

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

Form C-144
June 1, 2004

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

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Final Report

Is pit or below-grade tank covered by a "general plan"? Yes No

Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank

Operator: Western Reserves Oil Company INC. Telephone: 432-682-4782 e-mail address: bmcbeth@westernreserves.com
Address: P O Box 993 Midland, TX 79702
Facility or well name: Lake McMillian 21 #1 API #: 30-015-35444 U/L or Qtr/Qtr C Sec 21 T 19S R 26E
County: Eddy Latitude 32.65.1303 Longitude 104.38.838 NAD: 1927 1983
Surface Owner: Federal State Private Indian

Pit	Below-grade tank	
Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness <u>20</u> mil Clay <input type="checkbox"/> Pit Volume <u>3800</u> bbl	Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not.	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) XXX (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points) XXX
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points) XXX
	Ranking Score (Total Points)	10 points

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite offsite If offsite, name of facility _____ (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No Yes If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: A burial pit was excavated and lined with a 12 mil impervious liner. Drilling mud was stiffened and placed in burial pit. The burial pit was capped with a 20 mil liner and backfilled with stockpiled soil. After drilling mud was removed the pit bottom was tested and meet NMOCD standards then backfilled with clean native soil. A plat map, analytical and pictures are attached.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan .

Date: 8/29/07
Printed Name/Title CHRIS KENAUD / AGENT Signature [Signature]

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval: _____
Printed Name/Title _____ Signature [Signature] Date: OCT 12 2007

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768
Phone (432) 366-0043 Fax (432) 366-0884

AUG 30 2007
OCD-ARTESIA

August 28, 2007

Western Reserves
Mr. Chris Renaud
P O Box 993
Midland, TX 79702

Re: Drilling Pit Closure of Western Reserves – Lake McMillian 21 #1
UL 'C' Sec. 21 T19S R26E Eddy County
API # 30-015-35444


Mr. Chris Renaud,

Enclosed is the closure report for the Lake McMillian 21 #1. NMOCD request that a Western Reserves representative sign and date the final C-144 which is the very last page of the closure report. Then mail one copy to:

NMOCD
Attn: Mike Bratcher
1301 W. Grand Ave.
Artesia, NM 88210

If you have any questions about the enclosed report please feel free to contact me at the office.

Sincerely,



Logan Anderson

Closure Report

Prepared for
Western Reserves

AUG 30 2007
OCD-ARTESIA

Lake McMillian 21 #1
API # 30-015-35444
Eddy County, NM

Prepared by

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768
Phone (432) 366-0043 Fax (432) 366-0884

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August 28, 2007

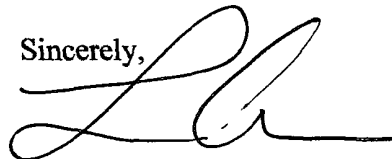
New Mexico Oil Conservation Division
Mr. Mike Bratcher
1301 West Grand Ave.
Artesia, New Mexico 88210

Re: Drilling Pit Closure of Western Reserves – Lake McMillian 21 #1

Mr. Mike Bratcher,

Elke Environmental was contracted by Western Reserves to complete the closure of the Lake McMillian 21 #1 drilling pit. As per the C-144 filed and signed by Mike Bratcher on 7-31-07 a burial pit was excavated and lined with a 12 mil liner. The drilling mud was mixed with dry soil to stiffen and then placed in the burial pit. The burial pit was capped with a 20 mil liner and backfilled with a 3' of clean native soil. After the drilling mud was removed five bottom samples were analyzed and NMOCD standards were met. Lab samples were taken for confirmation. The drilling pit was then backfilled with clean native soil and domed to prevent pooling. If you have any questions about the enclosed report please contact me at the office.

