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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil-Conservation-Division-1220 South St. Francis Dr.

Submit 1 Copy to appropriate District Office in accordance with 19:15-29 NMAC.

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 **Release Notification and Corrective Action OPERATOR** ☐ Initial Report Final Report Name of Company Frontier Field Services, LLC Contact John Prentiss Address 65 Mercado Street, Suite 250, Durango, CO 81301 Telephone No. 575-676-3528 Facility Name Anderson Ranch Discharge Line - #1 Facility Type Condensate transport line Surface Owner Frontier Field Services, LLC | Mineral Owner API No. N/A LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line Lea 14 Latitude 32.936766 N Longitude -103.734009 W NATURE OF RELEASE

Type of Release Historic LOPC of condensate from buried pipeline Volume of Release Estimated Volume Recovered: Excavation 20bbl subsurface underway. Source of Release Historic pinhole leak discovered in buried heavy Date and Hour of Occurrence Date and Hour of Discovery 1/30/15 condensate pipeline Historic Was Immediate Notice Given? If YES, To Whom? Tomáš Oberding - NMOCD By Whom? Greg Busch - EHS Technician III Date and Hour 1/30/15 @ 16:08 Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No RECEIVED If a Watercourse was Impacted, Describe Fully.* By OCD; Dr. Oberding at 11:01 am, Apr 14, 2015 Describe Cause of Problem and Remedial Action Taken.* On 1/30/2015 Frontier Field Services discovered a historic release along the Anderson Ranch Pipeline. Frontier estimated the release to exceed

5bbl and prior notifications to/from NMOCD w/instructions, was given and followed.

Excavation commenced to delineate and remove contaminated soils and to restore integrity of the pipeline.

Describe Area Affected and Cleanup Action Taken.*

Approximately 1029 yd3 have been excavated from the area surrounding the pipeline. The excavated material was transported to R-360 for disposal on 2/17/15 to 3/18/15. Analytical samples were taken on 3/16-23/15, to demonstrate Chlorides, TPH, BTEX, and Benzene levels. A 20mil liner was placed under the pipeline for added protection. The area has been backfilled with clean soil. The completion date is 3/24-26/15.

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: Hydrologist Approved by Environmental Specialist Printed Name: Harley Everhart Approval Date: 04/14/2015 Title: EHS Technician III **Expiration Date:** E-mail Address: heverhart@akaenergy.com Conditions of Approval: Attached /// 1RP-3543 Date: 04/10/2015 Phone: 575-513-4922

^{*} Attach Additional Sheets If Necessary



March 20, 2015

HARLEY EVERHART
FRONTIER FIELD SERVICES
4200 SKELLY DRIVE, SUITE 700
TULSA, OK 74135

RE: ANDERSON RANCH REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/16/15 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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



FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 03/16/2015 Sampling Date: 03/16/2015

Reported: 03/20/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH REMEDIATION Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Jodi Henson

Project Location: ANDERSON RANCH

Sample ID: AR#4-01 (H500713-01)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	0.217	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	0.139	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	2.50	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTEX	2.85	0.300	03/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/18/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	93.1	10.0	03/18/2015	ND	200	100	200	0.434	
DRO >C10-C28	4970	10.0	03/18/2015	ND	213	106	200	1.78	
Surrogate: 1-Chlorooctane	118 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	154 9	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 03/16/2015 Sampling Date: 03/16/2015

Reported: 03/20/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH REMEDIATION Sampling Condition: Cool & Intact Project Number: NOT GIVEN Sample Received By: Jodi Henson

Project Location: ANDERSON RANCH

Sample ID: AR#4-02 (H500713-02)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	0.318	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	0.383	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	2.94	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTEX	3.64	0.300	03/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 61-154	!						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/18/2015	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	119	10.0	03/18/2015	ND	200	100	200	0.434	
DRO >C10-C28	5870	10.0	03/18/2015	ND	213	106	200	1.78	
Surrogate: 1-Chlorooctane	126	% 47.2-15	7						
Surrogata: 1 Chloroctadacana	152	0/ 52 1 17	6						

