene*	<0.050	0.050	12/09/2020	ND	2.01	101	2.00	2.52		
Ethylbenzene*	<0.050	0.050	12/09/2020	ND	2.11	105	2.00	2.64		
Total Xylenes*	<0.150	0.150	12/09/2020	ND	5.99	99.8	6.00	2.55		
Total BTEX	<0.300	0.300	12/09/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

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	12/09/2020	ND	238	119	200	5.17		
DRO >C10-C28*	<10.0	10.0	12/09/2020	ND	219	109	200	7.43		
EXT DRO >C28-C36	<10.0	10.0	12/09/2020	ND						

Surrogate: 1-Chlorooctane 90.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.9 % 42.2-156

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

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

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Celey D. Keene, Lab Director/Quality Manager



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

December 10, 2020

MATTHEW LONGCRIER

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: K - 14

Enclosed are the results of analyses for samples received by the laboratory on 12/10/20 8:13.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black 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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	12/10/2020	Sampling Date:	12/09/2020
Reported:	12/10/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: ES 10 (H003228-01)

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	12/10/2020	ND	1.98	99.1	2.00	5.65		
Toluene*	<0.050	0.050	12/10/2020	ND	1.89	94.6	2.00	6.38		
Ethylbenzene*	<0.050	0.050	12/10/2020	ND	1.95	97.4	2.00	6.98		
Total Xylenes*	<0.150	0.150	12/10/2020	ND	5.54	92.3	6.00	6.67		
Total BTEX	<0.300	0.300	12/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

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	12/10/2020	ND	258	129	200	0.0384		
DRO >C10-C28*	<10.0	10.0	12/10/2020	ND	244	122	200	0.266		
EXT DRO >C28-C36	<10.0	10.0	12/10/2020	ND						

Surrogate: 1-Chlorooctane 84.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.1 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

December 15, 2020

MATTHEW LONGCRIER

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: K - 14

Enclosed are the results of analyses for samples received by the laboratory on 12/14/20 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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.

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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 that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: A 1 (H003253-01)

BTEX 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	12/14/2020	ND	2.01	101	2.00	7.29	
Toluene*	0.125	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86	
Ethylbenzene*	<0.050	0.050	12/14/2020	ND	2.01	101	2.00	7.48	GC-NC
Total Xylenes*	0.736	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98	
Total BTEX	0.861	0.300	12/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 150 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	18.3	10.0	12/15/2020	ND	242	121	200	0.243	
DRO >C10-C28*	261	10.0	12/15/2020	ND	247	124	200	0.713	
EXT DRO >C28-C36	41.8	10.0	12/15/2020	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: A 2 (H003253-02)

BTEX 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	12/14/2020	ND	2.01	101	2.00	7.29	
Toluene*	0.103	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86	
Ethylbenzene*	<0.050	0.050	12/14/2020	ND	2.01	101	2.00	7.48	GC-NC
Total Xylenes*	0.446	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98	
Total BTEX	0.549	0.300	12/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 73.3-129

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	12/15/2020	ND	242	121	200	0.243	
DRO >C10-C28*	121	10.0	12/15/2020	ND	247	124	200	0.713	
EXT DRO >C28-C36	16.8	10.0	12/15/2020	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: A 3 (H003253-03)

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	12/14/2020	ND	2.01	101	2.00	7.29	
Toluene*	<0.050	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86	
Ethylbenzene*	<0.050	0.050	12/14/2020	ND	2.01	101	2.00	7.48	GC-NC
Total Xylenes*	<0.150	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98	
Total BTEX	<0.300	0.300	12/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.3-129

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	12/15/2020	ND	242	121	200	0.243	
DRO >C10-C28*	105	10.0	12/15/2020	ND	247	124	200	0.713	
EXT DRO >C28-C36	19.6	10.0	12/15/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: A 4 (H003253-04)

BTEX 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	12/14/2020	ND	2.01	101	2.00	7.29	
Toluene*	0.068	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86	
Ethylbenzene*	<0.050	0.050	12/14/2020	ND	2.01	101	2.00	7.48	GC-NC
Total Xylenes*	0.672	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98	
Total BTEX	0.740	0.300	12/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 73.3-129

