

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, Lovington Deep State,
Unit Letter M (SW/4, SW/4), Section 5, Township 17 South, Range 36 East,
Lea County, New Mexico
1RP #1612**

Dear Mr. Johnson:

Attached please find the Spill Remediation Workplan for the Chevron MidContinent L.P., SBU, Lovington Deep State site.

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



Cindy K. Crain, P.G.
Environmental Manager

cc: Larry Ridenour, Chevron



1RP#1604 & 1612 - Message

File Edit View Insert Format Tools Table Window Help Type a question for help

Send Options... HTML

To: Cindy Crain <cindy.crain@gmail.com>

Cc:

Subject: 1RP#1604 & 1612

Arial 10

Approved to proceed as requested. LJ

Start Inbox - ... 1RP-715... Inbox - ... 1RP#1... 10:03 AM

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 Deep State,
Unit Letter M (SW/4, SW/4), Section 5, Township 17 South, Range 36 East,
Lea County, New Mexico
(Latitude: N 32 deg. 51 min. 47.53 sec. / Longitude: W 103 deg. 23 min. 8.11 sec.)
1RP #1612**

Dear Mr. Johnson:

Chevron MidContinent L.P. SBU (Chevron) has retained Ocotillo Environmental, LLC (Ocotillo) to remediate impacts to soil from a leak at a water transfer line located near the Lovington Deep State well. The leak occurred in the southeast quarter (SE/4) of the southwest quarter (SW/4), Section 5, Township 17 South, Range 36 East, Lea County, New Mexico (Site). Approximately 20 barrels of produced water and 2 barrels of oil were released from the transfer line on October 2, 2007, and approximately 14 barrels of fluid was recovered from the site. A C-141 was submitted to the New Mexico Oil Conservation Division (NMOCD) on October 4, 2007, and a Spill Investigation Workplan was submitted on October 4, 2007. Verbal approval was granted for the Spill Investigation Workplan 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 56 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 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 14 and 15, 2007, Ocotillo installed thirteen (13) soil borings (BH-1 through BH-13) at the site, using an air rotary drilling rig, in order to assess the horizontal and vertical limits of the spill. Surficially impacted soil had been previously removed from the surface and disposed at an NMOCD approved disposal facility.

Soil samples from the exploratory borings were collected in five foot intervals from the ground surface to a depth of approximately 32 feet below ground surface (bgs) in borings BH-1, BH-2, and BH-7, to a depth of approximately 27 feet bgs in borings BH-3 and BH-8, to a depth of approximately 22 feet bgs in borings BH-4, BH-5, BH-6, and BH-9, and to a depth of approximately 17 feet bgs in borings BH-10, BH-11, BH-12 and BH-13. 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-13 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-13 were analyzed for chlorides by EPA method 325.3. At a minimum, the uppermost two (2) samples from each boring were analyzed for total petroleum hydrocarbons (TPH) by EPA method SW8015 (extended) for gasoline range organics (GRO) and diesel range organics (DRO). If the PID reading for any particular sample was greater than 100 ppm, the sample was also analyzed for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX). 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 the following samples from borings BH-1, BH-2, BH-5, and BH-9, were reported above the RRAL of 1,000 mg/kg, or above the RRAL of 100 mg/kg if located deeper than six (6) feet bgs:

- BH-1 0-2' 13,350 mg/kg
- BH-1 5-7' 290.7 mg/kg
- BH-1 10-12' 1,129 mg/kg

Mr. Larry Johnson
Page 3
December 10, 2007

- BH-2 0-2' 12,406 mg/kg
- BH-5 0-2' 13,870 mg/kg
- BH-5 5-7' 510.3 mg/kg
- BH-9 0-2' 1,240 mg/kg
- BH-9 5-7' 390.1 mg/kg.

Concentrations of BTEX exceeded the RRAL of 50 mg/kg in the following samples:

- BH-1 0-2' 192.544 mg/kg
- BH-2 0-2' 242.5141 mg/kg
- BH-5 0-2' 202.1216 mg/kg.