152 % 52.1-176 Surrogate: 1-Chlorooctadecane

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FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 03/16/2015 Sampling Date: 03/16/2015

Reported: 03/20/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH REMEDIATION Sampling Condition: Cool & Intact Project Number: Sample Received By: NOT GIVEN Jodi Henson

Project Location: ANDERSON RANCH

Sample ID: AR#4-03 (H500713-03)

BTEX 8021B	mg	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	0.209	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	0.211	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	2.29	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTEX	2.71	0.300	03/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	146	% 61-154	!						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/18/2015	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	107	10.0	03/18/2015	ND	200	100	200	0.434	
DRO >C10-C28	4940	10.0	03/18/2015	ND	213	106	200	1.78	
Sumagata: 1 Chlorocatana	124	0/ 17.2.15	7						

Surrogate: 1-Chlorooctane 124 % 47.2-157 142 % 52.1-176 Surrogate: 1-Chlorooctadecane

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Celeg D. Keene



FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 03/16/2015 Sampling Date: 03/16/2015

Reported: 03/20/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH REMEDIATION Sampling Condition: Cool & Intact Project Number: Sample Received By: NOT GIVEN Jodi Henson

Project Location: ANDERSON RANCH

Sample ID: AR#4-04 (H500713-04)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	0.149	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	0.092	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	1.56	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTEX	1.80	0.300	03/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 61-154	!						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/18/2015	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	61.0	10.0	03/18/2015	ND	200	100	200	0.434	
DRO >C10-C28	3020	10.0	03/18/2015	ND	213	106	200	1.78	
Surrogate: 1-Chlorooctane	102	% 47.2-15	7						

122 % 52.1-176 Surrogate: 1-Chlorooctadecane

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Celeg D. Keene



FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 03/16/2015 Sampling Date: 03/16/2015

Reported: 03/20/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH REMEDIATION Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Jodi Henson

Project Location: ANDERSON RANCH

Sample ID: AR#5-01 (H500713-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	< 0.050	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	< 0.050	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	<0.150	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTEX	<0.300	0.300	03/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 %	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/18/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	74.0	10.0	03/18/2015	ND	200	100	200	0.434	
DRO >C10-C28	7360	10.0	03/18/2015	ND	213	106	200	1.78	
Surrogate: 1-Chlorooctane	129 %	% 47.2-15	7						

 Surrogate: 1-Chlorooctadecane
 129 %
 47.2-137

 Surrogate: 1-Chlorooctadecane
 171 %
 52.1-176

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FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 03/16/2015 Sampling Date: 03/16/2015

Reported: 03/20/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH REMEDIATION Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Jodi Henson

Project Location: ANDERSON RANCH

mg/kg

167 %

52.1-176

Sample ID: AR#5-02 (H500713-06)

BTEX 8021B

	9/	9	7	u 27. 1113					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	0.222	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	0.085	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	0.908	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTEX	1.21	0.300	03/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/18/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	45.3	10.0	03/18/2015	ND	200	100	200	0.434	
DRO >C10-C28	6820	10.0	03/18/2015	ND	213	106	200	1.78	
Surrogate: 1-Chlorooctane	109 9	% 47.2-15	7						

Analyzed By: ms

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Celey D. Keine

Surrogate: 1-Chlorooctadecane



FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 03/16/2015 Sampling Date: 03/16/2015

Reported: 03/20/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH REMEDIATION Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Jodi Henson

Project Location: ANDERSON RANCH

Sample ID: AR#5-03 (H500713-07)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	<0.050	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	<0.050	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	<0.150	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTEX	<0.300	0.300	03/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/18/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/18/2015	ND	200	99.8	200	4.57	
DRO >C10-C28	2170	10.0	03/18/2015	ND	213	106	200	2.49	
Surrogate: 1-Chlorooctane	96.0								

 Surrogate: 1-Chlorooctadecane
 118 %
 52.1-176

Cardinal Laboratories *=Accredited Analyte

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FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 03/16/2015 Sampling Date: 03/16/2015

