

SITE INFORMATION													
Report Type: Closure Report			2RP-3161										
General Site Information:													
Site:	Jumping Spring 16 State Com #1												
Company:	Cimarex Energy Company												
Section, Township and Range	Sec. 16	T 26S	R 26E										
Lease Number:	API 30-015-37496												
County:	Eddy County												
GPS:	32.04696° N		104.29171° W										
Surface Owner:	State												
Mineral Owner:													
Directions:	From the intersection of HWY 285 & Black River Village Rd in Malaga, NM, travel WEST on Black River Village Rd. for 9.1 mi, turn SOUTH on CR 748 (Old Cavern Hwy) for 8 mi, turn WEST onto lease rd for 0.8 mi to location.												
Release Data:													
Date Released:	11/3/2014												
Type Release:	Produced Water												
Source of Contamination:	Corroded load line												
Fluid Released:	160 bbls												
Fluids Recovered:	20 bbls												
Official Communication:													
Name:	Christine Alderman		Ike Tavaréz										
Company:	Cimarex Energy Company		Tetra Tech										
Address:	600 N. Marienfield		4000 N. Big Spring										
			Ste 401										
City:	Midland Texas, 79701		Midland, Texas										
Phone number:	(432) 620-1982		(432) 687-8110										
Fax:													
Email:	calderman@cimarex.com		Ike.Tavaréz@tetratech.com										
Ranking Criteria													
Depth to Groundwater:		Ranking Score	Site Data										
<50 ft		20											
50-99 ft		10											
>100 ft.		0	0										
WellHead Protection:		Ranking Score	Site Data										
Water Source <1,000 ft., Private <200 ft.		20											
Water Source >1,000 ft., Private >200 ft.		0	0										
Surface Body of Water:		Ranking Score	Site Data										
<200 ft.		20											
200 ft - 1,000 ft.		10											
>1,000 ft.		0	0										
Total Ranking Score:		10											
<table border="1"> <thead> <tr> <th colspan="3">Acceptable Soil RRAL (mg/kg)</th> </tr> <tr> <th>Benzene</th> <th>Total BTEX</th> <th>TPH</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>50</td> <td>1,000</td> </tr> </tbody> </table>					Acceptable Soil RRAL (mg/kg)			Benzene	Total BTEX	TPH	10	50	1,000
Acceptable Soil RRAL (mg/kg)													
Benzene	Total BTEX	TPH											
10	50	1,000											



TETRA TECH

September 1, 2016

Mr. Mike Bratcher
Environmental Engineer Specialist
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

**Re: Closure Report for Cimarex Energy
Jumping Spring 16 State Com #1
Unit A, Section 16, Township 26 South, Range 26 East
Eddy County, New Mexico
2RP - 3161**

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by Cimarex Energy (Cimarex) to assess a spill that occurred the Jumping Spring 16 State Com #1 located in Unit A, Section 16, Township 26 South, Range 26 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.04696°, W 104.29171°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on November 3, 2014 and released approximately 160 barrels of produced water from an eroded load line. Approximately 20 barrels of produced water was recovered, leaving 140 barrels unrecovered. All of the fluids from the release were contained within the lined containment. However, upon inspection breaches in the liner were discovered. The initial C-141 is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 16. According to the New Mexico State Engineers Well Report, one well located in Section 15 has a depth to ground water of 31' below ground surface. This well, which is located approximately 1.1 miles east – southeast of the site, has a surface elevation of 3290'. The surface elevation at the Site is 3390'; or 100' higher than the well listed in Section 15. Based on relative elevations, the depth to groundwater at the Site is estimated at approximately 70' below surface. The groundwater data is shown in Appendix B.

Tetra Tech

1910 North Big Spring, Midland, TX 79705

Tel 432.682.4559

Fax 432.682.3946

www.tetrattech.com



Regulatory

A risk-based evaluation was performed for the Site in accordance with the OCD Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 1,000 mg/kg.

Soil Assessment and Results

On July 7, 2016, Tetra Tech personnel installed a total of two (2) auger holes (AH-1 and AH-2), as well as one background sample (BG-1) utilizing a hand auger to assess the spill area. Soil samples were submitted for laboratory analysis of TPH by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The sampling results are summarized in Table 1. The auger hole locations are shown on Figure 3.

The area of auger hole (AH-1) was sampled to a total depth of 0-1' below surface and the auger hole (AH-2) was sampled to 2-2.5' below surface. Deeper samples were not collected due to a dense caliche formation. Referring to Table 1, the soil samples did not show any BTEX or TPH concentrations above the RRAL or the laboratory reporting limits. In addition, the area of auger hole (AH-1) did not show any chloride concentrations above laboratory reporting limits. The area of auger hole (AH-2) showed a chloride concentration of 569 mg/kg at 0-1', which then declined with depth to <250 mg/kg at 2-2.5' below surface.

The background sample (BG-1) was installed in the pasture to the south of the facility. The chloride concentrations in all of the background (BG-1) samples collected were below laboratory reporting limits.



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Conclusion

Based on the assessment, no hydrocarbon or significant chloride impact were detected in the subsurface soils or underneath the liner. According to the results, Cimarex requests closure of the spill site. The Final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment activities for this site, please call me at (432) 682-4559.