Chloride concentrations were below the RRAL of 250 mg/kg in all samples from borings BH-4, BH-10, BH-11, BH-12 and BH-13. Chloride concentrations were above the RRAL of 250 mg/kg until a depth of approximately 20-22 feet bgs in boring BH-1, 15-17 feet bgs in borings BH-2 and BH-7, and 10-12 feet bgs in borings BH-3, BH-5, BH-6, BH-8 and BH-9.

Proposed Remediation

Chevron proposes to conduct excavation of the impacted soil in the vicinity of boring BH-1 to a depth of approximately 18-19 feet bgs, in the vicinity of borings BH-2 and BH-7 to a depth of approximately 13-14 feet bgs, and in the vicinity of borings BH-3, BH-5, BH-6, BH-8 and BH-9 to a depth of approximately 8-9 feet bgs, until confirmations samples at all locations report chloride and TPH concentrations below the RRALs of 250 mg/kg and 100 mg/kg, respectively. Excavated 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.

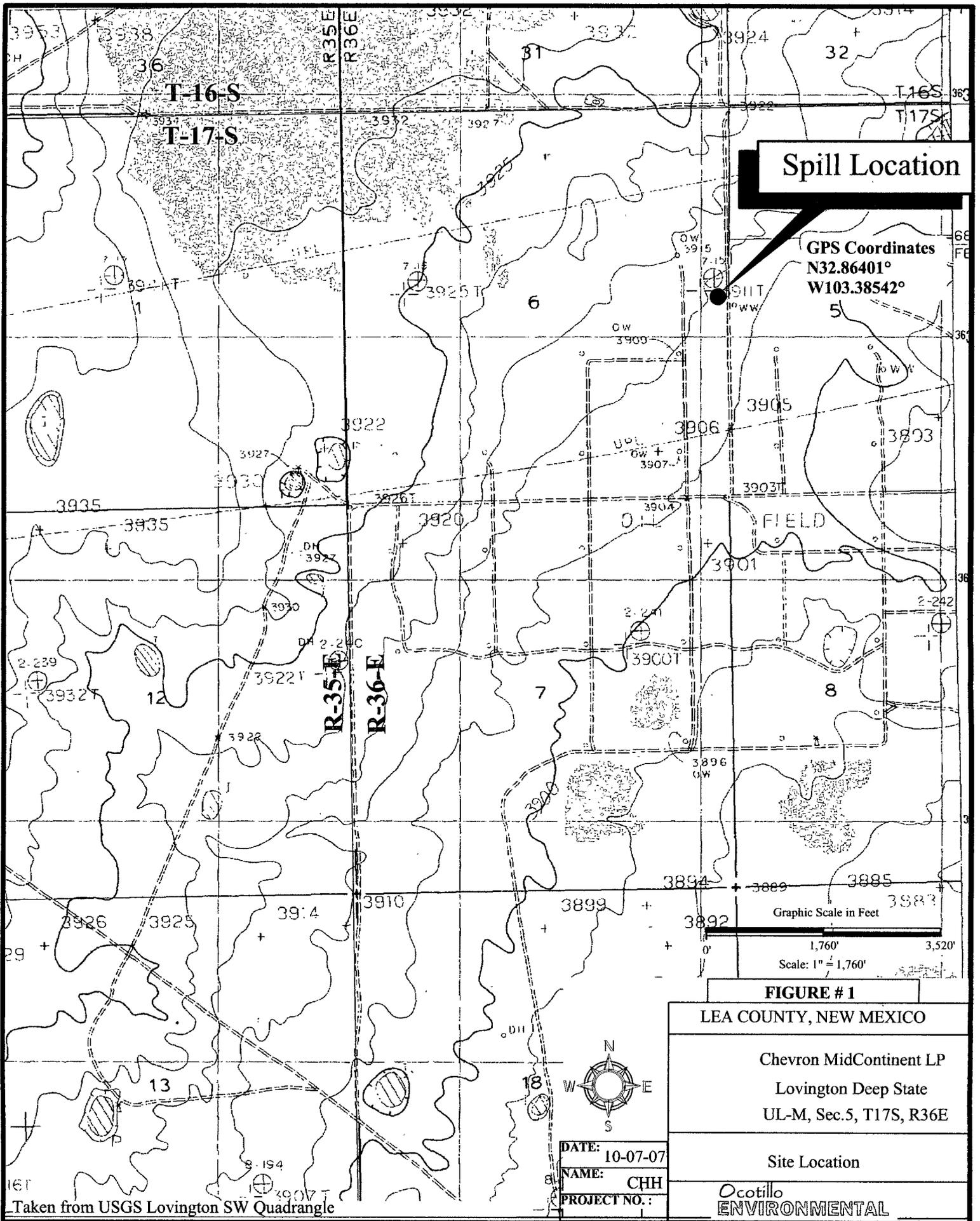
Sincerely,
Ocotillo Environmental, LLC



Cindy K. Crain, P.G.
Environmental Manager

cc: Larry Ridenour, Chevron

FIGURES



Spill Location

GPS Coordinates
N32.86401°
W103.38542°

FIGURE # 1

LEA COUNTY, NEW MEXICO	
Chevron MidContinent LP Lovington Deep State UL-M, Sec.5, T17S, R36E	
Site Location	
Ocotillo ENVIRONMENTAL	

DATE: 10-07-07
 NAME: CHH
 PROJECT NO.:

Taken from USGS Lovington SW Quadrangle

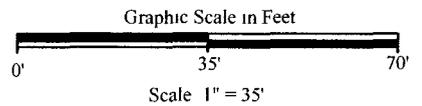
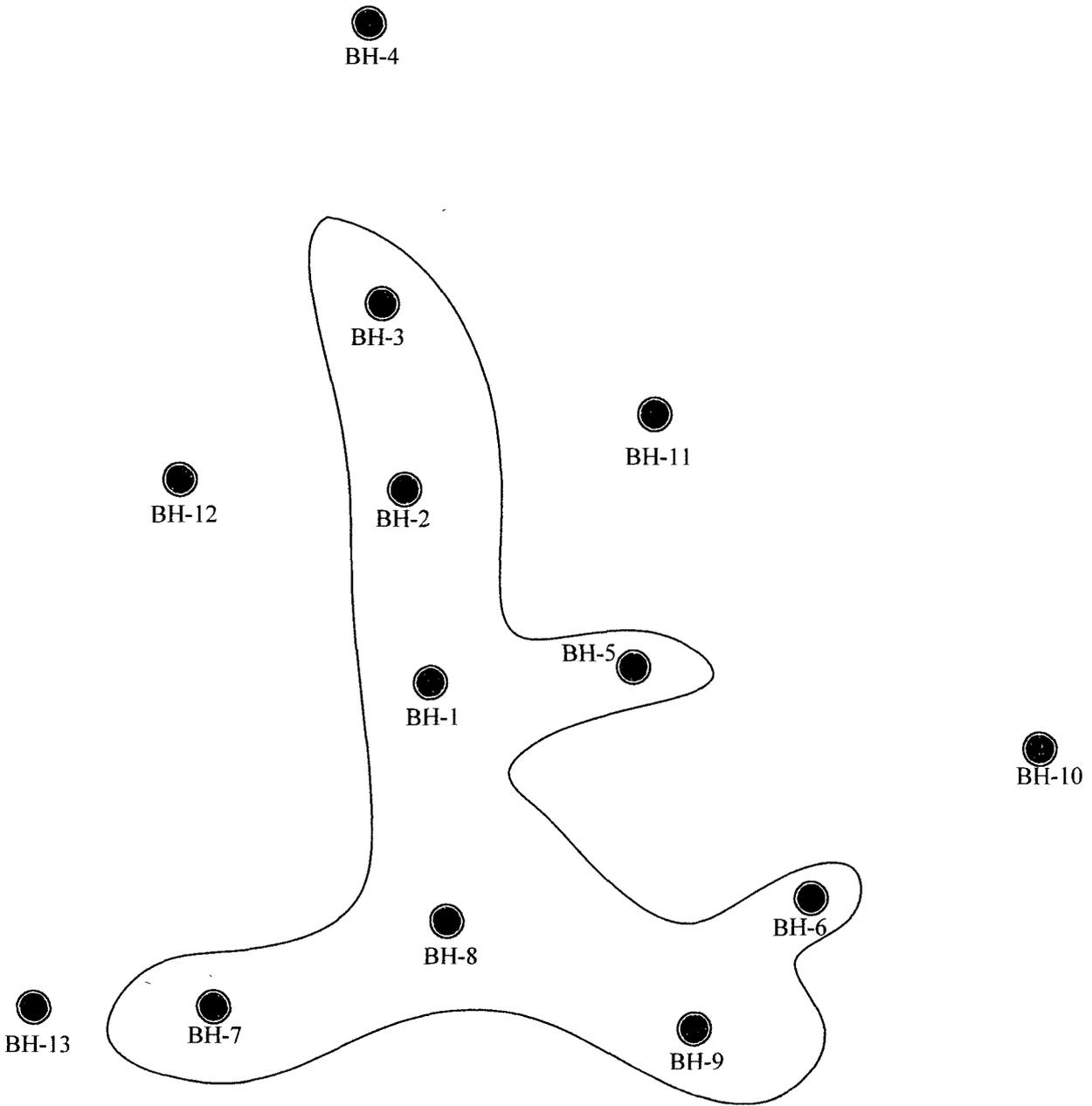
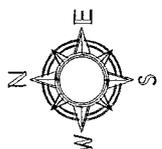


