

January 13, 2016

KIMBERLY WILSON TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: TODD 15 G FED #7

Enclosed are the results of analyses for samples received by the laboratory on 01/11/16 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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



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

Received:	01/11/2016	Sampling Date:	01/06/2016
Reported:	01/13/2016	Sampling Type:	Soil
Project Name:	TODD 15 G FED #7	Sampling Condition:	Cool & Intact
Project Number:	700794.183.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

# Sample ID: S-1 0' (H600055-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2016	ND	2.22	111	2.00	12.2	
Toluene*	<0.050	0.050	01/12/2016	ND	2.17	109	2.00	12.0	
Ethylbenzene*	<0.050	0.050	01/12/2016	ND	1.97	98.7	2.00	11.0	
Total Xylenes*	<0.150	0.150	01/12/2016	ND	5.93	98.9	6.00	10.3	
Total BTEX	<0.300	0.300	01/12/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	01/13/2016	ND	448	112	400	3.64	
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	01/12/2016	ND	201	100	200	4.33	
DRO >C10-C28	3230	10.0	01/12/2016	ND	186	92.8	200	7.29	
Surrogate: 1-Chlorooctane	81.7	% 35-147	,						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	01/11/2016	Sampling Date:	01/06/2016
Reported:	01/13/2016	Sampling Type:	Soil
Project Name:	TODD 15 G FED #7	Sampling Condition:	Cool & Intact
Project Number:	700794.183.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

## Sample ID: S-1 1' (H600055-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2016	ND	2.22	111	2.00	12.2	
Toluene*	<0.050	0.050	01/12/2016	ND	2.17	109	2.00	12.0	
Ethylbenzene*	<0.050	0.050	01/12/2016	ND	1.97	98.7	2.00	11.0	
Total Xylenes*	<0.150	0.150	01/12/2016	ND	5.93	98.9	6.00	10.3	
Total BTEX	<0.300	0.300	01/12/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	01/13/2016	ND	448	112	400	3.64	
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	01/12/2016	ND	201	100	200	4.33	
DRO >C10-C28	677	10.0	01/12/2016	ND	186	92.8	200	7.29	
Surrogate: 1-Chlorooctane	79.8	% 35-147	,						
Surrogate: 1-Chlorooctadecane	84.8	% 28-171							

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Celey D. Keene, Lab Director/Quality Manager



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Received:	01/11/2016	Sampling Date:	01/06/2016
Reported:	01/13/2016	Sampling Type:	Soil
Project Name:	TODD 15 G FED #7	Sampling Condition:	Cool & Intact
Project Number:	700794.183.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: S-1 1.5' R (H600055-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2016	ND	2.22	111	2.00	12.2	
Toluene*	<0.050	0.050	01/12/2016	ND	2.17	109	2.00	12.0	
Ethylbenzene*	<0.050	0.050	01/12/2016	ND	1.97	98.7	2.00	11.0	
Total Xylenes*	<0.150	0.150	01/12/2016	ND	5.93	98.9	6.00	10.3	
Total BTEX	<0.300	0.300	01/12/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	01/13/2016	ND	448	112	400	3.64	
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	01/12/2016	ND	201	100	200	4.33	
DRO >C10-C28	68.9	10.0	01/12/2016	ND	186	92.8	200	7.29	
Surrogate: 1-Chlorooctane	72.4 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	74.4 \$	28-171							

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Received:	01/11/2016	Sampling Date:	01/06/2016
Reported:	01/13/2016	Sampling Type:	Soil
Project Name:	TODD 15 G FED #7	Sampling Condition:	Cool & Intact
Project Number:	700794.183.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

## Sample ID: S-2 0' (H600055-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2016	ND	2.22	111	2.00	12.2	
Toluene*	<0.050	0.050	01/12/2016	ND	2.17	109	2.00	12.0	
Ethylbenzene*	<0.050	0.050	01/12/2016	ND	1.97	98.7	2.00	11.0	
Total Xylenes*	<0.150	0.150	01/12/2016	ND	5.93	98.9	6.00	10.3	
Total BTEX	<0.300	0.300	01/12/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/13/2016	ND	448	112	400	3.64	
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	01/12/2016	ND	201	100	200	4.33	
DRO >C10-C28	226	10.0	01/12/2016	ND	186	92.8	200	7.29	
Surrogate: 1-Chlorooctane	80.2	% 35-147	7						
Surrogate: 1-Chlorooctadecane	97.2	28-171	,						

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Received:	01/11/2016	Sampling Date:	01/06/2016
Reported:	01/13/2016	Sampling Type:	Soil
Project Name:	TODD 15 G FED #7	Sampling Condition:	Cool & Intact
Project Number:	700794.183.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

