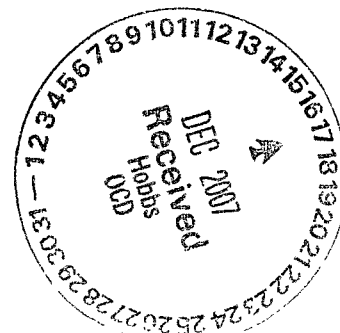


Ocotillo ENVIRONMENTAL

Dirt Work • On-Site Remediation • Soil Testing • Excavation

December 14, 2007

Mr. Larry Johnson
New Mexico Oil Conservation Division
1625 French Drive
Hobbs, New Mexico 88240



**Re: Spill Remediation Workplan,
Chevron, Lovington Paddock Unit #7,
Unit Letter P (SE/4, SE/4), Section 25, Township 16 South, Range 36 East,
Lea County, New Mexico
1RP #1604**

Dear Mr. Johnson:

Attached please find the Spill Remediation Workplan for the Chevron MidContinent SBU, Lovington Paddock Unit #7.

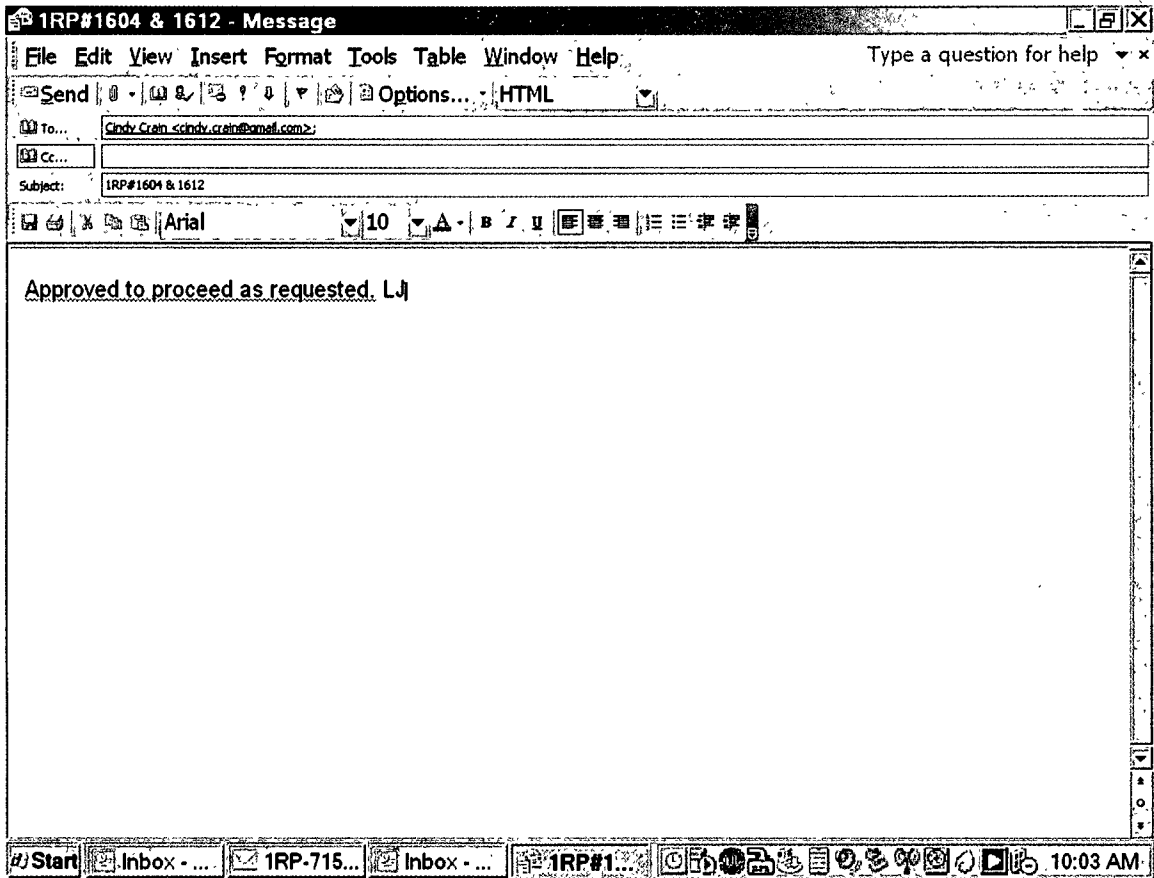
If you have any questions or need additional information, please do not hesitate to call me at (505) 441-7244 or email me at Cindy.Crain@gmail.com.

Sincerely,
Ocotillo Environmental

A handwritten signature in cursive script that reads "Cindy K. Crain".

Cindy K. Crain, P.G.
Environmental Manager

cc: Larry Ridenour, Chevron

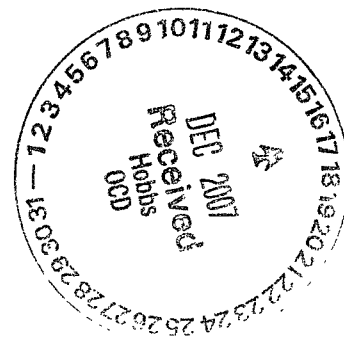


Ocotillo ENVIRONMENTAL

Dirt Work • On-Site Remediation • Soil Testing • Excavation

December 10, 2007

Mr. Larry Johnson
Environmental Engineer
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1625 N. French Drive
Hobbs, New Mexico 88240



**Re: Spill Remediation Workplan, Lovington Paddock Unit #7,
Unit Letter P (SE/4, SE/4), Section 25, Township 16 South, Range 36 East,
Lea County, New Mexico
(Latitude: N 32 deg. 53 min. 12.85 sec. / Longitude: W 103 deg. 18 min. 1.02 sec.)
1RP #1604**

Dear Mr. Johnson:

Chevron MidContinent SBU (Chevron) has retained Ocotillo Environmental, LLC (Ocotillo) to remediate impacts to soil from a leak at an injection line located approximately 75 feet east of the Lovington Paddock Unit #7 well. The well is located in the southeast quarter (SE/4) of the southeast quarter (SE/4), Section 25, Township 16 South, Range 36 East, Lea County, New Mexico (Site). Approximately 20 barrels of produced water was released from the injection line on September 26, 2007, and approximately 15 barrels was recovered from the site. A C-141 was submitted to the New Mexico Oil Conservation Division (NMOCD) on October 1, 2007. A Spill Investigation Workplan was submitted to the NMOCD on October 4, 2007, and verbal approval of the plan was granted on October 11, 2007. Figure 1 shows the site location.

