



August 18, 2015

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

RE: ANDERSON RANCH LATERAL 6"

Enclosed are the results of analyses for samples received by the laboratory on 08/12/15 11:00.

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)

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: 08/12/2015 Sampling Date: 08/12/2015

Reported: 08/18/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH LATERAL 6" Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALJAMAR, NM

Sample ID: ARL #1 - SE WALL (H502097-01)

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	08/14/2015	ND	2.25	113	2.00	0.0430	
Toluene*	<0.050	0.050	08/14/2015	ND	2.15	107	2.00	0.127	
Ethylbenzene*	<0.050	0.050	08/14/2015	ND	2.34	117	2.00	0.668	
Total Xylenes*	<0.150	0.150	08/14/2015	ND	6.57	110	6.00	0.479	
Total BTEX	<0.300	0.300	08/14/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 85.6-13	7						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	08/17/2015	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	08/13/2015	ND	182	91.2	200	0.0636	
DRO >C10-C28	<10.0	10.0	08/13/2015	ND	194	97.2	200	0.823	
Surrogate: 1-Chlorooctane	77.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	83.8	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Fax To: (575) 676-2401

Received: 08/12/2015 Sampling Date: 08/12/2015

Reported: 08/18/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH LATERAL 6" Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALJAMAR, NM

Sample ID: ARL #2 - NE WALL (H502097-02)

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	08/14/2015	ND	2.25	113	2.00	0.0430	
Toluene*	<0.050	0.050	08/14/2015	ND	2.15	107	2.00	0.127	
Ethylbenzene*	<0.050	0.050	08/14/2015	ND	2.34	117	2.00	0.668	
Total Xylenes*	<0.150	0.150	08/14/2015	ND	6.57	110	6.00	0.479	
Total BTEX	<0.300	0.300	08/14/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	08/17/2015	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	08/13/2015	ND	182	91.2	200	0.0636	
DRO >C10-C28	<10.0	10.0	08/13/2015	ND	194	97.2	200	0.823	
Surrogate: 1-Chlorooctane	76.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	86.2	% 52 1-17	6						

Surrogate: 1-Chlorooctadecane 86.2 % 52.1-176

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Fax To: (575) 676-2401

Received: 08/12/2015 Sampling Date: 08/12/2015

Reported: 08/18/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH LATERAL 6" Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: MALJAMAR, NM

Sample ID: ARL #3 - SE FLOOR (H502097-03)

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	08/14/2015	ND	2.25	113	2.00	0.0430	
Toluene*	<0.050	0.050	08/14/2015	ND	2.15	107	2.00	0.127	
Ethylbenzene*	<0.050	0.050	08/14/2015	ND	2.34	117	2.00	0.668	
Total Xylenes*	<0.150	0.150	08/14/2015	ND	6.57	110	6.00	0.479	
Total BTEX	<0.300	0.300	08/14/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 85.6-13	7						
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	08/17/2015	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	08/13/2015	ND	182	91.2	200	0.0636	
DRO >C10-C28	<10.0	10.0	08/13/2015	ND	194	97.2	200	0.823	
Surrogate: 1-Chlorooctane	73.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	75.6	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Fax To: (575) 676-2401

Received: 08/12/2015 Sampling Date: 08/12/2015

Reported: 08/18/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH LATERAL 6" Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALJAMAR, NM

Sample ID: ARL #4 - NE FLOOR (H502097-04)

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	08/14/2015	ND	2.25	113	2.00	0.0430	
Toluene*	<0.050	0.050	08/14/2015	ND	2.15	107	2.00	0.127	
Ethylbenzene*	<0.050	0.050	08/14/2015	ND	2.34	117	2.00	0.668	
Total Xylenes*	<0.150	0.150	08/14/2015	ND	6.57	110	6.00	0.479	
Total BTEX	<0.300	0.300	08/14/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 85.6-13	7						
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	08/17/2015	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	08/13/2015	ND	182	91.2	200	0.0636	
DRO >C10-C28	<10.0	10.0	08/13/2015	ND	194	97.2	200	0.823	
Surrogate: 1-Chlorooctane	76.8 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	84.5	52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Fax To: (575) 676-2401

Received: 08/12/2015 Sampling Date: 08/12/2015

Reported: 08/18/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH LATERAL 6" Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALJAMAR, NM

Sample ID: ARL #5 - SW FLOOR (H502097-05)

