

September 22, 2016

RANDALL HICKS

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: ASAU TRUNK LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/21/16 12:30.

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
 RANDALL HICKS
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	09/21/2016	Sampling Date:	09/20/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ASAU TRUNK LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: S 1 - 12' DEEP (H602118-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2016	ND	2.24	112	2.00	0.900	
Toluene*	<0.050	0.050	09/21/2016	ND	2.28	114	2.00	1.29	
Ethylbenzene*	<0.050	0.050	09/21/2016	ND	2.20	110	2.00	1.49	
Total Xylenes*	<0.150	0.150	09/21/2016	ND	6.68	111	6.00	1.74	
Total BTEX	<0.300	0.300	09/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/22/2016	ND	432	108	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	09/21/2016	ND	196	98.2	200	2.00	
DRO >C10-C28	14.7	10.0	09/21/2016	ND	204	102	200	0.832	
EXT DRO >C28-C35	10.2	10.0	09/21/2016	ND					

Surrogate: 1-Chlorooctane 78.7 % 35-147

Surrogate: 1-Chlorooctadecane 90.1 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 RANDALL HICKS
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	09/21/2016	Sampling Date:	09/20/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ASAU TRUNK LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: S 2 - 15' DEEP (H602118-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	25.3	2.00	09/22/2016	ND	2.24	112	2.00	0.900	
Toluene*	133	2.00	09/22/2016	ND	2.28	114	2.00	1.29	
Ethylbenzene*	103	2.00	09/22/2016	ND	2.20	110	2.00	1.49	
Total Xylenes*	242	6.00	09/22/2016	ND	6.68	111	6.00	1.74	
Total BTEX	503	12.0	09/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/22/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2750	100	09/21/2016	ND	196	98.2	200	2.00		
DRO >C10-C28	8130	100	09/21/2016	ND	204	102	200	0.832		
EXT DRO >C28-C35	1020	100	09/21/2016	ND						

Surrogate: 1-Chlorooctane 179 % 35-147

Surrogate: 1-Chlorooctadecane 210 % 28-171

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Analytical Results For:

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

Received:	09/21/2016	Sampling Date:	09/20/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ASAU TRUNK LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: S 3 - N SIDEWALL 6' BGS (H602118-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2016	ND	2.24	112	2.00	0.900	
Toluene*	0.060	0.050	09/21/2016	ND	2.28	114	2.00	1.29	
Ethylbenzene*	0.067	0.050	09/21/2016	ND	2.20	110	2.00	1.49	
Total Xylenes*	0.163	0.150	09/21/2016	ND	6.68	111	6.00	1.74	
Total BTEX	<0.300	0.300	09/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/22/2016	ND	432	108	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	09/21/2016	ND	196	98.2	200	2.00	
DRO >C10-C28	<10.0	10.0	09/21/2016	ND	204	102	200	0.832	
EXT DRO >C28-C35	<10.0	10.0	09/21/2016	ND					

Surrogate: 1-Chlorooctane 72.7 % 35-147

Surrogate: 1-Chlorooctadecane 82.0 % 28-171

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 RANDALL HICKS
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	09/21/2016	Sampling Date:	09/20/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ASAU TRUNK LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: S 4 - 15' (H602118-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	75.7	2.00	09/22/2016	ND	2.24	112	2.00	0.900		
Toluene*	247	2.00	09/22/2016	ND	2.28	114	2.00	1.29		
Ethylbenzene*	149	2.00	09/22/2016	ND	2.20	110	2.00	1.49		
Total Xylenes*	341	6.00	09/22/2016	ND	6.68	111	6.00	1.74		
Total BTEX	812	12.0	09/22/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/22/2016	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	5310	100	09/21/2016	ND	196	98.2	200	2.00			
DRO >C10-C28	11000	100	09/21/2016	ND	204	102	200	0.832			
EXT DRO >C28-C35	1440	100	09/21/2016	ND							

Surrogate: 1-Chlorooctane 200 % 35-147

Surrogate: 1-Chlorooctadecane 286 % 28-171

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 RANDALL HICKS
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	09/21/2016	Sampling Date:	09/20/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ASAU TRUNK LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: S 5 - E SIDEWALL 6' (H602118-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.104	0.050	09/22/2016	ND	2.24	112	2.00	0.900	
Toluene*	0.170	0.050	09/22/2016	ND	2.28	114	2.00	1.29	
Ethylbenzene*	0.072	0.050	09/22/2016	ND	2.20	110	2.00	1.49	
Total Xylenes*	<0.150	0.150	09/22/2016	ND	6.68	111	6.00	1.74	
Total BTEX	0.346	0.300	09/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	09/22/2016	ND	432	108	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	09/21/2016	ND	196	98.2	200	2.00	
DRO >C10-C28	<10.0	10.0	09/21/2016	ND	204	102	200	0.832	
EXT DRO >C28-C35	<10.0	10.0	09/21/2016	ND					