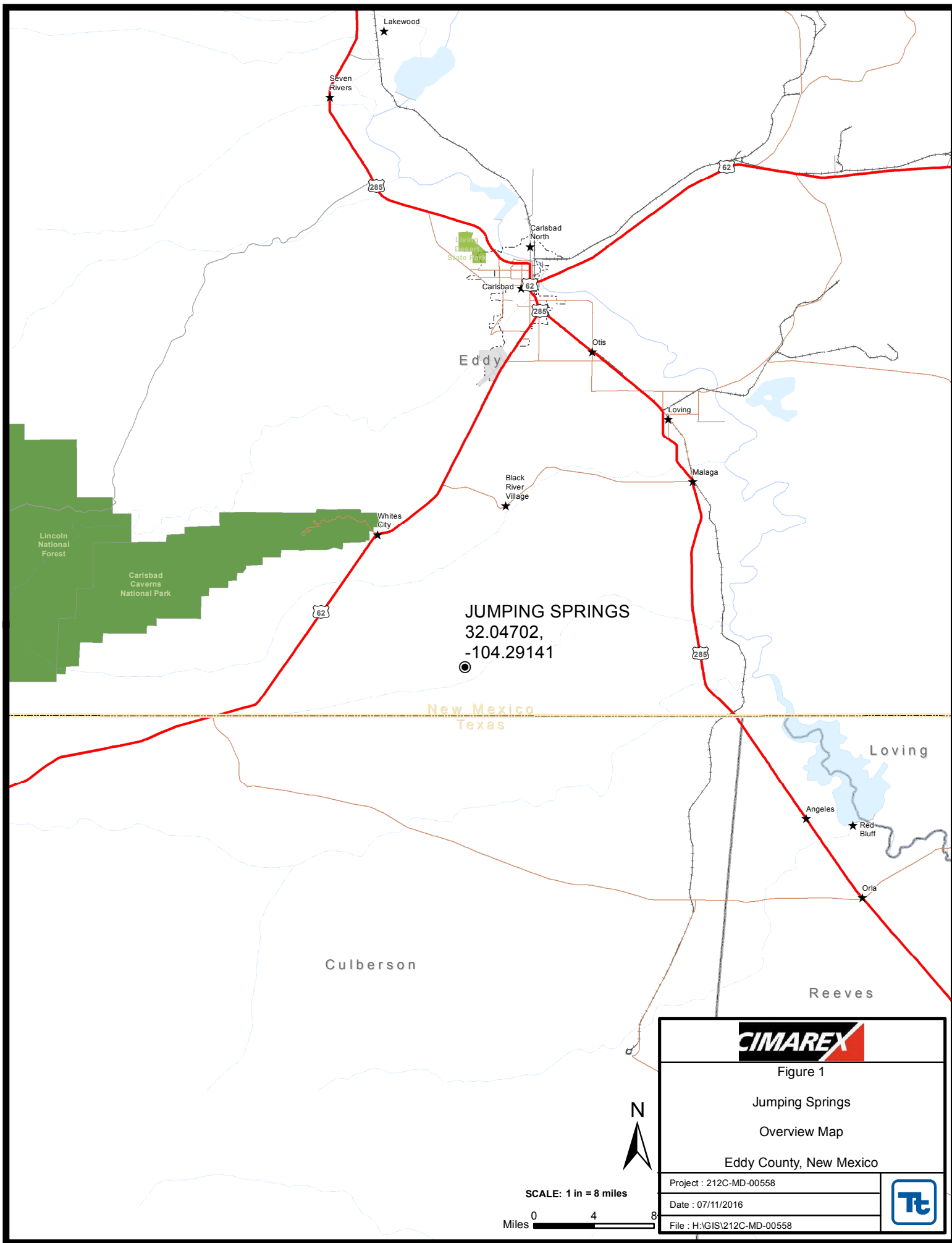
Respectfully submitted,
TETRA TECH

Clair Gonzales,
Geologist

Ike Tavaréz,
Senior Project Manager, P.G.