Sincerely,

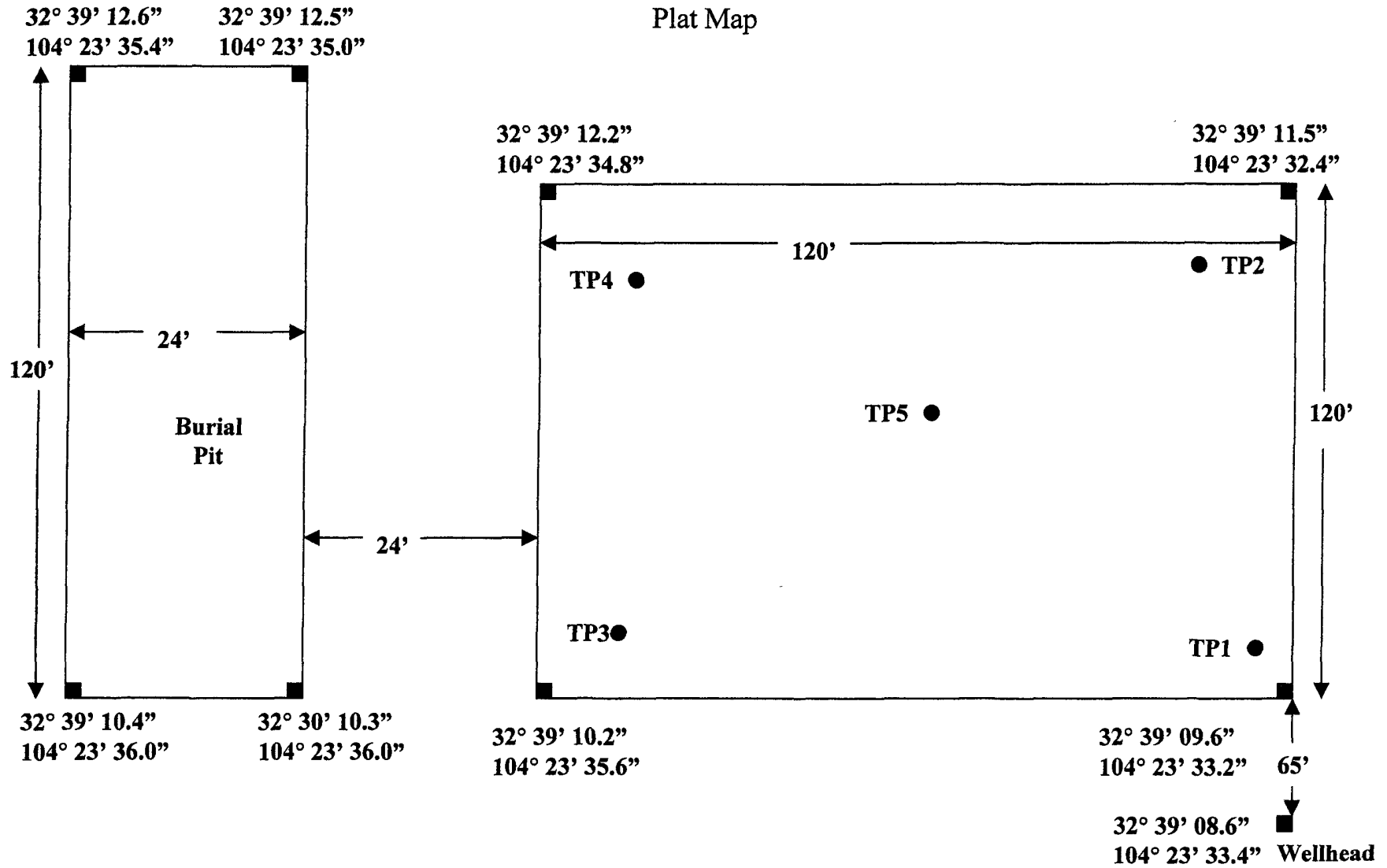


Logan Anderson

Western Reserves
Lake McMillian 21 #1



Plat Map



Analytical Report 288230

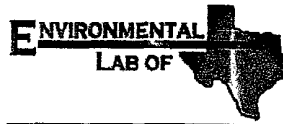
for

Elke Environmental, Inc.

Project Manager: Kim Baker

Western Reserves

23-AUG-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

NELAC certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



23-AUG-07

Project Manager: **Kim Baker**
Elke Environmental, Inc.
4817 Andrews Hwy
P.O. Box 14167 Odessa, tx 79768
Odessa, TX 79762

Reference: XENCO Report No: **288230**
Western Reserves
Project Address: Lake McMillan 21 # 1

Kim Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 288230. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 288230 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron

Odessa Laboratory Director

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Sample Cross Reference 288230

