



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

October 24, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HAWK 8 #46 GAS LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/21/16 8:45.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 10/21/2016
Reported: 10/24/2016
Project Name: HAWK 8 #46 GAS LINE
Project Number: 701307.043.01
Project Location: NOT GIVEN

Sampling Date: 10/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 0' (H602372-01)

BTEX 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	10/22/2016	ND	1.97	98.6	2.00	0.183		
Toluene*	<0.050	0.050	10/22/2016	ND	2.27	113	2.00	0.467		
Ethylbenzene*	<0.050	0.050	10/22/2016	ND	2.30	115	2.00	0.236		
Total Xylenes*	<0.150	0.150	10/22/2016	ND	6.95	116	6.00	0.317		
Total BTEX	<0.300	0.300	10/22/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	768	16.0	10/21/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/21/2016	ND	179	89.4	200	6.99	
DRO >C10-C28	11.3	10.0	10/21/2016	ND	194	97.0	200	8.01	

Surrogate: 1-Chlorooctane 111 % 35-147

Surrogate: 1-Chlorooctadecane 128 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	10/21/2016	Sampling Date:	10/20/2016
Reported:	10/24/2016	Sampling Type:	Soil
Project Name:	HAWK 8 #46 GAS LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.043.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-2 0' (H602372-02)

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	10/24/2016	ND	1.97	98.6	2.00	0.183	
Toluene*	0.054	0.050	10/24/2016	ND	2.27	113	2.00	0.467	
Ethylbenzene*	0.050	0.050	10/24/2016	ND	2.30	115	2.00	0.236	
Total Xylenes*	<0.150	0.150	10/24/2016	ND	6.95	116	6.00	0.317	
Total BTX	<0.300	0.300	10/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	1250	16.0	10/21/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/21/2016	ND	179	89.4	200	6.99	
DRO >C10-C28	103	10.0	10/21/2016	ND	194	97.0	200	8.01	

Surrogate: 1-Chlorooctane 71.5 % 35-147

Surrogate: 1-Chlorooctadecane 70.4 % 28-171

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DAVID ADKINS
408 W. TEXAS AVE.
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Fax To: (575) 745-8905

Received:	10/21/2016	Sampling Date:	10/20/2016
Reported:	10/24/2016	Sampling Type:	Soil
Project Name:	HAWK 8 #46 GAS LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.043.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-2 1' REFUSAL (H602372-03)

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	10/22/2016	ND	1.97	98.6	2.00	0.183	
Toluene*	<0.050	0.050	10/22/2016	ND	2.27	113	2.00	0.467	
Ethylbenzene*	<0.050	0.050	10/22/2016	ND	2.30	115	2.00	0.236	
Total Xylenes*	<0.150	0.150	10/22/2016	ND	6.95	116	6.00	0.317	
Total BTX	<0.300	0.300	10/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	224	16.0	10/21/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/21/2016	ND	179	89.4	200	6.99	
DRO >C10-C28	65.1	10.0	10/21/2016	ND	194	97.0	200	8.01	

Surrogate: 1-Chlorooctane 109 % 35-147

Surrogate: 1-Chlorooctadecane 129 % 28-171

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DAVID ADKINS
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ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	10/21/2016	Sampling Date:	10/20/2016
Reported:	10/24/2016	Sampling Type:	Soil
Project Name:	HAWK 8 #46 GAS LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.043.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-3 0' (H602372-04)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	10/22/2016	ND	1.97	98.6	2.00	0.183	
Toluene*	<0.500	0.500	10/22/2016	ND	2.27	113	2.00	0.467	
Ethylbenzene*	2.43	0.500	10/22/2016	ND	2.30	115	2.00	0.236	
Total Xylenes*	10.1	1.50	10/22/2016	ND	6.95	116	6.00	0.317	
Total BTEX	12.6	3.00	10/22/2016	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	1920	16.0	10/21/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	753	100	10/21/2016	ND	179	89.4	200	6.99		
DRO >C10-C28	23800	100	10/21/2016	ND	194	97.0	200	8.01		

Surrogate: 1-Chlorooctane 199 % 35-147

Surrogate: 1-Chlorooctadecane 658 % 28-171

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TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 10/21/2016
Reported: 10/24/2016
Project Name: HAWK 8 #46 GAS LINE
Project Number: 701307.043.01
Project Location: NOT GIVEN

Sampling Date: 10/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 1' REFUSAL (H602372-05)

BTEx 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	10/22/2016	ND	1.97	98.6	2.00	0.183	
Toluene*	<0.050	0.050	10/22/2016	ND	2.27	113	2.00	0.467	
Ethylbenzene*	<0.050	0.050	10/22/2016	ND	2.30	115	2.00	0.236	
Total Xylenes*	<0.150	0.150	10/22/2016	ND	6.95	116	6.00	0.317	
Total BTEX	<0.300	0.300	10/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	240	16.0	10/21/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/21/2016	ND	179	89.4	200	6.99	
DRO >C10-C28	10.7	10.0	10/21/2016	ND	194	97.0	200	8.01	