FIGURE # 2

LEA COUNTY, NEW MEXICO



Chevron MidContinent LP
 Lovington Deep State
 U.L.M, Sec.5, T17S, R36E



DATE: 12-9-07
 NAME: MAC
 PROJECT NO.: 1007-023B

Site Drawing With
 Soil Boring Locations

Ocotillo
 ENVIRONMENTAL

Legend

-  Soil Boring Location
-  Spill boundary

TABLE

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	Benzene mg/kg	Total BTEX mg/kg	Chloride (mg/kg)
RRAL						100	10	50	250
11/15/07	BH-13	0-2	<15.5	38.5	<15.5	38.5	---	---	33.1
		5-7	<15.2	<15.2	<15.2	<45.6	---	---	86.2
		10-12	---	---	---	---	---	---	42.5
		15-17	---	---	---	---	---	---	53.2

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 L.P., SBU

Project: Lovington Deep State

Project No.: 1007-023B

Location: Sec 5, T17S, 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
						500	1500	
0		Ground Surface						
0-5		Silty Clayey Sand Dark brown, silty clayey quartz sand, fine grained, poorly sorted, damp.	1	SS	2		>2500	0-2' bgs Total TPH= 242.5141 mg/kg Chloride 13400 mg/kg
5-10		Caliche Pinkish white quartz sand, non-indurated, dry.	2	SS	2		>2500	5-7' bgs Total TPH= .0096 mg/kg Chloride 10900 mg/kg
10-15			3	SS	2		>2500	10-12' bgs Chloride 1290 mg/kg
15-20			4	SS	2		1500	15-17' bgs Chloride 85.1 mg/kg
20-25			5	SS	2		600	20-22' bgs Chloride 42.5 mg/kg
25-30		Sand Light tan quartz sand, very fine grained, moderately well sorted, loose, dry.	6	SS	2		400	25-27' bgs Chloride 53.2 mg/kg
30-32			7	SS	2		400	30-32' bgs Chloride 42.5 mg/kg
32-40		TD at 32' bgs						