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	08/14/2015	ND	2.25	113	2.00	0.0430	
Toluene*	< 0.050	0.050	08/14/2015	ND	2.15	107	2.00	0.127	
Ethylbenzene*	< 0.050	0.050	08/14/2015	ND	2.34	117	2.00	0.668	
Total Xylenes*	<0.150	0.150	08/14/2015	ND	6.57	110	6.00	0.479	
Total BTEX	<0.300	0.300	08/14/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	% 85.6-13	7						
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	08/17/2015	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	08/13/2015	ND	182	91.2	200	0.0636	
DRO >C10-C28	30.6	10.0	08/13/2015	ND	194	97.2	200	0.823	
Surrogate: 1-Chlorooctane	81.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	79.9	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Fax To: (575) 676-2401

Received: 08/12/2015 Sampling Date: 08/12/2015

Reported: 08/18/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH LATERAL 6" Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALJAMAR, NM

Sample ID: ARL #6 - NW FLOOR (H502097-06)

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	08/14/2015	ND	2.25	113	2.00	0.0430	
Toluene*	<0.050	0.050	08/14/2015	ND	2.15	107	2.00	0.127	
Ethylbenzene*	<0.050	0.050	08/14/2015	ND	2.34	117	2.00	0.668	
Total Xylenes*	<0.150	0.150	08/14/2015	ND	6.57	110	6.00	0.479	
Total BTEX	<0.300	0.300	08/14/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 85.6-13	7						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/13/2015	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	08/13/2015	ND	182	91.2	200	0.0636	
DRO >C10-C28	<10.0	10.0	08/13/2015	ND	194	97.2	200	0.823	
Surrogate: 1-Chlorooctane	75.0 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	83.4	52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Fax To: (575) 676-2401

Received: 08/12/2015 Sampling Date: 08/12/2015

Reported: 08/18/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH LATERAL 6" Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALJAMAR, NM

Sample ID: ARL #7 - SW WALL (H502097-07)

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	08/14/2015	ND	2.25	113	2.00	0.0430	
Toluene*	<0.050	0.050	08/14/2015	ND	2.15	107	2.00	0.127	
Ethylbenzene*	<0.050	0.050	08/14/2015	ND	2.34	117	2.00	0.668	
Total Xylenes*	<0.150	0.150	08/14/2015	ND	6.57	110	6.00	0.479	
Total BTEX	<0.300	0.300	08/14/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 85.6-13	7						
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	08/13/2015	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	08/13/2015	ND	182	91.2	200	0.0636	
DRO >C10-C28	<10.0	10.0	08/13/2015	ND	194	97.2	200	0.823	
Surrogate: 1-Chlorooctane	71.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	79.6	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Fax To: (575) 676-2401

Received: 08/12/2015 Sampling Date: 08/12/2015

Reported: 08/18/2015 Sampling Type: Soil

Project Name: ANDERSON RANCH LATERAL 6" Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: MALJAMAR, NM

Sample ID: ARL #8 - NW WALL (H502097-08)

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	08/14/2015	ND	2.25	113	2.00	0.0430	
Toluene*	<0.050	0.050	08/14/2015	ND	2.15	107	2.00	0.127	
Ethylbenzene*	<0.050	0.050	08/14/2015	ND	2.34	117	2.00	0.668	
Total Xylenes*	<0.150	0.150	08/14/2015	ND	6.57	110	6.00	0.479	
Total BTEX	<0.300	0.300	08/14/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 85.6-13	7						
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	08/13/2015	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	08/13/2015	ND	182	91.2	200	0.0636	
DRO >C10-C28	<10.0	10.0	08/13/2015	ND	194	97.2	200	0.823	
Surrogate: 1-Chlorooctane	75.9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	84 4	% 52 1-17	6						

Surrogate: 1-Chlorooctadecane 84.4 % 52.1-176

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Manie.	Fra Lan Fill Consider	ML S	BILL 10		ANA	ANALYSIS REQUEST	
Project Manager:	T.		P.O. #:				
Address: 12	1201304 101		Company:				
City: Mal	State: NM	Zip:	Attn:				
Phone #: 57	- 5/3 · 4922 Fax#:		Address: Of				
Project #:	Project Owner:		City:				
Project Name:	Anderson Ranch heterel & le	"	State: Zip:				
Project Location:	": Malianes NM		Phone #:				
Sampler Name:	Lake Excelent	*	Fax #:				
FOR LAB USE ONLY	(MATRIX	PRESERV. SAMPLING	NG			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TPH	BTEX Chlorides		
_	MRL 41 - 58 Wall	4	1 8.12.15	66:55 4	6 10		
N	ARL#2 NE Wall	\$ ·	>	D6:50	*		
W	HRL +3 SEFloor	-		07:00 t	8		
4	ARL # 4 NEFLOOR	4	-6	67:03 2	8		
S	ARL & S SW Floor	6		20:05	2 2		
6	ARL # 6 NW Floor	6.	-6	07:07 &	4		
٧	ARLET SW Wall	4		07:05 &	A D		
0.	ARI # 8 NOW Wall	4	4 8.12.15	07:11	k		
9			20 20 20 20 20 20 20 20 20 20 20 20 20 2				
						750	
PLEASE NOTE: Liability an analyses. All claims including	PLEASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	any claim arising whether based in contract deemed waived unless made in writing and	t or tort, shall be limited to the amount pail of received by Cardinal within 30 days after	id by the client for the er completion of the applicable			

