

**RECEIVED**

*By OCD; Dr. Oberding at 1:11 pm, Apr 08, 2015*

# Enmar Investments

## Ellen Sims #9

### REMEDIATION WORK PLAN

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API No. 30-025-31957

1RP-3583

Release Date: February 28<sup>th</sup>, 2015

Unit Letter B, Section 3, Township 23 South, Range 37 East

**APPROVED**

*By OCD; Dr. Oberding at 8:25 am, Apr 10, 2015*

April 6, 2015

**Prepared by:**

Environmental Department  
Diversified Field Service, Inc.  
206 W. Snyder  
Hobbs, NM 88240  
Phone: (575)964-8394  
Fax: (575)393-8396

Tomas Oberding, Phd.  
1625 N. French Dr.  
Hobbs, NM 88240

**RE: Ernmar Investments Ellen Sims #9 Battery – Remediation Work Plan**  
UL/B, Section 3, T20S, R37E  
API No. 30-025-31957

Dr. Oberding,

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

The site is located south of Eunice, NM, in Lea County. The leak site resulted from the production tank running over. All impacted soil is inside an unlined firewall. A C-141 was submitted to the NMOCD on March 25th, 2015.

### **Site Assessment and Delineation**

On March 25th, 2015 DFSI personnel delineated vertically in the leak area. Field samples were taken on four sample points, each sample was tested for chloride levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). All clean field samples were taken to Cardinal Labs of Hobbs to obtain confirmation samples. The results are attached.

DFSI has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the average depth to groundwater for this area is 60 foot below ground surface.

### **Conclusion**

After careful review, DFSI, on behalf of Ernmar Investments, would like to propose the following:

Remove the impacted soil in the battery to a depth of 2' bgs. Haul all contaminated soil to an approved disposal. Backfill with clean caliche and compact.

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

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

Sincerely,



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

Attachments: Initial Form C-141  
Site/Sample Map  
Sample Data  
Lab Analytical Data

# Site Diagram

**Ernmar Investment, Ellen Sims 9**  
**UL/B, Sec. 3 T23S R37E**  
**Lea County, NM**  
**Drafted By: Lance Crenshaw, 3-17-15**

0 0.001 0.002 0.004 Miles

## 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

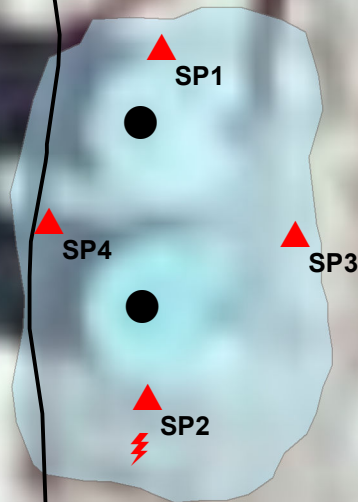
### Spill

-  <all other values>

### Spill\_Media

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

**Spill Area:**  
**648 sq. ft.**



Lance Crenshaw  
GIS Technician

Soil Remediation and Ground Water Remediation  
Environmental Assessments  
Regulatory Compliance



Environmental

**DFS**

Services

Office: 575-964-8394  
Fax: 575-964-8396

Cell: 575-441-2359  
Email: lcrenshaw@diversifiedfsi.com

Source: Esri, DigitalGlobe, GeoEye, AeroGRID, IGN, and the GIS User Community

# Enmar Investments

Ellen Sims #9

## PHOTO PAGE

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4/6/2015





## Diversified Environmental Services

**Company Name:** ENMAR INVESTMENTS  
**Location Name:** ELLEN SIMS #9

SP Date: 3/25/2015  
Rel Date:

[illegible]

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples





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

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March 27, 2015

MIKE BURTON

DIVERSIFIED FIELD SERVICES, INC.

P. O. BOX 5966

HOBBS, NM 88241

RE: ELLEN SIM #9

Enclosed are the results of analyses for samples received by the laboratory on 03/25/15 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](http://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:**

 DIVERSIFIED FIELD SERVICES, INC.  
 MIKE BURTON  
 P. O. BOX 5966  
 HOBBS NM, 88241  
 Fax To: (575) 393-2981

 Received: 03/25/2015  
 Reported: 03/27/2015  
 Project Name: ELLEN SIM #9  
 Project Number: 17934  
 Project Location: NONE GIVEN

 Sampling Date: 03/25/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 9' (H500804-01)**

