

FINAL REPORT SUMMARIZING CLOSURE FOR INCIDENTS 2RP-2459 & 2RP-2555

MEWBOURNE OIL COMPANY
BLACK LAKE# 5 PA STATE COM #1H
API# 30-015-41124
SECTION 5, T25S R28E, NM
EDDY COUNTY, NM



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INTRODUCTION

On behalf of Mewbourne Oil Company, SMA has prepared this closure report to provide a summary of the release and spill response activities at the Black Lake 5 PA State Com #001H on August 24, 2014 and October 13, 2014. These two spills occurred in within the same area for the same reason. A water transfer pump failed causing water tanks to overflow into the secondary containment. The secondary containment filled up and ran over resulting in an estimated 650 bbls (08/24/14) and 430 bbls (10/13/14) of produced water that was released onto the ground. The produced water spilled east of tank battery flowing out into the pasture. To stop the release, the well was shut in by the pumper upon arrival. Vacuum trucks recovered 580 bbls (08/24/14) and 420 bbls (10/13/14) of standing fluid. The site is located in Unit A, Section 5, Township 25 South, Range 28 East, Eddy County, New Mexico. Figure 1, Site Location Map, illustrates the location of the release.

Further, this document presents the results of the initial assessment and soil sampling performed at the Site, the regulatory framework for existing activities, and a summary of work done at the location designed to facilitate release incident closure. Site details, sampling locations and the remedial excavation area are presented in Figure 2. Appendices include the laboratory analytical reports for the initial sampling, New Mexico Oil Conservation Division (NMOCD) forms C141 Initial 8/24, 10/13 and C141 Final, and the manifest for the transport and disposal of RCRA exempt soils from the initial response to the NMOCD approved facility.

REGULATORY FRAMEWORK AND SITE CLASSIFICATION

This project is conducted under the regulatory jurisdiction of the NMOCD, which requires the vadose zone shall be abated so that water contaminants in the vadose zone will not, with reasonable probability, contaminate groundwater or surface water (toxic pollutants as defined in 20.6.2.7 New Mexico Administration Code shall not be present) through leaching, percolation, or other transport mechanisms (19.15.1.19 NMAC, Subsection B, Paragraphs 1 and 2). The NMOCD hydrocarbon soil remediation levels are determined by ranking criteria on a site-by-site basis, as outlined in the NMOCD Guidelines for Remediation of Spills, Leaks, and Releases, dated August 13, 1993. The ranking criteria are based on three site characteristics: depth to groundwater, wellhead protection, and distance to surface water.

According to the Office of the State Engineer's records, no water wells are located within 1,000 feet of the well pad and battery. The estimated depth to groundwater is less than 50 feet below ground surface. No surface water bodies are located within 1,000 feet of the well pad and battery. The table below illustrates the ranking criteria used by the NMOCD and includes site specific characteristics at the Black Lake 5 PA.

Criteria	Site Characteristics	Ranking Score
Depth to Ground Water	<50 feet	20
Wellhead Protection Area	>1000 feet	0
Distance to Surface Water	>1,000 feet	0
Total Ranking Score		20

Based on the sites characteristics and the "Guidelines for Remediation of Spills, Leaks, and Releases" the site has a ranking score of 20. Consequently, based on the ranking criteria score, Recommended Remediation Action Levels (RRALs) of 10 milligrams per kilogram (mg/Kg) Benzene, 50 mg/Kg total Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), and 100 mg/Kg Total Petroleum Hydrocarbons (TPH) are proposed for remediation at the site.

INITIAL SOIL SAMPLING RESULTS

Table 1

Analytical Report-H403421	Sample Date	Depth	BTEX mg/Kg	GRO mg/Kg	DRO mg/Kg	Cl- mg/Kg
H403421-01	10/31/2014	1'	N/A	N/A	N/A	9730
H403421-02	10/31/2014	2.5'	N/A	N/A	N/A	5520
H403421-03	10/31/2014	2.5'	ND	ND	ND	2000
H403421-04	10/31/2014	1'	N/A	N/A	N/A	2400
H403421-05	10/31/2014	2.5'	N/A	N/A	N/A	864
H403421-06	10/31/2014	1'	N/A	N/A	N/A	1390
H403421-07	10/31/2014	2.5'	N/A	N/A	N/A	640
H403421-08	10/31/2014	2.5'	ND	ND	ND	800
H403421-09	10/31/2014	1'	N/A	N/A	N/A	<16
H403421-10	10/31/2014	2.5'	N/A	N/A	N/A	32
H403421-11	10/31/2014	1'	N/A	N/A	N/A	800
H403421-12	10/31/2014	2.5'	N/A	N/A	N/A	352
H403421-13	10/31/2014	1'	N/A	N/A	N/A	4320
H403421-14	10/31/2014	2.5'	N/A	N/A	N/A	1550

Table 2

Analytical Report-H403690	Sample Date	Depth	BTEX mg/Kg	GRO mg/Kg	DRO mg/Kg	Cl mg/Kg
H403690-01	11/26/2014	Surface	N/A	N/A	N/A	672
H403690-02	11/26/2014	Surface	N/A	N/A	N/A	544
H403690-03	11/26/2014	Surface	N/A	N/A	N/A	1090
H403690-04	11/26/2014	2'	N/A	N/A	N/A	1730
H403690-05	11/26/2014	2'	N/A	N/A	N/A	6400
H403690-06	11/26/2014	2'	N/A	N/A	N/A	2920
H403690-07	11/26/2014	2'	N/A	N/A	N/A	912
H403690-08	11/26/2014	2'	N/A	N/A	N/A	80
H403690-09	11/26/2014	2'	N/A	N/A	N/A	1090
H403690-10	11/26/2014	2'	N/A	N/A	N/A	96



Table 3

Analytical Report-H403883	Sample Date	Depth	BTEX mg/Kg	GRO mg/Kg	DRO mg/Kg	Cl mg/Kg
H403883-01	12/12/2014	3'	N/A	N/A	N/A	672

All laboratory analytical results are below the site specific RRALs of 10 milligrams per kilogram (mg/Kg) Benzene, 50 mg/Kg total Benzene, Toluene, Ethylbenzene, and total Xylenes(BTEX), and 100 mg/Kg Total Petroleum Hydrocarbons (TPH)

PROJECT SUMMARY

The remedial actions summarized were in response to two separate occurrences, the first release on 8/24/2014 and the second on 10/13/2014. Both Incidents 2RP-2459 (8/24/14) and 2RP-2555 (10/13/14) were caused by the same equipment failure and followed the same path down gradient affecting the same area. Unfortunately, the time period between the two releases was marked by unprecedented rain fall, making the location and the surrounding area inaccessible. The Operator, Mewbourne Oil Company (MOC) was unable to repair and/or replace the failed transfer pump during this period without undue risk to MOC employees.

Release 2RP-2459 occurred in the early morning of 8/24/14, with an estimated 650 bbls of released produced water the majority of which 580 bbls was recovered from the secondary containment and the surrounding area via vacuum truck. The affected areas on the location were excavated and placed on a plastic liner. Excavation could not begin in the affected pasture due to the previously mentioned rain events.

Release 2RP-2555 occurred the morning of 10/13/14, with an estimated 430 bbls of released produced water the majority of which 420 bbls was recovered in the secondary containment via vacuum truck. The combined affected area was an estimated 1800 ft³ on the locations pad and 1600 ft³ of State owned pasture.

Initial soil sampling was conducted for the spill on 8/24/14 (Analytical Report- 1409358) included in Appendix A. A second spill occurred on 10/13/14 and sample were taken shown in Table 1. The well pad excavation included removing affected soil from one to three feet between the tank farm and pump jack. For the pasture, delineation was determined in depth of two and a half feet confirmed with samples. See Table 1 for sample results. The pasture excavation removed the affected soils down two and a half feet. After the affected material was removed on the well pad new caliche was back filled to previous grade. In the affected area in the pasture no material was backfilled do to a small arroyo where exaction occurred. This area was contoured as close to the previous condition as possible. Further excavation to three feet in depth was done at sample location 5 seen in Figure 2. Heavy equipment was utilized to remove and transport all affected soil and wastes of location to NMOCD approved disposal facilities. The contaminated soil was removed and hauled off. See Appendix C for waste manifest tickets. Then the excavated area was raked smooth.

CONFIRMATION SAMPLING

Soil samples for confirmation were taken around the tank farm and in the pasture shown in Figure 2. A second confirmation sample was done at location sample 5 (Figure 2).The soil samples were delivered on 12/03/14 and 12/18/14 to Cardinal Laboratories, in Hobbs, New Mexico for EPA 300.0 method for chlorides. Each sample container will be labeled, placed on ice in an insulated cooler, and chilled to a temperature of approximately 40°F



(4°C). The cooler will be sealed for shipment to the laboratory. Proper chain-of-custody documentation will accompany the samples to the laboratory.