Sampler - UPS - Bus - Other: Delivered By: (Circle One) Sample Condition CHECKER BY: (Invitable) Cool Infract (Invitable) H ves Tves	Relinquished By: Time: Received By: Received By: Received By: Received By: Time:	affiliates or successors arising out of our elated to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.
1000°	Phone Result: Yes No Add'I Phone #: Fax Result: Yes No Add'I Fax #: REMARKS: Company Compan	ve sialed reasons or otherwise.

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

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

Form C-141

Revised August 8, 2011

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

Release Notification and Corrective Action

			11010			OPERAT	ΓOR		- Initia	al Report		Final Report
Name of Co	ompany F	Frontier Fiel	d Service	es, LLC			hn Prentiss			<u> </u>		
				urango, CO 81	301	Telephone N	No. 575-676-3 :	528				
Facility Nat	me Ande	rson Ranch	8" Later	al	I	Facility Typ	e Condensate	trans	port line			
Surface Ow	ner Front	ier Field Ser	rvices, LI	LC Mineral O	wner				API No	. N/A		
				LOCA	TION	OF REI	LEASE					
Unit Letter 3656	Section 5	Township 17S	Range 32E	Feet from the	North/S	South Line	Feet from the	East/V	West Line	County	Lea	1
	1			itude <u>32.85607</u>	94 N	Longitudes	-103.7830705	w				
						OF RELI						
Type of Rele	ase Histo i	ric LOPC of c	condensate	e from buried pij	peline	Volume of 20bbl subs	Release Estima surface	ted		Recovered: > o-surface. Ex		
Source of Re		ric pinhole le	ak discove	ered in buried he	eavy	Date and Hour of Occurrence Historic Date and Hour of Discovery 6/01/2015						
Was Immedi			Yes 🗌	No 🗌 Not Re	equired	If YES, To Whom?						
By Whom? I	Harley Eve	rhart					Iour 6/1/15 @10:					
Was a Water	course Read		Yes 🖂	No		If YES, Vo N/A	olume Impacting t	the Wat	ercourse.			
If a Watercou	urse was Im	pacted, Descri	ibe Fully.*			L						-
	ise of Probl	em and Remed	dial Action	Taken.*								
				covered a historic			Anderson Ranch	Pipelin	e 8" Later	al. Frontier	estima	ited the
				e were no notific restore the integ			and numerous for t	the nem	adiation n	.00000		
				ion project was d							uinme	ent from
		diation area.	Temedian	on project was c	iciay ca (auc to sever	ar massive raime	4115 ***111	en prevent	eu neavy eq	шршс	nt ii oin
NMOC	D.	_	_	ocess, Frontier es							otifica	ations to
				to delineate and	remove	contaminat	ed soils to an OC	CD app	roved locat	ion.		
Once excava Benzene are	ntion has unbelow the	levels outline	pipeline, p d in "NM(en.* problem areas wi OCD Guidelines the area will be l	for Ren	nediation of	Leaks, Spills, an					
regulations a public health should their or or the enviro	ll operators or the envi operations h nment. In a	are required to ronment. The nave failed to a	o report an acceptance	is true and compl d/or file certain re e of a C-141 repo investigate and re tance of a C-141 r	elease no ort by the emediate	otifications and NMOCD metal	nd perform correct arked as "Final R on that pose a thr	ctive act eport" of eat to gr	ions for relo loes not reli round water	eases which neve the operation, surface wat	may en ator of ter, hu	ndanger f liability man health
							OIL CON	<u>SERV</u>	ATION	DIVISIO	<u>N</u>	
Signature:												
Printed Name	e: Harley l	Everhart			A	Approved by	Environmental S	pecialis	t:			
Title: EHS	<u> Fech</u> nician	<u>III_</u>			l A	Approval Dat	e:		Expiration	Date:		
E-mail Addre	ess: heverl	nart@akaenei	rgy.com			Conditions of	Approval:			Attached		
Date: 06/01/	2015		Phon	e: 575.513.4922								