Elke Environmental, Inc., Odessa, TX

Western Reserves

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TP1 @ 4'	S	Aug-17-07 10:00		288230-001
TP2 @ 4'	S	Aug-17-07 10:30		288230-002
TP3 @ 4'	S	Aug-17-07 14:00		288230-003
TP4 @ 4'	S	Aug-17-07 12:30		288230-004
TP5 @ 4'	S	Aug-17-07 16:00		288230-005
West Wall	S	Aug-17-07 12:00		288230-006
East Wall	S	Aug-17-07 11:15		288230-007
South Wall	S	Aug-17-07 15:00		288230-008
North Wall	S	Aug-17-07 16:30		288230-009



Certificate of Analysis Summary 288230

Elke Environmental, Inc., Odessa, TX

Project Name: Western Reserves

Project Id:

Contact: Kim Baker

Project Location: Lake McMillan 21 # 1

Date Received in Lab: Mon Aug-20-07 04:45 pm


Report Date: 23-AUG-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	288230-001	288230-002	288230-003	288230-004	288230-005	288230-006
	Field Id:	TP1 @ 4'	TP2 @ 4'	TP3 @ 4'	TP4 @ 4'	TP5 @ 4'	West Wall
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Aug-17-07 10:00	Aug-17-07 10:30	Aug-17-07 14:00	Aug-17-07 12:30	Aug-17-07 16:00	Aug-17-07 12:00
Percent Moisture	Extracted:	Aug-21-07 10:30	Aug-21-07 10:30	Aug-21-07 10:30	Aug-21-07 10:30	Aug-21-07 10:30	Aug-21-07 10:30
	Analyzed:	Aug-21-07 10:30	Aug-21-07 10:30	Aug-21-07 10:30	Aug-21-07 10:30	Aug-21-07 10:30	Aug-21-07 10:30
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		15.6 1.00	22.9 1.00	11.5 1.00	9.08 1.00	12.1 1.00	13.0 1.00
TPH by SW8015 Mod	Extracted:	Aug-22-07 14:23	Aug-22-07 14:23	Aug-22-07 14:23	Aug-22-07 14:23	Aug-22-07 14:23	Aug-22-07 14:23
	Analyzed:	Aug-22-07 22:12	Aug-22-07 22:38	Aug-22-07 23:03	Aug-22-07 23:28	Aug-22-07 23:53	Aug-23-07 00:18
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		ND 11.9	ND 13.0	ND 11.3	ND 11.0	ND 11.4	ND 11.5
C12-C28 Diesel Range Hydrocarbons		ND 11.9	ND 13.0	ND 11.3	ND 11.0	ND 11.4	ND 11.5
C28-C35 Oil Range Hydrocarbons		ND 11.9	ND 13.0	ND 11.3	ND 11.0	ND 11.4	ND 11.5
Total TPH		ND	ND	ND	ND	ND	ND
Total Chloride by EPA 325.3	Extracted:	Aug-21-07 13:45	Aug-21-07 13:45	Aug-21-07 13:45	Aug-21-07 13:45	Aug-21-07 13:45	Aug-21-07 13:45
	Analyzed:	Aug-21-07 13:45	Aug-21-07 13:45	Aug-21-07 13:45	Aug-21-07 13:45	Aug-21-07 13:45	Aug-21-07 13:45
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		53.0 10.0	43.0 10.0	32.0 10.0	43.0 10.0	43.0 10.0	53.0 10.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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 Brent Barron
 Odessa Laboratory Director



Certificate of Analysis Summary 288230

Elke Environmental, Inc., Odessa, TX

Project Name: Western Reserves

Project Id:

Contact: Kim Baker

Project Location: Lake McMillan 21 # 1

Date Received in Lab: Mon Aug-20-07 04:45 pm


Report Date: 23-AUG-07

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	288230-007	288230-008	288230-009			
	<i>Field Id:</i>	East Wall	South Wall	North Wall			
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Aug-17-07 11:15	Aug-17-07 15:00	Aug-17-07 16:30			
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-21-07 10:30	Aug-21-07 10:30	Aug-21-07 10:30			
	<i>Units/RL:</i>	% RL	% RL	% RL			
Percent Moisture		19.1 1.00	10.5 1.00	19.9 1.00			
TPH by SW8015 Mod	<i>Extracted:</i>	Aug-22-07 14:23	Aug-22-07 14:23	Aug-22-07 14:23			
	<i>Analyzed:</i>	Aug-23-07 00:43	Aug-23-07 01:07	Aug-23-07 01:32			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C12 Gasoline Range Hydrocarbons		ND 12.4	ND 11.2	ND 12.5			
C12-C28 Diesel Range Hydrocarbons		ND 12.4	ND 11.2	ND 12.5			
C28-C35 Oil Range Hydrocarbons		ND 12.4	ND 11.2	ND 12.5			
Total TPH		ND	ND	ND			
Total Chloride by EPA 325.3	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-21-07 14:30	Aug-21-07 14:30	Aug-21-07 14:30			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		42.5 5.00	53.8 5.00	31.9 5.00			

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 Brent Barron
 Odessa Laboratory Director



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

- F** RPD exceeded lab control limits.