Reported: 03/20/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH REMEDIATION Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Jodi Henson

Project Location: ANDERSON RANCH

Sample ID: AR#9-01 (H500713-08)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	<0.050	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	<0.050	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	<0.150	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTEX	<0.300	0.300	03/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	03/18/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/18/2015	ND	200	99.8	200	4.57	
DRO >C10-C28	77.5	10.0	03/18/2015	ND	213	106	200	2.49	
Surrogate: 1-Chlorooctane	90.9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	86.7	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 03/16/2015 Sampling Date: 03/16/2015

Reported: 03/20/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH REMEDIATION Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Jodi Henson

Project Location: ANDERSON RANCH

Sample ID: AR#9-02 (H500713-09)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	<0.050	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	<0.050	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	<0.150	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTEX	<0.300	0.300	03/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	03/18/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/18/2015	ND	200	99.8	200	4.57	
DRO >C10-C28	858	10.0	03/18/2015	ND	213	106	200	2.49	
Surrogate: 1-Chlorooctane	92.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	96.0	% 52 1-17	6						

Surrogate: 1-Chlorooctadecane 96.0 % 52.1-176

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FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 03/16/2015 Sampling Date: 03/16/2015

Reported: 03/20/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH REMEDIATION Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Jodi Henson

Project Location: ANDERSON RANCH

Sample ID: AR#9-03 (H500713-10)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	<0.050	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	<0.050	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	<0.150	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTEX	<0.300	0.300	03/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	03/18/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/18/2015	ND	200	99.8	200	4.57	
DRO >C10-C28	672	10.0	03/18/2015	ND	213	106	200	2.49	
Surrogate: 1-Chlorooctane	97.3	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	97.2	% 52.1-17	6						

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FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 03/16/2015 Sampling Date: 03/16/2015

Reported: 03/20/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH REMEDIATION Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Jodi Henson

Project Location: ANDERSON RANCH

Sample ID: AR#9-04 (H500713-11)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2015	ND	2.17	108	2.00	2.16	
Toluene*	<0.050	0.050	03/19/2015	ND	1.95	97.6	2.00	0.782	
Ethylbenzene*	<0.050	0.050	03/19/2015	ND	1.93	96.6	2.00	1.69	
Total Xylenes*	<0.150	0.150	03/19/2015	ND	5.85	97.6	6.00	1.86	
Total BTEX	<0.300	0.300	03/19/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	% 61-154	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	03/18/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/18/2015	ND	200	99.8	200	4.57	
DRO >C10-C28	256	10.0	03/18/2015	ND	213	106	200	2.49	
Surrogate: 1-Chlorooctane	92.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	99.9	% 52.1-17	6						