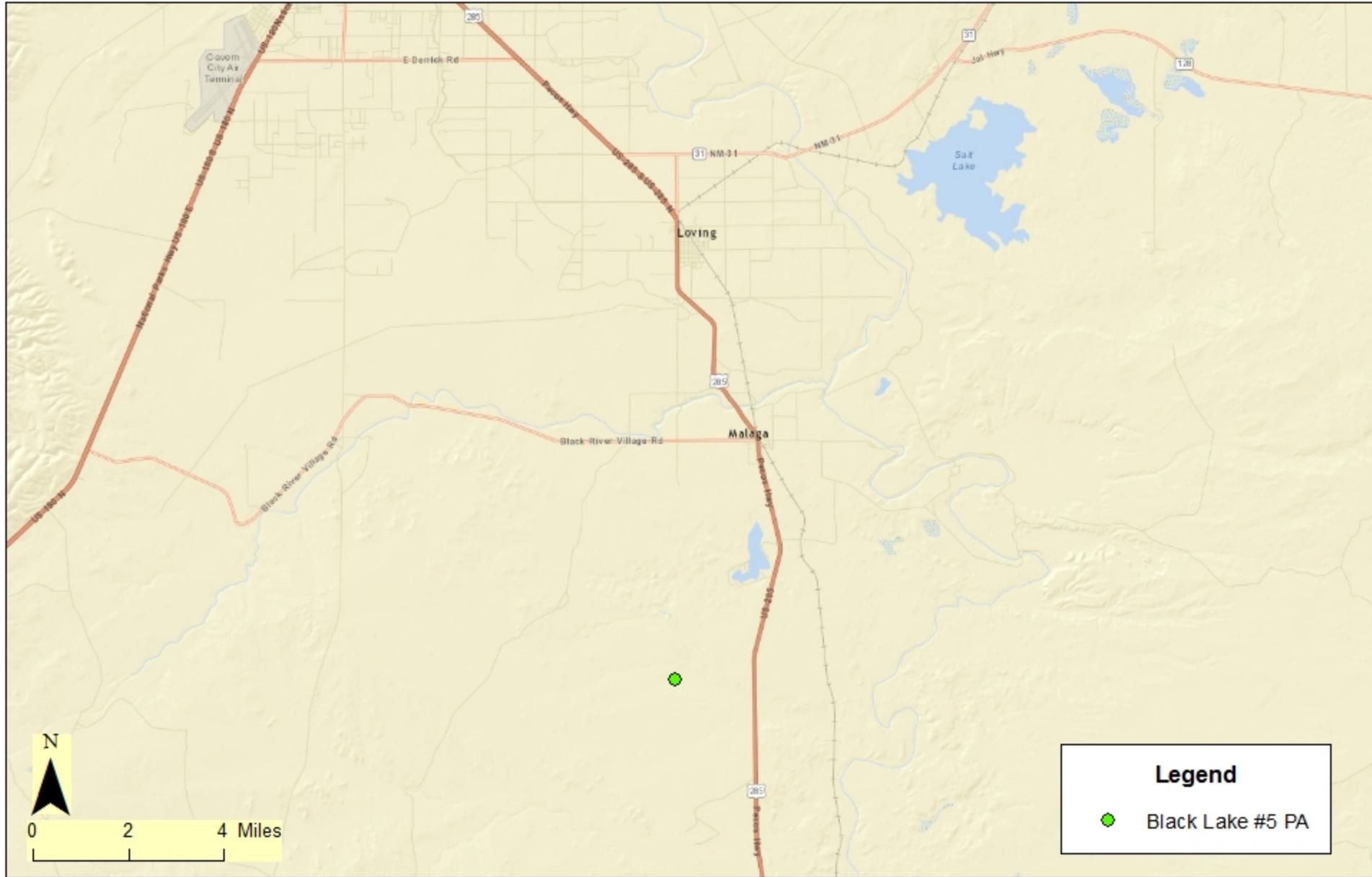
SITE CLOSURE

With a third party laboratory analytical results (H403690, H403883) confirm that the established site-specific cleanup levels of 10 mg/Kg Benzene, 50 mg/Kg total BTEX and 100 mg/Kg TPH have been reached. Final grading of construction-affected surface areas was performed to mitigate erosion. Closure of 2RP-2459 & 2RP-2555 is requested at this time. The closure request was submitted to the NMOCD as a C-141 final on 01/20/15, attached in Appendix B.



FIGURE 1

SITE LOCATION MAP



Location Map of Site
 Mewbourne Black Lake #5
 Malaga, New Mexico

Figure 1

Date Recv:
 1/13/2015

By: _____	Date: _____	Revisions	Descr: _____
By: _____	Date: _____		Descr: _____

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Drawn **Lucas Middleton**
 Checked _____
 Approved _____



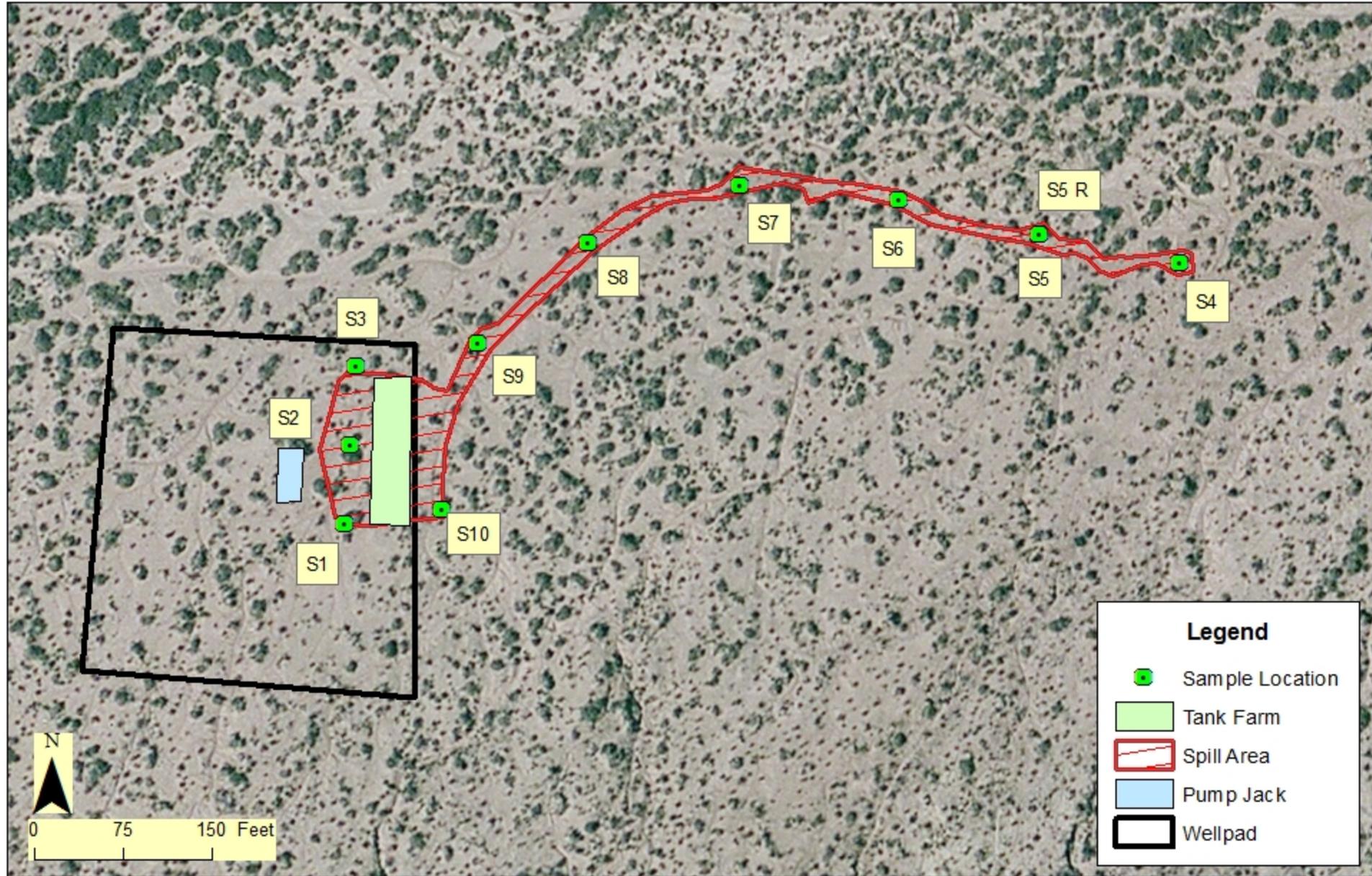
201 South Hologuena Street
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FIGURE 2

SITE DETAILS AND SAMPLE LOCATIONS

MAP



Sample Map of Site
 Mewbourne Black Lake #5
 Malaga, New Mexico

Figure 2

Date Saved:
 1/04/2015

By: _____	Date: _____	Descr: _____
By: _____	Date: _____	Descr: _____

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Drawn Lucas Middleton
 Checked _____
 Approved _____



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APPENDIX A

LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 18, 2014

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Black Lake 5

OrderNo.: 1409358

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 15 sample(s) on 9/9/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409358

Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates

Client Sample ID: S-1 0.5 BGS

Project: Black Lake 5

Collection Date: 9/2/2014 3:50:00 PM

Lab ID: 1409358-001

Matrix: SOIL

Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	700	100		mg/Kg	10	9/11/2014 1:11:03 PM	15198
Surr: DNOP	0	57.9-140	S	%REC	10	9/11/2014 1:11:03 PM	15198
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/11/2014 3:20:21 AM	15199
Surr: BFB	92.0	80-120		%REC	1	9/11/2014 3:20:21 AM	15199
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	9/11/2014 3:20:21 AM	15199
Toluene	ND	0.047		mg/Kg	1	9/11/2014 3:20:21 AM	15199
Ethylbenzene	ND	0.047		mg/Kg	1	9/11/2014 3:20:21 AM	15199
Xylenes, Total	ND	0.094		mg/Kg	1	9/11/2014 3:20:21 AM	15199
Surr: 4-Bromofluorobenzene	97.6	80-120		%REC	1	9/11/2014 3:20:21 AM	15199
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	18000	750		mg/Kg	500	9/12/2014 2:10:37 PM	15219

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		
*	Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
E	Value above quantitation range	H Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409358

Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates

Client Sample ID: S-2 0.5 BGS

Project: Black Lake 5

Collection Date: 9/2/2014 3:55:00 PM

Lab ID: 1409358-002

Matrix: SOIL

Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/11/2014 1:07:18 AM	15198
Surr: DNOP	111	57.9-140		%REC	1	9/11/2014 1:07:18 AM	15198
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/11/2014 3:48:54 AM	15199
Surr: BFB	91.9	80-120		%REC	1	9/11/2014 3:48:54 AM	15199
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	9/11/2014 3:48:54 AM	15199
Toluene	ND	0.048		mg/Kg	1	9/11/2014 3:48:54 AM	15199
Ethylbenzene	ND	0.048		mg/Kg	1	9/11/2014 3:48:54 AM	15199
Xylenes, Total	ND	0.096		mg/Kg	1	9/11/2014 3:48:54 AM	15199
Surr: 4-Bromofluorobenzene	97.8	80-120		%REC	1	9/11/2014 3:48:54 AM	15199
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	11000	750		mg/Kg	500	9/12/2014 2:23:02 PM	15219

