

April 19, 2017

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WEST RED LAKE UNIT #56

Enclosed are the results of analyses for samples received by the laboratory on 04/18/17 16:35.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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:**

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

Received: 04/18/2017 Reported: 04/19/2017

Project Name: WEST RED LAKE UNIT #56

Project Number: 701307.098.01

Project Location: K-7-18S-27E

Sampling Date: 04/17/2017

Sampling Type: Water

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: W-1 (H701027-01)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	04/19/2017	ND	0.020	98.1	0.0200	2.17	
Toluene*	<0.001	0.001	04/19/2017	ND	0.020	98.6	0.0200	1.97	
Ethylbenzene*	<0.001	0.001	04/19/2017	ND	0.021	106	0.0200	2.33	
Total Xylenes*	<0.003	0.003	04/19/2017	ND	0.061	102	0.0600	2.07	
Total BTEX	<0.006	0.006	04/19/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0 %	6 72-148							
Chloride, SM4500CI-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1720	4.00	04/19/2017	ND	100	100	100	3.92	
TPH 8015M	mg/	L	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	04/19/2017	ND	51.6	103	50.0	4.73	
DRO >C10-C28	<1.00	1.00	04/19/2017	ND	58.9	118	50.0	0.209	
Surrogate: 1-Chlorooctane	143 %	6 37.1-13	8						
Surrogate: 1-Chlorooctadecane	148 %	6 44.6-15	1						

# Cardinal Laboratories \*=Accredited Analyte

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Celey D. Kreine



# Analytical Results For:

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

Received: 04/18/2017 Reported: 04/19/2017

Project Name: WEST RED LAKE UNIT #56

Project Number: 701307.098.01

Project Location: K-7-18S-27E

Sampling Date: 04/17/2017 Sampling Type: Water

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: W-2 (H701027-02)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	04/19/2017	ND	0.020	98.1	0.0200	2.17	
Toluene*	< 0.001	0.001	04/19/2017	ND	0.020	98.6	0.0200	1.97	
Ethylbenzene*	< 0.001	0.001	04/19/2017	ND	0.021	106	0.0200	2.33	
Total Xylenes*	<0.003	0.003	04/19/2017	ND	0.061	102	0.0600	2.07	
Total BTEX	<0.006	0.006	04/19/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0 %	72-148							
Chloride, SM4500CI-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1760	4.00	04/19/2017	ND	100	100	100	3.92	
TPH 8015M	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	04/19/2017	ND	51.6	103	50.0	4.73	
DRO >C10-C28	<1.00	1.00	04/19/2017	ND	58.9	118	50.0	0.209	
Surrogate: 1-Chlorooctane	124 %	6 37.1-13	8						
Surrogate: 1-Chlorooctadecane	130 %	6 44.6-15.	1						

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# Analytical Results For:

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

Received: 04/18/2017 Reported: 04/19/2017

Project Name: WEST RED LAKE UNIT #56

Project Number: 701307.098.01

Project Location: K-7-18S-27E

Sampling Date: 04/17/2017 Sampling Type: Water

Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

## Sample ID: W-3 (H701027-03)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	04/19/2017	ND	0.020	98.1	0.0200	2.17	
Toluene*	< 0.001	0.001	04/19/2017	ND	0.020	98.6	0.0200	1.97	
Ethylbenzene*	< 0.001	0.001	04/19/2017	ND	0.021	106	0.0200	2.33	
Total Xylenes*	<0.003	0.003	04/19/2017	ND	0.061	102	0.0600	2.07	
Total BTEX	<0.006	0.006	04/19/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8 9	6 72-148							
Chloride, SM4500CI-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1640	4.00	04/19/2017	ND	100	100	100	3.92	
TPH 8015M	mg/	L	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	04/19/2017	ND	51.6	103	50.0	4.73	
DRO >C10-C28	<1.00	1.00	04/19/2017	ND	58.9	118	50.0	0.209	
Surrogate: 1-Chlorooctane	139 %	6 37.1-13	8						
Surrogate: 1-Chlorooctadecane	145 %	6 44.6-15	1						

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Celey D. Keine



### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.

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. Keine



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Maille: 1 alon/LPE		BILL TO	ANALYSIS REQUEST
Project Manager: う、片汁しいしてん		P.O. #:	
Address: 408 W. Texas Ave.		Company: Talon/LPE	
City: Artesia state: NM	Zip: 88210	Attn:	
Phone #: 575-746-8768 Fax #: 575-746-8905	46-8905	Address:	
Project #: 70/307,098,0 Project Owner	Project Owner: Lime Rock	City:	
Project Name: Wob+ Red Lan Whit # 56	0	State: Zip:	
Project Location: $K - 7 - 185 - 27E$		Phone #:	
Sampler Name: 5, 47+ch cock		Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
	ATER		ides
4701027	(G)RAB # CONTA GROUN WASTEN SOIL OIL SLUDGE		TPH BTG Chla
1 W-(	4		
2 W-2	G 4	1 / 4/17/17 3:46	
3 V-3	G 4	1 / 4/17/17 4:00	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort shall be imited to the amount rould by the client for the	v claim arising whether based in contract	t or fort shall be limited to the amount naid 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	eemed waived unless made in writing an	Id received by Cardinal within 30 days after completion of the	applicable

4.90

Sample Condition
Cool Intact
Wes Wyes
No No

70. H75

CHECKED BY:

Rush

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Refinquished By:

Date: 18-17

Received By:

unara (

Relinquished By:

Date:
Time:

Received By:

loss of use, or loss of profits incurred by client, its subsidiarie

Phone Result:
Fax Result:
REMARKS:

☐ Yes

O No

Add'l Phone #: Add'l Fax #:

<sup>+</sup> Cardinal rannot arrent verhal rhannee Pleace fav written rhannec to (676) 202\_2226