BTX 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	03/26/2015	ND	2.20	110	2.00	3.92	
Toluene*	<0.050	0.050	03/26/2015	ND	1.98	98.9	2.00	2.08	
Ethylbenzene*	<0.050	0.050	03/26/2015	ND	1.97	98.3	2.00	3.29	
Total Xylenes*	<0.150	0.150	03/26/2015	ND	5.92	98.7	6.00	2.84	
Total BTX	<0.300	0.300	03/26/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	03/26/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2015	ND	203	102	200	0.802	
DRO >C10-C28	75.8	10.0	03/27/2015	ND	212	106	200	1.15	

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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DIVERSIFIED FIELD SERVICES, INC.  
MIKE BURTON  
P. O. BOX 5966  
HOBBS NM, 88241  
Fax To: (575) 393-2981

Received: 03/25/2015  
Reported: 03/27/2015  
Project Name: ELLEN SIM #9  
Project Number: 17934  
Project Location: NONE GIVEN

Sampling Date: 03/25/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 10' (H500804-02)**

BTX 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	03/26/2015	ND	2.20	110	2.00	3.92	
Toluene*	<0.050	0.050	03/26/2015	ND	1.98	98.9	2.00	2.08	
Ethylbenzene*	<0.050	0.050	03/26/2015	ND	1.97	98.3	2.00	3.29	
Total Xylenes*	<0.150	0.150	03/26/2015	ND	5.92	98.7	6.00	2.84	
Total BTX	<0.300	0.300	03/26/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	880	16.0	03/27/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2015	ND	203	102	200	0.802	
DRO >C10-C28	22.1	10.0	03/27/2015	ND	212	106	200	1.15	

Surrogate: 1-Chlorooctane 97.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 110 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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DIVERSIFIED FIELD SERVICES, INC.  
MIKE BURTON  
P. O. BOX 5966  
HOBBS NM, 88241  
Fax To: (575) 393-2981

Received: 03/25/2015  
Reported: 03/27/2015  
Project Name: ELLEN SIM #9  
Project Number: 17934  
Project Location: NONE GIVEN

Sampling Date: 03/25/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 5' (H500804-03)**

BTX 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	03/26/2015	ND	2.20	110	2.00	3.92	
Toluene*	<0.050	0.050	03/26/2015	ND	1.98	98.9	2.00	2.08	
Ethylbenzene*	<0.050	0.050	03/26/2015	ND	1.97	98.3	2.00	3.29	
Total Xylenes*	<0.150	0.150	03/26/2015	ND	5.92	98.7	6.00	2.84	
Total BTX	<0.300	0.300	03/26/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	1020	16.0	03/27/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2015	ND	203	102	200	0.802	
DRO >C10-C28	86.0	10.0	03/27/2015	ND	212	106	200	1.15	

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 115 % 52.1-176

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MIKE BURTON  
P. O. BOX 5966  
HOBBS NM, 88241  
Fax To: (575) 393-2981

Received: 03/25/2015  
Reported: 03/27/2015  
Project Name: ELLEN SIM #9  
Project Number: 17934  
Project Location: NONE GIVEN

Sampling Date: 03/25/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 6' (H500804-04)**

BTX 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	03/26/2015	ND	2.20	110	2.00	3.92	
Toluene*	<0.050	0.050	03/26/2015	ND	1.98	98.9	2.00	2.08	
Ethylbenzene*	<0.050	0.050	03/26/2015	ND	1.97	98.3	2.00	3.29	
Total Xylenes*	<0.150	0.150	03/26/2015	ND	5.92	98.7	6.00	2.84	
Total BTX	<0.300	0.300	03/26/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	<16.0	16.0	03/27/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2015	ND	203	102	200	0.802	
DRO >C10-C28	<10.0	10.0	03/27/2015	ND	212	106	200	1.15	

Surrogate: 1-Chlorooctane 94.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 106 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

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DIVERSIFIED FIELD SERVICES, INC.  
MIKE BURTON  
P. O. BOX 5966  
HOBBS NM, 88241  
Fax To: (575) 393-2981

Received: 03/25/2015  
Reported: 03/27/2015  
Project Name: ELLEN SIM #9  
Project Number: 17934  
Project Location: NONE GIVEN

Sampling Date: 03/25/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 5' (H500804-05)**

BTX 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	03/26/2015	ND	2.20	110	2.00	3.92	
Toluene*	<0.050	0.050	03/26/2015	ND	1.98	98.9	2.00	2.08	
Ethylbenzene*	<0.050	0.050	03/26/2015	ND	1.97	98.3	2.00	3.29	
Total Xylenes*	<0.150	0.150	03/26/2015	ND	5.92	98.7	6.00	2.84	
Total BTX	<0.300	0.300	03/26/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	<16.0	16.0	03/27/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2015	ND	203	102	200	0.802	
DRO >C10-C28	<10.0	10.0	03/27/2015	ND	212	106	200	1.15	