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409358

Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates

Client Sample ID: S-2 1.0 BGS

Project: Black Lake 5

Collection Date: 9/2/2014 4:00:00 PM

Lab ID: 1409358-003

Matrix: SOIL

Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/11/2014 1:28:56 AM	15198
Surr: DNOP	96.5	57.9-140		%REC	1	9/11/2014 1:28:56 AM	15198
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/11/2014 12:04:23 PM	15199
Surr: BFB	90.0	80-120		%REC	1	9/11/2014 12:04:23 PM	15199
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	9/11/2014 12:04:23 PM	15199
Toluene	ND	0.048		mg/Kg	1	9/11/2014 12:04:23 PM	15199
Ethylbenzene	ND	0.048		mg/Kg	1	9/11/2014 12:04:23 PM	15199
Xylenes, Total	ND	0.096		mg/Kg	1	9/11/2014 12:04:23 PM	15199
Surr: 4-Bromofluorobenzene	97.2	80-120		%REC	1	9/11/2014 12:04:23 PM	15199
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	13000	750		mg/Kg	500	9/12/2014 3:00:15 PM	15219

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409358

Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates

Client Sample ID: S-3 0.5 BGS

Project: Black Lake 5

Collection Date: 9/2/2014 4:05:00 PM

Lab ID: 1409358-004

Matrix: SOIL

Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/11/2014 1:50:41 AM	15198
Surr: DNOP	110	57.9-140		%REC	1	9/11/2014 1:50:41 AM	15198
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/11/2014 12:33:00 PM	15199
Surr: BFB	90.5	80-120		%REC	1	9/11/2014 12:33:00 PM	15199
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	9/11/2014 12:33:00 PM	15199
Toluene	ND	0.048		mg/Kg	1	9/11/2014 12:33:00 PM	15199
Ethylbenzene	ND	0.048		mg/Kg	1	9/11/2014 12:33:00 PM	15199
Xylenes, Total	ND	0.097		mg/Kg	1	9/11/2014 12:33:00 PM	15199
Surr: 4-Bromofluorobenzene	97.5	80-120		%REC	1	9/11/2014 12:33:00 PM	15199
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	9600	300		mg/Kg	200	9/12/2014 3:12:39 PM	15219

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		
*	Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
E	Value above quantitation range	H Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409358

Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates

Client Sample ID: S-3 1.0 BGS

Project: Black Lake 5

Collection Date: 9/2/2014 4:10:00 PM

Lab ID: 1409358-005

Matrix: SOIL

Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/11/2014 2:12:14 AM	15198
Surr: DNOP	128	57.9-140		%REC	1	9/11/2014 2:12:14 AM	15198
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/11/2014 1:01:45 PM	15199
Surr: BFB	90.2	80-120		%REC	1	9/11/2014 1:01:45 PM	15199
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	9/11/2014 1:01:45 PM	15199
Toluene	ND	0.047		mg/Kg	1	9/11/2014 1:01:45 PM	15199
Ethylbenzene	ND	0.047		mg/Kg	1	9/11/2014 1:01:45 PM	15199
Xylenes, Total	ND	0.095		mg/Kg	1	9/11/2014 1:01:45 PM	15199
Surr: 4-Bromofluorobenzene	96.2	80-120		%REC	1	9/11/2014 1:01:45 PM	15199
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	2600	150		mg/Kg	100	9/12/2014 3:25:04 PM	15219

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		
*	Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
E	Value above quantitation range	H Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409358

Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates

Client Sample ID: S-4 0.5 BGS

Project: Black Lake 5

Collection Date: 9/2/2014 4:15:00 PM

Lab ID: 1409358-006

Matrix: SOIL

Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/11/2014 3:17:04 AM	15198
Surr: DNOP	93.9	57.9-140		%REC	1	9/11/2014 3:17:04 AM	15198
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/11/2014 1:30:28 PM	15199
Surr: BFB	94.0	80-120		%REC	1	9/11/2014 1:30:28 PM	15199
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	9/11/2014 1:30:28 PM	15199
Toluene	ND	0.048		mg/Kg	1	9/11/2014 1:30:28 PM	15199
Ethylbenzene	ND	0.048		mg/Kg	1	9/11/2014 1:30:28 PM	15199
Xylenes, Total	ND	0.096		mg/Kg	1	9/11/2014 1:30:28 PM	15199
Surr: 4-Bromofluorobenzene	97.0	80-120		%REC	1	9/11/2014 1:30:28 PM	15199
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	14000	750		mg/Kg	500	9/17/2014 7:25:31 AM	15219

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	
	E Value above quantitation range	H Holding times for preparation or analysis exceeded	
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit	Page 6 of 20
	O RSD is greater than RSDlimit	P Sample pH greater than 2.	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S-4 1.0 BGS

Project: Black Lake 5

Collection Date: 9/2/2014 4:20:00 PM

Lab ID: 1409358-007

Matrix: SOIL

Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/11/2014 3:38:35 AM	15198
Surr: DNOP	97.7	57.9-140		%REC	1	9/11/2014 3:38:35 AM	15198
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/11/2014 1:59:11 PM	15199
Surr: BFB	90.8	80-120		%REC	1	9/11/2014 1:59:11 PM	15199
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.046		mg/Kg	1	9/11/2014 1:59:11 PM	15199
Toluene	ND	0.046		mg/Kg	1	9/11/2014 1:59:11 PM	15199
Ethylbenzene	ND	0.046		mg/Kg	1	9/11/2014 1:59:11 PM	15199
Xylenes, Total	ND	0.093		mg/Kg	1	9/11/2014 1:59:11 PM	15199
Surr: 4-Bromofluorobenzene	96.9	80-120		%REC	1	9/11/2014 1:59:11 PM	15199
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	12000	750		mg/Kg	500	9/12/2014 3:49:53 PM	15219

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		
*	Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
E	Value above quantitation range	H Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409358

Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates

Client Sample ID: S-5 0.5 BGS

Project: Black Lake 5

Collection Date: 9/2/2014 4:25:00 PM

Lab ID: 1409358-008

Matrix: SOIL

Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	27	10		mg/Kg	1	9/11/2014 4:00:22 AM	15198
Surr: DNOP	107	57.9-140		%REC	1	9/11/2014 4:00:22 AM	15198
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/11/2014 2:27:47 PM	15199
Surr: BFB	92.1	80-120		%REC	1	9/11/2014 2:27:47 PM	15199
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	9/11/2014 2:27:47 PM	15199
Toluene	ND	0.047		mg/Kg	1	9/11/2014 2:27:47 PM	15199
Ethylbenzene	ND	0.047		mg/Kg	1	9/11/2014 2:27:47 PM	15199
Xylenes, Total	ND	0.094		mg/Kg	1	9/11/2014 2:27:47 PM	15199
Surr: 4-Bromofluorobenzene	96.8	80-120		%REC	1	9/11/2014 2:27:47 PM	15199
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	12000	750		mg/Kg	500	9/12/2014 4:02:18 PM	15219

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409358

Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates

Client Sample ID: S-5 1.0 BGS

Project: Black Lake 5

Collection Date: 9/2/2014 4:30:00 PM

Lab ID: 1409358-009

Matrix: SOIL

Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/11/2014 4:21:42 AM	15198
Surr: DNOP	99.4	57.9-140		%REC	1	9/11/2014 4:21:42 AM	15198
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/11/2014 2:56:26 PM	15199
Surr: BFB	90.8	80-120		%REC	1	9/11/2014 2:56:26 PM	15199
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	9/11/2014 2:56:26 PM	15199
Toluene	ND	0.048		mg/Kg	1	9/11/2014 2:56:26 PM	15199
Ethylbenzene	ND	0.048		mg/Kg	1	9/11/2014 2:56:26 PM	15199
Xylenes, Total	ND	0.097		mg/Kg	1	9/11/2014 2:56:26 PM	15199
Surr: 4-Bromofluorobenzene	96.1	80-120		%REC	1	9/11/2014 2:56:26 PM	15199
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	12000	750		mg/Kg	500	9/12/2014 4:14:42 PM	15219

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		
*	Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
E	Value above quantitation range	H Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409358

Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates

Client Sample ID: S-6 0.5 BGS

Project: Black Lake 5

Collection Date: 9/2/2014 4:35:00 PM

Lab ID: 1409358-010

Matrix: SOIL

Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	13	10		mg/Kg	1	9/11/2014 4:43:07 AM	15198
Surr: DNOP	102	57.9-140		%REC	1	9/11/2014 4:43:07 AM	15198
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/11/2014 3:25:04 PM	15199
Surr: BFB	91.4	80-120		%REC	1	9/11/2014 3:25:04 PM	15199
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	9/11/2014 3:25:04 PM	15199
Toluene	ND	0.047		mg/Kg	1	9/11/2014 3:25:04 PM	15199
Ethylbenzene	ND	0.047		mg/Kg	1	9/11/2014 3:25:04 PM	15199
Xylenes, Total	ND	0.093		mg/Kg	1	9/11/2014 3:25:04 PM	15199
Surr: 4-Bromofluorobenzene	97.3	80-120		%REC	1	9/11/2014 3:25:04 PM	15199
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	12000	750		mg/Kg	500	9/12/2014 4:27:07 PM	15219

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409358

Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates

Client Sample ID: S-6 1.0 BGS

Project: Black Lake 5

Collection Date: 9/2/2014 4:40:00 PM

Lab ID: 1409358-011

Matrix: SOIL

Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/11/2014 5:04:24 AM	15198
Surr: DNOP	102	57.9-140		%REC	1	9/11/2014 5:04:24 AM	15198
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/11/2014 3:53:45 PM	15199
Surr: BFB	91.7	80-120		%REC	1	9/11/2014 3:53:45 PM	15199
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	9/11/2014 3:53:45 PM	15199
Toluene	ND	0.048		mg/Kg	1	9/11/2014 3:53:45 PM	15199
Ethylbenzene	ND	0.048		mg/Kg	1	9/11/2014 3:53:45 PM	15199
Xylenes, Total	ND	0.096		mg/Kg	1	9/11/2014 3:53:45 PM	15199
Surr: 4-Bromofluorobenzene	97.2	80-120		%REC	1	9/11/2014 3:53:45 PM	15199
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	11000	750		mg/Kg	500	9/12/2014 4:39:31 PM	15219

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		
*	Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
E	Value above quantitation range	H Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409358

Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates

Client Sample ID: S-7 0.5 BGS

Project: Black Lake 5

Collection Date: 9/2/2014 4:45:00 PM

Lab ID: 1409358-012

Matrix: SOIL

Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/11/2014 5:25:50 AM	15198
Surr: DNOP	94.6	57.9-140		%REC	1	9/11/2014 5:25:50 AM	15198
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/11/2014 4:22:21 PM	15199
Surr: BFB	91.7	80-120		%REC	1	9/11/2014 4:22:21 PM	15199
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	9/11/2014 4:22:21 PM	15199
Toluene	ND	0.047		mg/Kg	1	9/11/2014 4:22:21 PM	15199
Ethylbenzene	ND	0.047		mg/Kg	1	9/11/2014 4:22:21 PM	15199
Xylenes, Total	ND	0.095		mg/Kg	1	9/11/2014 4:22:21 PM	15199
Surr: 4-Bromofluorobenzene	97.6	80-120		%REC	1	9/11/2014 4:22:21 PM	15199
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	13000	750		mg/Kg	500	9/12/2014 4:51:55 PM	15219

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		
*	Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
E	Value above quantitation range	H Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409358

Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates

Client Sample ID: S-7 1.0 BGS

Project: Black Lake 5

Collection Date: 9/2/2014 4:50:00 PM

Lab ID: 1409358-013

Matrix: SOIL

Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/11/2014 5:47:03 AM	15198
Surr: DNOP	94.8	57.9-140		%REC	1	9/11/2014 5:47:03 AM	15198
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/11/2014 10:06:22 PM	15199
Surr: BFB	90.7	80-120		%REC	1	9/11/2014 10:06:22 PM	15199
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	9/11/2014 10:06:22 PM	15199
Toluene	ND	0.047		mg/Kg	1	9/11/2014 10:06:22 PM	15199
Ethylbenzene	ND	0.047		mg/Kg	1	9/11/2014 10:06:22 PM	15199
Xylenes, Total	ND	0.094		mg/Kg	1	9/11/2014 10:06:22 PM	15199
Surr: 4-Bromofluorobenzene	96.7	80-120		%REC	1	9/11/2014 10:06:22 PM	15199
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	11000	750		mg/Kg	500	9/12/2014 5:29:09 PM	15219

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409358

Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates

Client Sample ID: S-8 0.5 BGS

Project: Black Lake 5

Collection Date: 9/2/2014 4:55:00 PM

Lab ID: 1409358-014

Matrix: SOIL

Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/11/2014 6:08:33 AM	15198
Surr: DNOP	91.2	57.9-140		%REC	1	9/11/2014 6:08:33 AM	15198
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/11/2014 10:35:01 PM	15199
Surr: BFB	91.4	80-120		%REC	1	9/11/2014 10:35:01 PM	15199
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	9/11/2014 10:35:01 PM	15199
Toluene	ND	0.048		mg/Kg	1	9/11/2014 10:35:01 PM	15199
Ethylbenzene	ND	0.048		mg/Kg	1	9/11/2014 10:35:01 PM	15199
Xylenes, Total	ND	0.096		mg/Kg	1	9/11/2014 10:35:01 PM	15199
Surr: 4-Bromofluorobenzene	97.7	80-120		%REC	1	9/11/2014 10:35:01 PM	15199
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	12000	750		mg/Kg	500	9/12/2014 5:41:34 PM	15219

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		
*	Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
E	Value above quantitation range	H Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409358

Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates

Client Sample ID: S-8 1.0 BGS

Project: Black Lake 5

Collection Date: 9/2/2014 5:00:00 PM

Lab ID: 1409358-015

Matrix: SOIL

Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/11/2014 6:29:49 AM	15198
Surr: DNOP	93.2	57.9-140		%REC	1	9/11/2014 6:29:49 AM	15198
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/11/2014 11:03:39 PM	15199
Surr: BFB	91.3	80-120		%REC	1	9/11/2014 11:03:39 PM	15199
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	9/11/2014 11:03:39 PM	15199
Toluene	ND	0.048		mg/Kg	1	9/11/2014 11:03:39 PM	15199
Ethylbenzene	ND	0.048		mg/Kg	1	9/11/2014 11:03:39 PM	15199
Xylenes, Total	ND	0.096		mg/Kg	1	9/11/2014 11:03:39 PM	15199
Surr: 4-Bromofluorobenzene	97.9	80-120		%REC	1	9/11/2014 11:03:39 PM	15199
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	9800	300		mg/Kg	200	9/12/2014 5:53:58 PM	15219

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		
*	Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
E	Value above quantitation range	H Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409358

18-Sep-14

Client: Souder, Miller & Associates

Project: Black Lake 5

Sample ID	MB-15219	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	15219	RunNo:	21137					
Prep Date:	9/10/2014	Analysis Date:	9/10/2014	SeqNo:	615418	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-15219	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	15219	RunNo:	21137					
Prep Date:	9/10/2014	Analysis Date:	9/10/2014	SeqNo:	615420	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.8	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409358

18-Sep-14

Client: Souder, Miller & Associates

Project: Black Lake 5

Sample ID MB-15198	SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: PBS	Batch ID: 15198		RunNo: 21109							
Prep Date: 9/9/2014	Analysis Date: 9/10/2014		SeqNo: 615414	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.8		10.00		88.4	57.9	140			

Sample ID LCS-15198	SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 15198		RunNo: 21109							
Prep Date: 9/9/2014	Analysis Date: 9/10/2014		SeqNo: 615415	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.7	68.6	130			
Surr: DNOP	4.1		5.000		82.4	57.9	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409358

18-Sep-14

Client: Souder, Miller & Associates

Project: Black Lake 5

Sample ID MB-15192	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 15192		RunNo: 21126							
Prep Date: 9/9/2014	Analysis Date: 9/10/2014		SeqNo: 615294		Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	890		1000		89.2	80	120			

Sample ID LCS-15192	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 15192		RunNo: 21126							
Prep Date: 9/9/2014	Analysis Date: 9/10/2014		SeqNo: 615295		Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		97.3	80	120			

Sample ID MB-15199	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 15199		RunNo: 21126							
Prep Date: 9/9/2014	Analysis Date: 9/11/2014		SeqNo: 615331		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		92.0	80	120			

Sample ID LCS-15199	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 15199		RunNo: 21126							
Prep Date: 9/9/2014	Analysis Date: 9/11/2014		SeqNo: 615332		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	65.8	139			
Surr: BFB	1000		1000		99.6	80	120			

Sample ID 1409358-002AMS	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: S-2 0.5 BGS	Batch ID: 15199		RunNo: 21160							
Prep Date: 9/9/2014	Analysis Date: 9/11/2014		SeqNo: 615903		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.8	24.08	0	118	71.8	132			
Surr: BFB	980		963.4		101	80	120			

Sample ID 1409358-002AMSD	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: S-2 0.5 BGS	Batch ID: 15199		RunNo: 21160							
Prep Date: 9/9/2014	Analysis Date: 9/11/2014		SeqNo: 615904		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	24.08	0	91.2	71.8	132	25.6	20	R
Surr: BFB	960		963.4		99.6	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409358

18-Sep-14

Client: Souder, Miller & Associates

Project: Black Lake 5

Sample ID MB-15192	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 15192		RunNo: 21126							
Prep Date: 9/9/2014	Analysis Date: 9/10/2014		SeqNo: 615349	Units: %REC						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	80	120			

Sample ID LCS-15192	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 15192		RunNo: 21126							
Prep Date: 9/9/2014	Analysis Date: 9/10/2014		SeqNo: 615350	Units: %REC						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID MB-15199	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 15199		RunNo: 21126							
Prep Date: 9/9/2014	Analysis Date: 9/11/2014		SeqNo: 615364	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID LCS-15199	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 15199		RunNo: 21126							
Prep Date: 9/9/2014	Analysis Date: 9/11/2014		SeqNo: 615365	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.050	1.000	0	91.2	80	120			
Toluene	0.91	0.050	1.000	0	91.2	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID 1409358-001AMS	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: S-1 0.5 BGS	Batch ID: 15199		RunNo: 21160							
Prep Date: 9/9/2014	Analysis Date: 9/11/2014		SeqNo: 615975	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.047	0.9407	0	86.2	77.4	142			
Toluene	0.82	0.047	0.9407	0.006968	86.8	77	132			
Ethylbenzene	0.84	0.047	0.9407	0	89.8	77.6	134			
Xylenes, Total	2.6	0.094	2.822	0	90.7	77.4	132			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409358

18-Sep-14

Client: Souder, Miller & Associates

Project: Black Lake 5

Sample ID	1409358-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	S-1 0.5 BGS	Batch ID:	15199	RunNo:	21160					
Prep Date:	9/9/2014	Analysis Date:	9/11/2014	SeqNo:	615975	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		0.9407		103	80	120			

Sample ID	1409358-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	S-1 0.5 BGS	Batch ID:	15199	RunNo:	21160					
Prep Date:	9/9/2014	Analysis Date:	9/11/2014	SeqNo:	615976	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.047	0.9416	0	104	77.4	142	19.2	20	
Toluene	0.99	0.047	0.9416	0.006968	105	77	132	18.7	20	
Ethylbenzene	1.0	0.047	0.9416	0	109	77.6	134	19.7	20	
Xylenes, Total	3.1	0.094	2.825	0	109	77.4	132	18.3	20	
Surr: 4-Bromofluorobenzene	0.98		0.9416		104	80	120	0	0	

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 1409358

RcptNo: 1

Received by/date: CS 09/09/14

Logged By: **Michelle Garcia** 9/9/2014 8:57:00 AM *Michelle Garcia*

Completed By: **Michelle Garcia** 9/9/2014 10:43:25 AM *Michelle Garcia*

Reviewed By: CS 09/09/14

Chain of Custody

1. Custody seals intact on sample bottles? Yes No Not Present
2. Is Chain of Custody complete? Yes No Not Present
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes No NA
5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
Not required
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples (except VOA and ONG) properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. VOA vials have zero headspace? Yes No No VOA Vials
11. Were any sample containers received broken? Yes No
12. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____

By Whom: _____ Via: eMail Phone Fax In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	6.2	Good	Yes			

Chain-of-Custody Record

Client: SMA

Mailing Address: 201 S Helene St.
 Carlsbad NM 88220

Phone #: 575 689 7040

email or Fax#: Austin.Weyant@Sands
 Mike@Sands

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation:
 NELAP Other

EDD (Type)

Turn-Around Time:
 Standard Rush

Project Name: Black Lake 5

Project #: _____

Project Manager: Austin Weyant

Sampler: J. Sprague

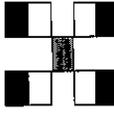
On Ice: Yes No

Sample Temperature: 6.2°

Container Type and #

Preservative Type

HEAL No. 1409358



HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

TPH (Method 418.1)	TPH (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	300.0 Chlorides	Air Bubbles (Y or N)
X	X							X	
X	X							X	
X	X							X	
X	X								

Received by: *Juan L Sprague* Date: 09/09/14 Time: 0857

Received by: *Belvin Sam* Date: 09/14 Time: 0857

Remarks: Pg 2/2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



December 23, 2014

AUSTIN WEYANT
SOUDER MILLER AND ASSOCIATES
201 S. HALAGUENO
CARLSBAD, NM 88220

RE: MEWBOURNE BLACK LAKE SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 12/18/14 16:11.