CC: Christine Alderman – Cimarex Energy

Figures



JUMPING SPRINGS
32.04702,
-104.29141

New Mexico
Texas

Culberson

Reeves



SCALE: 1 in = 8 miles

0 4 8
Miles



Figure 1

Jumping Springs

Overview Map

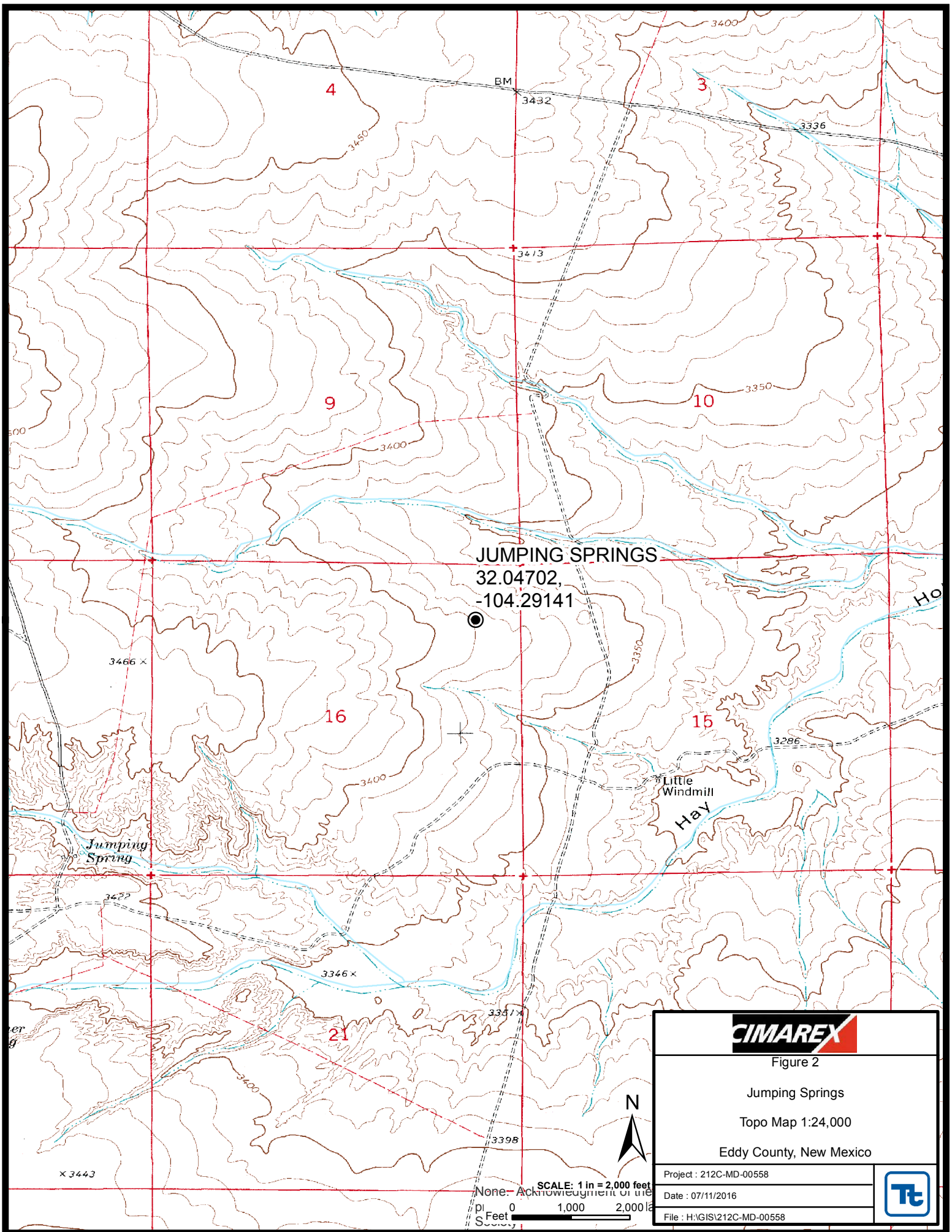
Eddy County, New Mexico

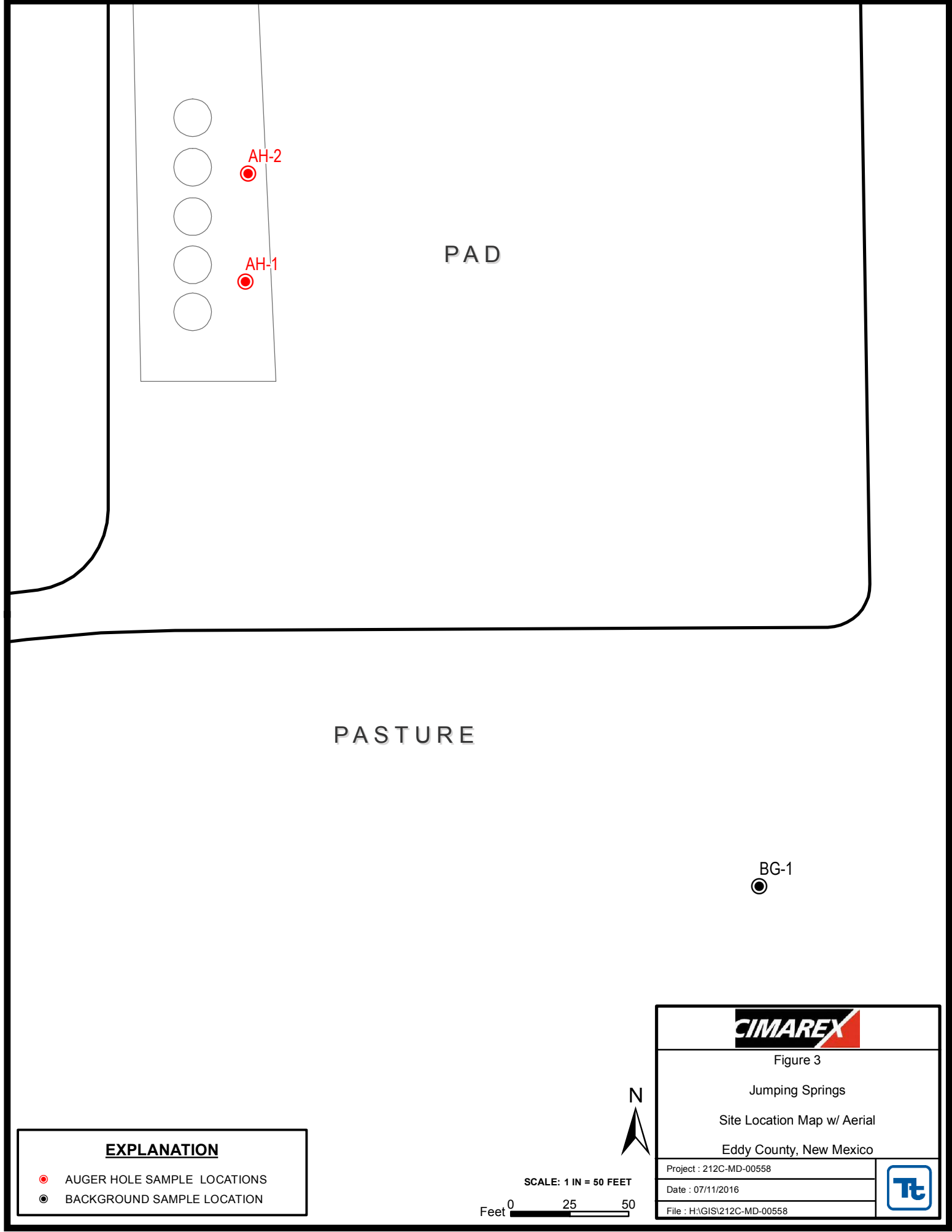
Project : 212C-MD-00558

Date : 07/11/2016

File : H:\GIS\212C-MD-00558







EXPLANATION

- AUGER HOLE SAMPLE LOCATIONS
- BACKGROUND SAMPLE LOCATION

SCALE: 1 IN = 50 FEET

Feet 0 25 50



Figure 3

Jumping Springs

Site Location Map w/ Aerial

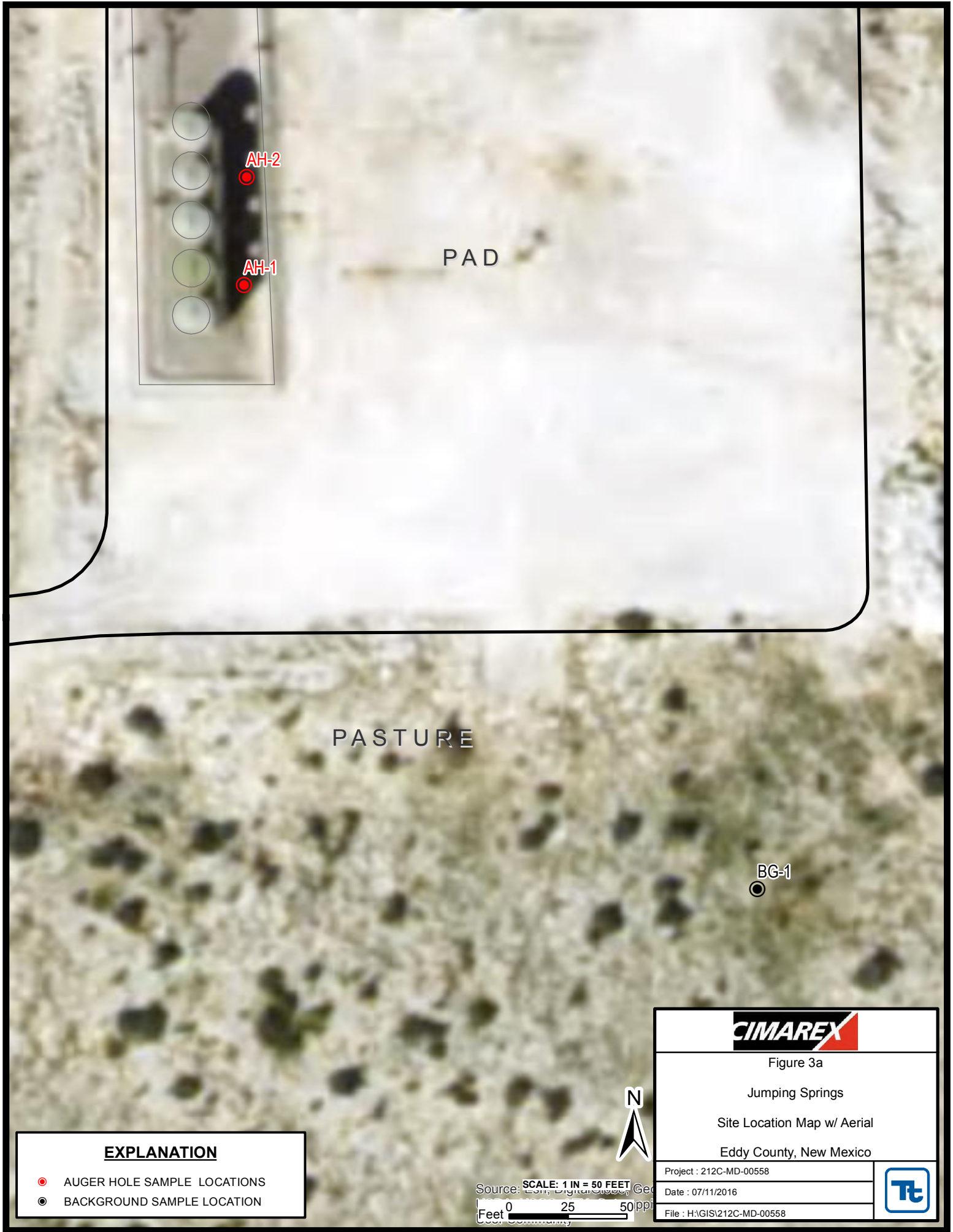
Eddy County, New Mexico

Project : 212C-MD-00558

Date : 07/11/2016

File : H:\GIS\212C-MD-00558





EXPLANATION

- AUGER HOLE SAMPLE LOCATIONS
- BACKGROUND SAMPLE LOCATION



Source: ESRI, DigitalGlobe, GeoEye
SCALE: 1 IN = 50 FEET
Feet 0 25 50



Figure 3a

Jumping Springs

Site Location Map w/ Aerial

Eddy County, New Mexico

Project : 212C-MD-00558

Date : 07/11/2016

File : H:\GIS\212C-MD-00558



Tables

Table 1
Cimarex
Jumping Spring 16 Federal Commingle #1
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	Total						
AH-1	7/7/2016	0-1	X		<4.24	<50.0	<50.0	<0.0212	<0.0212	<0.0212	<0.0212	<0.0212	<250
AH-2	7/7/2016	0-1	X		<4.24	<50.0	<50.0	<0.0212	<0.0212	<0.0212	<0.0212	<0.0212	569
	"	1-1.5	X		<4.24	<50.0	<50.0	<0.0212	<0.0212	<0.0212	<0.0212	<0.0212	474
	"	2-2.5	X		<4.24	<50.0	<50.0	<0.0212	<0.0212	<0.0212	<0.0212	<0.0212	<250
BG-1	7/7/2016	0-1	X		<4.24	<50.0	<50.0	<0.0212	<0.0212	<0.0212	<0.0212	<0.0212	<250
	"	1-1.5	X		<4.24	<50.0	<50.0	<0.0212	<0.0212	<0.0212	<0.0212	<0.0212	<250
	"	2-2.5	X		<4.24	<50.0	<50.0	<0.0212	<0.0212	<0.0212	<0.0212	<0.0212	<250