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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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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Frankier Fild Sirviers	(Hha	Such	,						811	BILL TO					Α	A	SISYJANA		EC.	REQUEST	ST				
Project Manager:				11			P	P.O. #:	#							-				_			-		-	
Address:							C	om	Company:																	
city: h.(a mal	State:N M	Zip:				A	Attn:																		
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Project #: AR#	4 + AR# 5	Project Owner:					C	City:			10															
Project Name:	Andreson Runch	Re mediation	otio	\$			S	State:			Zip:															
Project Location: A.d.	7	ARHY +	A	AR#	7		P	Phone #:	e #:																	
Sampler Name:					,		T	Fax #:	"																	
FOR LAB USE ONLY					N.	MATRIX	- 1	P	PRESERV.	RV.	SAMPLING	NG														
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PLEASE NOTE: Liability an analyses. All claims includi service. In no event shall C	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising whether based in contract or ind, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal betwith 30 days after completion of the applicable service. In no event shall Cardinal be liable for including unless and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal betwith 30 days after completion of the applicable service. In no event shall Cardinal be liable for including updated arranges, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	s exclusive remedy for a se whatsoever shall be or antal damages, including	any claim a deemed w g without Ii	arising whe raived unle mitation, b	ether base ess made susiness i	in writing interruption	tract or t and rec ons, loss	ceived of use	by Card	mited to dinal wi	o the amount paid thin 30 days after offts incurred by c	by the client for to completion of the ient, its subsidiari	he applicab es,	ē												
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ompany Name: Frontier Field Services LABY	4 Energy)	BILL TO			ANALYSIS REQUEST	
roject Manager:	11	P.O. #:		_		
ddress:		Company:				
ity: Malya may State: N in 2	Zip:		pC			
hone #: 575 5/3 492 C Fax #:		Address:	7			
roject #: 414 9 Project Owner:		City:		1		
ame: Huderson Pan	diotion	State: Zip:				
ĭ,	77	Phone #:				
Harles Evelh		Fax #:				
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING				
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11 ARR9 - 04	-6	1 3.12.15	01.53 ×	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Damages. Cardinal's liability and cliq those for negligence and any other or dinal be liable for incidental or conse yout of or rejated to the performance	ent's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount pa rause whatsoever shall be deemed walved unless made in writing and received by Carcinical within 30 days at quental damages, including without limitation, business interruptions, loss of use, or loss of profits nounted by of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated re	r tort, shall be limited to the amount pai eceived by Cardinal within 30 days afte ss of use, or loss of profits incurred by o based upon any of the above stated re-	id by the client for the er completion of the applicable client, its subsidiaries, asons or otherwise.			
Time: /50	Du sa	enson	Fax Result: [No	Add'l Fax #:	
Тіте:			C-Mail Results	Losvies	the learnersy com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact Cool Intact No No	ON CHECKED BY:		Weder was	Medicamore Comment	
† Cark, cannot accept verbal changes. Please fax written changes to (575) 393-2326	fax written changes to (5	575) 393-2326				