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,

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:

 SOUDER MILLER AND ASSOCIATES
 AUSTIN WEYANT
 201 S. HALAGUENO
 CARLSBAD NM, 88220
 Fax To: NONE

Received:	12/18/2014	Sampling Date:	12/12/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	MEWBOURNE BLACK LAKE SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	BLACK LAKE		

Sample ID: BL-5 (H403883-01)

Analyte	Result	Reporting Limit	Analyzed By: AP						
			Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	12/22/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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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



Celey D. Keene, Lab Director/Quality Manager

December 05, 2014

AUSTIN WEYANT

SOUDER MILLER AND ASSOCIATES

201 S. HALAGUENO

CARLSBAD, NM 88220

RE: BLACK LAKE 5

Enclosed are the results of analyses for samples received by the laboratory on 12/03/14 16:10.

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:

 SOUDER MILLER AND ASSOCIATES
 AUSTIN WEYANT
 201 S. HALAGUENO
 CARLSBAD NM, 88220
 Fax To: NONE

Received:	12/03/2014	Sampling Date:	11/26/2014
Reported:	12/05/2014	Sampling Type:	Soil
Project Name:	BLACK LAKE 5	Sampling Condition:	Cool & Intact
Project Number:	MEWBOURNE	Sample Received By:	Jodi Henson
Project Location:	BLACK LAKE 5		

Sample ID: BL - 1 (H403690-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	12/04/2014	ND	400	100	400	3.92	

Sample ID: BL - 2 (H403690-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	12/04/2014	ND	400	100	400	3.92	

Sample ID: BL - 3 (H403690-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	12/04/2014	ND	400	100	400	3.92	

Sample ID: BL - 4 (H403690-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	12/04/2014	ND	400	100	400	3.92	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 SOUDER MILLER AND ASSOCIATES
 AUSTIN WEYANT
 201 S. HALAGUENO
 CARLSBAD NM, 88220
 Fax To: NONE

 Received: 12/03/2014
 Reported: 12/05/2014
 Project Name: BLACK LAKE 5
 Project Number: MEWBOURNE
 Project Location: BLACK LAKE 5

 Sampling Date: 11/26/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BL - 5 (H403690-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	12/04/2014	ND	400	100	400	3.92	

Sample ID: BL - 6 (H403690-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	12/04/2014	ND	400	100	400	3.92	

Sample ID: BL - 7 (H403690-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	12/04/2014	ND	400	100	400	3.92	

Sample ID: BL - 8 (H403690-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/04/2014	ND	400	100	400	3.92	

Sample ID: BL - 9 (H403690-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	12/04/2014	ND	400	100	400	3.92	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 SOUDER MILLER AND ASSOCIATES
 AUSTIN WEYANT
 201 S. HALAGUENO
 CARLSBAD NM, 88220
 Fax To: NONE

 Received: 12/03/2014
 Reported: 12/05/2014
 Project Name: BLACK LAKE 5
 Project Number: MEWBOURNE
 Project Location: BLACK LAKE 5

 Sampling Date: 11/26/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BL - 10 (H403690-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/04/2014	ND	400	100	400	3.92	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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- 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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Souder Miller and Associates

Project Manager: Austin Weyant

Address: 201 s Halaqueno

City: Calrsbad State: NM Zip: 88220

Phone #: 575-689-7040 Fax #:

Project #:

Project Name: Mewbourne- Black Lake 5

Project Location: Black Lake 5

Sampler Name: Lucas Middleton

FOR LAB USE ONLY

Lab I.D.

BILL TO

P.O. #:

Company: Mewbourne

Attn: Zach Thomas

Address: P.O Box 5270

City: Hobbs

State: NM Zip: 88241

Phone #: 575-602-2188

Fax #:

ANALYSIS REQUEST

Chlorides

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME					
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE							
1	G				X		11/26/2014	2:30 PM	X					
2	G				X		11/26/2014	2:30 PM	X					
3	G				X		11/26/2014	2:30 PM	X					
4	G				X		11/26/2014	2:30 PM	X					
5	G				X		11/26/2014	2:30 PM	X					
6	G				X		11/26/2014	2:30 PM	X					
7	G				X		11/26/2014	2:30 PM	X					
8	G				X		11/26/2014	2:30 PM	X					
9	G				X		11/26/2014	2:30 PM	X					
10	G				X		11/26/2014	2:30 PM	X					

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 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.

Relinquished By: *[Signature]*

Date: 11/13/14

Time: 4:10

Date: _____

Time: _____

Received By: *[Signature]*

Date: _____

Time: _____

Received By: *[Signature]*

Date: _____

Time: _____

Sample Condition

Cool Intact Yes No

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: *5.22*

Checked By: *[Signature]*

Phone Result: Yes No

Fax Result: Yes No

REMARKS:

Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 #54

November 12, 2014

AUSTIN WEYANT

SOUDER MILLER AND ASSOCIATES

201 S. HALAGUENO

CARLSBAD, NM 88220

RE: BLACK LAKE 5 PA

Enclosed are the results of analyses for samples received by the laboratory on 11/06/14 11:00.

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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 SOUDER MILLER AND ASSOCIATES
 AUSTIN WEYANT
 201 S. HALAGUENO
 CARLSBAD NM, 88220
 Fax To: NONE

Received:	11/06/2014	Sampling Date:	10/31/2014
Reported:	11/12/2014	Sampling Type:	Soil
Project Name:	BLACK LAKE 5 PA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	BLACK LAKE 5 PA		

Sample ID: L1: S1 (H403421-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9730	16.0	11/10/2014	ND	400	100	400	0.00	

Sample ID: L1: S2 (H403421-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	11/10/2014	ND	400	100	400	0.00	

Sample ID: L1: S3 (H403421-03)

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	11/10/2014	ND	1.84	91.9	2.00	4.93	
Toluene*	<0.050	0.050	11/10/2014	ND	1.79	89.5	2.00	1.72	
Ethylbenzene*	<0.050	0.050	11/10/2014	ND	1.72	86.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	11/10/2014	ND	5.10	84.9	6.00	3.06	
Total BTEX	<0.300	0.300	11/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	11/10/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 SOUDER MILLER AND ASSOCIATES
 AUSTIN WEYANT
 201 S. HALAGUENO
 CARLSBAD NM, 88220
 Fax To: NONE

Received:	11/06/2014	Sampling Date:	10/31/2014
Reported:	11/12/2014	Sampling Type:	Soil
Project Name:	BLACK LAKE 5 PA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	BLACK LAKE 5 PA		

Sample ID: L2: S1 (H403421-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	11/10/2014	ND	400	100	400	0.00	

Sample ID: L2: S2 (H403421-05)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/10/2014	ND	1.84	91.9	2.00	4.93	
Toluene*	<0.200	0.200	11/10/2014	ND	1.79	89.5	2.00	1.72	
Ethylbenzene*	<0.200	0.200	11/10/2014	ND	1.72	86.0	2.00	2.09	
Total Xylenes*	<0.600	0.600	11/10/2014	ND	5.10	84.9	6.00	3.06	
Total BTEX	<1.20	1.20	11/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	11/10/2014	ND	400	100	400	0.00	

Sample ID: L3: S1 (H403421-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	11/10/2014	ND	400	100	400	3.92	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 SOUDER MILLER AND ASSOCIATES
 AUSTIN WEYANT
 201 S. HALAGUENO
 CARLSBAD NM, 88220
 Fax To: NONE

Received:	11/06/2014	Sampling Date:	10/31/2014
Reported:	11/12/2014	Sampling Type:	Soil
Project Name:	BLACK LAKE 5 PA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	BLACK LAKE 5 PA		

Sample ID: L3: S2 (H403421-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	11/10/2014	ND	400	100	400	3.92	

Sample ID: L3: S3 (H403421-08)

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	11/10/2014	ND	1.84	91.9	2.00	4.93	
Toluene*	<0.050	0.050	11/10/2014	ND	1.79	89.5	2.00	1.72	
Ethylbenzene*	<0.050	0.050	11/10/2014	ND	1.72	86.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	11/10/2014	ND	5.10	84.9	6.00	3.06	
Total BTEX	<0.300	0.300	11/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	11/10/2014	ND	400	100	400	3.92	

Sample ID: L1: S1 (H403421-09)

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	11/10/2014	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 SOUDER MILLER AND ASSOCIATES
 AUSTIN WEYANT
 201 S. HALAGUENO
 CARLSBAD NM, 88220
 Fax To: NONE

 Received: 11/06/2014
 Reported: 11/12/2014
 Project Name: BLACK LAKE 5 PA
 Project Number: NONE GIVEN
 Project Location: BLACK LAKE 5 PA

 Sampling Date: 10/31/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: L4: S2 (H403421-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/10/2014	ND	400	100	400	3.92	

Sample ID: L5: S1 (H403421-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	11/10/2014	ND	400	100	400	3.92	

Sample ID: L5: S2 (H403421-12)