- J** The target analyte was positively identified below the MQL and above the SQL.

- U** Analyte was not detected.

- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

- K** Sample analyzed outside of recommended hold time.

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(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries

Project Name: Western Reserves

Work Order #: 288230

Project ID:

Lab Batch #: 702896

Sample: 288230-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	38.4	50.0	77	70-135	
1-Chlorooctane	37.8	50.0	76	70-135	

Lab Batch #: 702896

Sample: 288230-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	46.6	50.0	93	70-135	
1-Chlorooctane	53.5	50.0	107	70-135	

Lab Batch #: 702896

Sample: 288230-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	47.2	50.0	94	70-135	
1-Chlorooctane	54.3	50.0	109	70-135	

Lab Batch #: 702896

Sample: 288230-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	37.6	50.0	75	70-135	
1-Chlorooctane	37.6	50.0	75	70-135	

Lab Batch #: 702896

Sample: 288230-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	37.0	50.0	74	70-135	
1-Chlorooctane	37.2	50.0	74	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Western Reserves

Work Order #: 288230

Project ID:

Lab Batch #: 702896

Sample: 288230-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	38.1	50.0	76	70-135	
1-Chlorooctane	37.2	50.0	74	70-135	

Lab Batch #: 702896

Sample: 288230-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	39.9	50.0	80	70-135	
1-Chlorooctane	39.4	50.0	79	70-135	

Lab Batch #: 702896

Sample: 288230-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	39.8	50.0	80	70-135	
1-Chlorooctane	39.1	50.0	78	70-135	

Lab Batch #: 702896

Sample: 288230-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	40.0	50.0	80	70-135	
1-Chlorooctane	39.5	50.0	79	70-135	

Lab Batch #: 702896

Sample: 288230-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	41.2	50.0	82	70-135	
1-Chlorooctane	40.6	50.0	81	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Western Reserves

Work Order #: 288230

Project ID:

Lab Batch #: 702896

Sample: 288230-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	37.7	50.0	75	70-135	
1-Chlorooctane	37.6	50.0	75	70-135	

Lab Batch #: 702896

Sample: 498561-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	47.9	50.0	96	70-135	
1-Chlorooctane	53.5	50.0	107	70-135	

Lab Batch #: 702896

Sample: 498561-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	46.3	50.0	93	70-135	
1-Chlorooctane	40.2	50.0	80	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: Western Reserves

Work Order #: 288230

Project ID:

Lab Batch #: 702896

Sample: 498561-1-BKS

Matrix: Solid

Date Analyzed: 08/22/2007

Date Prepared: 08/22/2007

Analyst: SHE

Reporting Units: mg/kg

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
C6-C12 Gasoline Range Hydrocarbons	ND	500	605	121	70-135	
C12-C28 Diesel Range Hydrocarbons	ND	500	530	106	70-135	

Lab Batch #: 702724

Sample: 702724-1-BKS

Matrix: Solid

Date Analyzed: 08/21/2007

Date Prepared: 08/21/2007

Analyst: IRO

Reporting Units: mg/kg

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

Total Chloride by EPA 325.3 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	100	93.6	94	75-125	

Lab Batch #: 702729

Sample: 702729 BKS

Matrix: Solid

Date Analyzed: 08/21/2007

Date Prepared: 08/21/2007

Analyst: IRO

Reporting Units: mg/kg

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

Total Chloride by EPA 325.3 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	6.40	100	96.0	90	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.



