

October 26, 2016

MIKE STUBBLEFIELD R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: ASAU 149 TRUNK LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/25/16 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS MIKE STUBBLEFIELD 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	10/25/2016	Sampling Date:	10/24/2016
Reported:	10/26/2016	Sampling Type:	Soil
Project Name:	ASAU 149 TRUNK LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	30.015.00204	Sample Received By:	Jodi Henson
Project Location:	UTO SEC. 14-T18S-R26E		

Sample ID: S-7 NORTH WALL (H602387-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Analyte Result		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	10/25/2016	ND	416	104	400	0.00	

Sample ID: S-8 WEST WALL (H602387-02)

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 26.7 10.0		10/26/2016	ND	197	98.3	200	3.72	
DRO >C10-C28			10/26/2016	ND	213	107	200	5.60	
Surrogate: 1-Chlorooctane	97.4	% 35-147							
Surrogate: 1-Chlorooctadecane	Ŭ								

Sample ID: S-9 SOUTH WALL (H602387-03)

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	10/26/2016	ND	197	98.3	200	3.72	
DRO >C10-C28	<10.0 10.0		10/26/2016	ND	213	107	200	5.60	
Surrogate: 1-Chlorooctane	82.3 9	% 35-147	35-147						
Surrogate: 1-Chlorooctadecane	98.5 9	28-171							

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*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS MIKE STUBBLEFIELD 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	10/25/2016	Sampling Date:	10/24/2016
Reported:	10/26/2016	Sampling Type:	Soil
Project Name:	ASAU 149 TRUNK LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	30.015.00204	Sample Received By:	Jodi Henson
Project Location:	UTO SEC. 14-T18S-R26E		

Sample ID: S-10 B-14' N. DEP PIPELINE (H602387-04)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2016	ND	1.82	90.9	2.00	0.937	
Toluene*	<0.050	0.050	10/25/2016	ND	2.18	109	2.00	1.70	
Ethylbenzene*	0.050	0.050	10/25/2016	ND	2.26	113	2.00	1.31	
Total Xylenes*	<0.150	0.150	10/25/2016	ND	6.90	115	6.00	1.38	
Total BTEX	<0.300	0.300	10/25/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	10/25/2016 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	10/26/2016	ND	197	98.3	200	3.72	
DRO >C10-C28	<10.0 10.0		10/26/2016 ND		213	107	200	5.60	
Surrogate: 1-Chlorooctane	83.0	% 35-147							
Surrogate: 1-Chlorooctadecane	100 9	% 28-171							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

R T HICKS CONSULTANTS MIKE STUBBLEFIELD 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	10/25/2016	Sampling Date:	10/24/2016
Reported:	10/26/2016	Sampling Type:	Soil
Project Name:	ASAU 149 TRUNK LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	30.015.00204	Sample Received By:	Jodi Henson
Project Location:	UTO SEC. 14-T18S-R26E		

Sample ID: S-11 B-15' S. DEP PIPELINE (H602387-05)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2016	ND	1.82	90.9	2.00	0.937	
Toluene*	<0.050	0.050	10/25/2016	ND	2.18	109	2.00	1.70	
Ethylbenzene*	<0.050	0.050	10/25/2016	ND	2.26	113	2.00	1.31	
Total Xylenes*	<0.150	0.150	10/25/2016	ND	6.90	115	6.00	1.38	
Total BTEX	<0.300	0.300	10/25/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/25/2016 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	10/26/2016	ND	197	98.3	200	3.72	
DRO >C10-C28	57.3	10.0	10/26/2016	ND	213	107	200	5.60	
Surrogate: 1-Chlorooctane	106 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	118 9	28-171							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Time:	Date: Received By:	TIME O ADA JUNSON REMARKS:	arriades or successons asing our of or related to the performance of services hereunder, by Cardinal repardless of whether such claim is based upon any of the above stated reasons or contents of the Phone Result : Yes No Add'I Phone #: Relinquished By: Date 7 Content Phone Result: Yes No Add'I Fax #:	PLEASE NOTE: Liability and Damages. Cardinal's lability and clent's exclusive endow for any summary or event withing and received by Cardinal's within 30 days after completion of the applicable analyses. All claims including those for negligence and any horizonter consecuential damages, including without installator, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	and a state of a state of the s			S-10 B 14 N. dep priper 61 / 10 B 14 N. 20	S-9 South wall in the state of	S-8 West wall a grant of the second s	S-7 North wall &	G)RA GOIL DIL SLUE DIL DIL DIL DIL DIL DIL DIL DIL DIL DIL	AB (NTA UNI TEV DGE ER	AINE DWA WATE E SSE: DOL :	Ch	MATRIX PRESERV. SAMPLING	may Studdfuld Fax #:	on: Ut 0 Sec. 14 - T185 - R26E Phone #: 5 00	ame: ASAU 149 Trunk line iclose State: Zip:	Phone #: 575.365.503 V Fax #: Address:	city: Artesia State: N.M. Zip: 88210 Attn: Mike Barnett	Address: Z411 5. 1874 STILL Company: Line Mode Her.	Stubshefield	(575) 393-2326 FAX (575) 393-2476
	HI		Phone #: Fax #:				· · · · · · · · · · · · · · · · · · ·								/									

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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 363-2326

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