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	11/10/2014	ND	1.84	91.9	2.00	4.93	
Toluene*	0.109	0.050	11/10/2014	ND	1.79	89.5	2.00	1.72	
Ethylbenzene*	<0.050	0.050	11/10/2014	ND	1.72	86.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	11/10/2014	ND	5.10	84.9	6.00	3.06	
Total BTEX	<0.300	0.300	11/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	11/10/2014	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 SOUDER MILLER AND ASSOCIATES
 AUSTIN WEYANT
 201 S. HALAGUENO
 CARLSBAD NM, 88220
 Fax To: NONE

 Received: 11/06/2014
 Reported: 11/12/2014
 Project Name: BLACK LAKE 5 PA
 Project Number: NONE GIVEN
 Project Location: BLACK LAKE 5 PA

 Sampling Date: 10/31/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: L6: S1 (H403421-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	11/10/2014	ND	400	100	400	3.92	

Sample ID: L6: S2 (H403421-14)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/10/2014	ND	1.84	91.9	2.00	4.93	
Toluene*	<0.100	0.100	11/10/2014	ND	1.79	89.5	2.00	1.72	
Ethylbenzene*	<0.100	0.100	11/10/2014	ND	1.72	86.0	2.00	2.09	
Total Xylenes*	<0.300	0.300	11/10/2014	ND	5.10	84.9	6.00	3.06	
Total BTEX	<0.600	0.600	11/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	11/10/2014	ND	400	100	400	3.92	

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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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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Souder Miller and Associates

Project Manager: Austin Weyant

Address: 201 s Halagueno

City: Calrabad State: NM Zip: 88220

Phone #: 575-689-7040 Fax #:

Project #: Project Owner:

Project Name: Black Lake 5 PA Sampling

Project Location: Black Lake 5 PA

Sampler Name: Lucas Middleton

FOR LAB USE ONLY

Lab I.D.

BILL TO

P.O. #:

Company: Mewbourne

Attn: Zach Thomas

Address: P.O Box 5270

City: Hobbs

State: NM Zip: 88241

Phone #: 575-602-2188

Fax #:

ANALYSIS REQUEST

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING DATE	TIME	Chlorides	BTEX
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL				
1					X						10/31/2014	1:30	X	
2					X						11/4/2014	1:30	X	
3					X						11/2/2014	1:30	X	
4					X						11/3/2014	1:30	X	
5					X						11/4/2014	1:30	X	
6					X						11/5/2014	1:30	X	
7					X						11/6/2014	1:30	X	
8					X						11/7/2014	1:30	X	
9					X						11/8/2014	1:30	X	
10					X						11/9/2014	1:30	X	

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Relinquished By:

Date: 11-10-14
 Time: 1:00

Received By: *[Signature]*

Received By: *[Signature]*

Received By: *[Signature]*

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:

REMARKS:

Relinquished By:

Date: _____
 Time: _____

Received By: *[Signature]*

Received By: *[Signature]*

Received By: *[Signature]*

Sample Condition: Cool Intact Yes No
 CHECKED BY: *[Signature]* (Initials)

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: *3.8c*

Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

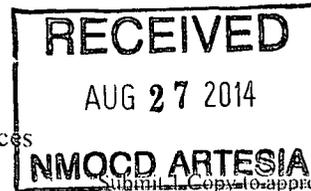
#521



APPENDIX B
C-141INITAL
C-141 FINAL

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505



Form C-141
Revised August 8, 2011

Submit Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NAB1424127656 OPERATOR Initial Report Final Report

Name of Company: Mewbourne Oil Company <i>14744</i>	Contact: Zack Thomas
Address: PO Box 5270 Hobbs NM 88241	Telephone No. 575-393-5905
Facility Name: Black Lake 5 PA St. Com #1H	Facility Type: Producing Oil Well

Surface Owner: State	Mineral Owner: State	API No. 30-015-41124
----------------------	----------------------	----------------------

LOCATION OF RELEASE

Unit Letter P	Section 5	Township 25S	Range 28E	Feet from the 150'	North/South Line South	Feet from the 330'	East/West Line East	County Eddy
------------------	--------------	-----------------	--------------	-----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude 32.1523553 Longitude -104.1021419

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 650 bbls	Volume Recovered: 580 bbls
Source of Release: Water Tank	Date and Hour of Occurrence 8-24-14	Date and Hour of Discovery 8-24-14 8:00 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Water transfer pump failed causing water tanks to run over into secondary containment. Secondary containment also ran over putting an estimated 100 bbls on the ground east of tanks out into the pasture. Well was shut-in upon pumper arrival to stop the release.		
Describe Area Affected and Cleanup Action Taken.* Affected areas- Well pad around tank containment on northeast side. Water also ran off location on Northeast side down an estimated 300 yards through the pasture toward Devon location. Cleanup Action- All contaminated caliche and topsoil will be dug out and hauled off. Tanks and containment will be cleaned with steamer and vacuum trucks. All produced water that was recovered (580bbls) was hauled off to a SWD. Final remediation will be conducted in accordance with the NMOCD's Guidelines for Remediation of Spills, Leaks and Releases.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

Signature: <i>Z. Thomas</i>	OIL CONSERVATION DIVISION	
Printed Name: Zack Thomas	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Environmental Rep.	Approval Date: <i>8/29/14</i>	Expiration Date: <i>N/A</i>
E-mail Address: zthomas@mewbourne.com	Conditions of Approval: Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:	Attached <input type="checkbox"/>
Date: 8-27-14 Phone: 575-602-2188	<i>8/29/14</i>	

* Attach Additional Sheets If Necessary

28P-2459

NM OIL CONSERVATION
ARTESIA DISTRICT

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

OCT 15 2014

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED by appropriate District Office in
accordance with 19/15.29 NMAC.

Release Notification and Corrective Action

NAB1428950747

OPERATOR

Initial Report Final Report

Name of Company: Mewbourne Oil Company 14744		Contact: Zack Thomas
Address: PO Box 5270 Hobbs NM 88241		Telephone No. 575-393-5905
Facility Name: Black Lake 5 PA St. Com #1H		Facility Type: Producing Oil Well
Surface Owner: State	Mineral Owner: State	API No. 30-015-41124

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	5	25S	28E	150'	South	330'	East	Eddy

Latitude 32.1523553 Longitude -104.1021419

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Produced water estimated 430 bbls.	Volume Recovered: PW(420 bbls)
Source of Release: Water Tank	Date and Hour of Occurrence: 10-13-14	Date and Hour of Discovery: 10-13-14 12:00 pm
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Heather Patterson	
By Whom? Zack Thomas	Date and Hour: 10-14-14 7:35 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Water transfer pump failed causing water tanks to run over into secondary containment. Secondary containment also ran over putting an estimated 30 bbls on the ground east of tanks out into the pasture. Well was shut-in upon pumper arrival to stop the release. Vacuum trucks recovered all standing fluid.		
Describe Area Affected and Cleanup Action Taken.* Affected areas- Well pad around tank secondary containment on northeast side. Well pad surface in between tanks and well head. Water also ran off location on Northeast side down an estimated 200 yards through the pasture. Cleanup Action- All contaminated caliche and topsoil will be dug out and hauled off. All produced water that was recovered (420 bbls) was hauled off to a SWD. Final remediation will be conducted in accordance with the NMOCD's Guidelines for Remediation of Spills, Leaks and Releases.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

Signature: <i>Z. Thomas</i>	OIL CONSERVATION DIVISION	
Printed Name: Zack Thomas	Signed By: <i>Mike Brannon</i> Approved by Environmental Specialist	
Title: Environmental Rep.	Approval Date: <u>11/16/14</u>	Expiration Date:
E-mail Address: zthomas@mewbourne.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10-14-14	Phone: 575-602-2188	

Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: 11/16/14

2RP-2555

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Mewbourne Oil Company	Contact: Zack Thomas
Address: PO Box 5270 Hobbs NM 88241	Telephone No. 575-393-5905
Facility Name: Black Lake 5 PA St. Com #1H	Facility Type: Producing Oil Well
Surface Owner: State	Mineral Owner: State
API No. 30-015-41124	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	5	25S	28E	150'	South	330'	East	Eddy

Latitude 32.1523553 Longitude -104.1021419

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 650 bbls	Volume Recovered: 580 bbls
Source of Release: Water Tank	Date and Hour of Occurrence 8-24-14	Date and Hour of Discovery 8-24-14 8:00 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Water transfer pump failed causing water tanks to run over into secondary containment. Secondary containment also ran over putting an estimated 100 bbls on the ground east of tanks out into the pasture. Well was shut-in upon pumper arrival to stop the release.

Describe Area Affected and Cleanup Action Taken.*

Affected areas Well pad around tank secondary containment on northeast side. Well pad surface in between tanks and well head. Water also ran off location on Northeast side down an estimated 200 yards through the pasture.
Cleanup Action- All produced water that was recovered (580 bbls) and was hauled off to a SWD. Truck and Tractor LLC has excavated the contaminated soil. All contaminated soil over the remediation limits was removed and disposed at an approved NMOCD disposal site. Final remediation was conducted in accordance with the NMOCD's Guidelines for Remediation of Spills, Leaks and Releases.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Zack Thomas	Approved by Environmental Specialist:	
Title: Environmental Rep.	Approval Date:	Expiration Date:
E-mail Address: zthomas@mewbourne.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8-27-14	Phone: 575-602-2188	

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Mewbourne Oil Company	Contact: Zack Thomas
Address: PO Box 5270 Hobbs NM 88241	Telephone No. 575-393-5905
Facility Name: Black Lake 5 PA St. Com #1H	Facility Type: Producing Oil Well

Surface Owner: State	Mineral Owner: State	API No. 30-015-41124
----------------------	----------------------	----------------------

LOCATION OF RELEASE

Unit Letter P	Section 5	Township 25S	Range 28E	Feet from the 150'	North/South Line South	Feet from the 330'	East/West Line East	County Eddy
------------------	--------------	-----------------	--------------	-----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude 32.1523553 Longitude -104.1021419

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Produced water estimated 430 bbls.	Volume Recovered: PW(420 bbls)
Source of Release: Water Tank	Date and Hour of Occurrence 10-13-14	Date and Hour of Discovery 10-13-14 12:00 pm
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Heather Patterson	
By Whom? Zack Thomas	Date and Hour 10-14-14 7:35 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Water transfer pump failed causing water tanks to run over into secondary containment. Secondary containment also ran over putting an estimated 30 bbls on the ground east of tanks out into the pasture. Well was shut-in upon pumper arrival to stop the release. Vacuum trucks recovered all standing fluid.