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	12/15/2020	ND	242	121	200	0.243	
DRO >C10-C28*	114	10.0	12/15/2020	ND	247	124	200	0.713	
EXT DRO >C28-C36	15.3	10.0	12/15/2020	ND					

Surrogate: 1-Chlorooctane 99.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received: 12/14/2020
 Reported: 12/15/2020
 Project Name: K - 14
 Project Number: NONE GIVEN
 Project Location: ARTESIA

Sampling Date: 12/14/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: C 1 (H003253-05)

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	12/14/2020	ND	2.01	101	2.00	7.29	QM-07, QR-03	
Toluene*	0.106	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86	QR-03	
Ethylbenzene*	0.149	0.050	12/14/2020	ND	2.01	101	2.00	7.48	QM-07, QR-03	
Total Xylenes*	0.406	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98	QR-03	
Total BTEX	0.660	0.300	12/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

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	12/15/2020	ND	242	121	200	0.243		
DRO >C10-C28*	125	10.0	12/15/2020	ND	247	124	200	0.713		
EXT DRO >C28-C36	19.8	10.0	12/15/2020	ND						

Surrogate: 1-Chlorooctane 95.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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Analytical Results For:

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

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: C 2 (H003253-06)

BTEX 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	12/14/2020	ND	2.01	101	2.00	7.29	
Toluene*	0.077	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86	
Ethylbenzene*	<0.050	0.050	12/14/2020	ND	2.01	101	2.00	7.48	GC-NC
Total Xylenes*	0.590	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98	
Total BTEX	0.667	0.300	12/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	13.0	10.0	12/15/2020	ND	242	121	200	0.243	
DRO >C10-C28*	218	10.0	12/15/2020	ND	247	124	200	0.713	
EXT DRO >C28-C36	36.4	10.0	12/15/2020	ND					

Surrogate: 1-Chlorooctane 98.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

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Analytical Results For:

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

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: C 4 (H003253-07)

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	12/14/2020	ND	2.01	101	2.00	7.29		
Toluene*	<0.050	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86		
Ethylbenzene*	<0.050	0.050	12/14/2020	ND	2.01	101	2.00	7.48	GC-NC	
Total Xylenes*	<0.150	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98		
Total BTEX	<0.300	0.300	12/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.3-129

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	12/15/2020	ND	242	121	200	0.243		
DRO >C10-C28*	53.4	10.0	12/15/2020	ND	247	124	200	0.713		
EXT DRO >C28-C36	<10.0	10.0	12/15/2020	ND						

Surrogate: 1-Chlorooctane 94.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Analytical Results For:

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

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: E 1 (H003253-08)

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	12/14/2020	ND	2.01	101	2.00	7.29		
Toluene*	<0.050	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86		
Ethylbenzene*	<0.050	0.050	12/14/2020	ND	2.01	101	2.00	7.48	GC-NC	
Total Xylenes*	<0.150	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98		
Total BTEX	<0.300	0.300	12/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.3-129

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	12/15/2020	ND	242	121	200	0.243		
DRO >C10-C28*	106	10.0	12/15/2020	ND	247	124	200	0.713		
EXT DRO >C28-C36	15.6	10.0	12/15/2020	ND						

Surrogate: 1-Chlorooctane 94.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.1 % 42.2-156

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Analytical Results For:

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

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: E 3 (H003253-09)

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	12/14/2020	ND	2.01	101	2.00	7.29	
Toluene*	<0.050	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86	
Ethylbenzene*	<0.050	0.050	12/14/2020	ND	2.01	101	2.00	7.48	GC-NC
Total Xylenes*	0.269	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98	
Total BTEX	<0.300	0.300	12/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

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	12/15/2020	ND	242	121	200	0.243	
DRO >C10-C28*	67.9	10.0	12/15/2020	ND	247	124	200	0.713	
EXT DRO >C28-C36	10.6	10.0	12/15/2020	ND					

Surrogate: 1-Chlorooctane 98.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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Analytical Results For:

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

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: E 4 (H003253-10)