Based on published literature (1961), well records of the New Mexico State Engineer, and well records of the United States Geological Survey, groundwater occurs at approximately 65 feet bgs in the well located nearest the Site. No domestic water wells are located within 1,000 feet of the site. The NMOCD has established recommended remediation action levels (RRALs) for benzene, total BTEX and TPH resulting from spills of natural gas liquids ("Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993"). Remediation levels for benzene, total BTEX and TPH were calculated using the following NMOCD criteria:

Criteria	Result	Ranking Score
Depth-to-Groundwater	50 - 99 Feet	10
Wellhead Protection Area	No	0
Distance to Surface Water Body	>1000 Horizontal Feet	0
Total:		10

The following RRALs have been assigned based on NMOCD criteria:

Benzene 10 mg/kg
Total BTEX 50 mg/kg
TPH 1,000 mg/kg

Initial Investigation

On November 13, 2007, Ocotillo installed five (5) soil borings (BH-1 through BH-5) at the site, using an air rotary drilling rig, in order to assess the horizontal and vertical limits of the spill. Soil had been previously scraped from the surface of the spill area and stockpiled on site.

Soil samples from the exploratory borings were collected in five foot intervals from the ground surface to a depth of approximately 27 feet below ground surface (bgs) in boring BH-2, a depth of 32 feet bgs in boring BH-3, a depth of 17 feet bgs in boring BH-4, and a depth of 22 feet bgs in boring BH-5. Samples were collected from a depth of approximately five (5) feet bgs in boring BH-1 to a depth of 22 feet bgs. All samples were collected using a split-spoon sampling device. The sampling equipment was thoroughly cleaned between soil boring locations with a solution of laboratory-grade detergent and potable water, and rinsed with distilled water. All soil borings were plugged with bentonite. Figure 2 shows the locations of the soil borings.

The soil samples from borings BH-1 through BH-5 were placed in clean glass sample jars, labeled, chilled in an ice chest, and delivered under chain-of-custody control to Environmental Lab of Texas (ELOT), located in Odessa, Texas. A duplicate of each sample was also placed in a clean glass sample jar for headspace analysis. The headspace jars were filled approximately $\frac{3}{4}$ full, and a layer of aluminum foil was placed over the opening of the jar before replacing the cap. The headspace samples were allowed to reach ambient temperature before a BW Technologies GasAlertMicro 5 photoionization detector (PID) was used to measure the concentration of organic vapors in the headspace of the sample jars. The PID probe was inserted into the headspace of the sample jars (through the aluminum foil) and the concentration of organic vapors was displayed by the instrument in parts per million (ppm). The PID readings are shown on the borings logs included in Appendix A.

All soil samples collected from borings BH-1 through BH-5 were analyzed for chlorides by EPA method 325.3. The uppermost two (2) samples from each boring were also analyzed for total petroleum hydrocarbons (TPH) by EPA method SW8015 (extended) for gasoline range organics (GRO) and diesel range organics (DRO). The PID reading from each sample was less than 100 ppm, therefore, no analysis for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) was conducted. Table 1 presents a summary of the laboratory analysis of soil samples. Laboratory analysis and chain of custody documentation are included in Appendix B.

Referring to Table 1, TPH concentrations in samples from borings BH-1, BH-4 and BH-5, were all reported below the test method detection limit. TPH concentrations were reported in the samples from boring BH-2 at a depth of 0-2' bgs (61.6 mg/kg), and from boring BH-3 at a depth of 0-2' bgs (119.4 mg/kg). TPH concentrations from both samples were well below the RRAL of 1,000 mg/kg. Chloride concentrations in samples from borings BH-1, BH-4 and BH-5 were all below the RRAL of 250 mg/kg. The soil samples collected from boring BH-3 at a depth of 10-12' bgs and 20-22' bgs, reported chloride concentrations slightly above 250 mg/kg (255 mg/kg and 277 mg/kg, respectively). All other samples from boring BH-3 reported chloride concentrations below 250 mg/kg. The sample from boring BH-2 at a depth of 0-2' bgs reported a chloride concentration of 3,200 mg/kg. All other samples from boring BH-2 reported chloride concentrations below 250 mg/kg.

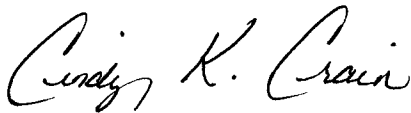
Mr. Larry Johnson
Page 3
December 10, 2007

Proposed Remediation

Chevron proposes to conduct excavation of the impacted soil in the vicinity of boring BH-2 to a depth of approximately four (4) feet bgs. Since a sample was not collected from the surface (0-2' bgs) at boring BH-1, a sample will also be collected at that location to determine if additional soil needs to be removed. Confirmation samples will be collected from the excavated area, to provide documentation of chloride concentrations less than 250 mg/kg. Excavated and currently stockpiled soil will be removed to an NMOCD approved disposal facility. Analytical results from final confirmation samples will be reported to the NMOCD prior to backfilling of the excavation.

If you have any questions or need additional information, please call Mr. Larry Ridenour at (505) 396-4414 x102, or myself at (505) 441-7244. We may also be reached by email at Lridenour@chevron.com or Cindy.Crain@gmail.com.