Form 3 - MS / MSD Recoveries

Project Name: Western Reserves

Work Order #: 288230

Project ID:

Lab Batch ID: 702896

QC- Sample ID: 288230-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/23/2007

Date Prepared: 08/22/2007

Analyst: SHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	593	711	120	593	728	123	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	593	618	104	593	630	106	2	70-135	35	

Lab Batch ID: 702724

QC- Sample ID: 288249-026 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/21/2007

Date Prepared: 08/21/2007

Analyst: IRO

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Total Chloride by EPA 325.3 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	3620	5000	11700	162	5000	11900	166	2	75-125	30	X

Lab Batch ID: 702729

QC- Sample ID: 288101-003 M S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/21/2007

Date Prepared: 08/21/2007

Analyst: IRO

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Total Chloride by EPA 325.3 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	7660	2500	9360	68	2500	9780	85	22	75-125	30	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery

Project Name: Western Reserves

Work Order #: 288230

Lab Batch #: 702855
Date Analyzed: 08/21/2007
QC- Sample ID: 288230-001 D
Reporting Units: %

Date Prepared: 08/21/2007
Batch #: 1

Project ID:
Analyst: JLG
Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	15.6	15.8	1	20	

Lab Batch #: 702729
Date Analyzed: 08/21/2007
QC- Sample ID: 288101-003 M D
Reporting Units: mg/kg

Date Prepared: 08/21/2007
Batch #: 1

Analyst: IRO
Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Total Chloride by EPA 325.3	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	7660	7660	0	30	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
All Results are based on MDL and validated for QC purposes.

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Elke Env.
 Date/ Time: 8:20 07 4.15
 Lab ID #: 288230
 Initials: AL

Sample Receipt Checklist

Client Initials

#	Question	Yes	No	Notes	Client Initials
#1	Temperature of container/ cooler?			4.0 °C	
#2	Shipping container in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#3	Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Present	
#4	Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Not Present	
#5	Chain of Custody present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#6	Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#7	Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#8	Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#11	Containers supplied by ELOT?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#12	Samples in proper container/ bottle?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below	
#13	Samples properly preserved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below	
#14	Sample bottles intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#15	Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#16	Containers documented on Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
#17	Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below	
#18	All samples received within sufficient hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below	
#19	Subcontract of sample(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Applicable	
#20	VOC samples have zero headspace?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Applicable	

Variance Documentation

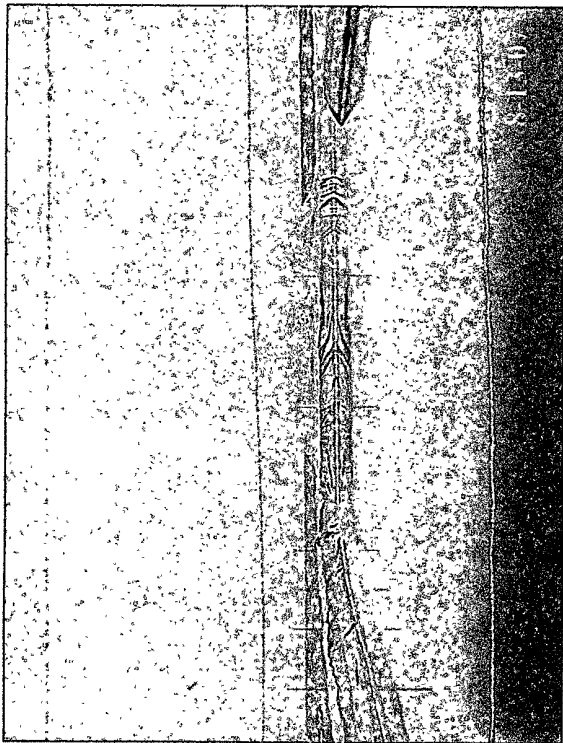
Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

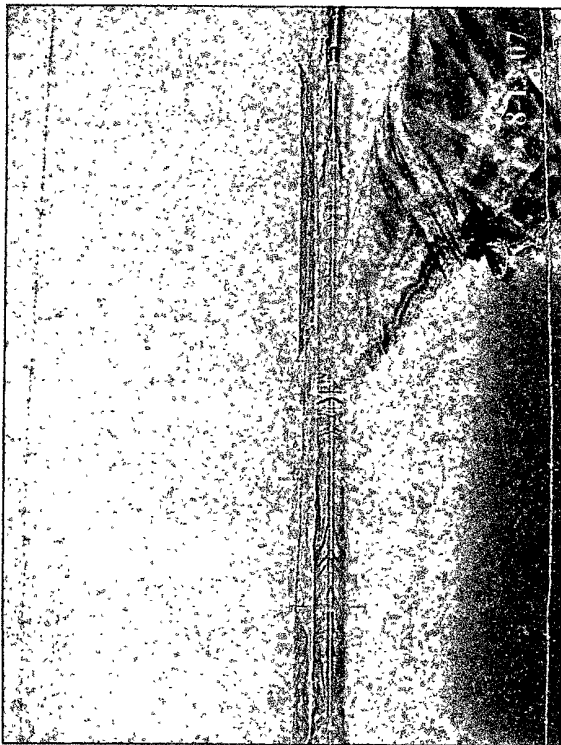
Corrective Action Taken: _____

- Check all that Apply:
- See attached e-mail/ fax
 - Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event