#### Sample ID: S-2 0.5' R (H600055-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2016	ND	2.22	111	2.00	12.2	
Toluene*	<0.050	0.050	01/12/2016	ND	2.17	109	2.00	12.0	
Ethylbenzene*	<0.050	0.050	01/12/2016	ND	1.97	98.7	2.00	11.0	
Total Xylenes*	<0.150	0.150	01/12/2016	ND	5.93	98.9	6.00	10.3	
Total BTEX	<0.300	0.300	01/12/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/13/2016	ND	448	112	400	3.64	
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	01/12/2016	ND	201	100	200	4.33	
DRO >C10-C28	848	10.0	01/12/2016	ND	186	92.8	200	7.29	
Surrogate: 1-Chlorooctane	84.4 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	92.9 9	% 28-171							

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Reported:	01/13/2016	Sampling Type:	Soil
Project Name:	TODD 15 G FED #7	Sampling Condition:	Cool & Intact
Project Number:	700794.183.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

## Sample ID: S-3 0' (H600055-06)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2016	ND	2.22	111	2.00	12.2	
Toluene*	<0.050	0.050	01/12/2016	ND	2.17	109	2.00	12.0	
Ethylbenzene*	<0.050	0.050	01/12/2016	ND	1.97	98.7	2.00	11.0	
Total Xylenes*	<0.150	0.150	01/12/2016	ND	5.93	98.9	6.00	10.3	
Total BTEX	<0.300	0.300	01/12/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 % 73.6-14		0						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	01/13/2016	ND	448	112	400	3.64	
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	01/12/2016	ND	201	100	200	4.33	
DRO >C10-C28	<b>246</b> 10.0		01/12/2016	ND	186	92.8	200	7.29	
Surrogate: 1-Chlorooctane	78.5	% 35-147	7						
Surrogate: 1-Chlorooctadecane	91.0 % 28-17		,						

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Received:	01/11/2016	Sampling Date:	01/06/2016
Reported:	01/13/2016	Sampling Type:	Soil
Project Name:	TODD 15 G FED #7	Sampling Condition:	Cool & Intact
Project Number:	700794.183.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

## Sample ID: S-3 1' R (H600055-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2016	ND	2.22	111	2.00	12.2		
Toluene*	<0.050	0.050	01/12/2016	ND	2.17	109	2.00	12.0	12.0	
Ethylbenzene*	<0.050	0.050	01/12/2016	ND	1.97	98.7	2.00	11.0		
Total Xylenes*	<0.150	0.150	01/12/2016	ND	5.93	98.9	6.00	10.3		
Total BTEX	<0.300	0.300	01/12/2016	ND						
Surrogate: 4-Bromofluorobenzene (PID	98.7 % 73.6-1-		0							
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	01/13/2016	ND	448	112	400	3.64		
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	01/12/2016	ND	201	100	200	4.33		
DRO >C10-C28	88.7	10.0	01/12/2016	ND	186	92.8	200	7.29		
Surrogate: 1-Chlorooctane	74.9	% 35-147	,							
Surrogate: 1-Chlorooctadecane	79.7 % 28-17									

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# **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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#### \*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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The second Disso	324	service. In no event shall carantia on journal of informance of services hereunder by Cardinal, log antibias resumestoria raining out of or related to the performance of services hereunder by Cardinal, log Relinquished By: Date: Rece	PLEASE NOTE: Liability and Damages. Cardina's fability and client's exclusive remedy for any claim aciding whether based in contract or fort, shall be limited to the amount paid by the client for the pplice of the application of the applicat	I' R	8-3 0'	S-2 0'	3 1.5' R G	1.	1 5-1 0' 6	CORAB OR (C)OMP # CONTAINERS	NIM WILL B	n cary city	ame: Joda	Project #: 100194,183,01 Project Owner: DeVit	651d 575-746-8768 Fax #: 575-7	Address: 400 VV. 16Add Ave. State: NM Zip: 88210		Talon/LPE	10 0	The second	Laboratories	CARDINAL
les	Received By; Sample Condition CHIRCIGED BY: Copol Infact Copol Infact Mol No No	nnal regardless of whether source source source and the source of the s	8		12:30	~ `	1	1 1 1 12:20 1 2	1 1 1111 1111	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERVI SAMILLING		Phone #:	City:		8210 Attn:	company: Talon/LPE	P.O. #:	0.118			
		□ No Add'I Fax #	1 1																ANALYSIS REQUEST		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	

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# + Cardinal cannot accept verbal changes. Please fax written changes to (000) or of the

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