Anderson Ranch Pipeline Leak #4
Date 1/29/2015

N 32.936766 W -103.734009

Section	14
Town	16
Range	32

Soil Remediated

~448 Cubic Yards

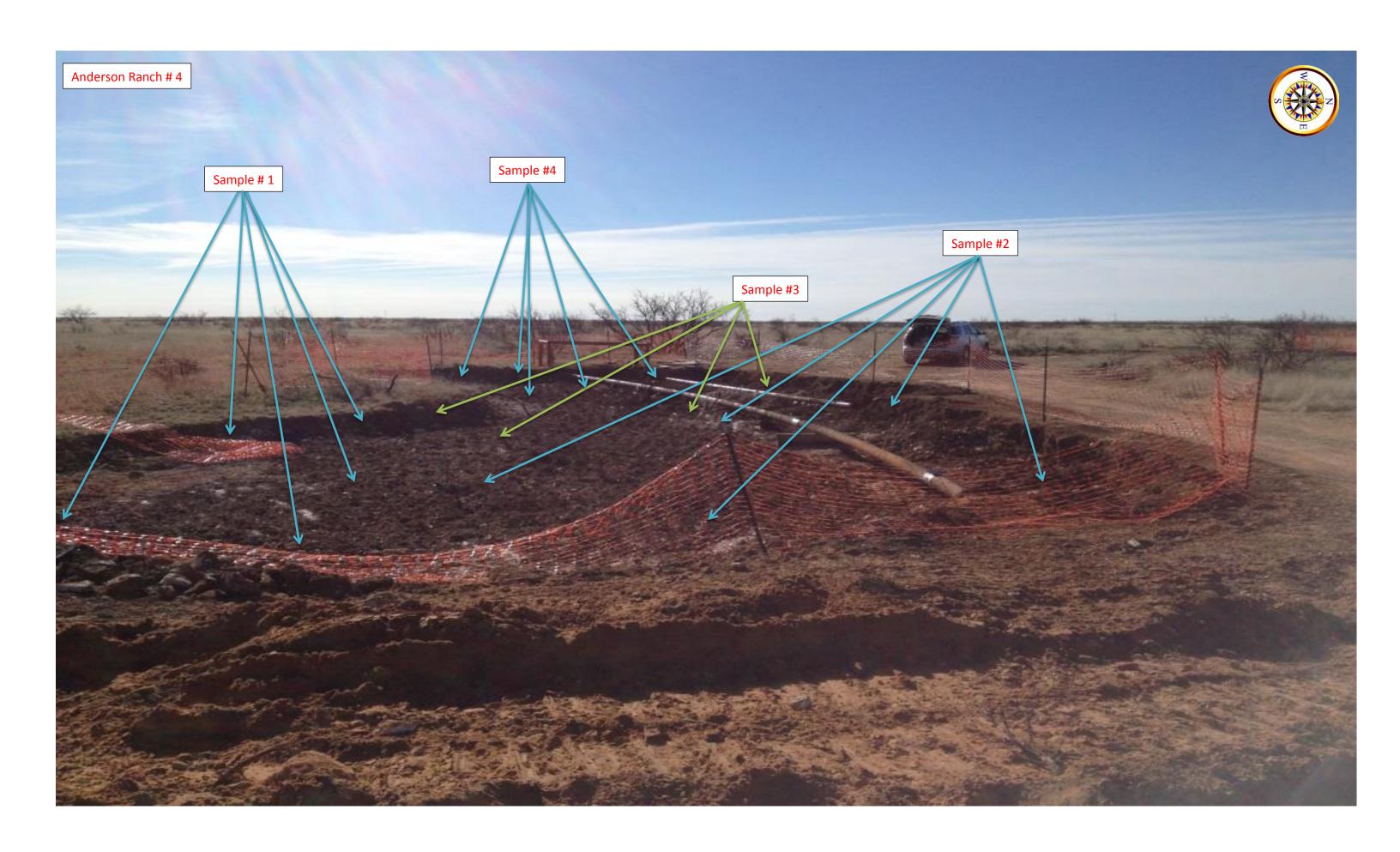


Laying Plastic



Completed 3/24/15





Anderson Ranch Pipeline Leak #5 Date 1/29/2015

N 32.936338 W -103.734124

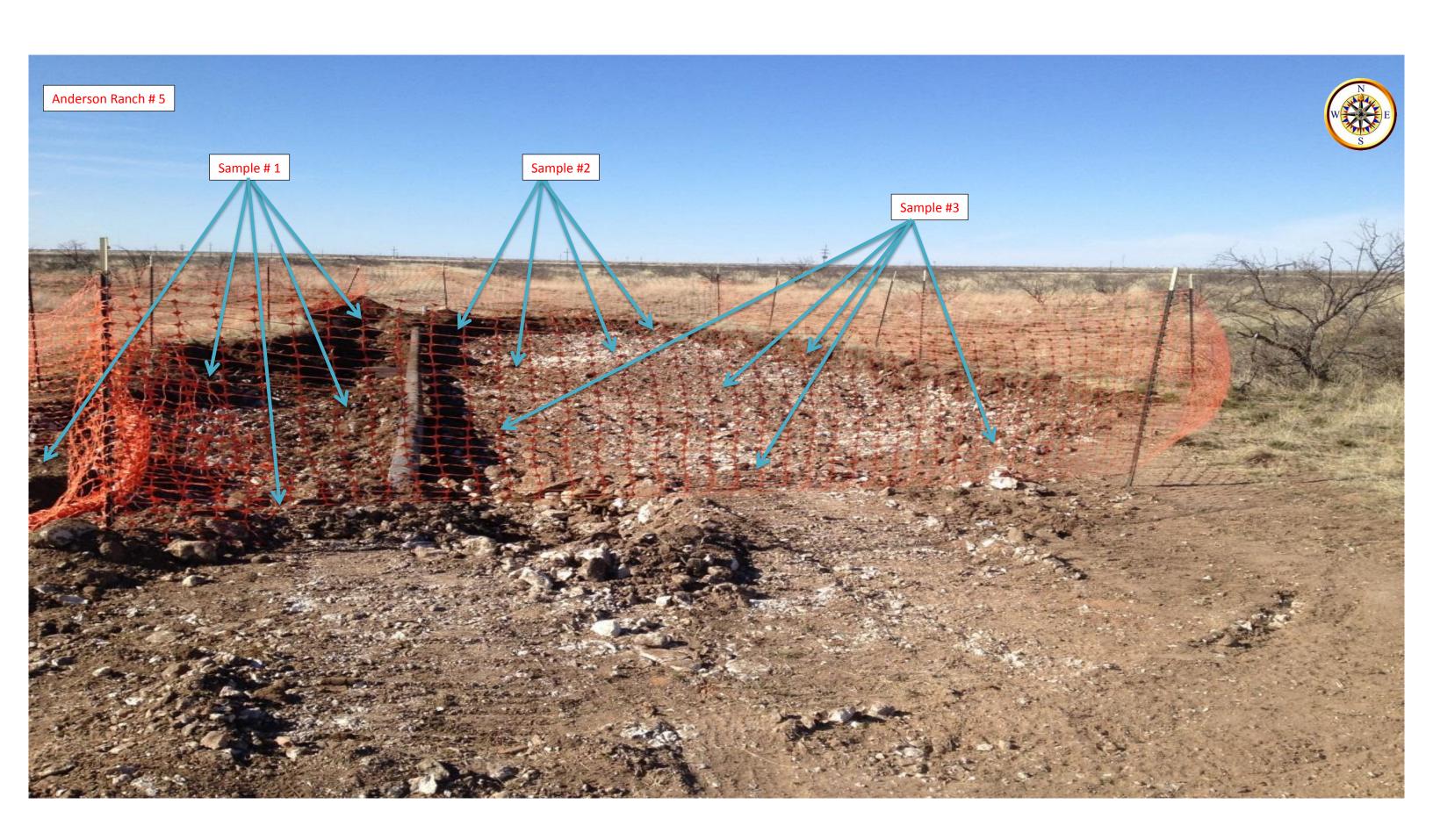
Section	14
Town	16
Range	32

Soil Remediated ~314 Cubic Yards



Completed 3/24/15





Anderson Ranch Pipeline Leak #6 Date 1/29/15

N 32.925769 W -103.740254

	No. 14		
a Mercon			
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月日			

Section	14
Town	16
Range	32

Soil Remediated ~167 Cubic Yards



Completed 3/26/15





March 26, 2015

HARLEY EVERHART
FRONTIER FIELD SERVICES
4200 SKELLY DRIVE, SUITE 700
TULSA, OK 74135

RE: ANDERSON RANCH REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/23/15 10:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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



FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 03/23/2015 Sampling Date: 03/23/2015

Reported: 03/26/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH REMEDIATION Sampling Condition: Cool & Intact
Project Number: AR #6 Sample Received By: Celey D. Keene

Project Location: ANDERSON RANCH

Sample ID: AR #6 - #1 (H500768-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2015	ND	1.93	96.3	2.00	11.0	
Toluene*	<0.050	0.050	03/24/2015	ND	1.78	88.9	2.00	10.5	
Ethylbenzene*	<0.050	0.050	03/24/2015	ND	1.70	84.9	2.00	13.0	
Total Xylenes*	<0.150	0.150	03/24/2015	ND	5.10	84.9	6.00	13.9	
Total BTEX	<0.300	0.300	03/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/24/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2015	ND	206	103	200	1.02	
DRO >C10-C28	4470	10.0	03/24/2015	ND	224	112	200	2.38	
Surrogate: 1-Chlorooctane	110 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	163 9	52.1-17	6						

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FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 03/23/2015 Sampling Date: 03/23/2015

Reported: 03/26/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH REMEDIATION Sampling Condition: Cool & Intact
Project Number: AR #6 Sample Received By: Celey D. Keene

