



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

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

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		Analyzed By: AC					
Analyte	Result	Reporting Limit	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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/26/2016	ND	197	98.3	200	3.72	
DRO >C10-C28	26.7	10.0	10/26/2016	ND	213	107	200	5.60	

Surrogate: 1-Chlorooctane 97.4 % 35-147

Surrogate: 1-Chlorooctadecane 114 % 28-171

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/26/2016	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 % 35-147

Surrogate: 1-Chlorooctadecane 98.5 % 28-171

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*=Accredited Analyte

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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
Reported: 10/26/2016
Project Name: ASAU 149 TRUNK LINE RELEASE
Project Number: 30.015.00204
Project Location: UTO SEC. 14-T18S-R26E

Sampling Date: 10/24/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	10/25/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/26/2016	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 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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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)

BTX 8021B		mg/kg		Analyzed 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 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/26/2016	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 % 35-147

Surrogate: 1-Chlorooctadecane 118 % 28-171

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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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Celey D. Keene, Lab Director/Quality Manager

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

Company Name: R.T. Hicks Consultants		P.O. #:		BILL TO												
Project Manager: Mike Stobbe Field		Company: Lime Rock Bk.		ANALYSIS REQUEST												
Address: 2411 S. 15th Street		Attn: Mike Barnett														
City: Artesia		Address:														
Phone #: 575-365-5034		City:														
Fax #: 575-365-5034		State:														
Project #: ASAPU 149 Trunk line release		Zip:														
Project Name: ASAPU 149 Trunk line release		Phone #:														
Project Location: US-10 sec. 14 - T185-R26E		Fax #:														
Sampler Name: Mike Stobbe Field																
FOR LAB USE ONLY																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING							
		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME				
HW02387																
	1 5-7 North wall										10/24/16	2:24P	Total chloride			
	2 5-8 West wall										10/24/16	2:36P	BTEX 8020B			
	3 5-9 South wall										10/24/16	2:40P	TPH 8015M			
	4 5-10B 14' N. deep pipeline										10/24/16	2:50P				
	5 5-11 B-15' S. deep pipeline										10/24/16	4:12P				
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Relinquished By: Mike Stobbe Field		Received By: Don Henderson		Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #: Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #: REMARKS: RUSH!!												
Delivered By: (Circle One) Other		Sample Condition		CHECKED BY: ASH												
Sampler - UPS - Bus - Other		Cool ☒ Intact ☒														
		Yes ☒ No ☒														