Describe Area Affected and Cleanup Action Taken.*
Affected areas- Well pad around tank secondary containment on northeast side. Well pad surface in between tanks and well head. Water also ran off location on Northeast side down an estimated 200 yards through the pasture.
Cleanup Action- All produced water that was recovered (420 bbls) was hauled off to a SWD. Truck and Tractor LLC has excavated the contaminated soil. All contaminated soil over the remediation limits was removed and disposed at an approved NMOCD disposal site. Final remediation was conducted in accordance with the NMOCD's Guidelines for Remediation of Spills, Leaks and Releases.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Zack Thomas	Approved by Environmental Specialist:	
Title: Environmental Rep.	Approval Date:	Expiration Date:
E-mail Address: zthomas@mewbourne.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 01-14-15	Phone: 575-602-2188	



APPENDIX C

WASTE MANIFEST

LEA LAND, LLC

OIL FIELD WASTE LANDFILL

1300 W. MAIN STREET
OKLAHOMA CITY, OK 73106

PHONE: 405-236-4257
FAX: 405-236-4261

Bill To:

RONNIE LUCAS
MEWBOURNE OIL COMPANY
P.O. BOX 5270
HOBBS, NM 88241

INVOICE # 19640

Date: 12/11/2014

Well Number: 52992000

Charge to: Black Lake 5 PA
State Com #1 H

Date(s) of Service: 12/01/14 - 12/02/14

Manifest #: 105245, 105313

Ship Via: Truck & Tractor

Qty	U/M	Description	Unit Price	Total
52.41	Tons	Non-regulated & non-hazardous waste (soil)	\$22.00	\$1,153.02
		Landfill located at Carlsbad, NM		

TERMS: NET 30

Make all checks payable to LEA LAND, LLC

If you have any questions concerning this invoice, please contact:
Saralyn Hall at 405-519-1187 E-mail: shall119@cox.net

Subtotal	\$1,153.02
Sales tax rate	5.500%
Sales tax	\$63.42
Total	\$1,216.44

Thank you for your business!

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Truck + Tractor

NON-HAZARDOUS WASTE MANIFEST

NO **105245**

1. PAGE ___ OF ___

2. TRAILER NO. # **01**

G	3. COMPANY NAME Mewbourne Oil	4. ADDRESS 701 S. Cecil St. CITY STATE ZIP Hobbs NM 88240			5. PICK-UP DATE 12/1/2014				
	PHONE NO. (575) 393-5905				6. TNRCC I.D. NO.				
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				8. CONTAINERS	9. TOTAL	10. UNIT	11. TEXAS	
	a. Non-Regulated, Non Hazardous Waste				No. 1	Type CM	QUANTITY	Wt/Vol.	WASTE ID #
	b.								
	c.								
R	d. wt: 26,740 260LbD 25,460								
	12. COMMENTS OR SPECIAL INSTRUCTIONS: BLACK LAKE 5 PA STATE COM 1 H TOTAL 7846D					13. WASTE PROFILE NO. 708592			
T	14. IN CASE OF EMERGENCY OR SPILL, CONTACT								
	NAME Kin Slaughter		PHONE NO 575-887-4048		24-HOUR EMERGENCY NO.				
O	15. GENERATOR'S CERTIFICATION: I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC								
	PRINTED/TYPED NAME				SIGNATURE		DATE		
T R A N S P O R T E R S	16. TRANSPORTER (1)				17. TRANSPORTER (2)				
	NAME: TRUCK & TRACTOR				NAME:				
	TEXAS I.D. NO.				TEXAS I.D. NO.				
	IN CASE OF EMERGENCY CONTACT: MATT GANDI				IN CASE OF EMERGENCY CONTACT:				
EMERGENCY PHONE: (432) 238-1227				EMERGENCY PHONE:					
18. TRANSPORTER (1): Acknowledgment of receipt of material				19. TRANSPORTER (2): Acknowledgment of receipt of material					
PRINTED/TYPED NAME: Bobby Brooks				PRINTED/TYPED NAME _____					
SIGNATURE: <i>Bobby Brooks</i> DATE: 12/1/2014				SIGNATURE _____ DATE _____					
D F I S P O S I T A L L Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM			PHONE: 575-887-4048			
	PERMIT NO. WM-01-035 - New Mexico			20. COMMENTS					
	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.								
AUTHORIZED SIGNATURE <i>Donna Medina</i>				CELL NO. _____		DATE 12/1/2014	TIME 10:15		

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Truck & Tractor

NON-HAZARDOUS WASTE MANIFEST

NO **105313**

1. PAGE ___ OF ___

2. TRAILER NO. # **01**

G E N E R A T O R	3. COMPANY NAME Mewbourne Oil PHONE NO. (575) 393-5905	4. ADDRESS 701 S. Cecil St. CITY STATE ZIP Hobbs NM 88240	5. PICK-UP DATE 12/2/2014		
	6. TNRCC I.D. NO.				
N E R A T O R	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non Hazardous Waste		8. CONTAINERS No. Type 1 CM	9. TOTAL QUANTITY	10. UNIT Wt/Vol.
	b.				
	c.				
	d. wt: 26,360				
A T T R I B U T E R	12. COMMENTS OR SPECIAL INSTRUCTIONS: BLACK LAKE 5 PA STATE COM 1 H			13. WASTE PROFILE NO. 708592	
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT				
O R I G I N A L	NAME Kin Slaughter		PHONE NO 575-887-4048	24-HOUR EMERGENCY NO.	
	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC				
T R A N S P O R T E R S	PRINTED/TYPED NAME		SIGNATURE		DATE
	16. TRANSPORTER (1) NAME: TRUCK & TRACTOR TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: MATT GANDI EMERGENCY PHONE: (432) 238-1227		17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:		
D I S P O S I T O R Y	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Bobby Brooks SIGNATURE <i>Bobby Brooks</i> DATE 12/2/2014		19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____		
	10. PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS		
D I S P O S I T O R Y	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
	AUTHORIZED SIGNATURE <i>Santos Gonzalez</i>		CELL NO.	DATE 12/2/2014	TIME 10:40

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Truck & Tractor

NON-HAZARDOUS WASTE MANIFEST

NO **105485**

1. PAGE ___ OF ___

2. TRAILER NO. **#01**

G E	3. COMPANY NAME Mewbourne Oil PHONE NO. (575) 393-5905	4. ADDRESS 701 S. Cecil St. CITY STATE ZIP Hobbs NM 88240	5. PICK-UP DATE 12/5/2014			
	6. TNRCC I.D. NO.					
N E R A	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	Non-Regulated, Non Hazardous Waste		1 CM			
	b.					
	c.					
R A	d. wt: 25240 23280					
	12. COMMENTS OR SPECIAL INSTRUCTIONS: BLACK LAKE 5 PA STATE COM 1 H		13. WASTE PROFILE NO. 708592		TOTAL 48520	
T O R	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
	NAME Kin Slaughter	PHONE NO 575-887-4048	24-HOUR EMERGENCY NO.			
O R	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED/TYPED NAME	SIGNATURE	DATE			
T R A N S P O R T E R S	16. TRANSPORTER (1)		17. TRANSPORTER (2)			
	NAME: TRUCK & TRACTOR		NAME:			
	TEXAS I.D. NO.		TEXAS I.D. NO.			
	IN CASE OF EMERGENCY CONTACT: MATT GANDI		IN CASE OF EMERGENCY CONTACT:			
EMERGENCY PHONE: (432) 238-1227		EMERGENCY PHONE:				
18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material				
PRINTED/TYPED NAME: Bobby Brooks		PRINTED/TYPED NAME: _____				
SIGNATURE: <i>[Signature]</i> DATE: 12/5/2014		SIGNATURE: _____ DATE: _____				
D I S P O S I T O R Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
	AUTHORIZED SIGNATURE <i>[Signature]</i>		CELL NO.	DATE 12/5/2014	TIME 11:25	

Mewbourne Oil Weights Statement - Total Received

<i>Receive Date</i>	<i>Manifest Number</i>	<i>Lease Name</i>	<i>Weight (lbs.)</i>	<i>Weight (Tons)</i>
12/16/2014	105846	Black Lake 5 PA State Com #1 H	76,820	38.41
12/17/2014	105897	Black Lake 5 PA State Com #1 H	77,680	38.84
12/18/2014	105931	Black Lake 5 PA State Com #1 H	26,980	13.49
			TOTALS:	
			181,480	90.74
			<i>lbs.</i>	<i>Tons</i>

Lea Land Landfill New Mexico
Mile Market # 64 US Highway 62/180
30 miles East of Carlsbad, NM * (505) 887-4048

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Truck & Tractor

NON-HAZARDOUS WASTE MANIFEST NO 105846 1. PAGE ___ OF ___ 2. TRAILER NO. # 01

G E	3. COMPANY NAME Mewbourne Oil	4. ADDRESS 701 S. Cecil St.			5. PICK-UP DATE 12/16/2014
	PHONE NO. (575) 393-5905	CITY Hobbs	STATE NM	ZIP 88240	6. TNRCC I.D. NO.

N E R	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non Hazardous Waste	8. CONTAINERS No. 1 Type CM	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	b.				
	c.				

12. COMMENTS OR SPECIAL INSTRUCTIONS: BLACK LAKE 5 PA STATE COM 1 H	13. WASTE PROFILE NO. 708592
---	--

14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
NAME Kin Slaughter	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.