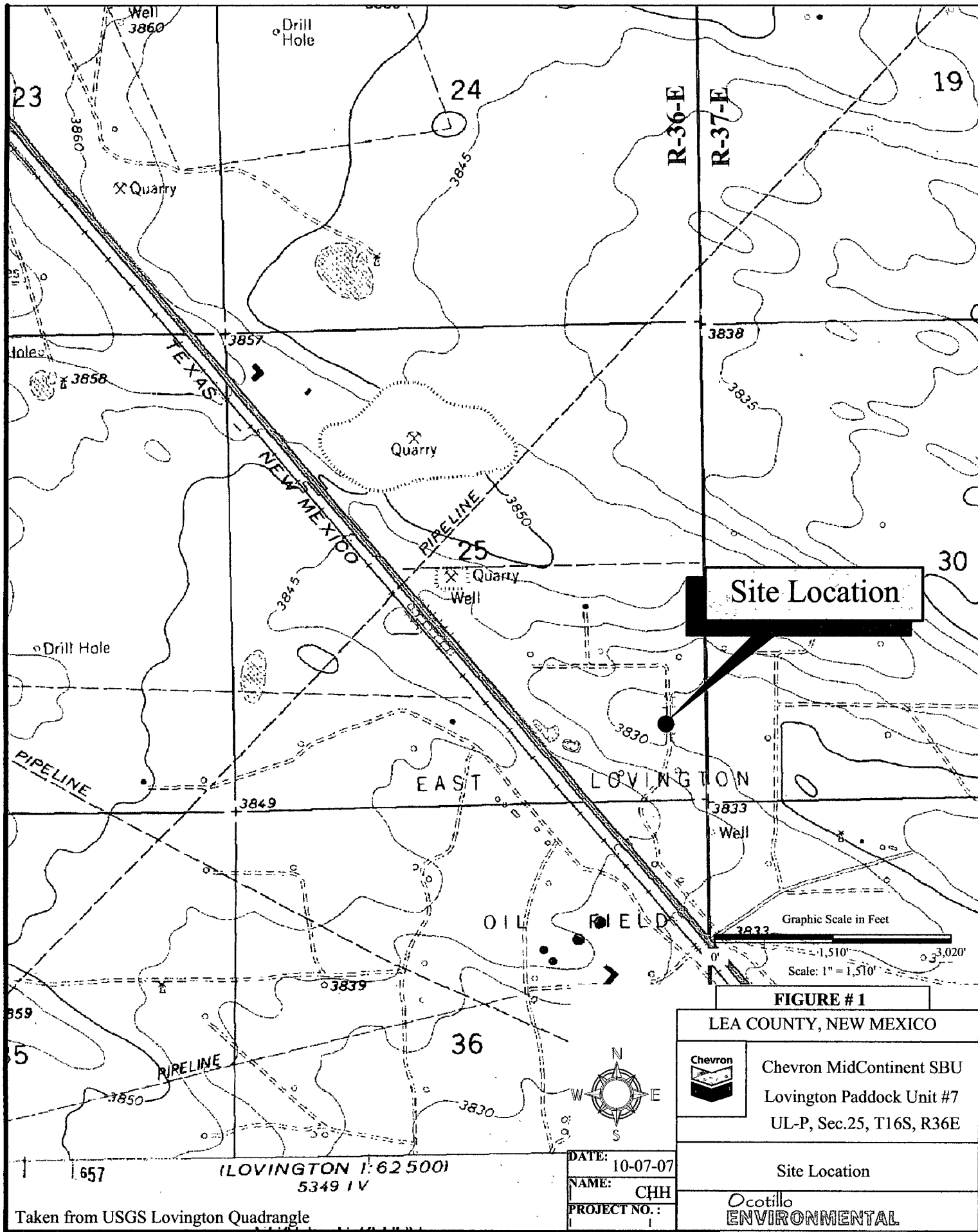
Sincerely,
Ocotillo Environmental, LLC

A handwritten signature in cursive script that reads "Cindy K. Crain".

Cindy K. Crain, P.G.
Environmental Manager

cc: Larry Ridenour, Chevron

FIGURES



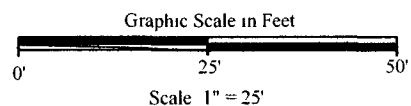
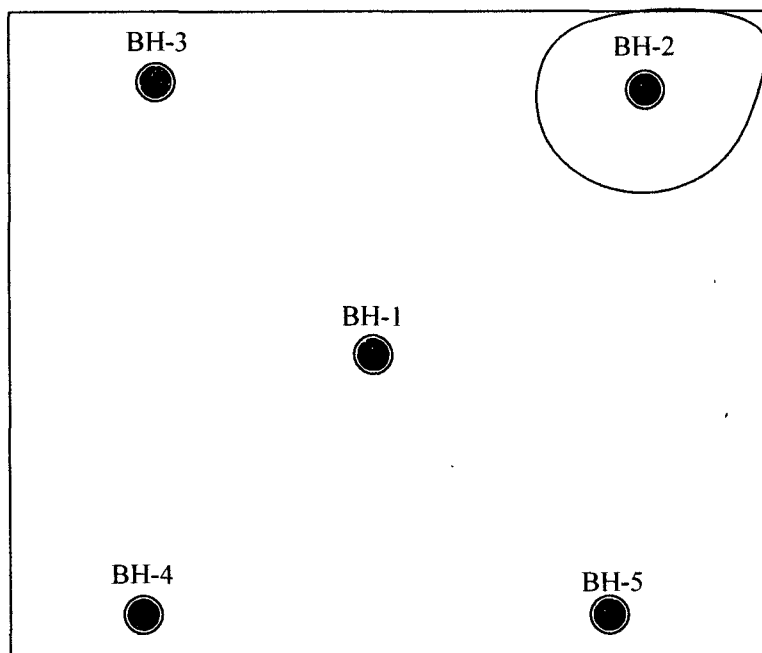
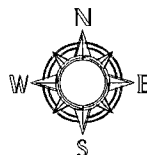


Figure # 2

LEA COUNTY, NEW MEXICO



Chevron MidContinent SBU
Lovington Paddock Unit #7
UL-P, Sec. 25, T16S, R36E



DATE: 12-08-07
NAME: MAC
PROJECT NO.: 1107-007B

Site Drawing With Soil Boring Locations
and Proposed Excavation Area

Ocotillo
ENVIRONMENTAL

LEGEND



Soil Boring Location



Spill Area Boundary



Proposed Excavation Area

TABLE

Table 1:
Summary of Laboratory Analysis of Soil Samples
Chevron MidContinent Alaska, Lovington Paddock #7
Section 25, Township 16 South, Range 36 East
Lea County, New Mexico