Photos

Cimarex Energy
Jumping Spring 16 State Com #1
Eddy County, New Mexico



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View North – Areas of AH-1 and AH-2



View South – Area of AH-1 and AH-2

Cimarex Energy
Jumping Spring 16 State Com #1
Eddy County, New Mexico



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View North – Area of BG-1

Appendix A

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

NAB1520937991 OPERATOR ☒ Initial Report ☒ Final Report

Name of Company	Cimarex Energy <i>162683</i>	Contact	Gloria Garza
Address	600 N Marienfeld Ste 600 Midland TX	Telephone No.	432-234-3204
Facility Name	Jumping Spring 16 State Com 1	Facility Type	Battery
Surface Owner	Mineral Owner	API No. 30-015-37496	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	16	26S	26E	990	N	660	E	Eddy

Latitude 32.04702 Longitude -104.29141

NATURE OF RELEASE *160661* *20661*

Type of Release	Produced water	Volume of Release	<i>30</i> barrels	Volume Recovered	<i>23</i> barrels
Source of Release		Date and Hour of Occurrence	11/3/2014	Date and Hour of Discovery	11/3/2014 2:00 PM
Tank		If YES, To Whom?	Mike Bratcher		
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required				
By Whom?	Gloria Garza	Date and Hour	11/3/14 3:45 PM		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

NM OIL CONSERVATION
ARTESIA DISTRICT

Describe Cause of Problem and Remedial Action Taken.*

JUL 17 2015

Spill was due to corrosion on weld of the 4" load line.

RECEIVED

Describe Area Affected and Cleanup Action Taken.*

Spill was contained in lined liner; we will remove all contaminated gravel and replace with fresh.

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

Signature: <i>Gloria Garza</i>		OIL CONSERVATION DIVISION	
Printed Name: Gloria Garza		Approved by Environmental Specialist: <i>Huf</i>	
Title: ESH Tech		Approval Date: <i>7/28/15</i>	Expiration Date: <i>NIA</i>
E-mail Address: ggarza@cimarex.com		Remediation per O.C.D. Rules & Guidelines	
Date: 11/14/14 Phone: 432-234-3204		SUBMIT REMEDIATION PROPOSAL NO <i>20661</i>	
		LATER THAN: <i>7/28/15</i>	

* Attach Additional Sheets If Necessary

2RP-3161

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Cimarex Energy	Contact Christine Alderman	
Address 600 N. Marienfield Ste 600 Midland, TX	Telephone No. (432) 234-3204	
Facility Name Jumping Spring 16 State Com #1	Facility Type Tank Battery	
Surface Owner: State	Mineral Owner	API No. 30-015-37496

LOCATION OF RELEASE

Unit Letter A	Section 16	Township 26S	Range 26E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
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Latitude N 32.04696° Longitude W 104.29171°

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release 160 bbls	Volume Recovered 20 bbls
Source of Release: Tank	Date and Hour of Occurrence 11/3/14	Date and Hour of Discovery 11/3/14 2:00 om
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher	
By Whom? Gloria Garza	Date and Hour 11/3/14 3:45 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

The release was caused by corrosion on the weld of a 4" load line.

Describe Area Affected and Cleanup Action Taken.*

Tetra Tech inspected site and collected samples to define spills extent. The samples collected did not show hydrocarbon or chloride impact to the subsurface soils. Tetra Tech has prepared closure report and submitted to NMOCD for review.

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

OIL CONSERVATION DIVISION

Signature:



Printed Name: **Ike Tavarez**

Title: **Project Manager**

E-mail Address: **Ike.Tavarez@TetraTech.com**

Date: **8/15/16**

Phone: **(432) 682-4559**

Approved by District Supervisor:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

* Attach Additional Sheets If Necessary

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
Cimarex - Jumping Spring 16 Fed Com #1

25 South			25 East		
6	5	30	4	46	3
				20	2
7	8		9		10
				43	11
18	17	16	15	14	13
					39
19	20	21	22	23	24
				70	
30	29	28	27	26	25
		Loving			
31	32	33	34	35	36

25 South			26 East		
6	5	4	3	2	1
			45		
7	8	9	45	10	11
60					12
18	17	16	15	14	13
19	20	21	22	23	24
			118		
30	29	28	27	26	25
31	32	33	34	35	36

25 South			27 East		
6	5	4	3	2	1
7	8	9	10	11	12
					92
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
		19			

26 South			25 East		
6	5	4	3	2	1
7	8	9	10	11	12
					150
18	17	16	15	14	13
10	29	6			
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

26 South			26 East		
6	5	4	3	2	1
7	8	22	9	10	11
					12
18	17	16	15	14	13
		SITE	31		
19	20	21	22	23	24
15	15				
30	29	28	27	26	25
31	32	33	34	35	36

26 South			27 East		
6	5	4	3	2	1
	12				
7	8	9	10	11	12
18	17	16	15	14	13
					35
19	20	21	22	23	24
			50		
30	29	28	27	26	25
31	32	33	34	35	36

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- 90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
- Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34 NMOCD - Groundwater Data



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 01351			ED	4	2	4	19	26S	26E	563772	3543411*	25		
C 01351 X			ED	4	4	1	20	26S	26E	564581	3543822*	25		
C 01351 X-2			ED	3	1	3	20	26S	26E	563978	3543413*	25		
C 01887	C		ED	4	4	2	15	26S	26E	568614	3545497*	53	31	22
C 02407	C		ED	1	4	1	08	26S	26E	564347	3547268*	160	22	138
C 02438			ED	4	2	3	12	26S	26E	571015	3546705*	30		
C 02439			ED	2	4	2	15	26S	26E	568614	3545697*	30		
C 02791			ED		4	4	17	26S	26E	565288	3544739*	100		
C 03810 POD1	C		ED	3	1	3	20	26S	26E	563896	3543406	100	15	85
C 03811 POD1	C		ED	4	1	4	19	26S	26E	563746	3543436	46	15	31
C 03812 POD1	C		ED	4	4	1	20	26S	26E	564641	3543737	96	15	81

Average Depth to Water: **19 feet**

Minimum Depth: **15 feet**

Maximum Depth: **31 feet**

Record Count: 11

PLSS Search:

Township: 26S

Range: 26E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Appendix C

Summary Report

Ike Tavarez
Tetra Tech
1901 N. Big Spring St.
Midland, TX 79705

Report Date: July 14, 2016

Work Order: 16070824



Project Location: Eddy Co, NM
Project Name: Jumping Springs 16 Fed Com #1
Project Number: 212C-MD-00558

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
423773	AH-1 (0-1)	soil	2016-07-07	00:00	2016-07-08
423774	AH-2 (0-1)	soil	2016-07-07	00:00	2016-07-08
423775	AH-2 (1-1.5)	soil	2016-07-07	00:00	2016-07-08
423776	AH-2 (2-2.5)	soil	2016-07-07	00:00	2016-07-08
423777	BG-1 (0-1)	soil	2016-07-07	00:00	2016-07-08
423778	BG-1 (1-1.5)	soil	2016-07-07	00:00	2016-07-08
423779	BG-1 (2-2.5)	soil	2016-07-07	00:00	2016-07-08

