



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

April 22, 2014

ZACK THOMAS

MEWBOURNE OIL COMPANY

P. O. BOX 5270

HOBBS, NM 88240

RE: ALLIED STATE #2

Enclosed are the results of analyses for samples received by the laboratory on 04/14/14 15:15.

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,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 MEWBOURNE OIL COMPANY
 ZACK THOMAS
 P. O. BOX 5270
 HOBBS NM, 88240
 Fax To: (575) 937-6252

 Received: 04/14/2014
 Reported: 04/22/2014
 Project Name: ALLIED STATE #2
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/14/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: A2-1 (H401125-01)

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	04/17/2014	ND	2.68	134	2.00	12.6	
Toluene*	0.140	0.050	04/17/2014	ND	2.55	127	2.00	13.1	
Ethylbenzene*	<0.050	0.050	04/17/2014	ND	2.53	126	2.00	14.0	
Total Xylenes*	<0.150	0.150	04/17/2014	ND	7.29	122	6.00	13.9	
Total BTEx	<0.300	0.300	04/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/16/2014	ND	400	100	400	3.92		

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	04/16/2014	ND	199	99.3	200	1.82	
DRO >C10-C28	11.9	10.0	04/16/2014	ND	218	109	200	2.81	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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ZACK THOMAS
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Received: 04/14/2014
Reported: 04/22/2014
Project Name: ALLIED STATE #2
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 04/14/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: A2-2 (H401125-02)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	04/17/2014	ND	2.68	134	2.00	12.6	
Toluene*	0.166	0.100	04/17/2014	ND	2.55	127	2.00	13.1	
Ethylbenzene*	<0.100	0.100	04/17/2014	ND	2.53	126	2.00	14.0	
Total Xylenes*	<0.300	0.300	04/17/2014	ND	7.29	122	6.00	13.9	
Total BTEx	<0.600	0.600	04/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/16/2014	ND	400	100	400	3.92	

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	04/16/2014	ND	199	99.3	200	1.82	
DRO >C10-C28	103	10.0	04/16/2014	ND	218	109	200	2.81	

Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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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