Sample Date	Soil Boring Number	Sample Depth (feet BGS)	TPH (GRO) C6 - C12 mg/kg	TPH (DRO) C12 - C28 mg/kg	TPH (ORO) C28 - C35 mg/kg	Total TPH C6 - C35 mg/kg	Chloride (mg/kg)
RRAL						1000	250
11/13/07	BH-1	5-7	<16.7	<16.7	<16.7	<50.1	94.5
		10-12	<16.7	<16.7	<16.7	<50.1	96.5
		15-17	---	---	---	---	42.5
		20-22	---	---	---	---	42.5
	BH-2	0-2	<16.1	61.6	<16.1	61.6	3,200.0
		5-7	<16.5	<16.5	<16.5	<49.5	234.0
		10-12	---	---	---	---	191.0
		15-17	---	---	---	---	128.0
		20-22	---	---	---	---	63.8
		25-27	---	---	---	---	42.5
	BH-3	0-2	<15.9	75.3	44.1	119.4	67.7
		5-7	<15.7	<15.7	<15.7	<47.1	223.0
		10-12	---	---	---	---	255.0
		15-17	---	---	---	---	234.0
		20-22	---	---	---	---	277.0
		25-27	---	---	---	---	170.0
		30-32	---	---	---	---	128.0
	BH-4	0-2	<15.3	<15.3	<15.3	<45.9	43.4
		5-7	<15.3	<15.3	<15.3	<45.9	43.4
		10-12	---	---	---	---	42.5
		15-17	---	---	---	---	42.5
	BH-5	0-2	<15.4	<15.4	<15.4	<46.2	65.5
		5-7	<15.7	<15.7	<15.7	<47.1	44.4
		10-12	---	---	---	---	21.3
		15-17	---	---	---	---	21.3
		20-22	---	---	---	---	42.5

Notes:

1. BGS: Depth in feet below ground surface
2. mg/kg: Milligrams per kilogram
3. GRO: Gasoline Range Organics
4. DRO: Diesel Range Organics
5. ORO: Oil Range Organics

APPENDIX A

SOIL BORING LOGS

Client: Chevron MidContinent SBU

Project: Lovington Paddock #7

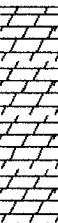
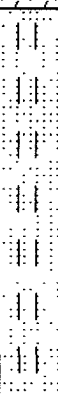
Project No.: 1107-007B

Location: Sec. 25, T16S, R36E

Log: BH-1

Page: 1 of 1

Geologist: C. Crain

Depth	Symbol	Description	Sample Number	Sample Type	Sample Recovery	Field Chloride ppm		Analytical Data
						25	75	
0		Ground Surface						
5		Caliche Pinkish white, non-indurated quartz sand	1	SS	2		59	5-7' bgs Total TPH = <50.1 mg/kg Chloride = 94.5 mg/kg
10		Silty Sand Light brown silty quartz sand, very fine grained, moderately well sorted, moderately loose	2	SS	2		59	10-12' bgs Total TPH = <50.1 mg/kg Chloride = 96.5 mg/kg
15			3	SS	2		0	15-17' bgs Chloride = 42.5 mg/kg
20			4	SS	2		0	20-22' bgs Chloride = 42.5 mg/kg
25		TD at 22'						
30								
35								
40								

Ocotillo Environmental, LLC

2125 French Drive
Hobbs, NM 88240
(505) 393-6371

Drill Method: Air Rotary

Drill Date: 11/13/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

Client: Chevron MidContinent SBU

Project: Lovington Paddock #7

Project No.: 1107-007B

Location: Sec. 25, T16S, R36E

Log: BH-2

Page: 1 of 1

Geologist: C. Crain

Depth	Symbol	Description	Sample Number	Sample Type	Sample Recovery	Field Chloride ppm	Analytical Data
0		Ground Surface					
0-2'		Silty Sand Dark brown very poorly sorted silty quartz sand.	1	SS	2	450	0-2' bgs Total TPH = 61.6 mg/kg Chloride = 3200.0mg/kg
5		Caliche Pinkish white, non indurated, quartz sand.	2	SS	2	550	5-7' bgs Total TPH = <49.5 mg/kg Chloride = 234 mg/kg
10		Silty Sand Light brown silty quartz sand, fine grained, moderately loose.	3	SS	2	250	10-12' bgs Chloride = 191mg/kg
15			4	SS	2	200	15-17' bgs Chloride = 128 mg/kg
20			5	SS	2	200	20-22'bgs Chloride 63.8 mg/kg
25			6	SS	2	400	25-27' bgs Chloride 42.5 mg/kg
30		TD@27'					
35							
40							

Ocotillo Environmental, LLC

2125 French Drive
Hobbs, NM 88240
(505) 393-6371

Drill Method: Air Rotary

Drill Date: 11/13/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

Client: Chevron MidContinent SBU

Project: Lovington Paddock #7

Project No.: 1107-007B

Location: Sec. 25, T16S, R36E

Log: BH-3

Page: 1 of 1

Geologist: C. Crain

Depth	Symbol	Description	Sample Number	Sample Type	Sample Recovery	Field Chloride ppm	Analytical Data
0		Ground Surface				0	
0-2'		Silty Sand Dark brown very poorly sorted silty quartz sand, very fine grained.	1	SS	2	0	0-2' bgs Total TPH = 119.4 mg/kg Chloride = 67.7 mg/kg
5		Caliche Pinkish white, non indurated, quartz sand, dry.	2	SS	2	500	5-7' bgs Total TPH = <47.1 mg/kg Chloride = 223 mg/kg
10		Silty Sand Light brown silty quartz sand, fine grained, moderately loose, moderately well sorted, dry.	3	SS	2	750	10-12' bgs Chloride = 255 mg/kg
15			4	SS	2	500	15-17' bgs Chloride = 234 mg/kg
20			5	SS	2	750	20-22' bgs Chloride = 277 mg/kg
25			6	SS	2	250	25-27' bgs Chloride = 170 mg/kg
30			7	SS	2	225	30-32' bgs Chloride = 128 mg/kg
32'		TD@32'					
35							
40							