Ocotillo Environmental, LLC

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

Drill Method: Air Rotary

Drill Date: 11/14/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

Client: Chevron MidContinent L.P., SBU

Project: Lovington Deep State

Project No.: 1007-023B

Location: Sec 5, T17S, 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
						500	1500	
0		Ground Surface						
0-5		Silty Clayey Sand Dark brown, silty clayey quartz sand, fine grained, poorly sorted, damp.	1	SS	2		>2500	0-2' bgs Total TPH= 12406 mg/kg Chloride 13400 mg/kg
5-10		Caliche Pinkish white quartz sand, non-indurated, dry.	2	SS	2		>2500	5-7' bgs Total TPH= 63.6 mg/kg Chloride 10900 mg/kg
10-15			3	SS	2		>2500	10-12' bgs Total TPH = <46.8 mg/kg Chloride 1290 mg/kg
15-20			4	SS	2		1500	15-17' bgs Chloride 85.1 mg/kg
20-25			5	SS	2		600	20-22' bgs Chloride 42.5 mg/kg
25-30		Sand Light tan quartz sand, very fine grained, moderately well sorted, loose, dry.	6	SS	2		0	25-27' bgs Chloride 53.2 mg/kg
30-32			7	SS	2		0	30-32' bgs Chloride 42.5 mg/kg
32-40		TD at 32' bgs						

Ocotillo Environmental, LLC

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

Drill Method: Air Rotary

Drill Date: 11/14/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

Client: Chevron MidContinent L.P., SBU

Project: Lovington Deep State

Project No.: 1007-023B

Location: Sec 5, T17S, 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
						500	1500	
0		Ground Surface						
0-5		Silty Clayey Sand Dark brown, silty clayey quartz sand, fine grained, poorly sorted, damp.	1	SS	2		>2500	0-2' bgs Total TPH= 30.5 mg/kg Chloride 17100 mg/kg
5-10		Caliche Pinkish white quartz sand, non indurated, damp.	2	SS	2		>2500	5-7' bgs Total TPH= <47.7 Chloride 6080 mg/kg
10-15			3	SS	2		400	10-12' bgs Chloride 191 mg/kg
15-20			4	SS	2		1200	15-17' bgs Chloride 117 mg/kg
20-25			5	SS	2		0	20-22' bgs Chloride 42.5 mg/kg
25-30			6	SS	2		0	25-27' bgs Chloride 160 mg/kg
30-40		TD@32'						

Ocotillo Environmental, LLC

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

Drill Method: Air Rotary

Drill Date: 11/14/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

Client: Chevron MidContinent L.P., SBU

Project: Lovington Deep State

Project No.: 1007-023B

Location: Sec 5, T17S, R36E

Log: BH-4

Page: 1 of 1

Geologist: C. Crain

Depth	Symbol	Description	Sample Number	Sample Type	Sample Recovery	Field Chloride ppm		Analytical Data
						500	1500	
0		Ground Surface						
0-2'		Silty Clayey Sand Dark brown, silty clayey quartz sand, fine grained, poorly sorted, dry.	1	SS	2	0		0-2' bgs Total TPH= 37.1 mg/kg Chloride 45.4 mg/kg
5-7'		Caliche Pinkish white quartz sand caliche, non indurated, dry.	2	SS	2	0		5-7' bgs Total TPH= 37.8 mg/kg Chloride 64.6 mg/kg
10-12'			3	SS	2	0		10-12' bgs Chloride 53.2 mg/kg
15-17'			4	SS	2	0		15-17' bgs Chloride 74.4 mg/kg
20-22'			5	SS	2	0		20-22' bgs Chloride 42.5 mg/kg
22'		TD@22'						

