

April 20, 2015

IKE TAVAREZ

TETRA TECH

1910 N. BIG SPRING STREET

MIDLAND, TX 79705

RE: WESTERN REFINING-T STATION SPILL

Enclosed are the results of analyses for samples received by the laboratory on 04/17/15 13:00.

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 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,



Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 IKE TAVAREZ
 1910 N. BIG SPRING STREET
 MIDLAND TX, 79705
 Fax To: (432) 682-3946

Received:	04/17/2015	Sampling Date:	04/17/2015
Reported:	04/20/2015	Sampling Type:	Soil
Project Name:	WESTERN REFINING-T STATION SPILL	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-00221	Sample Received By:	Jodi Henson
Project Location:	WESTERN REFINING		

Sample ID: SAMPLE POINT 1 (H501013-01)

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	04/17/2015	ND	2.14	107	2.00	3.26		
Toluene*	0.069	0.050	04/17/2015	ND	1.90	95.2	2.00	1.98		
Ethylbenzene*	<0.050	0.050	04/17/2015	ND	1.78	88.8	2.00	0.225		
Total Xylenes*	<0.150	0.150	04/17/2015	ND	5.71	95.2	6.00	0.0307		
Total BTEX	<0.300	0.300	04/17/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 61-154

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	04/18/2015	ND	187	93.6	200	1.51		
DRO >C10-C28	<10.0	10.0	04/18/2015	ND	220	110	200	1.61		

Surrogate: 1-Chlorooctane 108 % 47.2-157

Surrogate: 1-Chlorooctadecane 110 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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 Fax To: (432) 682-3946

Received:	04/17/2015	Sampling Date:	04/17/2015
Reported:	04/20/2015	Sampling Type:	Soil
Project Name:	WESTERN REFINING-T STATION SPILL	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-00221	Sample Received By:	Jodi Henson
Project Location:	WESTERN REFINING		

Sample ID: SAMPLE POINT 2 (H501013-02)

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	04/17/2015	ND	2.14	107	2.00	3.26		
Toluene*	<0.050	0.050	04/17/2015	ND	1.90	95.2	2.00	1.98		
Ethylbenzene*	<0.050	0.050	04/17/2015	ND	1.78	88.8	2.00	0.225		
Total Xylenes*	<0.150	0.150	04/17/2015	ND	5.71	95.2	6.00	0.0307		
Total BTEX	<0.300	0.300	04/17/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 61-154

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	04/18/2015	ND	187	93.6	200	1.51		
DRO >C10-C28	<10.0	10.0	04/18/2015	ND	220	110	200	1.61		

Surrogate: 1-Chlorooctane 104 % 47.2-157

Surrogate: 1-Chlorooctadecane 107 % 52.1-176

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Received:	04/17/2015	Sampling Date:	04/17/2015
Reported:	04/20/2015	Sampling Type:	Soil
Project Name:	WESTERN REFINING-T STATION SPILL	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-00221	Sample Received By:	Jodi Henson
Project Location:	WESTERN REFINING		

Sample ID: SAMPLE POINT 3 (H501013-03)

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	04/17/2015	ND	2.14	107	2.00	3.26	
Toluene*	<0.050	0.050	04/17/2015	ND	1.90	95.2	2.00	1.98	
Ethylbenzene*	<0.050	0.050	04/17/2015	ND	1.78	88.8	2.00	0.225	
Total Xylenes*	<0.150	0.150	04/17/2015	ND	5.71	95.2	6.00	0.0307	
Total BTEX	<0.300	0.300	04/17/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 61-154

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	04/18/2015	ND	187	93.6	200	1.51	
DRO >C10-C28	<10.0	10.0	04/18/2015	ND	220	110	200	1.61	

Surrogate: 1-Chlorooctane 109 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

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Received:	04/17/2015	Sampling Date:	04/17/2015
Reported:	04/20/2015	Sampling Type:	Soil
Project Name:	WESTERN REFINING-T STATION SPILL	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-00221	Sample Received By:	Jodi Henson
Project Location:	WESTERN REFINING		

Sample ID: SAMPLE POINT 4 (H501013-04)

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	04/17/2015	ND	2.14	107	2.00	3.26		
Toluene*	<0.050	0.050	04/17/2015	ND	1.90	95.2	2.00	1.98		
Ethylbenzene*	<0.050	0.050	04/17/2015	ND	1.78	88.8	2.00	0.225		
Total Xylenes*	<0.150	0.150	04/17/2015	ND	5.71	95.2	6.00	0.0307		
Total BTEX	<0.300	0.300	04/17/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 61-154