Ocotillo Environmental, LLC

2125 French Drive
Hobbs, NM 88240
(505) 393-6371

Drill Method: Air Rotary

Drill Date: 11/13/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

Client: Chevron MidContinent SBU

Project: Lovington Paddock #7

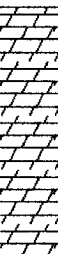
Project No.: 1107-007B

Location: Sec. 25, T16S, R36E

Log: BH-4

Page: 1 of 1

Geologist: C. Crain

Depth	Symbol	Description	Sample Number	Sample Type	Sample Recovery	Field Chloride	Analytical Data
						ppm 250	
0		Ground Surface					
0		Caliche Sandy pinkish white, quartz, non indurated caliche, dry.	1	SS	2	0	0-2' bgs Total TPH = <45.9 mg/kg Chloride = 43.4 mg/kg 5-7' bgs Total TPH = <45.9 mg/kg Chloride = 43.4 mg/kg 10-12' bgs Chloride = 42.5 mg/kg 15-17' bgs Chloride = 42.5 mg/kg
5			2	SS	2	0	
10		Silty Sand Light brown, silty quartz sand, fine grained, moderately well sorted, moderately loose, dry.	3	SS	2	0	
15			4	SS	2	0	
20		TD@17'					
25							
30							
35							
40							

Ocotillo Environmental, LLC

2125 French Drive
Hobbs, NM 88240
(505) 393-6371

Drill Method: Air Rotary

Drill Date: 11/13/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

Client: Chevron MidContinent SBU

Project: Lovington Paddock #7

Project No.: 1107-007B

Location: Sec. 25, T16S, R36E

Log: BH-5

Page: 1 of 1

Geologist: C. Crain

Depth	Symbol	Description	Sample Number	Sample Type	Sample Recovery	Field Chloride ppm 250	Analytical Data
0		Ground Surface					
0		Caliche Sandy pinkish white, quartz, non indurated caliche, dry.	1	SS	2	0	0-2' bgs Total TPH = <46.2 mg/kg Chloride = 65.5 mg/kg
5			2	SS	2	0	5-7' bgs Total TPH = <47.1 mg/kg Chloride = 44.4 mg/kg
10		Silty Sand Light tan, silty quartz sand, fine grained, moderately well sorted, loose, dry.	3	SS	2	0	10-12' bgs Chloride = 21.3 mg/kg
15			4	SS	2	0	15-17' bgs Chloride = 21.3 mg/kg
20			5	SS	2	0	20-22' bgs Chloride 42.5 mg/kg
25		TD@22'					
30							
35							
40							

Ocotillo Environmental, LLC

2125 French Drive
Hobbs, NM 88240
(505) 393-6371

Drill Method: Air Rotary

Drill Date: 11/13/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

APPENDIX B

ANALYTICAL DATA AND CHAIN OF CUSTODY DOCUMENTATION

Analytical Report 293280

for

Ocotillo Environmental, LLC

Project Manager: Cindy Crain

Chevron Lovington Paddock Unit #7

1107-007B

27-NOV-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta



27-NOV-07

Project Manager: **Cindy Crain**
Ocotillo Environmental, LLC
P.O. Box 1816
Hobbs, NM 88241

Reference: XENCO Report No: **293280**
Chevron Lovington Paddock Unit #7
Project Address: Sec. 25, T16S, R36E, Lea Co., NM

Cindy Crain:

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 293280. 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. 293280 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, II
Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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



Sample Cross Reference 293280

Ocotillo Environmental, LLC, Hobbs, NM

Chevron Lovington Paddock Unit #7

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-1 (5-7')	S	Nov-13-07 09:42	5 - 7 ft	293280-001
BH-1 (10-12')	S	Nov-13-07 09:52	10 - 12 ft	293280-002
BH-1 (15-17')	S	Nov-13-07 09:58	15 - 17 ft	293280-003
BH-1 (20-22')	S	Nov-13-07 10:02	20 - 22 ft	293280-004
BH-2 (0-2')	S	Nov-13-07 10:17	0 - 2 ft	293280-005
BH-2 (5-7')	S	Nov-13-07 10:25	5 - 7 ft	293280-006
BH-2 (10-12')	S	Nov-13-07 10:30	10 - 12 ft	293280-007
BH-2 (15-17')	S	Nov-13-07 10:35	15 - 17 ft	293280-008
BH-2 (20-22')	S	Nov-13-07 10:40	20 - 22 ft	293280-009
BH-2 (25-27')	S	Nov-13-07 10:49	25 - 27 ft	293280-010
BH-3 (0-2')	S	Nov-13-07 12:12	0 - 2 ft	293280-011
BH-3 (5-7')	S	Nov-13-07 12:20	5 - 7 ft	293280-012
BH-3 (10-12')	S	Nov-13-07 12:25	10 - 12 ft	293280-013
BH-3 (15-17')	S	Nov-13-07 12:30	15 - 17 ft	293280-014
BH-3 (20-22')	S	Nov-13-07 12:35	20 - 22 ft	293280-015
BH-3 (25-27')	S	Nov-13-07 12:43	25 - 27 ft	293280-016
BH-3 (30-32')	S	Nov-13-07 12:51	30 - 32 ft	293280-017
BH-4 (0-2')	S	Nov-13-07 13:08	0 - 2 ft	293280-018
BH-4 (5-7')	S	Nov-13-07 13:15	5 - 7 ft	293280-019
BH-4 (10-12')	S	Nov-13-07 13:21	10 - 12 ft	293280-020
BH-4 (15-17')	S	Nov-13-07 13:28	15 - 17 ft	293280-021
BH-5 (0-2')	S	Nov-13-07 13:35	0 - 2 ft	293280-022
BH-5 (5-7')	S	Nov-13-07 13:43	5 - 7 ft	293280-023
BH-5 (10-12')	S	Nov-13-07 13:50	10 - 12 ft	293280-024
BH-5 (15-17')	S	Nov-13-07 13:49	15 - 15 ft	293280-025
BH-5 (20-22')	S	Nov-13-07 13:59	20 - 22 ft	293280-026



Certificate of Analysis Summary 293280

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron Lovington Paddock Unit #7