Sample - Field Code	BTX				TPH DRO	TPH GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
423773 - AH-1 (0-1)	<0.0212	<0.0212	<0.0212	<0.0212	<50.0	<4.24
423774 - AH-2 (0-1)	<0.0212	<0.0212	<0.0212	<0.0212	<50.0	<4.24
423775 - AH-2 (1-1.5)	<0.0212	<0.0212	<0.0212	<0.0212	<50.0	<4.24
423776 - AH-2 (2-2.5)	<0.0212	<0.0212	<0.0212	<0.0212	<50.0	<4.24
423777 - BG-1 (0-1)	<0.0212	<0.0212	<0.0212	<0.0212	<50.0	<4.24
423778 - BG-1 (1-1.5)	<0.0212	<0.0212	<0.0212	<0.0212	<50.0	<4.24
423779 - BG-1 (2-2.5)	<0.0212	<0.0212	<0.0212	<0.0212	<50.0	<4.24

Sample: 423773 - AH-1 (0-1)

Param	Flag	Result	Units	RL
Chloride		<250	mg/Kg	50

Sample: 423774 - AH-2 (0-1)

Param	Flag	Result	Units	RL
Chloride		569	mg/Kg	50

Sample: 423775 - AH-2 (1-1.5)

Param	Flag	Result	Units	RL
Chloride		474	mg/Kg	50

Sample: 423776 - AH-2 (2-2.5)

Param	Flag	Result	Units	RL
Chloride		<250	mg/Kg	50

Sample: 423777 - BG-1 (0-1)

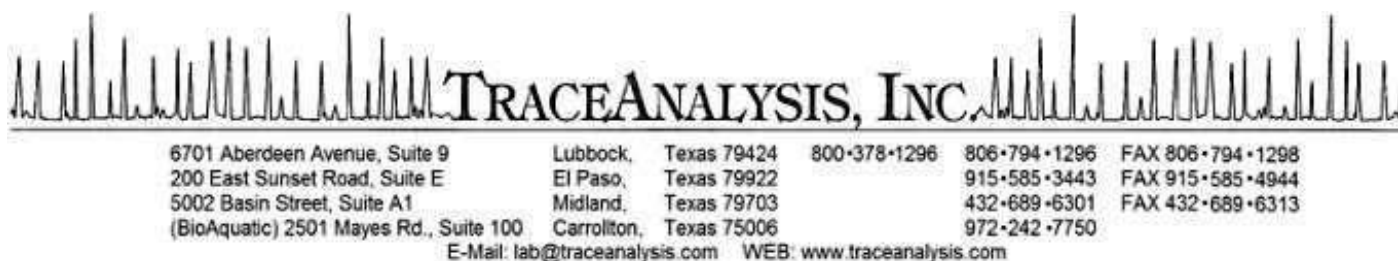
Param	Flag	Result	Units	RL
Chloride		<250	mg/Kg	50

Sample: 423778 - BG-1 (1-1.5)

Param	Flag	Result	Units	RL
Chloride		<250	mg/Kg	50

Sample: 423779 - BG-1 (2-2.5)

Param	Flag	Result	Units	RL
Chloride		<250	mg/Kg	50



Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ike Tavaréz
Tetra Tech
1901 N. Big Spring St.
Midland, TX, 79705

Report Date: July 14, 2016

Work Order: 16070824



Project Location: Eddy Co, NM
Project Name: Jumping Springs 16 Fed Com #1
Project Number: 212C-MD-00558

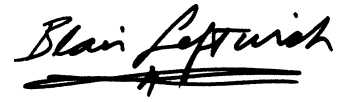
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
423773	AH-1 (0-1)	soil	2016-07-07	00:00	2016-07-08
423774	AH-2 (0-1)	soil	2016-07-07	00:00	2016-07-08
423775	AH-2 (1-1.5)	soil	2016-07-07	00:00	2016-07-08
423776	AH-2 (2-2.5)	soil	2016-07-07	00:00	2016-07-08
423777	BG-1 (0-1)	soil	2016-07-07	00:00	2016-07-08
423778	BG-1 (1-1.5)	soil	2016-07-07	00:00	2016-07-08
423779	BG-1 (2-2.5)	soil	2016-07-07	00:00	2016-07-08

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 28 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a prominent horizontal line underneath the name.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Johnny Grindstaff, Operations Manager

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Case Narrative

Samples for project Jumping Springs 16 Fed Com #1 were received by TraceAnalysis, Inc. on 2016-07-08 and assigned to work order 16070824. Samples for work order 16070824 were received intact at a temperature of 4.6 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	111323	2016-07-08 at 15:00	131431	2016-07-14 at 09:45
Chloride (Titration)	SM 4500-Cl B	111307	2016-07-11 at 09:00	131349	2016-07-11 at 09:37
TPH DRO	S 8015 D	111364	2016-07-12 at 15:00	131412	2016-07-13 at 10:03
TPH GRO	S 8015 D	111323	2016-07-08 at 15:00	131432	2016-07-14 at 09:49

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 16070824 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

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Analytical Report

Sample: 423773 - AH-1 (0-1)

Laboratory: Midland
Analysis: BTEX
QC Batch: 131431
Prep Batch: 111323

Analytical Method: S 8021B
Date Analyzed: 2016-07-14
Sample Preparation: 2016-07-08

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	4	<0.0212	mg/Kg	1.06	0.0200
Toluene	U	4	<0.0212	mg/Kg	1.06	0.0200
Ethylbenzene	U	4	<0.0212	mg/Kg	1.06	0.0200
Xylene	U	4	<0.0212	mg/Kg	1.06	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.34	mg/Kg	1.06	2.00	117	70 - 130
4-Bromofluorobenzene (4-BFB)			2.47	mg/Kg	1.06	2.00	124	70 - 130

Sample: 423773 - AH-1 (0-1)

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 131349
Prep Batch: 111307

Analytical Method: SM 4500-Cl B
Date Analyzed: 2016-07-11
Sample Preparation: 2016-07-11

Prep Method: N/A
Analyzed By: AM
Prepared By: AM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	U		<250	mg/Kg	5	50.0

Sample: 423773 - AH-1 (0-1)

Laboratory: Lubbock
Analysis: TPH DRO
QC Batch: 131412
Prep Batch: 111364

Analytical Method: S 8015 D
Date Analyzed: 2016-07-13
Sample Preparation: 2016-07-12

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	1,2,3	<50.0	mg/Kg	1	50.0

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			30.3	mg/Kg	1	25.0	121	58.2 - 150

Sample: 423773 - AH-1 (0-1)

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 131432
Prep Batch: 111323

Analytical Method: S 8015 D
Date Analyzed: 2016-07-14
Sample Preparation: 2016-07-08

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	4	<4.24	mg/Kg	1.06	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.24	mg/Kg	1.06	2.00	112	70 - 130
4-Bromofluorobenzene (4-BFB)			2.23	mg/Kg	1.06	2.00	112	70 - 130

Sample: 423774 - AH-2 (0-1)

Laboratory: Midland
Analysis: BTEX
QC Batch: 131431
Prep Batch: 111323

Analytical Method: S 8021B
Date Analyzed: 2016-07-14
Sample Preparation: 2016-07-08

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	4	<0.0212	mg/Kg	1.06	0.0200
Toluene	U	4	<0.0212	mg/Kg	1.06	0.0200
Ethylbenzene	U	4	<0.0212	mg/Kg	1.06	0.0200
Xylene	U	4	<0.0212	mg/Kg	1.06	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.26	mg/Kg	1.06	2.00	113	70 - 130
4-Bromofluorobenzene (4-BFB)			2.44	mg/Kg	1.06	2.00	122	70 - 130