Surrogate: 1-Chlorooctane 75.5 % 35-147

Surrogate: 1-Chlorooctadecane 88.0 % 28-171

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Analytical Results For:

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

Received:	09/21/2016	Sampling Date:	09/20/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ASAU TRUNK LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: S 6 - 5' BGS @ LEAK (H602118-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	192	2.00	09/22/2016	ND	2.24	112	2.00	0.900	
Toluene*	493	2.00	09/22/2016	ND	2.28	114	2.00	1.29	
Ethylbenzene*	268	2.00	09/22/2016	ND	2.20	110	2.00	1.49	
Total Xylenes*	601	6.00	09/22/2016	ND	6.68	111	6.00	1.74	
Total BTEX	1550	12.0	09/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	09/22/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	14400	100	09/21/2016	ND	196	98.2	200	2.00		
DRO >C10-C28	21600	100	09/21/2016	ND	204	102	200	0.832		
EXT DRO >C28-C35	2900	100	09/21/2016	ND						

Surrogate: 1-Chlorooctane 364 % 35-147

Surrogate: 1-Chlorooctadecane 571 % 28-171

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

Received:	09/21/2016	Sampling Date:	09/20/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ASAU TRUNK LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: S 7 - 7' BGS @ LEAK (H602118-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	43.2	2.00	09/22/2016	ND	2.24	112	2.00	0.900	
Toluene*	153	2.00	09/22/2016	ND	2.28	114	2.00	1.29	
Ethylbenzene*	104	2.00	09/22/2016	ND	2.20	110	2.00	1.49	
Total Xylenes*	242	6.00	09/22/2016	ND	6.68	111	6.00	1.74	
Total BTEX	542	12.0	09/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	09/22/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3900	100	09/21/2016	ND	196	98.2	200	2.00		
DRO >C10-C28	8460	100	09/21/2016	ND	204	102	200	0.832		
EXT DRO >C28-C35	1260	100	09/21/2016	ND						

Surrogate: 1-Chlorooctane 180 % 35-147

Surrogate: 1-Chlorooctadecane 220 % 28-171

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 RANDALL HICKS
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received:	09/21/2016	Sampling Date:	09/20/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ASAU TRUNK LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: S 8 - 9' BGS @ LEAK (H602118-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	82.7	2.00	09/22/2016	ND	2.24	112	2.00	0.900	
Toluene*	247	2.00	09/22/2016	ND	2.28	114	2.00	1.29	
Ethylbenzene*	152	2.00	09/22/2016	ND	2.20	110	2.00	1.49	
Total Xylenes*	342	6.00	09/22/2016	ND	6.68	111	6.00	1.74	
Total BTEX	824	12.0	09/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	09/22/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	4290	100	09/21/2016	ND	196	98.2	200	2.00		
DRO >C10-C28	9520	100	09/21/2016	ND	204	102	200	0.832		
EXT DRO >C28-C35	1350	100	09/21/2016	ND						

Surrogate: 1-Chlorooctane 185 % 35-147

Surrogate: 1-Chlorooctadecane 243 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/21/2016	Sampling Date:	09/20/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ASAU TRUNK LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: S 9 - 10' BGS @ LEAK (H602118-09)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	151	2.00	09/22/2016	ND	2.24	112	2.00	0.900		
Toluene*	435	2.00	09/22/2016	ND	2.28	114	2.00	1.29		
Ethylbenzene*	245	2.00	09/22/2016	ND	2.20	110	2.00	1.49		
Total Xylenes*	548	6.00	09/22/2016	ND	6.68	111	6.00	1.74		
Total BTEX	1380	12.0	09/22/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	09/22/2016	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	9470	100	09/21/2016	ND	196	98.2	200	2.00			
DRO >C10-C28	15000	100	09/21/2016	ND	204	102	200	0.832			
EXT DRO >C28-C35	2040	100	09/21/2016	ND							

Surrogate: 1-Chlorooctane 250 % 35-147

Surrogate: 1-Chlorooctadecane 372 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/21/2016	Sampling Date:	09/20/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ASAU TRUNK LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: S 10 - W SIDEWALL 6' (H602118-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	44.6	2.00	09/22/2016	ND	2.24	112	2.00	0.900	
Toluene*	198	2.00	09/22/2016	ND	2.28	114	2.00	1.29	
Ethylbenzene*	136	2.00	09/22/2016	ND	2.20	110	2.00	1.49	
Total Xylenes*	324	6.00	09/22/2016	ND	6.68	111	6.00	1.74	
Total BTEX	703	12.0	09/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	09/22/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	6300	100	09/21/2016	ND	196	98.2	200	2.00		
DRO >C10-C28	12800	100	09/21/2016	ND	204	102	200	0.832		
EXT DRO >C28-C35	1860	100	09/21/2016	ND						