Project Id: 1107-007B

Contact: Cindy Crain

Project Location: Sec. 25, T16S, R36E, Lea Co., NM

Date Received in Lab: Sat Nov-17-07 11:39 am


Report Date: 27-NOV-07

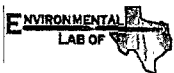
Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	293280-001	293280-002	293280-003	293280-004	293280-005	293280-006
	Field Id:	BH-1 (5-7')	BH-1 (10-12')	BH-1 (15-17')	BH-1 (20-22')	BH-2 (0-2')	BH-2 (5-7')
	Depth:	5-7 ft	10-12 ft	15-17 ft	20-22 ft	0-2 ft	5-7 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-13-07 09:42	Nov-13-07 09:52	Nov-13-07 09:58	Nov-13-07 10:02	Nov-13-07 10:17	Nov-13-07 10:25
Percent Moisture	Extracted:						
	Analyzed:	Nov-19-07 12:30	Nov-19-07 12:30			Nov-19-07 12:30	Nov-19-07 12:30
	Units/RL:	% RL	% RL			% RL	% RL
Percent Moisture		9.97 1.00	11.8 1.00			6.91 1.00	9.15 1.00
TPH by SW8015 Mod	Extracted:	Nov-20-07 14:20	Nov-20-07 14:20			Nov-20-07 14:20	Nov-20-07 14:20
	Analyzed:	Nov-25-07 12:54	Nov-25-07 13:22			Nov-25-07 13:50	Nov-25-07 14:18
	Units/RL:	mg/kg RL	mg/kg RL			mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		ND 16.7	ND 17.0			ND 16.1	ND 16.5
C12-C28 Diesel Range Hydrocarbons		ND 16.7	ND 17.0			61.6 16.1	ND 16.5
C28-C35 Oil Range Hydrocarbons		ND 16.7	ND 17.0			ND 16.1	ND 16.5
Total TPH		ND	ND			61.6	ND
Total Chloride by EPA 325.3	Extracted:						
	Analyzed:	Nov-20-07 07:45	Nov-20-07 07:45	Nov-20-07 07:45	Nov-20-07 07:45	Nov-20-07 07:45	Nov-20-07 07:45
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		94.5 5.55	96.5 5.67	42.5 5.00	42.5 5.00	3200 5.37	234 5.50

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 293280

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron Lovington Paddock Unit #7

Project Id: 1107-007B

Contact: Cindy Crain

Project Location: Sec. 25, T16S, R36E, Lea Co., NM

Date Received in Lab: Sat Nov-17-07 11:39 am


Report Date: 27-NOV-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	293280-007	293280-008	293280-009	293280-010	293280-011	293280-012
	Field Id:	BH-2 (10-12')	BH-2 (15-17')	BH-2 (20-22')	BH-2 (25-27')	BH-3 (0-2')	BH-3 (5-7')
	Depth:	10-12 ft	15-17 ft	20-22 ft	25-27 ft	0-2 ft	5-7 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-13-07 10:30	Nov-13-07 10:35	Nov-13-07 10:40	Nov-13-07 10:49	Nov-13-07 12:12	Nov-13-07 12:20
Percent Moisture	Extracted:					Nov-19-07 12:30	Nov-19-07 12:30
	Analyzed:						
	Units/RL:					% RL	% RL
Percent Moisture						5.78 1.00	4.46 1.00
TPH by SW8015 Mod	Extracted:					Nov-20-07 14:20	Nov-20-07 14:20
	Analyzed:					Nov-25-07 14:45	Nov-25-07 15:13
	Units/RL:					mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons						ND 15.9	ND 15.7
C12-C28 Diesel Range Hydrocarbons						75.3 15.9	ND 15.7
C28-C35 Oil Range Hydrocarbons						44.1 15.9	ND 15.7
Total TPH						119.4	ND
Total Chloride by EPA 325.3	Extracted:					Nov-20-07 07:45	Nov-20-07 07:45
	Analyzed:	Nov-20-07 07:45	Nov-20-07 07:45	Nov-20-07 07:45	Nov-20-07 07:45	Nov-20-07 07:45	Nov-20-07 07:45
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		191 5.00	128 5.00	63.8 5.00	42.5 5.00	67.7 5.31	223 5.23

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 293280

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron Lovington Paddock Unit #7

Project Id: 1107-007B

Contact: Cindy Crain

Project Location: Sec. 25, T16S, R36E, Lea Co., NM

Date Received in Lab: Sat Nov-17-07 11:39 am


Report Date: 27-NOV-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	293280-013	293280-014	293280-015	293280-016	293280-017	293280-018
	Field Id:	BH-3 (10-12')	BH-3 (15-17')	BH-3 (20-22')	BH-3 (25-27')	BH-3 (30-32')	BH-4 (0-2')
	Depth:	10-12 ft	15-17 ft	20-22 ft	25-27 ft	30-32 ft	0-2 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-13-07 12:25	Nov-13-07 12:30	Nov-13-07 12:35	Nov-13-07 12:43	Nov-13-07 12:51	Nov-13-07 13:08
Percent Moisture	Extracted:						
	Analyzed:						Nov-19-07 12:30
	Units/RL:						% RL
Percent Moisture							2.09 1.00
TPH by SW8015 Mod	Extracted:						Nov-20-07 14:20
	Analyzed:						Nov-25-07 15:40
	Units/RL:						mg/kg RL
C6-C12 Gasoline Range Hydrocarbons							ND 15.3
C12-C28 Diesel Range Hydrocarbons							ND 15.3
C28-C35 Oil Range Hydrocarbons							ND 15.3
Total TPH							ND
Total Chloride by EPA 325.3	Extracted:						
	Analyzed:	Nov-20-07 07:45	Nov-20-07 07:45	Nov-20-07 07:45	Nov-20-07 08:30	Nov-20-07 08:30	Nov-20-07 08:30
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		255 5.00	234 5.00	277 5.00	170 5.00	128 5.00	43.4 5.11

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 293280

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron Lovington Paddock Unit #7

Project Id: 1107-007B

Contact: Cindy Crain

Project Location: Sec. 25, T16S, R36E, Lea Co., NM

Date Received in Lab: Sat Nov-17-07 11:39 am


Report Date: 27-NOV-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	293280-025	293280-026				
	Field Id:	BH-5 (15-17')	BH-5 (20-22')				
	Depth:	15-15 ft	20-22 ft				
	Matrix:	SOIL	SOIL				
	Sampled:	Nov-13-07 13:49	Nov-13-07 13:59				
Total Chloride by EPA 325.3	Extracted:						
	Analyzed:	Nov-20-07 08:30	Nov-20-07 08:30				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		21.3 5.00	42.5 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.
- *** Outside XENCO'S scope of NELAC Accreditation

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Certified and approved by numerous States and Agencies.