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Sample: 423774 - AH-2 (0-1)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2016-07-11	Analyzed By:	AM
QC Batch:	131349	Sample Preparation:	2016-07-11	Prepared By:	AM
Prep Batch:	111307				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			569	mg/Kg	5	50.0

Sample: 423774 - AH-2 (0-1)

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO	Date Analyzed:	2016-07-13	Analyzed By:	HJ
QC Batch:	131412	Sample Preparation:	2016-07-12	Prepared By:	HJ
Prep Batch:	111364				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	1,2,3	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			32.6	mg/Kg	1	25.0	130	58.2 - 150

Sample: 423774 - AH-2 (0-1)

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2016-07-14	Analyzed By:	AK
QC Batch:	131432	Sample Preparation:	2016-07-08	Prepared By:	AK
Prep Batch:	111323				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	4	<4.24	mg/Kg	1.06	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.18	mg/Kg	1.06	2.00	109	70 - 130
4-Bromofluorobenzene (4-BFB)			2.11	mg/Kg	1.06	2.00	106	70 - 130

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Sample: 423775 - AH-2 (1-1.5)

Laboratory: Midland
Analysis: BTEX
QC Batch: 131431
Prep Batch: 111323

Analytical Method: S 8021B
Date Analyzed: 2016-07-14
Sample Preparation: 2016-07-08

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	4	<0.0212	mg/Kg	1.06	0.0200
Toluene	U	4	<0.0212	mg/Kg	1.06	0.0200
Ethylbenzene	U	4	<0.0212	mg/Kg	1.06	0.0200
Xylene	U	4	<0.0212	mg/Kg	1.06	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.35	mg/Kg	1.06	2.00	118	70 - 130
4-Bromofluorobenzene (4-BFB)			2.59	mg/Kg	1.06	2.00	130	70 - 130

Sample: 423775 - AH-2 (1-1.5)

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 131349
Prep Batch: 111307

Analytical Method: SM 4500-Cl B
Date Analyzed: 2016-07-11
Sample Preparation: 2016-07-11

Prep Method: N/A
Analyzed By: AM
Prepared By: AM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			474	mg/Kg	5	50.0

Sample: 423775 - AH-2 (1-1.5)

Laboratory: Lubbock
Analysis: TPH DRO
QC Batch: 131412
Prep Batch: 111364

Analytical Method: S 8015 D
Date Analyzed: 2016-07-13
Sample Preparation: 2016-07-12

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	1,2,3	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			29.0	mg/Kg	1	25.0	116	58.2 - 150

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Sample: 423775 - AH-2 (1-1.5)

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 131432
Prep Batch: 111323

Analytical Method: S 8015 D
Date Analyzed: 2016-07-14
Sample Preparation: 2016-07-08

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	4	<4.24	mg/Kg	1.06	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.27	mg/Kg	1.06	2.00	114	70 - 130
4-Bromofluorobenzene (4-BFB)			2.25	mg/Kg	1.06	2.00	112	70 - 130

Sample: 423776 - AH-2 (2-2.5)

Laboratory: Midland
Analysis: BTEX
QC Batch: 131431
Prep Batch: 111323

Analytical Method: S 8021B
Date Analyzed: 2016-07-14
Sample Preparation: 2016-07-08

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	4	<0.0212	mg/Kg	1.06	0.0200
Toluene	U	4	<0.0212	mg/Kg	1.06	0.0200
Ethylbenzene	U	4	<0.0212	mg/Kg	1.06	0.0200
Xylene	U	4	<0.0212	mg/Kg	1.06	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.30	mg/Kg	1.06	2.00	115	70 - 130
4-Bromofluorobenzene (4-BFB)	Q _{sr}	Q _{sr}	2.68	mg/Kg	1.06	2.00	134	70 - 130

Sample: 423776 - AH-2 (2-2.5)

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 131349
Prep Batch: 111307

Analytical Method: SM 4500-Cl B
Date Analyzed: 2016-07-11
Sample Preparation: 2016-07-11

Prep Method: N/A
Analyzed By: AM
Prepared By: AM

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	U		<250	mg/Kg	5	50.0

Sample: 423776 - AH-2 (2-2.5)

Laboratory: Lubbock
Analysis: TPH DRO
QC Batch: 131412
Prep Batch: 111364

Analytical Method: S 8015 D
Date Analyzed: 2016-07-13
Sample Preparation: 2016-07-12

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	1,2,3	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			33.9	mg/Kg	1	25.0	136	58.2 - 150

Sample: 423776 - AH-2 (2-2.5)

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 131432
Prep Batch: 111323

Analytical Method: S 8015 D
Date Analyzed: 2016-07-14
Sample Preparation: 2016-07-08

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	4	<4.24	mg/Kg	1.06	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.27	mg/Kg	1.06	2.00	114	70 - 130
4-Bromofluorobenzene (4-BFB)			2.33	mg/Kg	1.06	2.00	116	70 - 130

Sample: 423777 - BG-1 (0-1)

Laboratory: Midland
Analysis: BTEX
QC Batch: 131431
Prep Batch: 111323

Analytical Method: S 8021B
Date Analyzed: 2016-07-14
Sample Preparation: 2016-07-08

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	4	<0.0212	mg/Kg	1.06	0.0200
Toluene	U	4	<0.0212	mg/Kg	1.06	0.0200
Ethylbenzene	U	4	<0.0212	mg/Kg	1.06	0.0200
Xylene	U	4	<0.0212	mg/Kg	1.06	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.30	mg/Kg	1.06	2.00	115	70 - 130
4-Bromofluorobenzene (4-BFB)			2.52	mg/Kg	1.06	2.00	126	70 - 130

Sample: 423777 - BG-1 (0-1)

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	131349	Date Analyzed:	2016-07-11	Analyzed By:	AM
Prep Batch:	111307	Sample Preparation:	2016-07-11	Prepared By:	AM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	U		<250	mg/Kg	5	50.0

Sample: 423777 - BG-1 (0-1)

Laboratory:	Lubbock				
Analysis:	TPH DRO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	131412	Date Analyzed:	2016-07-13	Analyzed By:	HJ
Prep Batch:	111364	Sample Preparation:	2016-07-12	Prepared By:	HJ

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	1,2,3	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			32.4	mg/Kg	1	25.0	130	58.2 - 150

Sample: 423777 - BG-1 (0-1)

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	131432	Date Analyzed:	2016-07-14	Analyzed By:	AK
Prep Batch:	111323	Sample Preparation:	2016-07-08	Prepared By:	AK

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	u	4	<4.24	mg/Kg	1.06	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.20	mg/Kg	1.06	2.00	110	70 - 130
4-Bromofluorobenzene (4-BFB)			2.18	mg/Kg	1.06	2.00	109	70 - 130

Sample: 423778 - BG-1 (1-1.5)

Laboratory: Midland
Analysis: BTEX
QC Batch: 131431
Prep Batch: 111323

Analytical Method: S 8021B
Date Analyzed: 2016-07-14
Sample Preparation: 2016-07-08

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	4	<0.0212	mg/Kg	1.06	0.0200
Toluene	u	4	<0.0212	mg/Kg	1.06	0.0200
Ethylbenzene	u	4	<0.0212	mg/Kg	1.06	0.0200
Xylene	u	4	<0.0212	mg/Kg	1.06	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.29	mg/Kg	1.06	2.00	114	70 - 130
4-Bromofluorobenzene (4-BFB)			2.61	mg/Kg	1.06	2.00	130	70 - 130