Surrogate: 1-Chlorooctane 99.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 108 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

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 MIKE BURTON  
 P. O. BOX 5966  
 HOBBS NM, 88241  
 Fax To: (575) 393-2981

 Received: 03/25/2015  
 Reported: 03/27/2015  
 Project Name: ELLEN SIM #9  
 Project Number: 17934  
 Project Location: NONE GIVEN

 Sampling Date: 03/25/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 6' (H500804-06)**

BTX 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	03/26/2015	ND	2.20	110	2.00	3.92	
Toluene*	<0.050	0.050	03/26/2015	ND	1.98	98.9	2.00	2.08	
Ethylbenzene*	<0.050	0.050	03/26/2015	ND	1.97	98.3	2.00	3.29	
Total Xylenes*	<0.150	0.150	03/26/2015	ND	5.92	98.7	6.00	2.84	
Total BTX	<0.300	0.300	03/26/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	<16.0	16.0	03/27/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2015	ND	203	102	200	0.802	
DRO >C10-C28	<10.0	10.0	03/27/2015	ND	212	106	200	1.15	

Surrogate: 1-Chlorooctane 106 % 47.2-157

Surrogate: 1-Chlorooctadecane 112 % 52.1-176

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\*=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

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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

BILL TO

ANALYSIS REQUEST

Company Name: **ENMAS INVESTMENTS**

Project Manager:

Address:

City: State: Zip:

Phone #: Fax #:

Project #: Project Owner:

Project Name:

Project Location: **Ellen Sim #9**

Sampler Name: **Ellen Long**

FOR LAB USE ONLY

P.O. #: **17934**

Company: **DFSI**

Attn: **Mike Burton**

Address:

City: State: Zip:

Phone #:

Fax #:

PRESERV

SAMPLING

Lab I.D. Sample I.D.

**1500804**

**1** SP2 @ 9'  
**2** SP2 @ 10'  
**3** SP3 @ 5'  
**4** SP3 @ 6'  
**5** SP4 @ 5'  
**6** SP4 @ 6'

(G)RAB CR (C)OMP

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER

ACID/BASE

ICE / COOL

OTHER

DATE

TIME

**3-25-10 10:37**  
**3-25-10 10:39**  
**3-25-11 11:42**  
**3-25-11 11:43**  
**3-25-11 11:31**  
**3-25-11 11:32**

**CC**  
**SPH**  
**B-tex**

Relinquished By:

Date: **3/25/10**  
Time: **4:10**

Received By:

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

Relinquished By: **Ellen Long**

Date: **3/25/10**  
Time: **4:10**

Received By: **Mike Burton**

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

**3.6c**

Sample Condition  
Cool ☒ Intact ☒  
Yes ☒ No ☐

CHECKED BY: **[Signature]**

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company <i>Enmar Investments, INC.</i>	Contact <i>Ernie Buttross</i>
Address <i>P.O. Box 9492, Edmond, OK 73083</i>	Telephone No. <i>405-888-3423</i>
Facility Name <i>Ellen Sims #9</i>	Facility Type
Surface Owner	Mineral Owner
Lease No. <i>300-25-31957</i>	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<i>B</i>	<i>3</i>	<i>23S</i>	<i>37E</i>	<i>99</i>	<i>N</i>	<i>1651</i>	<i>E</i>	<i>Lea</i>

Latitude *32.3383729* Longitude *-103.1476103*

NATURE OF RELEASE

Type of Release <i>Oil</i>	Volume of Release <i>20 bbls</i>	Volume Recovered <i>16 bbls</i>
Source of Release <i>Production Tank</i>	Date and Hour of Occurrence	Date and Hour of Discovery <i>3-2-15</i>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <i>2-28-15</i>	
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.\*

*Production tank ran over.*

Describe Area Affected and Cleanup Action Taken.\*

*All fluid was contained inside the firewall.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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>E. L. Buttross</i>		OIL CONSERVATION DIVISION	
Printed Name: <i>E. L. Buttross</i>			
Title: <i>VP Oper</i>	Approval Date:	Expiration Date:	
E-mail Address: <i>buttrosse@cox.net</i>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <i>3/21/15</i>	Phone: <i>405-888-3423</i>		

\* Attach Additional Sheets If Necessary