



Tamano 10 Fed Com #7H

Unit Letter E, Section 10, T18S R31E

API – 30-015-39685

Eddy County, NM

Work Plan

Mike Bratcher
Environmental Specialist
NM Oil Conservation District – Division 2
Artesia, NM 88210

RE: Tamano 10 Fed Com #7H – Remediation Work Plan

Mr. Bratcher,

Mewbourne has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located southwest of Maljamar, NM, in Eddy County. The spill was the result of a flow line developing a pin hole, causing a release of oil and produced water. An estimated 20 bbls was released (8 bbls oil, 12 bbls produced water), and 20 bbls was recovered with a vacuum truck.

Site Assessment and Delineation

On October 30, 2015, DFSI personnel obtained three surface and BGS (below ground surface) samples of the leak area. Each sample was tested for chloride levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). Auger refusal was attained at all three sample points at 5', 8' and 12' BGS respectively. Due to the presence of two high-pressure lines running right through the middle of the leak area, attaining confirmation clean samples for this spill was not possible. Samples that were attained before auger refusal were taken to a lab for confirmation. Those results are attached.

DFSI has conducted a groundwater study of the area and has determined that according to the Chevron-Texaco depth to groundwater map, the average depth to groundwater for this area is 300 foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life is anticipated.

Conclusion

After careful review DFSI on behalf of Mewbourne would like to propose the following:

DFSI proposes to remove the contaminated soil in the spill area to 3' BGS, then install a 20 mil liner. All contaminated soil will be hauled to an approved NM state disposal. The excavated area will be backfilled with native topsoil, and seeded with a BLM approved seed mix.

Following the approval of the above plan, DFSI will submit all proper closure documentation to the NMOCD and BLM in accordance to the State and Federal Guidelines set forth.

Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,

A handwritten signature in black ink that reads "Michael Burton". The signature is written in a cursive, slightly slanted style.

Michael Burton
Environmental Operations Director
Diversified Field Service, Inc.
206 West Snyder
Hobbs, NM 88240
Office: (575)964-8394
Mobile: (575)390-5454
Fax: (575)964-8396
Email: mburton@diversifiedfsi.com

cc Shelly Tucker BLM

Attachments: Site/Sample Map
Sample Data
Groundwater survey
Initial C-141

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: Tamano 10 Fed Com #7H	Facility Type: Producing Oil Well

Surface Owner: BLM	Mineral Owner: BLM	API No. 30-015-39685
--------------------	--------------------	----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	10	18S	31E	2125'	North	455'	West	Eddy

Latitude 32.7624944 Longitude -103.8622333

NATURE OF RELEASE

Type of Release: Oil/produced water	Volume of Release: estimated 20 bbls	Volume Recovered: 8 bbls Oil/ 12bbls PW
Source of Release: Flowline	Date and Hour of Occurrence 7-17-15	Date and Hour of Discovery 7-17-15 10:30 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.*
Flow line developed a pin hole causing release. Well was shut in to stop the release.

Describe Area Affected and Cleanup Action Taken.*
Affected area- Leak point was an estimated 250 yards Southeast of well head in pasture down pipeline right of way. 2000 square feet of the right of way was affected. Vacuum truck was used to recover all standing fluid.

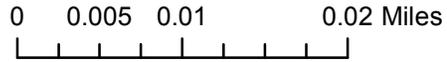
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: 7-20-15	Phone: 575-602-2188	

* Attach Additional Sheets If Necessary

Site Diagram

**Mewbourne, Tamano 10 Fed Com 7H
UL/E, Sec. 10 T18S R31E
Eddy County, NM
Drafted By: Lance Crenshaw, 10-30-15**



**Spill Area:
2,135 sq. ft.**

Legend

Misc_points

Types

-  Electrical Box
-  Power Pole
-  Headers
-  Injection
-  Pumpjacks
-  Tanks
-  Valves
-  Other
-  Soil Bores
-  sample_pts
-  Source

Pipeline

Type

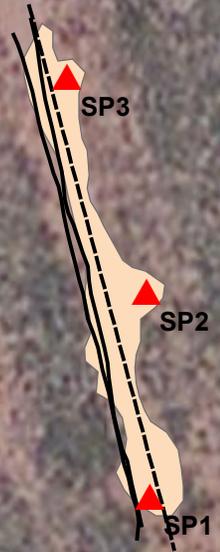
-  Above Ground Line
-  Buried Line

Spill

-  <all other values>

Spill_Media

-  Oil and Produced H2O
-  Oil
-  Other
-  Produced Water



Lance Crenshaw
GIS Technician

Soil Remediation and Ground Water Remediation
Environmental Assessments
Regulatory Compliance



Environmental DFSI Services

Office: 575-964-8394 Cell: 575-441-2359
Fax: 575-964-8396 Email: lcrenshaw@diversifiedfsi.com