Sample: 423778 - BG-1 (1-1.5)

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 131349
Prep Batch: 111307

Analytical Method: SM 4500-Cl B
Date Analyzed: 2016-07-11
Sample Preparation: 2016-07-11

Prep Method: N/A
Analyzed By: AM
Prepared By: AM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	u		<250	mg/Kg	5	50.0

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Sample: 423778 - BG-1 (1-1.5)

Laboratory:	Lubbock	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO	Date Analyzed:	2016-07-13	Analyzed By:	HJ
QC Batch:	131412	Sample Preparation:	2016-07-12	Prepared By:	HJ
Prep Batch:	111364				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	1,2,3	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			32.7	mg/Kg	1	25.0	131	58.2 - 150

Sample: 423778 - BG-1 (1-1.5)

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2016-07-14	Analyzed By:	AK
QC Batch:	131432	Sample Preparation:	2016-07-08	Prepared By:	AK
Prep Batch:	111323				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	4	<4.24	mg/Kg	1.06	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.17	mg/Kg	1.06	2.00	108	70 - 130
4-Bromofluorobenzene (4-BFB)			2.25	mg/Kg	1.06	2.00	112	70 - 130

Sample: 423779 - BG-1 (2-2.5)

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2016-07-14	Analyzed By:	AK
QC Batch:	131431	Sample Preparation:	2016-07-08	Prepared By:	AK
Prep Batch:	111323				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	4	<0.0212	mg/Kg	1.06	0.0200
Toluene	U	4	<0.0212	mg/Kg	1.06	0.0200
Ethylbenzene	U	4	<0.0212	mg/Kg	1.06	0.0200

continued ...

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sample 423779 continued ...

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Xylene	U	4	<0.0212	mg/Kg	1.06	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.28	mg/Kg	1.06	2.00	114	70 - 130
4-Bromofluorobenzene (4-BFB)			2.48	mg/Kg	1.06	2.00	124	70 - 130

Sample: 423779 - BG-1 (2-2.5)

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	131349	Date Analyzed:	2016-07-11	Analyzed By:	AM
Prep Batch:	111307	Sample Preparation:	2016-07-11	Prepared By:	AM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	U		<250	mg/Kg	5	50.0

Sample: 423779 - BG-1 (2-2.5)

Laboratory:	Lubbock				
Analysis:	TPH DRO	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	131412	Date Analyzed:	2016-07-13	Analyzed By:	HJ
Prep Batch:	111364	Sample Preparation:	2016-07-12	Prepared By:	HJ

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	1,2,3	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			36.1	mg/Kg	1	25.0	144	58.2 - 150

Sample: 423779 - BG-1 (2-2.5)

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	131432	Date Analyzed:	2016-07-14	Analyzed By:	AK
Prep Batch:	111323	Sample Preparation:	2016-07-08	Prepared By:	AK

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	u	4	<4.24	mg/Kg	1.06	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.17	mg/Kg	1.06	2.00	108	70 - 130
4-Bromofluorobenzene (4-BFB)			2.14	mg/Kg	1.06	2.00	107	70 - 130

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Method Blanks

Method Blank (1) QC Batch: 131349

QC Batch: 131349 Date Analyzed: 2016-07-11 Analyzed By: AM
Prep Batch: 111307 QC Preparation: 2016-07-11 Prepared By: AM

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride			<31.9	mg/Kg	50

Method Blank (1) QC Batch: 131412

QC Batch: 131412 Date Analyzed: 2016-07-13 Analyzed By: HJ
Prep Batch: 111364 QC Preparation: 2016-07-12 Prepared By: HJ

Parameter	Flag	Cert	MDL Result	Units	RL
DRO		1,2,3	<8.47	mg/Kg	50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			28.7	mg/Kg	1	25.0	115	58.2 - 150

Method Blank (1) QC Batch: 131431

QC Batch: 131431 Date Analyzed: 2016-07-14 Analyzed By: AK
Prep Batch: 111323 QC Preparation: 2016-07-08 Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		4	<0.0106	mg/Kg	0.02
Toluene		4	<0.0165	mg/Kg	0.02
Ethylbenzene		4	<0.0160	mg/Kg	0.02
Xylene		4	<0.00456	mg/Kg	0.02

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.14	mg/Kg	1.06	2.00	107	70 - 130

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method blank continued ...

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)			1.99	mg/Kg	1.06	2.00	100	70 - 130

Method Blank (1) QC Batch: 131432

QC Batch: 131432
Prep Batch: 111323

Date Analyzed: 2016-07-14
QC Preparation: 2016-07-08

Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
GRO		4	<1.86	mg/Kg	4

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.17	mg/Kg	1.06	2.00	108	70 - 130
4-Bromofluorobenzene (4-BFB)			1.81	mg/Kg	1.06	2.00	90	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 131349
Prep Batch: 111307

Date Analyzed: 2016-07-11
QC Preparation: 2016-07-11

Analyzed By: AM
Prepared By: AM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2460	mg/Kg	5	2500	<160	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2370	mg/Kg	5	2500	<160	95	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 131412
Prep Batch: 111364

Date Analyzed: 2016-07-13
QC Preparation: 2016-07-12

Analyzed By: HJ
Prepared By: HJ

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1,2,3	583	mg/Kg	1	500	<8.47	117	68.5 - 136

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		1,2,3	593	mg/Kg	1	500	<8.47	119	68.5 - 136	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	34.2	33.8	mg/Kg	1	25.0	137	135	58.2 - 150

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Laboratory Control Spike (LCS-1)

QC Batch: 131431
Prep Batch: 111323

Date Analyzed: 2016-07-14
QC Preparation: 2016-07-08

Analyzed By: AK
Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		4	1.99	mg/Kg	1.06	2.00	<0.0106	100	70 - 130
Toluene		4	2.13	mg/Kg	1.06	2.00	<0.0165	106	70 - 130
Ethylbenzene		4	2.23	mg/Kg	1.06	2.00	<0.0160	112	70 - 130
Xylene		4	6.67	mg/Kg	1.06	6.00	<0.00456	111	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		4	2.08	mg/Kg	1.06	2.00	<0.0106	104	70 - 130	4	20
Toluene		4	2.12	mg/Kg	1.06	2.00	<0.0165	106	70 - 130	1	20
Ethylbenzene		4	2.17	mg/Kg	1.06	2.00	<0.0160	108	70 - 130	3	20
Xylene		4	6.45	mg/Kg	1.06	6.00	<0.00456	108	70 - 130	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.11	2.10	mg/Kg	1.06	2.00	106	105	70 - 130
4-Bromofluorobenzene (4-BFB)	2.32	2.33	mg/Kg	1.06	2.00	116	116	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 131432
Prep Batch: 111323

Date Analyzed: 2016-07-14
QC Preparation: 2016-07-08

Analyzed By: AK
Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		4	21.2	mg/Kg	1.06	20.0	<1.86	106	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		4	21.3	mg/Kg	1.06	20.0	<1.86	106	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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control spikes continued . . .