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	04/18/2015	ND	187	93.6	200	1.51		
DRO >C10-C28	<10.0	10.0	04/18/2015	ND	220	110	200	1.61		

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 107 % 52.1-176

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Received:	04/17/2015	Sampling Date:	04/17/2015
Reported:	04/20/2015	Sampling Type:	Soil
Project Name:	WESTERN REFINING-T STATION SPILL	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-00221	Sample Received By:	Jodi Henson
Project Location:	WESTERN REFINING		

Sample ID: SAMPLE POINT 5 (H501013-05)

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	04/17/2015	ND	2.14	107	2.00	3.26		
Toluene*	<0.050	0.050	04/17/2015	ND	1.90	95.2	2.00	1.98		
Ethylbenzene*	<0.050	0.050	04/17/2015	ND	1.78	88.8	2.00	0.225		
Total Xylenes*	<0.150	0.150	04/17/2015	ND	5.71	95.2	6.00	0.0307		
Total BTEX	<0.300	0.300	04/17/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 61-154

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	04/18/2015	ND	187	93.6	200	1.51		
DRO >C10-C28	<10.0	10.0	04/18/2015	ND	220	110	200	1.61		

Surrogate: 1-Chlorooctane 105 % 47.2-157
Surrogate: 1-Chlorooctadecane 107 % 52.1-176

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Received:	04/17/2015	Sampling Date:	04/17/2015
Reported:	04/20/2015	Sampling Type:	Soil
Project Name:	WESTERN REFINING-T STATION SPILL	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-00221	Sample Received By:	Jodi Henson
Project Location:	WESTERN REFINING		

Sample ID: SAMPLE POINT 6 (H501013-06)

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	04/17/2015	ND	2.14	107	2.00	3.26		
Toluene*	<0.050	0.050	04/17/2015	ND	1.90	95.2	2.00	1.98		
Ethylbenzene*	<0.050	0.050	04/17/2015	ND	1.78	88.8	2.00	0.225		
Total Xylenes*	<0.150	0.150	04/17/2015	ND	5.71	95.2	6.00	0.0307		
Total BTEX	<0.300	0.300	04/17/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 61-154

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	04/18/2015	ND	187	93.6	200	1.51		
DRO >C10-C28	<10.0	10.0	04/18/2015	ND	220	110	200	1.61		

Surrogate: 1-Chlorooctane 106 % 47.2-157

Surrogate: 1-Chlorooctadecane 109 % 52.1-176

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Received:	04/17/2015	Sampling Date:	04/17/2015
Reported:	04/20/2015	Sampling Type:	Soil
Project Name:	WESTERN REFINING-T STATION SPILL	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-00221	Sample Received By:	Jodi Henson
Project Location:	WESTERN REFINING		

Sample ID: SAMPLE POINT 7 (H501013-07)

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	04/17/2015	ND	2.14	107	2.00	3.26		
Toluene*	<0.050	0.050	04/17/2015	ND	1.90	95.2	2.00	1.98		
Ethylbenzene*	<0.050	0.050	04/17/2015	ND	1.78	88.8	2.00	0.225		
Total Xylenes*	<0.150	0.150	04/17/2015	ND	5.71	95.2	6.00	0.0307		
Total BTEX	<0.300	0.300	04/17/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 61-154

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	04/18/2015	ND	187	93.6	200	1.51		
DRO >C10-C28	<10.0	10.0	04/18/2015	ND	220	110	200	1.61		

Surrogate: 1-Chlorooctane 106 % 47.2-157

Surrogate: 1-Chlorooctadecane 112 % 52.1-176

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Received:	04/17/2015	Sampling Date:	04/17/2015
Reported:	04/20/2015	Sampling Type:	Soil
Project Name:	WESTERN REFINING-T STATION SPILL	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-00221	Sample Received By:	Jodi Henson
Project Location:	WESTERN REFINING		

Sample ID: SAMPLE POINT 8 (H501013-08)

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	04/17/2015	ND	2.14	107	2.00	3.26		
Toluene*	<0.050	0.050	04/17/2015	ND	1.90	95.2	2.00	1.98		
Ethylbenzene*	<0.050	0.050	04/17/2015	ND	1.78	88.8	2.00	0.225		
Total Xylenes*	<0.150	0.150	04/17/2015	ND	5.71	95.2	6.00	0.0307		
Total BTEX	<0.300	0.300	04/17/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 61-154

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	04/18/2015	ND	187	93.6	200	1.51		
DRO >C10-C28	<10.0	10.0	04/18/2015	ND	220	110	200	1.61		

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 104 % 52.1-176

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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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