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Form 2 - Surrogate Recoveries

Project Name: Chevron Lovington Paddock Unit #7

Work Order #: 293280

Project ID: 1107-007B

Lab Batch #: 709244

Sample: 293280-001 / 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-Chlorooctane	96.4	100	96	70-135	
o-Terphenyl	48.4	50.0	97	70-135	

Lab Batch #: 709244

Sample: 293280-001 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-Chlorooctane	119	100	119	70-135	
o-Terphenyl	53.8	50.0	108	70-135	

Lab Batch #: 709244

Sample: 293280-001 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-Chlorooctane	116	100	116	70-135	
o-Terphenyl	55.2	50.0	110	70-135	

Lab Batch #: 709244

Sample: 293280-002 / 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-Chlorooctane	88.0	100	88	70-135	
o-Terphenyl	44.0	50.0	88	70-135	

Lab Batch #: 709244

Sample: 293280-005 / 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-Chlorooctane	104	100	104	70-135	
o-Terphenyl	52.6	50.0	105	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: Chevron Lovington Paddock Unit #7

Work Order #: 293280

Project ID: 1107-007B

Lab Batch #: 709244

Sample: 293280-006 / 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-Chlorooctane	99.0	100	99	70-135	
o-Terphenyl	49.7	50.0	99	70-135	

Lab Batch #: 709244

Sample: 293280-011 / 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-Chlorooctane	95.7	100	96	70-135	
o-Terphenyl	48.8	50.0	98	70-135	

Lab Batch #: 709244

Sample: 293280-012 / 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-Chlorooctane	97.1	100	97	70-135	
o-Terphenyl	48.7	50.0	97	70-135	

Lab Batch #: 709244

Sample: 293280-018 / 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-Chlorooctane	102	100	102	70-135	
o-Terphenyl	50.6	50.0	101	70-135	

Lab Batch #: 709244

Sample: 293280-019 / 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-Chlorooctane	92.0	100	92	70-135	
o-Terphenyl	45.4	50.0	91	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: Chevron Lovington Paddock Unit #7

Work Order #: 293280

Project ID: 1107-007B

Lab Batch #: 709244

Sample: 293280-022 / 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-Chlorooctane	96.2	100	96	70-135	
o-Terphenyl	47.7	50.0	95	70-135	

Lab Batch #: 709244

Sample: 293280-023 / 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-Chlorooctane	94.4	100	94	70-135	
o-Terphenyl	47.7	50.0	95	70-135	

Lab Batch #: 709244

Sample: 501860-1-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-Chlorooctane	107	100	107	70-135	
o-Terphenyl	52.2	50.0	104	70-135	

Lab Batch #: 709244

Sample: 501860-1-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-Chlorooctane	101	100	101	70-135	
o-Terphenyl	51.0	50.0	102	70-135	

Lab Batch #: 709244

Sample: 501860-1-BSD / BSD

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-Chlorooctane	113	100	113	70-135	
o-Terphenyl	49.8	50.0	100	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: Chevron Lovington Paddock Unit #7

Work Order #: 293280

Project ID:

1107-007B

Lab Batch #: 708891

Sample: 708891-1-BKS

Matrix: Solid

Date Analyzed: 11/20/2007

Date Prepared: 11/20/2007

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	91.5	92	75-125	

Lab Batch #: 708892

Sample: 708892-1-BKS

Matrix: Solid

Date Analyzed: 11/20/2007

Date Prepared: 11/20/2007

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	

Blank Spike Recovery [D] = $100 \times [C] / [B]$

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



BS / BSD Recoveries

Project Name: Chevron Lovington Paddock Unit #7

Work Order #: 293280

Analyst: SHE

Date Prepared: 11/20/2007

Project ID: 1107-007B

Date Analyzed: 11/25/2007

Lab Batch ID: 709244

Sample: 501860-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	ND	1000	929	93	1000	911	91	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	814	81	1000	827	83	2	70-135	35	

Relative Percent Difference RPD = $200 * |(D-F)/(D+F)|$

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

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: Chevron Lovington Paddock Unit #7

Work Order # 293280

Project ID: 1107-007B

Lab Batch ID: 709244

QC- Sample ID: 293280-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/25/2007

Date Prepared: 11/20/2007

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	1110	1070	96	1110	1140	103	7	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1110	1010	91	1110	1080	97	6	70-135	35	

Lab Batch ID: 708891

QC- Sample ID: 293280-004 S

Batch #: 1 Matrix: Sludge

Date Analyzed: 11/20/2007

Date Prepared: 11/20/2007

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	42.5	1000	1020	98	1000	1020	98	0	75-125	30	

Lab Batch ID: 708892

QC- Sample ID: 293280-017 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/20/2007

Date Prepared: 11/20/2007

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	128	1000	1060	93	1000	1110	98	5	75-125	30	

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

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

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: Chevron Lovington Paddock Unit #7

Work Order #: 293280

Lab Batch #: 708845

Date Analyzed: 11/19/2007

QC- Sample ID: 293203-001 D

Reporting Units: %

Project ID: 1107-007B

Analyst: RBA

Date Prepared: 11/19/2007

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	1.34	1.20	11	20	

Lab Batch #: 708848

Date Analyzed: 11/19/2007

QC- Sample ID: 293280-022 D

Reporting Units: %

Date Prepared: 11/19/2007

Batch #: 1

Analyst: RBA

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	2.62	2.99	13	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

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

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Cindy Crain

Project Name: Chevron Lovington Paddock Unit #7

Company Name Ocotillo Environmental, LLC

Project #: 1107-007B

Company Address: PO Box 1816

Project Loc: Sec. 25, T16S, R36E, Lea Co., NM

City/State/Zip: Hobbs, NM 88241

PO 号:

Telephone No: (505) 441-7244

Fax No: (432) 272-0304

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail: cindy crain@gmail com

(lab use only)