Source: Esri, DigitalGlobe, GeoEye, I-c swisstopo, and the GIS User Communi

Diversified Environmental Services

Company Name: Mewbourne
 Location Name: Tamano 10 Fed Com #7H

SP Date: 10/30/2015
 Rel Date: _____

SP1	CHL	PID	SP2	CHL	PID	SP3	CHL	PID	SP4	CHL	PID	SP5	CHL	PID
Surface	1,380	139.5	Surface	1,036	93.5	Surface	1,883	52.1						
1'	147	731.3	1'	145	863	1'	2,026	364.2						
2'	150	740	2'	118	1,337	2'	1,641	575						
3'	266	1,739	3'	87	743	3'	266	522						
4'	823	2,581	4'	116	1,006	4'	85	320						
5'	REFUSAL	REFUSAL	5'	1,427	3,654	5'	149	564.3						
			6'	3,009	3,106	6'	453	385						
			7'	972	5,136	7'	290	482.4						
4'	544		8'	REFUSAL	REFUSAL	8'	268	430						
						9'	280	373						
						10'	477	754.7						
			7'	1020		11'	1,080	925.5						
						12'	REFUSAL	REFUSAL						
						11'	1410							

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples



November 02, 2015

ZACK THOMAS
MEWBOURNE OIL COMPANY
P. O. BOX 5270
HOBBS, NM 88240

RE: TAMANO 10 FED COM #7H

Enclosed are the results of analyses for samples received by the laboratory on 10/30/15 14:20.

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".

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/30/2015	Sampling Date:	10/30/2015
Reported:	11/02/2015	Sampling Type:	Soil
Project Name:	TAMANO 10 FED COM #7H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

Sample ID: SAMPLE PT. 1 @ 4' (H502855-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	11.3	2.00	11/02/2015	ND	1.96	98.0	2.00	0.345	
Toluene*	114	2.00	11/02/2015	ND	2.16	108	2.00	0.207	
Ethylbenzene*	99.8	2.00	11/02/2015	ND	1.96	98.1	2.00	1.19	
Total Xylenes*	146	6.00	11/02/2015	ND	6.23	104	6.00	1.36	
Total BTEX	371	12.0	11/02/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	11/02/2015	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2670	50.0	11/02/2015	ND	208	104	200	1.44		
DRO >C10-C28	10600	50.0	11/02/2015	ND	223	112	200	1.44		

Surrogate: 1-Chlorooctane 175 % 35-147

Surrogate: 1-Chlorooctadecane 249 % 28-171

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/30/2015	Sampling Date:	10/30/2015
Reported:	11/02/2015	Sampling Type:	Soil
Project Name:	TAMANO 10 FED COM #7H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

Sample ID: SAMPLE PT. 2 @ 7' (H502855-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.85	2.00	11/02/2015	ND	1.96	98.0	2.00	0.345	
Toluene*	66.8	2.00	11/02/2015	ND	2.16	108	2.00	0.207	
Ethylbenzene*	76.8	2.00	11/02/2015	ND	1.96	98.1	2.00	1.19	
Total Xylenes*	96.2	6.00	11/02/2015	ND	6.23	104	6.00	1.36	
Total BTEX	245	12.0	11/02/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	11/02/2015	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1970	50.0	11/02/2015	ND	208	104	200	1.44		
DRO >C10-C28	7840	50.0	11/02/2015	ND	223	112	200	1.44		

Surrogate: 1-Chlorooctane 154 % 35-147

Surrogate: 1-Chlorooctadecane 215 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/30/2015	Sampling Date:	10/30/2015
Reported:	11/02/2015	Sampling Type:	Soil
Project Name:	TAMANO 10 FED COM #7H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

Sample ID: SAMPLE PT. 3 @ 11' (H502855-03)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/02/2015	ND	1.96	98.0	2.00	0.345	
Toluene*	1.30	0.100	11/02/2015	ND	2.16	108	2.00	0.207	
Ethylbenzene*	4.41	0.100	11/02/2015	ND	1.96	98.1	2.00	1.19	
Total Xylenes*	20.4	0.300	11/02/2015	ND	6.23	104	6.00	1.36	
Total BTEX	26.1	0.600	11/02/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 145 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	11/02/2015	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	571	50.0	11/02/2015	ND	208	104	200	1.44	
DRO >C10-C28	7460	50.0	11/02/2015	ND	223	112	200	1.44	

Surrogate: 1-Chlorooctane 147 % 35-147

Surrogate: 1-Chlorooctadecane 217 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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



CARDINAL
Laboratories

RUSH

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Newbourn
 Project Manager: Zach Thomas
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: Newbourn
 Project Location: Tamano 10 Fed Com #74
 Sampler Name: Chris Flores
 P.O. #: 19313
 Company: DESI Environmental
 Attn: Laine Crewshaw
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chloride	BTEX	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
<u>H502855</u>															
	<u>1</u>		<u>1</u>			<input checked="" type="checkbox"/>					<u>10-30-2015</u>	<u>9:20 AM</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>2</u>		<u>1</u>			<input checked="" type="checkbox"/>					<u>11:15 AM</u>	<u>11:15 AM</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>3</u>		<u>1</u>			<input checked="" type="checkbox"/>					<u>12:50 PM</u>	<u>12:50 PM</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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 analysis. 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 limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above listed remedies or otherwise.

Relinquished By: _____ Date: 10-30-2015 Received By: _____
 Relinquished By: _____ Date: 2:30 Received By: Laine Crewshaw
 Time: _____

Delivered By: (Circle One) UPS 5:22
 Sampler - UPS - Bus - Other: _____
 Sample Condition: Intact Cool Yes No
 Checked By: _____

REMARKS: email to Zach Thomas @ newbourn.com
revenue @ diversi.fiedesi.com
mbarberson @
mpatterson @
cflores @

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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 3, 9, 4, 10, 11 **Township:** 18S **Range:** 31E