Project Location: ANDERSON RANCH

Sample ID: AR #6 - #2 (H500768-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2015	ND	1.93	96.3	2.00	11.0	
Toluene*	<0.050	0.050	03/24/2015	ND	1.78	88.9	2.00	10.5	
Ethylbenzene*	<0.050	0.050	03/24/2015	ND	1.70	84.9	2.00	13.0	
Total Xylenes*	<0.150	0.150	03/24/2015	ND	5.10	84.9	6.00	13.9	
Total BTEX	<0.300	0.300	03/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/24/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2015	ND	206	103	200	1.02	
DRO >C10-C28	2660	10.0	03/24/2015	ND	224	112	200	2.38	
Surrogate: 1-Chlorooctane	115 %	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	145 9	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 03/23/2015 Sampling Date: 03/23/2015

Reported: 03/26/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH REMEDIATION Sampling Condition: Cool & Intact Sample Received By: Project Number: AR #6 Celey D. Keene

Project Location: ANDERSON RANCH

Sample ID: AR #6 - #3 (H500768-03)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	03/24/2015	ND	1.93	96.3	2.00	11.0	
Toluene*	<0.500	0.500	03/24/2015	ND	1.78	88.9	2.00	10.5	
Ethylbenzene*	<0.500	0.500	03/24/2015	ND	1.70	84.9	2.00	13.0	
Total Xylenes*	<1.50	1.50	03/24/2015	ND	5.10	84.9	6.00	13.9	
Total BTEX	<3.00	3.00	03/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 61-154	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/24/2015	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/25/2015	ND	189	94.4	200	3.26	
DRO >C10-C28	1730	10.0	03/25/2015	ND	195	97.7	200	5.35	
Surrogate: 1-Chlorooctane	99.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	125	% 52.1-17	6						

Surrogate: 1-Chlorooctadecane

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(575) 393-2326 FAX (575) 393-2476		- 1
Company Name: 1 1 6 11 Coming / 14 ho	ELL TO	ANALYSIS REGUES!
TONTIC LICIA Services		
Address:	Company:	
City: Mallamar State: Nh Zip:	Attn:	
Phone #: 575 5/3 4522 Fax #:	Address: 0	
Project #: 1+12# 6 Project Owner:	City:	
ne: Handerson Ranch Boil	Consolietion State: Zip:	
Project Location: 14 R # 6	Phone #:	
Sampler Name: Harly Everhart	Fax #:	5
FOR LAB USE ONLY	NA INC	le:
Lab I.D. Sample I.D. #500768 (G)RAB OR (C)ON	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TPH BTEX Chloria
4R#6-	1	7 7
S 4846 - 43	***	
PLEASE NOTE: Liability and Dannages. Cardinal's liability and client's exclusive remody for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the PLEASE NOTE: Liability and Dannages. Cardinal's liability and client's exclusive remody for any claim arising whether based in writing and received by Cardinal within 30 days after completion of the average contracts.	sive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the second to the applicable in witing and received by Cardinal within 30 days after completion of the applicable	for the of the applicable

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 £ 5 *H*

Sample Condition
Cool Intact
Lives I Yes
No No

CHECKED BY: (Initials)

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

Relinquished By:

analyses. All claims including those for negligence at service. In no event shall Cardinal be liable for incide

Relinquished By:

Date: 3.13.15 Times:

Received By:

red by client, its subsidiaries,

Phone Result: Fax Result: REMARKS:

□ Yes

O No

Add'I Phone :

E-word Results.

Date: Received By:

Attached to this Final NMOCD C-141 report includes;

- 1) AR#4 SoilRemediation SampleLocations 3.16.15
- 2) AR#5_SoilRemediation_SampleLocations_3.16.15
- 3) AR#6_SoilRemediation_SampleLocations_3.16.15
- 4) AR#4_#5_#9_SoilRemediation_CadinalLabs_Samples_3.16.2015
- 5) AR#6_SoilRemediation_CadinalLabs_Samples_3.23.2015
- 6) AR_SoilRemediation_R360_Complete_Manifest_List_2.2015 to 3.2015 (already submitted to NMOCD)
- 7) AR#4 RemediationCompletion 3.24.15
- 8) AR#5_RemediationCompletion_3.24.15
- 9) AR#6_RemediationCompletion_3.26.15