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	12/14/2020	ND	2.01	101	2.00	7.29	
Toluene*	<0.050	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86	
Ethylbenzene*	<0.050	0.050	12/14/2020	ND	2.01	101	2.00	7.48	GC-NC
Total Xylenes*	<0.150	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98	
Total BTEX	<0.300	0.300	12/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

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	12/15/2020	ND	242	121	200	0.243	
DRO >C10-C28*	40.2	10.0	12/15/2020	ND	247	124	200	0.713	
EXT DRO >C28-C36	<10.0	10.0	12/15/2020	ND					

Surrogate: 1-Chlorooctane 94.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.8 % 42.2-156

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Analytical Results For:

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

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: G 1 (H003253-11)

BTEX 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	12/14/2020	ND	2.01	101	2.00	7.29	
Toluene*	0.072	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86	
Ethylbenzene*	0.261	0.050	12/14/2020	ND	2.01	101	2.00	7.48	
Total Xylenes*	0.543	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98	
Total BTEX	0.876	0.300	12/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 73.3-129

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	12/15/2020	ND	242	121	200	0.243	
DRO >C10-C28*	44.3	10.0	12/15/2020	ND	247	124	200	0.713	
EXT DRO >C28-C36	<10.0	10.0	12/15/2020	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Analytical Results For:

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

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: G 2 (H003253-12)

BTEX 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	12/14/2020	ND	2.01	101	2.00	7.29	
Toluene*	0.084	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86	
Ethylbenzene*	0.149	0.050	12/14/2020	ND	2.01	101	2.00	7.48	
Total Xylenes*	0.464	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98	
Total BTEX	0.697	0.300	12/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 73.3-129

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	12/15/2020	ND	242	121	200	0.243	
DRO >C10-C28*	55.3	10.0	12/15/2020	ND	247	124	200	0.713	
EXT DRO >C28-C36	<10.0	10.0	12/15/2020	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 42.2-156

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Analytical Results For:

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

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: G 3 (H003253-13)

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	12/14/2020	ND	2.01	101	2.00	7.29	
Toluene*	<0.050	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86	
Ethylbenzene*	<0.050	0.050	12/14/2020	ND	2.01	101	2.00	7.48	GC-NC
Total Xylenes*	<0.150	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98	
Total BTEX	<0.300	0.300	12/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.3-129

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	12/15/2020	ND	242	121	200	0.243	
DRO >C10-C28*	86.6	10.0	12/15/2020	ND	247	124	200	0.713	
EXT DRO >C28-C36	<10.0	10.0	12/15/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Analytical Results For:

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

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: G 4 (H003253-14)

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	12/14/2020	ND	2.01	101	2.00	7.29		
Toluene*	0.140	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86		
Ethylbenzene*	<0.050	0.050	12/14/2020	ND	2.01	101	2.00	7.48	GC-NC	
Total Xylenes*	<0.150	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98		
Total BTEX	<0.300	0.300	12/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 73.3-129

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	12/15/2020	ND	242	121	200	0.243		
DRO >C10-C28*	75.0	10.0	12/15/2020	ND	247	124	200	0.713		
EXT DRO >C28-C36	11.5	10.0	12/15/2020	ND						

Surrogate: 1-Chlorooctane 95.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.5 % 42.2-156

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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.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: I 1 (H003253-15)

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	12/14/2020	ND	2.01	101	2.00	7.29	
Toluene*	0.122	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86	
Ethylbenzene*	<0.050	0.050	12/14/2020	ND	2.01	101	2.00	7.48	GC-NC
Total Xylenes*	0.450	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98	
Total BTEX	0.572	0.300	12/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 73.3-129

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	12/15/2020	ND	242	121	200	0.243	
DRO >C10-C28*	74.7	10.0	12/15/2020	ND	247	124	200	0.713	
EXT DRO >C28-C36	10.4	10.0	12/15/2020	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.8 % 42.2-156

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Analytical Results For:

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

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: I 2 (H003253-16)

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	12/14/2020	ND	2.01	101	2.00	7.29	
Toluene*	<0.050	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86	
Ethylbenzene*	<0.050	0.050	12/14/2020	ND	2.01	101	2.00	7.48	GC-NC
Total Xylenes*	<0.150	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98	
Total BTEX	<0.300	0.300	12/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.3-129