Ocotillo Environmental, LLC

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

Drill Method: Air Rotary

Drill Date: 11/14/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

Client: Chevron MidContinent L.P., SBU

Project: Lovington Deep State

Project No.: 1007-023B

Location: Sec 5, T17S, R36E

Log: BH-5

Page: 1 of 1

Geologist: C. Crain

Depth	Symbol	Description	Sample Number	Sample Type	Sample Recovery	Field Chloride ppm		Analytical Data
						500	1500	
0		Ground Surface						
0-5		Silty Clayey Sand Dark brown, silty clayey quartz sand, fine grained, poorly sorted, dry.	1	SS	2		>2500	0-2' bgs Total TPH= 13870 mg/kg Chloride 15200mg/kg
5-10		Caliche Pinkish white quartz sand, non indurated, dry.	2	SS	2		2500	5-7' bgs Total TPH= 510.3 mg/kg Chloride 1880 mg/kg
10-15			3	SS	2		0	10-12' bgs Chloride 42.5 mg/kg
15-20			4	SS	2		0	15-17' bgs Chloride 106 mg/kg
20-22			5	SS	2		0	20-22' bgs Chloride 74.4 mg/kg
22-40		TD@22'						

Ocotillo Environmental, LLC

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

Drill Method: Air Rotary

Drill Date: 11/14/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

Client: Chevron MidContinent L.P., SBU

Project: Lovington Deep State

Project No.: 1007-023B

Location: Sec 5, T17S, R36E

Log: BH-6

Page: 1 of 1

Geologist: C. Crain

Depth	Symbol	Description	Sample Number	Sample Type	Sample Recovery	Field Chloride ppm	Analytical Data
						500 1500	
0		Ground Surface					
0-5		Silty Clayey Sand Dark brown, silty clayey quartz sand, fine grained, poorly sorted, dry.	1	SS	2	>2500	0-2' bgs Total TPH= 103.8 mg/kg Chloride 12,600 mg/kg
5-10		Caliche Pinkish white quartz sand, non indurated, dry.	2	SS	2	2500	5-7' bgs Total TPH= <46.8 mg/kg Chloride 1,130 mg/kg
10-15			3	SS	2	0	10-12' bgs Chloride 42.5 mg/kg
15-20			4	SS	2	0	15-17' bgs Chloride 42.5 mg/kg
20-22			5	SS	2	0	20-22' bgs Chloride 234 mg/kg
22-40		TD@22'					

Ocotillo Environmental, LLC

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

Drill Method: Air Rotary

Drill Date: 11/14/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

Client: Chevron MidContinent L.P., SBU

Project: Lovington Deep State

Project No.: 1007-023B

Location: Sec 5, T17S, R36E

Log: BH-7

Page: 1 of 1

Geologist: C. Crain

Depth	Symbol	Description	Sample Number	Sample Type	Sample Recovery	Field Chloride ppm		Analytical Data
						500	1500	
0		Ground Surface						
0-2'		Silty Clayey Sand Dark brown, silty clayey quartz sand, poorly sorted, damp.	1	SS	2		>2500	0-2' bgs Total TPH= <51 mg/kg Chloride 7850 mg/kg
5-7'		Caliche Pinkish white quartz sand, non indurated, dry.	2	SS	2		>2500	5-7' bgs Total TPH= <47.7 mg/kg Chloride 5060 mg/kg
10-12'			3	SS	2		2000	10-12' bgs Chloride 3400 mg/kg
15-17'			4	SS	2		1800	15-17' bgs Chloride 213 mg/kg
20-22'			5	SS	2		>2500	20-22' bgs Chloride 42.5 mg/kg
25-27'		Silty Sand Light brown silty quartz sand, moderately well sorted, moderately loose, dry.	6	SS			0	25-27' bgs Chloride 42.5 mg/kg
30-32'			7	SS			300	30-32' bgs Chloride 42.5 mg/kg
32'		TD@32'						