Western Reserves – Lake McMillian 21 #1



Drilling pit before closure.



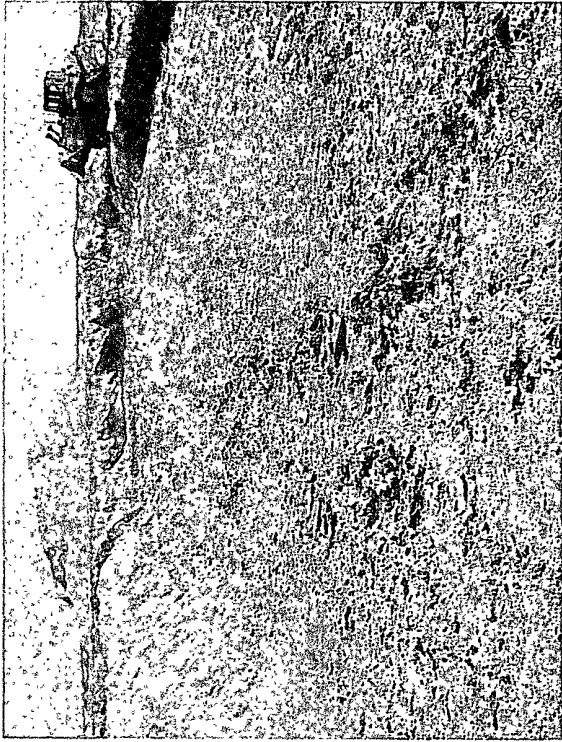
Drilling pit before closure.



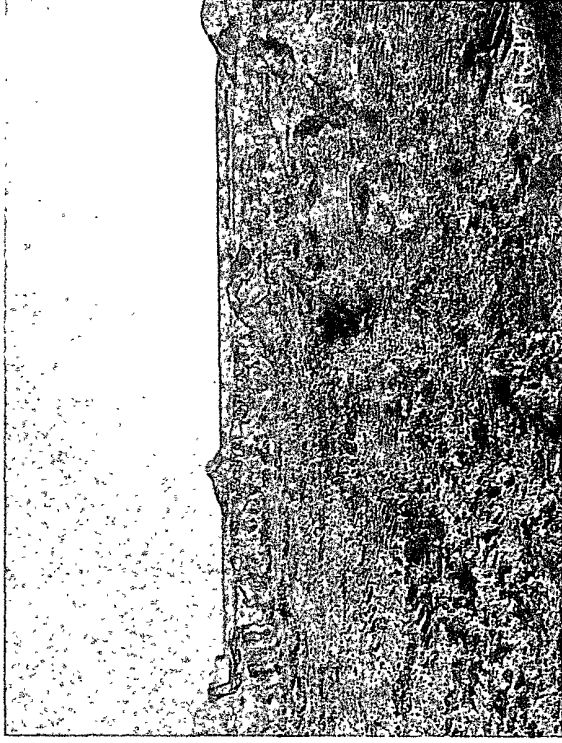
Burial pit with a 12 mil impervious liner.