15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
--------------------	-----------	------

T R A N S P O R T E R S	16. TRANSPORTER (1)	17. TRANSPORTER (2)
	NAME: TRUCK & TRACTOR	NAME:
	TEXAS I.D. NO.	TEXAS I.D. NO.
	IN CASE OF EMERGENCY CONTACT: MATT GANDI	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (432) 238-1227	EMERGENCY PHONE:	
18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material	
PRINTED/TYPED NAME: Bobby Brooks	PRINTED/TYPED NAME _____	
SIGNATURE: DATE: 12/16/2014	SIGNATURE _____ DATE _____	

D F I A S P I O L S I A T Y	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS	

21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			
AUTHORIZED SIGNATURE 	CELL NO. _____	DATE: 12/16/2014	TIME 10:00

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Truck & Tractor
#01

NON-HAZARDOUS WASTE MANIFEST

NO **105897**

1. PAGE ___ OF ___

2. TRAILER NO. #01

G E	3. COMPANY NAME Mewbourne Oil PHONE NO. (575) 393-5905	4. ADDRESS 701 S. Cecil St. CITY STATE ZIP Hobbs NM 88240	5. PICK-UP DATE 12/17/2014		
			6. TNRCC I.D. NO.		
N E R A T O R	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.
	Non-Regulated, Non Hazardous Waste		1 CM		
	b.				
	c.				
d. wt: 26,310 25410 25860					
12. COMMENTS OR SPECIAL INSTRUCTIONS: BLACK LAKE 5 PA STATE COM 1 H			13. WASTE PROFILE NO. 708592		
			TOTAL 77680		
14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
NAME Kin Slaughter		PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.		
15. GENERATOR'S CERTIFICATION: I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
PRINTED/TYPED NAME		SIGNATURE		DATE	
T R A N S P O R T E R S	16. TRANSPORTER (1)		17. TRANSPORTER (2)		
	NAME: TRUCK & TRACTOR		NAME:		
	TEXAS I.D. NO.		TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: MATT GANDI		IN CASE OF EMERGENCY CONTACT:		
EMERGENCY PHONE: (432) 238-1227		EMERGENCY PHONE:			
18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material			
PRINTED/TYPED NAME: Bobby Brooks		PRINTED/TYPED NAME: _____			
SIGNATURE: [Signature] DATE: 12/17/2014		SIGNATURE: _____ DATE: _____			
D F I S P O S I T A T I O N	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS		
	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
	AUTHORIZED SIGNATURE [Signature]		CELL NO.	DATE 12/17/2014	TIME 10:45

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Trucks & Tractor

NON-HAZARDOUS WASTE MANIFEST

NO **105931**

1. PAGE ___ OF ___

2. TRAILER NO. # **01**

G	3. COMPANY NAME Mewbourne Oil	4. ADDRESS 701 S. Cecil St. CITY STATE ZIP			5. PICK-UP DATE 12/18/2014		
	PHONE NO. (575) 393-5905				6. TNRCC I.D. NO.		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	a. Non-Regulated, Non Hazardous Waste			1	CM		
N	b.						
	c.						
R	d. wt: 26,980						
	12. COMMENTS OR SPECIAL INSTRUCTIONS: BLACK LAKE 5 PA STATE COM 1 H				13. WASTE PROFILE NO. 708592		
A	14. IN CASE OF EMERGENCY OR SPILL, CONTACT						
	NAME Kin Slaughter		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.		
O	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC						
	PRINTED/TYPED NAME			SIGNATURE		DATE	
T R A N S P O R T E R S	16. TRANSPORTER (1)			17. TRANSPORTER (2)			
	NAME: TRUCK & TRACTOR			NAME:			
	TEXAS I.D. NO.			TEXAS I.D. NO.			
	IN CASE OF EMERGENCY CONTACT: MATT GANDI			IN CASE OF EMERGENCY CONTACT:			
EMERGENCY PHONE: (432) 238-1227			EMERGENCY PHONE:				
18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material				
PRINTED/TYPED NAME Bobby Brooks			PRINTED/TYPED NAME _____				
SIGNATURE <i>Bobby Brooks</i>			DATE 12/18/2014		SIGNATURE _____		DATE _____
D I S P O S I T A T I O N	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048		
	PERMIT NO. WM-01-035 - New Mexico			20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.						
L A Y	AUTHORIZED SIGNATURE <i>Santos Gonzalez</i>			CELL NO. _____		DATE 12/18/2014	TIME 9:25

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Truck + tractor

NON-HAZARDOUS WASTE MANIFEST NO 104990 1. PAGE ___ OF ___ 2. TRAILER NO. #01

G E	3. COMPANY NAME Mewbourne Oil PHONE NO. (575) 393-5905	4. ADDRESS 701 S. Cecil St. CITY STATE ZIP Hobbs NM 88240	5. PICK-UP DATE 11/21/2014			
				6. TNRCC I.D. NO.		
N E R A T O R	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	Non-Regulated, Non Hazardous Waste		1 CM			
	b.					
	c.					
d. wt: 28,020. 24,700						
12. COMMENTS OR SPECIAL INSTRUCTIONS: BLACK LAKE 5 PA STATE COM 1 H				13. WASTE PROFILE NO. 708592		
14. IN CASE OF EMERGENCY OR SPILL, CONTACT						
NAME Kin Slaughter		PHONE NO 575-887-4048		24-HOUR EMERGENCY NO.		
15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC						
PRINTED/TYPED NAME			SIGNATURE		DATE	
T R A N S P O R T E R S	16. TRANSPORTER (1)			17. TRANSPORTER (2)		
	NAME: TRUCK & TRACTOR			NAME:		
	TEXAS I.D. NO.			TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: MATT GANDI			IN CASE OF EMERGENCY CONTACT:		
EMERGENCY PHONE: (432) 238-1227			EMERGENCY PHONE:			
18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material			
PRINTED/TYPED NAME Sobby Brooks			PRINTED/TYPED NAME _____			
SIGNATURE Sobby Brooks DATE 11/21/2014			SIGNATURE _____ DATE _____			
D I S P O S I T O R Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico			20. COMMENTS		
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
AUTHORIZED SIGNATURE Donna Hewino			CELL NO. _____		DATE 11/21/2014	TIME 11:25

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Truck + Tractor

NON-HAZARDOUS WASTE MANIFEST

NO **105220**

1. PAGE ___ OF ___

2. TRAILER NO. # **01**

G E N E R A T O R	3. COMPANY NAME Mewbourne Oil	4. ADDRESS 701 S. Cecil St.	5. PICK-UP DATE 11/28/2014			
	PHONE NO. (575) 393-5905	CITY STATE ZIP Hobbs NM 88240	6. TNRCC I.D. NO.			
T R A N S P O R T E R S	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non Hazardous Waste		8. CONTAINERS No. 1 Type CM	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	b.					
	c.					
A U T H O R I Z E D	12. COMMENTS OR SPECIAL INSTRUCTIONS: BLACK LAKE 5 PA STATE COM 1 H		13. WASTE PROFILE NO. 708592			
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
O F F I C E R	NAME Kin Slaughter		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.	
	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
D I S P O S I T I O N	PRINTED/TYPED NAME		SIGNATURE		DATE	
	16. TRANSPORTER (1) NAME: TRUCK & TRACTOR TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: MATT GANDI EMERGENCY PHONE: (432) 238-1227		17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:			
F A C I L I T Y	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME: Bobby Brock SIGNATURE: <i>[Signature]</i> DATE: 11/26/2014		19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME: _____ SIGNATURE: _____ DATE: _____			
	ADDRESS: Lea Land, LLC		PHONE: 575-887-4048		20. COMMENTS	
S I T E	PERMIT NO. WM-01-035 - New Mexico		21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			
	AUTHORIZED SIGNATURE Donna Chino		CELL NO.	DATE 11/26/2014	TIME 3:00	

LEA LAND, LLC

OIL FIELD WASTE LANDFILL

1300 W. MAIN STREET
OKLAHOMA CITY, OK 73106

PHONE: 405-236-4257

FAX: 405-236-4261

Bill To:

RONNIE LUCAS
MEWBOURNE OIL COMPANY
P.O. BOX 5270
HOBBS, NM 88241

INVOICE # 19533

Date: 11/26/2014

Well Number: 52992000

Charge to: Black Lake 5 PA
State Com 1 H

Date(s) of Service: 11/20/2014

Manifest #: 104922

Ship Via: Truck & Tractor

Qty	U/M	Description	Unit Price	Total
27.75	Tons	Non-regulated & non-hazardous waste (soil)	\$22.00	\$610.50
		Landfill located at Carlsbad, NM		

TERMS: NET 30

Make all checks payable to LEA LAND, LLC

If you have any questions concerning this invoice, please contact:

Saralyn Hall at 405-519-1187 E-mail: shall119@cox.net

Subtotal	\$610.50
Sales tax rate	5.500%
Sales tax	\$33.58
Total	\$644.08

Thank you for your business!

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Truck + tractor

NON-HAZARDOUS WASTE MANIFEST NO 104922 1. PAGE ___ OF ___ 2. TRAILER NO. #1

G E	3. COMPANY NAME Mewbourne Oil PHONE NO. (575) 393-5905	4. ADDRESS 701 S. Cecil St. CITY STATE ZIP Hobbs NM 88240	5. PICK-UP DATE 11/20/2014
			6. TNRCC I.D. NO.

N E R	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non Hazardous Waste	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	b.					
	c.					
	d. wt: 28,020 27,480					

12. COMMENTS OR SPECIAL INSTRUCTIONS: BLACK LAKE 5 PA STATE COM 1 H	13. WASTE PROFILE NO. 708592
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14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
NAME Kin Slaughter	PHONE NO 575-887-4048	24-HOUR EMERGENCY NO.

15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
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T R A N S P O R T E R S	16. TRANSPORTER (1)	17. TRANSPORTER (2)
	NAME: TRUCK & TRACTOR	NAME:
	TEXAS I.D. NO.	TEXAS I.D. NO.
	IN CASE OF EMERGENCY CONTACT: MATT GANDI	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (432) 238-1227		EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME Bobby Brooks	PRINTED/TYPED NAME _____	
SIGNATURE [Signature] DATE 11/20/2014	SIGNATURE _____ DATE _____	

D I S P O S I T A L Y	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS

21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE Donna Swino	CELL NO. _____	DATE 11/20/2014	TIME 1:10
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APPENDIX D

PHOTO GALLERY



Affected pasture
before excavation
taken on 10/02/14



Excavation in pasture
taken on 11/26/14



Pasture after
excavation taken on
12/12/14



Pasture behind tank
battery taken on
12/12/14