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	12/15/2020	ND	242	121	200	0.243	
DRO >C10-C28*	71.5	10.0	12/15/2020	ND	247	124	200	0.713	
EXT DRO >C28-C36	10.7	10.0	12/15/2020	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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Analytical Results For:

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

Received: 12/14/2020
 Reported: 12/15/2020
 Project Name: K - 14
 Project Number: NONE GIVEN
 Project Location: ARTESIA

Sampling Date: 12/14/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: I 3 (H003253-17)

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	12/14/2020	ND	2.01	101	2.00	7.29	
Toluene*	<0.050	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86	
Ethylbenzene*	<0.050	0.050	12/14/2020	ND	2.01	101	2.00	7.48	GC-NC
Total Xylenes*	<0.150	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98	
Total BTEX	<0.300	0.300	12/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	15.7	10.0	12/15/2020	ND	242	121	200	0.243	
DRO >C10-C28*	383	10.0	12/15/2020	ND	247	124	200	0.713	
EXT DRO >C28-C36	71.3	10.0	12/15/2020	ND					

Surrogate: 1-Chlorooctane 98.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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Analytical Results For:

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

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: I 4 (H003253-18)

BTEX 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	12/14/2020	ND	2.01	101	2.00	7.29	
Toluene*	0.053	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86	
Ethylbenzene*	<0.050	0.050	12/14/2020	ND	2.01	101	2.00	7.48	GC-NC
Total Xylenes*	0.736	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98	
Total BTEX	0.789	0.300	12/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 140 % 73.3-129

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	12/15/2020	ND	242	121	200	0.243	
DRO >C10-C28*	134	10.0	12/15/2020	ND	247	124	200	0.713	
EXT DRO >C28-C36	19.3	10.0	12/15/2020	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Analytical Results For:

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

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: X 1 (H003253-19)

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	12/14/2020	ND	2.01	101	2.00	7.29	
Toluene*	0.075	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86	
Ethylbenzene*	<0.050	0.050	12/14/2020	ND	2.01	101	2.00	7.48	GC-NC
Total Xylenes*	<0.150	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98	
Total BTEX	<0.300	0.300	12/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.3-129

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	12/15/2020	ND	242	121	200	0.243	
DRO >C10-C28*	86.2	10.0	12/15/2020	ND	247	124	200	0.713	
EXT DRO >C28-C36	14.0	10.0	12/15/2020	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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Analytical Results For:

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

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: X 2 (H003253-20)

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	12/14/2020	ND	2.01	101	2.00	7.29	
Toluene*	0.055	0.050	12/14/2020	ND	1.92	96.2	2.00	6.86	
Ethylbenzene*	<0.050	0.050	12/14/2020	ND	2.01	101	2.00	7.48	GC-NC
Total Xylenes*	<0.150	0.150	12/14/2020	ND	5.75	95.8	6.00	6.98	
Total BTEX	<0.300	0.300	12/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.3-129

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	12/15/2020	ND	242	121	200	0.243	
DRO >C10-C28*	66.8	10.0	12/15/2020	ND	247	124	200	0.713	
EXT DRO >C28-C36	<10.0	10.0	12/15/2020	ND					

Surrogate: 1-Chlorooctane 97.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.0 % 42.2-156

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Analytical Results For:

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

Received:	12/14/2020	Sampling Date:	12/14/2020
Reported:	12/15/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: Y 2 (H003253-21)

BTEX 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	12/15/2020	ND	1.98	98.8	2.00	7.88	
Toluene*	0.089	0.050	12/15/2020	ND	1.86	93.1	2.00	8.73	
Ethylbenzene*	<0.050	0.050	12/15/2020	ND	1.93	96.7	2.00	9.51	GC-NC
Total Xylenes*	0.258	0.150	12/15/2020	ND	5.50	91.7	6.00	9.93	
Total BTEX	0.347	0.300	12/15/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 73.3-129

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	12/14/2020	ND	244	122	200	4.98	
DRO >C10-C28*	80.3	10.0	12/14/2020	ND	233	116	200	0.842	
EXT DRO >C28-C36	<10.0	10.0	12/14/2020	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.7 % 42.2-156