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.10	2.15	mg/Kg	1.06	2.00	105	108	70 - 130
4-Bromofluorobenzene (4-BFB)	2.01	2.04	mg/Kg	1.06	2.00	100	102	70 - 130

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 423779

QC Batch: 131349
Prep Batch: 111307

Date Analyzed: 2016-07-11
QC Preparation: 2016-07-11

Analyzed By: AM
Prepared By: AM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2370	mg/Kg	5	2500	<160	95	78.9 - 121

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2370	mg/Kg	5	2500	<160	95	78.9 - 121	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 423763

QC Batch: 131412
Prep Batch: 111364

Date Analyzed: 2016-07-13
QC Preparation: 2016-07-12

Analyzed By: HJ
Prepared By: HJ

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1,2,3	415	mg/Kg	1	500	<8.47	83	49.3 - 138

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		1,2,3	385	mg/Kg	1	500	<8.47	77	49.3 - 138	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	31.0	29.5	mg/Kg	1	25	124	118	58.2 - 150

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Matrix Spike (MS-1) Spiked Sample: 423773

QC Batch: 131431
Prep Batch: 111323

Date Analyzed: 2016-07-14
QC Preparation: 2016-07-08

Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	Q _s	Q _s	4	1.37	mg/Kg	1.06	2.00	<0.0106	68 70 - 130
Toluene			4	1.53	mg/Kg	1.06	2.00	<0.0165	76 70 - 130
Ethylbenzene			4	1.72	mg/Kg	1.06	2.00	<0.0160	86 70 - 130
Xylene			4	5.12	mg/Kg	1.06	6.00	<0.00456	85 70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		4	1.54	mg/Kg	1.06	2.00	<0.0106	77	70 - 130	12	20
Toluene		4	1.72	mg/Kg	1.06	2.00	<0.0165	86	70 - 130	12	20
Ethylbenzene		4	1.91	mg/Kg	1.06	2.00	<0.0160	96	70 - 130	10	20
Xylene		4	5.80	mg/Kg	1.06	6.00	<0.00456	97	70 - 130	12	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate			MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)			2.31	2.30	mg/Kg	1.06	2	116	115	70 - 130
4-Bromofluorobenzene (4-BFB)	Q _{sr}	Q _{sr}	2.62	2.52	mg/Kg	1.06	2	131	126	70 - 130

Matrix Spike (MS-1) Spiked Sample: 423773

QC Batch: 131432
Prep Batch: 111323

Date Analyzed: 2016-07-14
QC Preparation: 2016-07-08

Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		4	18.0	mg/Kg	1.06	20.0	<1.86	90	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		4	20.9	mg/Kg	1.06	20.0	<1.86	104	70 - 130	15	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

matrix spikes continued . . .

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.15	2.17	mg/Kg	1.06	2	108	108	70 - 130
4-Bromofluorobenzene (4-BFB)	2.29	2.38	mg/Kg	1.06	2	114	119	70 - 130

Calibration Standards

Standard (ICV-1)

QC Batch: 131349

Date Analyzed: 2016-07-11

Analyzed By: AM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2016-07-11

Standard (CCV-1)

QC Batch: 131349

Date Analyzed: 2016-07-11

Analyzed By: AM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2016-07-11

Standard (CCV-1)

QC Batch: 131412

Date Analyzed: 2016-07-13

Analyzed By: HJ

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1,2,3	mg/Kg	500	513	103	80 - 120	2016-07-13

Standard (CCV-2)

QC Batch: 131412

Date Analyzed: 2016-07-13

Analyzed By: HJ

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1,2,3	mg/Kg	500	569	114	80 - 120	2016-07-13

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Standard (CCV-1)

QC Batch: 131431

Date Analyzed: 2016-07-14

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		4	mg/kg	0.100	0.0990	99	80 - 120	2016-07-14
Toluene		4	mg/kg	0.100	0.100	100	80 - 120	2016-07-14
Ethylbenzene		4	mg/kg	0.100	0.102	102	80 - 120	2016-07-14
Xylene		4	mg/kg	0.300	0.305	102	80 - 120	2016-07-14

Standard (CCV-2)

QC Batch: 131431

Date Analyzed: 2016-07-14

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		4	mg/kg	0.100	0.110	110	80 - 120	2016-07-14
Toluene		4	mg/kg	0.100	0.111	111	80 - 120	2016-07-14
Ethylbenzene		4	mg/kg	0.100	0.114	114	80 - 120	2016-07-14
Xylene		4	mg/kg	0.300	0.337	112	80 - 120	2016-07-14

Standard (CCV-3)

QC Batch: 131431

Date Analyzed: 2016-07-14

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		4	mg/kg	0.100	0.110	110	80 - 120	2016-07-14
Toluene		4	mg/kg	0.100	0.110	110	80 - 120	2016-07-14
Ethylbenzene		4	mg/kg	0.100	0.112	112	80 - 120	2016-07-14
Xylene		4	mg/kg	0.300	0.334	111	80 - 120	2016-07-14

Standard (CCV-1)

QC Batch: 131432

Date Analyzed: 2016-07-14

Analyzed By: AK

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Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		4	mg/Kg	1.00	1.10	110	80 - 120	2016-07-14

Standard (CCV-2)

QC Batch: 131432

Date Analyzed: 2016-07-14

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		4	mg/Kg	1.00	1.09	109	80 - 120	2016-07-14

Standard (CCV-3)

QC Batch: 131432

Date Analyzed: 2016-07-14

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		4	mg/Kg	1.00	1.04	104	80 - 120	2016-07-14

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	NELAP	T104704219-16-12	Lubbock
4	NELAP	T104704392-14-8	Midland
5		2015-066	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.

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F	Description
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U	The analyte is not detected above the SDL
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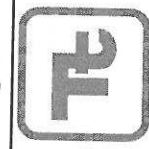
Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

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Analysis Request of Chain of Custody Record



TETRA TECH

1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

CLIENT NAME: <u>Cinamay</u>		SITE MANAGER: <u>Ke Tovar</u>				
PROJECT NO.: <u>212C-MP-00558</u>		PROJECT NAME: <u>Jumping Springs 16 Fed Com #1</u>				
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION
773	7/17		S	X		AH-1 0-1
774						AH-2 0-1
775						" 1-1.5
776						" 2-2.5
777						BG-1 0-1
778						" 1-1.5
779						" 2-2.5

NUMBER OF CONTAINERS		FILTERED (Y/N)		PRESERVATIVE METHOD	
HCL	HNO3	ICE	NONE		

PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
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RELINQUISHED BY: (Signature) <u>[Signature]</u>	Date: <u>7/18/16</u>	Time: <u>13:00</u>	RECEIVED BY: (Signature) <u>[Signature]</u>	Date: <u>7/18/16</u>	Time: <u>10:50</u>
RELINQUISHED BY: (Signature) <u>[Signature]</u>	Date: <u>7/18/16</u>	Time: <u>13:00</u>	RECEIVED BY: (Signature) <u>[Signature]</u>	Date: <u>7/18/16</u>	Time: <u>10:50</u>
RELINQUISHED BY: (Signature) <u>[Signature]</u>	Date: <u>7/18/16</u>	Time: <u>13:00</u>	RECEIVED BY: (Signature) <u>[Signature]</u>	Date: <u>7/18/16</u>	Time: <u>10:50</u>
RECEIVING LABORATORY: <u>4.6</u>		STATE: <u>TX</u>	PHONE: <u>432-682-4559</u>	ZIP: <u>79705</u>	DATE: <u>7/18/16</u>
SAMPLE CONDITION WHEN RECEIVED: <u>4.6</u>					
REMARKS: <u>Run down sample if PPH exceeds 100 m/kg. Benzene exceeds 10 m/kg or Total PPH exceeds 50 m/kg.</u>					

PLEASE FILL OUT ALL COPIES - Laboratory retains Yellow copy - Return Original copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.