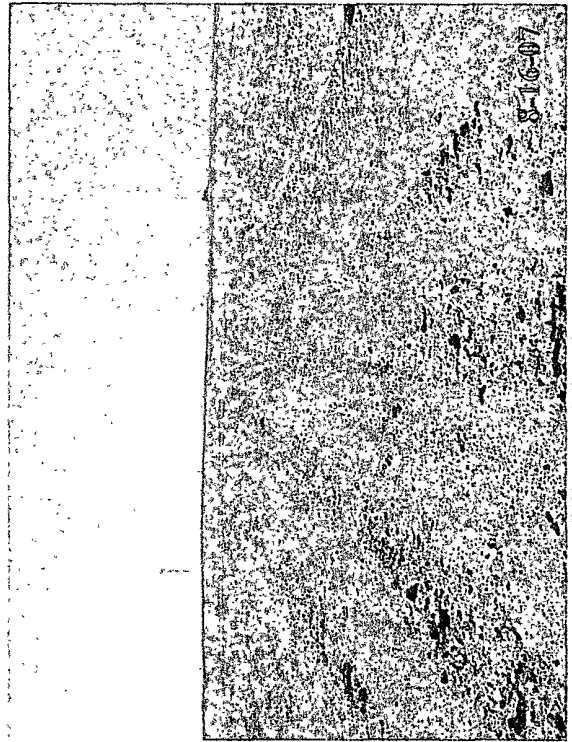
Burial pit capped with a 20 mil impervious liner.



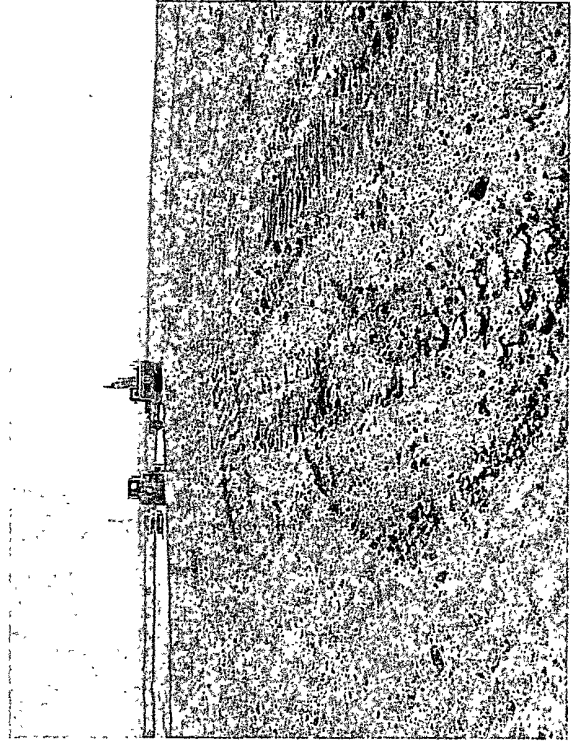
Drilling pit after mud was removed.



Drilling pit after mud was removed.



Pit after backfilling and doming to prevent pooling.



Pit after backfilling and doming to prevent pooling.

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

Form C-144
June 1, 2004

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

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

JUL 26 2007

Is pit or below-grade tank covered by a "general plan"? Yes No

Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank **OCD-ARTESIA**

Operator: Western Reserves Oil Company Telephone: 432-682-4782 e-mail address: bmcbeth@westernreserves.com
Address: P O Box 993 Midland, TX 79702
Facility or well name: Lake McMillian 21 #1 API #: 30-015-35444 U/L or Qtr/Qtr C Sec 21 T 19S R 26E
County: Eddy Latitude 32.65.1303 Longitude 104.38.838 NAD: 1927 1983
Surface Owner: Federal State Private Indian

Pit Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness <u>20</u> mil Clay <input type="checkbox"/> Pit Volume <u>3800</u> bbl	Below-grade tank Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not.
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) GW = 90'	Less than 50 feet (20 points) 50 feet or more, but less than 100 feet (10 points) XXX 100 feet or more (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes (20 points) No (0 points) XXX
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet (20 points) 200 feet or more, but less than 1000 feet (10 points) 1000 feet or more (0 points) XXX
Ranking Score (Total Points)	10 points

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite offsite If offsite, name of facility _____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No Yes If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: Construct a burial pit and line with a 12 mil impervious liner. Stiffen all mud and place in a burial pit. Cap burial pit with a 20 mil liner and backfill the site with stockpiled soil. A final report will be submitted after job completion

NMOCD Artesia will be notified 48 hrs. before work starts.

If burial trench is constructed in pit area - **Sample analyses are to be submitted to NMOCD PRIOR to lining the trench.**

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan .

Date: 7-25-07
Printed Name/Title Logan Anderson - Consultant Signature _____

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval: _____ Signature Mike Anderson Date: JUL 31 2007

Samples are to be obtained from pit area and analysis submitted to NMOCD prior to back-filling. NOTIFY NMOCD 24 HOURS PRIOR TO OBTAINING SAMPLES.

(Handwritten mark)