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD.
GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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

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: RX Soil Project Manager: Matt		P.O. #: Company:	
Address: City: State: Zip:		Attn: Address: City: State: Zip:	
Phone #: Fax #:		Project Owner: City: State: Zip:	
Project Name: K-14		Project Location:	
Sampler Name: Matt		Phone #: Fax #:	
FOR LAB USE ONLY			
Lab I.D. H003253	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	MATRIX PRESERV. ACID/BASE: ICE / COOL OTHER:
1 A1 2 A2 3 A3 4 A4 5 C1 6 C2 7 C4 8 E1 9 E3 10 E4		X X X X X X X X X X	DATE TIME 12/14 12:00 12/14 12:00
Relinquished By: <i>[Signature]</i>		Received By: <i>[Signature]</i>	
Date: 12/14 Time: 1:30		Date: 12/14 Time: 12:00	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 8.4 Corrected Temp. °C:	
Sample Condition Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) JE	
Turnaround Time:		Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
Thermometer ID #113 Correction Factor: None		Bacteria (only) Sample Condition Cool Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
All Results are emailed. Please provide Email address:			
REMARKS:			

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: RX Soil		P.O. #:		BILL TO		ANALYSIS REQUEST															
Project Manager: MAT		Company:																			
Address:		City:		Attn:																	
City:		State:		Zip:																	
Phone #:		Fax #:		Address:																	
Project #:		Project Owner:		City:																	
Project Name: K-14		State:		Zip:																	
Project Location:		Phone #:		Fax #:																	
Sampler Name: MAT		FOR LAB USE ONLY																			
Lab I.D. H003253 Sample I.D.		G1		(G)RAB OR (C)OMP.		DATE		TIME		TPH											
		G2		X		12/14		12:00		X		X									
		G3																			
		G4																			
		I1																			
		I2																			
		I3																			
		I4																			
		I5																			
		I6																			
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I19																					
I20																					

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Relinquished By: *MAT* Date: **12/14** Received By: *Shawna* Date: **12/14**
 Time: **2:30** Received By: *Shawna*

Delivered By: (Circle One) **24** Observed Temp. °C **24** Corrected Temp. °C **24**
 Sampler - UPS - Bus - Other: Cool Intact Yes No Sample Condition Intact Yes No CHECKED BY: *ES*
 Turnaround Time: Standard Rush Bacteria (only) Sample Condition Cool Intact Yes No Observed Temp. °C Corrected Temp. °C

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

December 18, 2020

MATTHEW LONGCRIER

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: K - 14

Enclosed are the results of analyses for samples received by the laboratory on 12/17/20 12:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/17/2020	Sampling Date:	12/17/2020
Reported:	12/18/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: A 1 (H003297-01)

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	12/17/2020	ND	1.74	86.9	2.00	7.36	
Toluene*	<0.050	0.050	12/17/2020	ND	1.83	91.3	2.00	5.61	
Ethylbenzene*	<0.050	0.050	12/17/2020	ND	1.81	90.3	2.00	4.61	
Total Xylenes*	<0.150	0.150	12/17/2020	ND	5.62	93.7	6.00	3.90	
Total BTEX	<0.300	0.300	12/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

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	12/17/2020	ND	182	91.2	200	2.71	
DRO >C10-C28*	41.5	10.0	12/17/2020	ND	180	89.8	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	12/17/2020	ND					

Surrogate: 1-Chlorooctane 81.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.6 % 42.2-156

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Analytical Results For:

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

Received:	12/17/2020	Sampling Date:	12/17/2020
Reported:	12/18/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: A 2 (H003297-02)

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	12/17/2020	ND	1.74	86.9	2.00	7.36	
Toluene*	<0.050	0.050	12/17/2020	ND	1.83	91.3	2.00	5.61	
Ethylbenzene*	<0.050	0.050	12/17/2020	ND	1.81	90.3	2.00	4.61	
Total Xylenes*	<0.150	0.150	12/17/2020	ND	5.62	93.7	6.00	3.90	
Total BTEX	<0.300	0.300	12/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.3-129