ORDER #: 293280

[illegible]

Special Instructions:

Laboratory Comments:

Relinquished by:

Date _____

Time

Received by

Date _____

1076

Sample Containers Intact?
VOCs Free of Headspace?
Labels on container(s) id
Custody seals on container
Custody seals on cooler(s)

Sample Hand Delivered
by Sampler/Client Rep.?
by Courier? UPS

Temperature Upon Receipt

FedEx Lone Star

7

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

2 of 3

Project Manager: Cindy Crain

Project Name: Chevron Lovington Paddock Unit #7

Company Name: Ocotillo Environmental, LLC

Project #: 1107-0076

Company Address: PO Box 1816

Project Loc: Sec 25, T16S, R36E, Lea Co., NM

City/State/Zip: Hobbs, NM 88241

PO #: _____

Telephone No: (505) 441-7244

Fax No: (432) 272-0304

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Cindy Crain

e-mail: cindy.crain@gmail.com

(lab use only)

ORDER #:

293280

LAB # (lab use only)	FIELD CODE					Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Portable Specify Other	TPH 419.1 8015M	TPH TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (F, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals As Ag Ba Cd Cr Pb Hg S	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	NORM	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
011	BH-3	(0-2')	0	2	11/13/07	1212															X													
012	"	(5-7')	5	7	"	1220															X													
013	"	(10-12')	10	12	"	1225																												
014	"	(15-17')	15	17	"	1230																												
015	"	(20-22')	20	22	"	1235																												
016	"	(25-27')	25	27	"	1243																												
017	"	(30-32')	30	32	"	1251																												
018	BH-4	(0-2')	0	2	"	1308															X													
019	"	(5-7')	5	7	"	1315															X													
020	"	(10-12')	10	12	"	1321																												

Special Instructions:

Relinquished by <u>Cindy Crain</u>	Date <u>11/17/07</u>	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by ELDT	Date	Time

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s) id on 1st

Custody seals on container(s)

Custody seals on cooler(s)

Sample Hand-Delivered

by Sampler Client Rep.?

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 4.0 °C

Y Y Y Y Y
N N N N N

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Page 3 of 3

Project Manager: Cindy Crain

Project Name: Chevron Lovington Paddock Unit #7

Company Name: Ocotillo Environmental, LLC

Project #: 1107-007B

Company Address: PO Box 1816

Project Loc: Sec. 25, T16S, R36E, Lea Co., NM

City/State/Zip: Hobbs, NM 88241

PO #: _____

Telephone No: (505) 441-7244

Fax No: (432) 272-0304

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Cindy Crain

e-mail: cindy.crain@gmail.com

(lab use only)

ORDER #: 293280

LAB # (lab use only)	FIELD CODE					Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418 1" 8015B	TPH TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (NO₃) SO ₄ , Alkalinity	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg S	Volatiles	Semivolatiles	BTEX 8021B/5030 or 61EX 8250	RCI	N O.R.M.				RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT		
021	BH-4	(15-17')	15	17	"11/13/07	1328																																
022	BH-5	(0-2')	0	2	"	1335															X																	
023	"	(5-7')	5	7	"	1343															X																	
024	"	(10-12')	10	12	"	1350																																
025	"	(15-17')	15	17	"	1349																																
026	"	(20-22')	20	22	"	1359																																

Special Instructions:

Relinquished by: <u>Cindy Crain</u>	Date: <u>11/17/07</u>	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by ELOT:	Date:	Time:

Laboratory Comments:

Sample Containers Intact?
VOCs Free of Headspace?
Labels on container(s) id only
Custody seals on container(s)
Custody seals on cooler(s)
Sample Hand Delivered
by Sampler/Client Rep.?
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 40 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Ocotillo

Date/ Time: 11-17-07 @ 1139

Lab ID #: 293280

Initials: JMF

Sample Receipt Checklist

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

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

C141 DOCUMENTATION

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

X Initial Report

Final Report

Name of Company Chevron Midcontinent LP	Contact Larry Ridenour
Address HCR 60 Box 423 Lovington, N.M. 88260	Telephone No. 505-396-4414 X 102
Facility Name Lovington Paddock Unit #7	Facility Type Injection line

Surface Owner City of Lovington	Mineral Owner State of NM	Lease No. 9077-2
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LOCATION OF RELEASE

Unit Letter P	Section 25	Township 16S	Range 36E	Feet from the 330	South Line	Feet from the 330	East Line	County Lea
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Latitude_N 32 deg 53 min 12.85 sec Longitude_W 103 deg 18 min 1.02 sec
API #30-025-03747

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 20 BW	Volume Recovered 15 bbl fluids.
Source of Release injection line	Date and Hour of Occurrence 09/26/07 7:15 AM	Date and Hour of Discovery 09/26/07 7:30 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Pat Caperton	
By Whom? Larry Ridenour	Date and Hour 9/27/2007 10:25 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.*

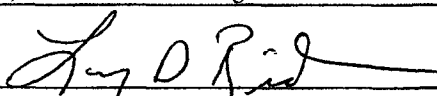
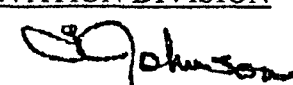
Describe Cause of Problem and Remedial Action Taken.*

Fiberglass line parted in collar. Leak detected by SCADA system and was shut in very shortly thereafter. Roustabout gang was dispatched with enviro vat to pick up standing water. Picked up 15 bbls of water total. Estimate total spill at 20 bbls water with skim of oil. Emergency one call was done and contaminated dirt removal began on 9/27/07.
Chlorides 35,300

Describe Area Affected and Cleanup Action Taken.*

Affected area is approximately 100' diameter circle. Leak has been turned over to Ocotillo Environmental for delineation, evaluation, and formulation of remediation plan to be approved by Chevron and NMOCD.

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: Larry Ridenour	Approved by District Supervisor: 	
Title: Operations Representative	Approval Date: 10-3-07	Expiration Date: 12-3-07
E-mail Address LRidenour@chevron.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/01/2007 Phone: 396-4414 X 102	SUBMIT FINAL C-141 w/ SUPPORTING DOCUMENTATION	

* Attach Additional Sheets If Necessary

RP# 1604