^{*} Attach Additional Sheets If Necessary

Jones, Kellie, EMNRD To: "Everhart, Harley"

Cc:

Busch, Greg: Calderon, Joe; Keyes, Jamie, EMNRD
RE: C-141, Unit Letter 3656_AR6 Lateral_ Closure Approval_9.30.15 Subject:

Wednesday, September 30, 2015 3:44:00 PM Date:

Harley,

Per our earlier phone conversation, the site needs to be further delineated at the SE wall. We are looking for a vertical delineation value of 250 ppm chloride. In addition, please review the groundwater depth at the site.

If you have any questions, please feel free to contact me.

Thank you.

Kellie Jones Environmental Specialist, District 1 Oil Conservation Division, EMNRD 575-393-6161 ext. 111 575-370-3180 (emergency-cell) E-Mail: kellie.jones@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Everhart, Harley [mailto:heverhart@akaenergy.com]

Sent: Wednesday, September 30, 2015 12:39 PM

To: Jones, Kellie, EMNRD Cc: Busch, Greg; Calderon, Joe

Subject: RE: C-141, Unit Letter 3656_AR6 Lateral_ Closure Approval_9.30.15

Importance: High

Hello Kellie

Reference: C-141, Unit Letter 3656

Attached are the sample locations and lab results. I did send this information to Randal Pair with BLM, who gave us the approval to lay a 20 mill plastic liner if NMOCD also approves. This remediation is ~20 feet deep now and the distribution line has been taken out of service according to our pipeline foreman, Joe Calderon.

I look forward to hearing from you soon;

Respectfully,

EH&S Compliance

(575) 677-5140 - Direct

Harley Everhart

(575) 513-4922 - Cell

(575) 676-2401 - Fax

heverhart@akaenergy.com



CONFIDENTIALITY NOTICE:

This email, including attachments, may include confidential and/or proprietary information, and may be used only by the person or entity to which it is addressed. Please do not read, copy or disseminate this communication unless you are the intended addressee. If you have received this communication in error, please permanently delete and call (575) 677-5140 immediately and ask to speak to the sender of this communication. Also, please notify immediately via email that you have received this message in error.

From: Jones, Kellie, EMNRD [mailto:Kellie.Jones@state.nm.us]

Sent: Monday, June 01, 2015 3:40 PM

To: Everhart, Harley < heverhart@akaenergy.com > **Cc:** Busch, Greg < gbusch@akaenergy.com >

Subject: RE: Initial_C-141 Notification for Anderson Ranch 8" Lateral Section 5_6.1.15

Harley,

See below for your recent submittal.

			Frontier Field				
3656	6/1/2015	Ini c-141	Services	Anderson Ranch 8" Lateral	17S 32E 5	NA	historic

If you have any questions, please feel free to contact me.

Have a great day!

Kellie Jones Environmental Specialist, District 1 Oil Conservation Division, EMNRD (575) 393-6161 ext. 111 575-370-3180 (emergency-cell) E-Mail: kellie.jones@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

Please note:

- $The \ OCD \ is \ no \ longer \ granting \ "risk-based," \ or \ standard \ closure \ of \ events/RPs \ with \ remediation \ deferred \ to \ site \ abandonment/sale/closure.$
- The RP will remain open until such time as historic contamination is addressed.
- -Photographic documentation is stipulated for all events involving liquids.

If you have any questions or concerns, and for notification, please contact me.

From: Everhart, Harley [mailto:heverhart@akaenergy.com]

Sent: Monday, June 01, 2015 11:36 AM

To: Jones, Kellie, EMNRD

Cc: Busch, Greg

Subject: Initial_C-141 Notification for Anderson Ranch 8" Lateral Section 5_6.1.15

Hello Kelly Jones

Attached is an Initial C-141 Notification for Anderson Ranch 8" Lateral Section 5. Should you have any questions please feel free to contact me anytime.

Respectfully,

EH&S Compliance

(575) 677-5140 - Direct

Harley Everhart

(575) 513-4922 - Cell

(575) 676-2401 - Fax



CONFIDENTIALITY NOTICE:
This email, including attachments, may include confidential and/or proprietary information, and may be used only by the person or entity to which it is addressed. Please do not read, copy or disseminate this communication unless you are the intended addressee. If you have received this communication in error, please permanently delete and call (575) 677-5140 immediately and ask to speak to the sender of this communication. Also, please notify immediately via email that you have received this message in error.