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	12/17/2020	ND	182	91.2	200	2.71	
DRO >C10-C28*	22.8	10.0	12/17/2020	ND	180	89.8	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	12/17/2020	ND					

Surrogate: 1-Chlorooctane 83.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2020	Sampling Date:	12/17/2020
Reported:	12/18/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: A 3 (H003297-03)

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	12/17/2020	ND	1.74	86.9	2.00	7.36	
Toluene*	<0.050	0.050	12/17/2020	ND	1.83	91.3	2.00	5.61	
Ethylbenzene*	<0.050	0.050	12/17/2020	ND	1.81	90.3	2.00	4.61	
Total Xylenes*	<0.150	0.150	12/17/2020	ND	5.62	93.7	6.00	3.90	
Total BTEX	<0.300	0.300	12/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

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	12/17/2020	ND	182	91.2	200	2.71	
DRO >C10-C28*	41.8	10.0	12/17/2020	ND	180	89.8	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	12/17/2020	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2020	Sampling Date:	12/17/2020
Reported:	12/18/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: A 4 (H003297-04)

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	12/17/2020	ND	1.74	86.9	2.00	7.36	
Toluene*	<0.050	0.050	12/17/2020	ND	1.83	91.3	2.00	5.61	
Ethylbenzene*	<0.050	0.050	12/17/2020	ND	1.81	90.3	2.00	4.61	
Total Xylenes*	<0.150	0.150	12/17/2020	ND	5.62	93.7	6.00	3.90	
Total BTEX	<0.300	0.300	12/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

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	12/17/2020	ND	182	91.2	200	2.71	
DRO >C10-C28*	37.6	10.0	12/17/2020	ND	180	89.8	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	12/17/2020	ND					

Surrogate: 1-Chlorooctane 89.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.7 % 42.2-156

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Analytical Results For:

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

Received:	12/17/2020	Sampling Date:	12/17/2020
Reported:	12/18/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: C 1 (H003297-05)

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	12/17/2020	ND	1.74	86.9	2.00	7.36	
Toluene*	<0.050	0.050	12/17/2020	ND	1.83	91.3	2.00	5.61	
Ethylbenzene*	<0.050	0.050	12/17/2020	ND	1.81	90.3	2.00	4.61	
Total Xylenes*	<0.150	0.150	12/17/2020	ND	5.62	93.7	6.00	3.90	
Total BTEX	<0.300	0.300	12/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.3-129

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	12/17/2020	ND	182	91.2	200	2.71	
DRO >C10-C28*	31.9	10.0	12/17/2020	ND	180	89.8	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	12/17/2020	ND					

Surrogate: 1-Chlorooctane 91.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2020	Sampling Date:	12/17/2020
Reported:	12/18/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: C 2 (H003297-06)

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	12/17/2020	ND	1.74	86.9	2.00	7.36	
Toluene*	<0.050	0.050	12/17/2020	ND	1.83	91.3	2.00	5.61	
Ethylbenzene*	<0.050	0.050	12/17/2020	ND	1.81	90.3	2.00	4.61	
Total Xylenes*	<0.150	0.150	12/17/2020	ND	5.62	93.7	6.00	3.90	
Total BTEX	<0.300	0.300	12/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

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	12/17/2020	ND	182	91.2	200	2.71	
DRO >C10-C28*	41.1	10.0	12/17/2020	ND	180	89.8	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	12/17/2020	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.0 % 42.2-156

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Analytical Results For:

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

Received:	12/17/2020	Sampling Date:	12/17/2020
Reported:	12/18/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: E 1 (H003297-07)

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	12/17/2020	ND	1.74	86.9	2.00	7.36	
Toluene*	<0.050	0.050	12/17/2020	ND	1.83	91.3	2.00	5.61	
Ethylbenzene*	<0.050	0.050	12/17/2020	ND	1.81	90.3	2.00	4.61	
Total Xylenes*	<0.150	0.150	12/17/2020	ND	5.62	93.7	6.00	3.90	
Total BTEX	<0.300	0.300	12/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.3-129