Surrogate: 1-Chlorooctane 96.8 % 35-147

Surrogate: 1-Chlorooctadecane 112 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	10/21/2016	Sampling Date:	10/20/2016
Reported:	10/24/2016	Sampling Type:	Soil
Project Name:	HAWK 8 #46 GAS LINE	Sampling Condition:	Cool & Intact
Project Number:	701307.043.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-4 0' (H602372-06)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.99	2.00	10/22/2016	ND	1.97	98.6	2.00	0.183	
Toluene*	41.5	2.00	10/22/2016	ND	2.27	113	2.00	0.467	
Ethylbenzene*	47.7	2.00	10/22/2016	ND	2.30	115	2.00	0.236	
Total Xylenes*	104	6.00	10/22/2016	ND	6.95	116	6.00	0.317	
Total BTEX	198	12.0	10/22/2016	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	2800	16.0	10/21/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2640	100	10/21/2016	ND	179	89.4	200	6.99		
DRO >C10-C28	25000	100	10/21/2016	ND	194	97.0	200	8.01		

Surrogate: 1-Chlorooctane 190 % 35-147

Surrogate: 1-Chlorooctadecane 729 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 10/21/2016
Reported: 10/24/2016
Project Name: HAWK 8 #46 GAS LINE
Project Number: 701307.043.01
Project Location: NOT GIVEN

Sampling Date: 10/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 1' (H602372-07)

BTEx 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	10/24/2016	ND	1.97	98.6	2.00	0.183		
Toluene*	0.079	0.050	10/24/2016	ND	2.27	113	2.00	0.467		
Ethylbenzene*	<0.050	0.050	10/24/2016	ND	2.30	115	2.00	0.236		
Total Xylenes*	<0.150	0.150	10/24/2016	ND	6.95	116	6.00	0.317		
Total BTEx	<0.300	0.300	10/24/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	496	16.0	10/21/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/21/2016	ND	179	89.4	200	6.99	
DRO >C10-C28	<10.0	10.0	10/21/2016	ND	194	97.0	200	8.01	

Surrogate: 1-Chlorooctane 104 % 35-147

Surrogate: 1-Chlorooctadecane 94.1 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 10/21/2016
Reported: 10/24/2016
Project Name: HAWK 8 #46 GAS LINE
Project Number: 701307.043.01
Project Location: NOT GIVEN

Sampling Date: 10/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 2' REFUSAL (H602372-08)

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	10/22/2016	ND	1.97	98.6	2.00	0.183		
Toluene*	<0.050	0.050	10/22/2016	ND	2.27	113	2.00	0.467		
Ethylbenzene*	<0.050	0.050	10/22/2016	ND	2.30	115	2.00	0.236		
Total Xylenes*	<0.150	0.150	10/22/2016	ND	6.95	116	6.00	0.317		
Total BTX	<0.300	0.300	10/22/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	<16.0	16.0	10/21/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/21/2016	ND	179	89.4	200	6.99	
DRO >C10-C28	<10.0	10.0	10/21/2016	ND	194	97.0	200	8.01	

Surrogate: 1-Chlorooctane 91.7 % 35-147

Surrogate: 1-Chlorooctadecane 97.5 % 28-171

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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.
- 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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Talon/LPE Project Manager: D. Adams Address: 408 W. Texas Ave. City: Artesia Phone #: 575-746-8768 Fax #: 575-746-8905 Project #: 20130709301 Project Owner: Line Rock Project Name: Halk 8 #46 Gas Line Project Location: Sampler Name: S. Hitchcock FOR LAB USE ONLY				P.O. #: Company: Talon/LPE Attn: Address: City: State: Zip: Phone #: Fax #:			
Lab I.D. Sample I.D.				BILL TO			
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 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.				ANALYSIS REQUEST			
Relinquished By: <i>Shirley Price</i> Date: 10/21/16 Time: 8:45 Received By: <i>Shirley Price</i> Date: 10/21/16 Time: 8:45 Delivered By: (Circle One) <i>1.70c</i> Sampler - UPS - Bus - Other: <i>1.70c</i> Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Checked By: <i>[Signature]</i> REMARKS: <i>Rush</i>				Matrix: (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER : <input type="checkbox"/> ACID/BASE: <input type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER : <input type="checkbox"/>			
DATE TIME				TPH BTEX Chlorides			
1 5-10' 10/21/16 3:00 2 5-20' 10/21/16 3:10 3 5-21' refusal 10/21/16 3:40 4 5-30' 10/21/16 4:00 5 5-31' refusal 10/21/16 4:20 6 5-40' 10/21/16 4:40 7 5-41' 10/21/16 5:00 8 5-42' refusal 10/21/16 5:30							