Surrogate: 1-Chlorooctane 216 % 35-147

Surrogate: 1-Chlorooctadecane 330 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/21/2016	Sampling Date:	09/20/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ASAU TRUNK LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: S 11 - S SIDEWALL 6' (H602118-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.113	0.050	09/22/2016	ND	2.24	112	2.00	0.900		
Toluene*	0.219	0.050	09/22/2016	ND	2.28	114	2.00	1.29		
Ethylbenzene*	0.120	0.050	09/22/2016	ND	2.20	110	2.00	1.49		
Total Xylenes*	0.225	0.150	09/22/2016	ND	6.68	111	6.00	1.74		
Total BTEX	0.676	0.300	09/22/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	09/22/2016	ND	432	108	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	09/21/2016	ND	196	98.2	200	2.00		
DRO >C10-C28	<10.0	10.0	09/21/2016	ND	204	102	200	0.832		
EXT DRO >C28-C35	<10.0	10.0	09/21/2016	ND						

Surrogate: 1-Chlorooctane 77.3 % 35-147

Surrogate: 1-Chlorooctadecane 91.0 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/21/2016	Sampling Date:	09/20/2016
Reported:	09/22/2016	Sampling Type:	Soil
Project Name:	ASAU TRUNK LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	ARTESIA		

Sample ID: S 12- S TRENCH 10' (H602118-12)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.094	0.050	09/22/2016	ND	2.24	112	2.00	0.900		
Toluene*	0.211	0.050	09/22/2016	ND	2.28	114	2.00	1.29		
Ethylbenzene*	0.118	0.050	09/22/2016	ND	2.20	110	2.00	1.49		
Total Xylenes*	0.304	0.150	09/22/2016	ND	6.68	111	6.00	1.74		
Total BTEX	0.728	0.300	09/22/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/22/2016	ND	432	108	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	09/21/2016	ND	196	98.2	200	2.00		
DRO >C10-C28	85.4	10.0	09/21/2016	ND	204	102	200	0.832		
EXT DRO >C28-C35	13.3	10.0	09/21/2016	ND						

Surrogate: 1-Chlorooctane 71.2 % 35-147

Surrogate: 1-Chlorooctadecane 81.8 % 28-171

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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



Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Bill To Lime Rock ARTESIA

BILL TO

ANALYSIS REQUEST

Company Name: *R.T. Hicks* P.O. #: _____
 Project Manager: *RTH* Company: *Lime Rock*
 Address: *R@rthicksconsult.com* Address: _____
 City: _____ Attn: _____
 Phone #: *505-238-9515* Fax #: _____
 State: _____ Zip: _____
 Project #: _____ Project Owner: _____
 City: _____
 Project Name: *ARTESIA TRUNK LINE Release* State: _____ Zip: _____
 Project Location: *ARTESIA* Phone #: _____
 Sampler Name: *RT Hicks* Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH = GRO + DRO + MRD	BTEX	Chloride
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<i>H60218-</i>														
<i>01</i>	<i>S1-12' deep</i>								<i>9/20</i>	<i>1033</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>02</i>	<i>S2-15' deep</i>									<i>1123</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>03</i>	<i>S3-N Sidewalk 6' bgs</i>									<i>1141</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>04</i>	<i>S4-15'</i>									<i>1151</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>05</i>	<i>S5-E SIDEWALK 6'</i>									<i>1158</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>06</i>	<i>S6-5' bgs @ leak</i>									<i>1205</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>07</i>	<i>S7-7' bgs @ leak</i>									<i>1209</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>08</i>	<i>S8-9' bgs @ leak</i>									<i>1212</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>09</i>	<i>S9-10' bgs @ leak</i>									<i>1214</i>	<i>X</i>	<i>X</i>	<i>X</i>	

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Relinquished By: _____ Date: *9/21/06* Received By: *Shari Jensen*
 Time: *2:30*
 Relinquished By: _____ Date: _____ Received By: _____
 Time: _____

Delivered By: (Circle One) UPS Bus Other: _____
 Sample Condition: Cool Intact Yes No
 CHECKED BY: *[Signature]*
 Phone Result: Yes No No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: *RUST*
ETOWAR@limerockresources.com
MBennett@limerockresources.com
Mike@rthicksconsult.com



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

INVOICE TO TIME ROCK ARBIT

Company Name: R.T. Hicks		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: R.T. Hicks		Company:					
Address: R@rthicksconsult.com		Attn:					
City:		Address:					
Phone #: 505-238-9515		City:					
Fax #: 505-238-9515		State:					
Project #:		Zip:					
Project Name:		Phone #:					
Project Location:		Fax #:					
Sampler Name:		P.O. #:					
FOR LAB USE ONLY		Company:					
Lab I.D. Sample I.D.		Attn:					
H60218-		Address:					
10 S-10 W Sidewell 6'		City:					
11 S-11 S Sidewell 6'		State:					
12 S-12 Strand 10'		Zip:					
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