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	12/17/2020	ND	182	91.2	200	2.71	
DRO >C10-C28*	49.3	10.0	12/17/2020	ND	180	89.8	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	12/17/2020	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/17/2020	Sampling Date:	12/17/2020
Reported:	12/18/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: I 3 (H003297-08)

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	12/17/2020	ND	1.74	86.9	2.00	7.36	
Toluene*	<0.050	0.050	12/17/2020	ND	1.83	91.3	2.00	5.61	
Ethylbenzene*	<0.050	0.050	12/17/2020	ND	1.81	90.3	2.00	4.61	
Total Xylenes*	<0.150	0.150	12/17/2020	ND	5.62	93.7	6.00	3.90	
Total BTEX	<0.300	0.300	12/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

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	12/17/2020	ND	182	91.2	200	2.71	
DRO >C10-C28*	43.0	10.0	12/17/2020	ND	180	89.8	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	12/17/2020	ND					

Surrogate: 1-Chlorooctane 83.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.4 % 42.2-156

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Analytical Results For:

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

Received:	12/17/2020	Sampling Date:	12/17/2020
Reported:	12/18/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: I 4 (H003297-09)

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	12/17/2020	ND	1.74	86.9	2.00	7.36	
Toluene*	<0.050	0.050	12/17/2020	ND	1.83	91.3	2.00	5.61	
Ethylbenzene*	<0.050	0.050	12/17/2020	ND	1.81	90.3	2.00	4.61	
Total Xylenes*	<0.150	0.150	12/17/2020	ND	5.62	93.7	6.00	3.90	
Total BTEX	<0.300	0.300	12/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

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	12/17/2020	ND	182	91.2	200	2.71	
DRO >C10-C28*	95.8	10.0	12/17/2020	ND	180	89.8	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	12/17/2020	ND					

Surrogate: 1-Chlorooctane 91.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.5 % 42.2-156

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

Analytical Results For:

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

Received:	12/17/2020	Sampling Date:	12/17/2020
Reported:	12/18/2020	Sampling Type:	Soil
Project Name:	K - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ARTESIA		

Sample ID: X 1 (H003297-10)

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	12/17/2020	ND	1.74	86.9	2.00	7.36	
Toluene*	<0.050	0.050	12/17/2020	ND	1.83	91.3	2.00	5.61	
Ethylbenzene*	<0.050	0.050	12/17/2020	ND	1.81	90.3	2.00	4.61	
Total Xylenes*	<0.150	0.150	12/17/2020	ND	5.62	93.7	6.00	3.90	
Total BTEX	<0.300	0.300	12/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.3-129

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	12/17/2020	ND	182	91.2	200	2.71	
DRO >C10-C28*	76.5	10.0	12/17/2020	ND	180	89.8	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	12/17/2020	ND					

Surrogate: 1-Chlorooctane 80.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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 LCS/D recovery and/or RPD values.
- 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

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: RKS011 Project Manager: Matt Longner Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Name: K-14 Project Location: Sampler Name: MGR		BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST	
Lab I.D. H003287 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	
A1 A2 A3 A4 C1 C2 E1 E3 E4 I0 X1		X 		12/17 9:00am X X 	
Relinquished By: <i>[Signature]</i> Date: 12/17 Time: 12:10		Received By: <i>[Signature]</i> Date: 12/17 Time: 9:00am		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:	
Relinquished By: <i>[Signature]</i> Date: 12/17 Time: 12:10		Received By: <i>[Signature]</i> Date: 12/17 Time: 9:00am		REMARKS: Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #113 <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Correction Factor None <input type="checkbox"/> Cool Intact <input type="checkbox"/> Sample Condition <input type="checkbox"/> Corrected Temp. °C	
Delivered By: (Circle One) UPS - Bus - Other:		Observed Temp. °C: 41.1 Corrected Temp. °C:		CHECKED BY: (Initials) <i>[Signature]</i> Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Bacteria (only) <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Condition <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

END OF REPORT

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 20933

CONDITIONS OF APPROVAL

Operator: #1000 APACHE CORPORATION Midland, TX79705		303 Veterans Airpark Ln	OGRID: 873	Action Number: 20933	Action Type: C-141
OCD Reviewer chensley			Condition None		