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

Drill Method: Air Rotary

Drill Date: 11/15/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

Client: Chevron MidContinent L.P., SBU

Project: Lovington Deep State

Project No.: 1007-023B

Location: Sec 5, T17S, R36E

Log: BH-8

Page: 1 of 1

Geologist: C. Crain

Depth	Symbol	Description	Sample Number	Sample Type	Sample Recovery	Field Chloride ppm	Analytical Data
						500 1500	
0		Ground Surface					
0-2'		Silty Clayey Sand Dark brown, silty clayey quartz sand, fine grained, poorly sorted, dry.	1	SS	2	>2500	0-2' bgs Total TPH= 22.2 mg/kg Chloride 3770 mg/kg
5-7'		Caliche Pinkish white quartz sand, non indurated, dry.	2	SS	2	400	5-7' bgs Total TPH= <45.9 mg/kg Chloride 304 mg/kg
10-12'			3	SS	2	0	10-12' bgs Chloride 85.1 mg/kg
15-17'			4	SS	2	250	15-17' bgs Chloride 85.1 mg/kg
20-22'			5	SS	2	100	20-22' bgs Chlorides 63.8 mg/kg
25-27'		Silty Sand Light tan silty quartz sand, fine grained moderately well sorted, moderately loose, dry.	6	SS		500	25-27' bgs Chlorides 106 mg/kg
27'		TD@27'					

Ocotillo Environmental, LLC

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

Drill Method: Air Rotary

Drill Date: 11/15/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

Client: Chevron MidContinent L.P., SBU

Project: Lovington Deep State

Project No.: 1007-023B

Location: Sec 5, T17S, R36E

Log: BH-9

Page: 1 of 1

Geologist: C. Crain

Depth	Symbol	Description	Sample Number	Sample Type	Sample Recovery	Field Chloride ppm		Analytical Data
						500	1500	
0		Ground Surface						
0-5		Silty Clayey Sand Dark brown, silty clayey quartz sand, fine grained, poorly sorted, dry.	1	SS	2		2500	0-2' bgs Total TPH= 1,240 mg/kg Chloride: 30,000 mg/kg
5-10		Caliche Pinkish white quartz sand, non indurated, dry.	2	SS	2		2200	5-7' bgs Total TPH= 390.1 mg/kg Chloride: 2.010 mg/kg
10-15			3	SS	2		0	10-12' bgs Chloride: 176 mg/kg
15-20			4	SS	2		750	15-17' bgs Chloride: 74.4 mg/kg
20-22			5	SS	2		0	20-22' bgs Chloride: 74.4 mg/kg
22-40		TD@22'						

Ocotillo Environmental, LLC

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

Drill Method: Air Rotary

Drill Date: 11/15/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

Client: Chevron MidContinent L.P., SBU

Project: Lovington Deep State

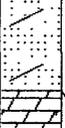
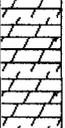
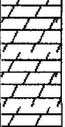
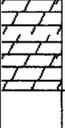
Project No.: 1007-023B

Location: Sec 5, T17S, R36E

Log: BH-10

Page: 1 of 1

Geologist: C. Crain

Depth	Symbol	Description	Sample Number	Sample Type	Sample Recovery	Field Chloride ppm		Analytical Data
						500	1500	
0		Ground Surface						
0-2'		Silty Clayey Sand Dark brown, silty clayey quartz sand, fine grained, poorly sorted, dry.	1	SS	2	0		0-2' bgs Total TPH= <47.7 mg/kg Chloride 45 mg/kg
5-7'		Caliche Pinkish white quartz sand, non indurated, dry.	2	SS	2	0		5-7' bgs Total TPH= <46.5 mg/kg Chloride 44 mg/kg
10-12'			3	SS	2	0		10-12' bgs Chloride 42.5 mg/kg
15-17'			4	SS	2	0		15-17' bgs Chloride 31.9 mg/kg
TD@17'								
20								
25								
30								
35								
40								

Ocotillo Environmental, LLC

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

Drill Method: Air Rotary

Drill Date: 11/15/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

Client: Chevron MidContinent L.P., SBU

Project: Lovington Deep State

Project No.: 1007-023B

Location: Sec 5, T17S, R36E

Log: BH-11

Page: 1 of 1

Geologist: C. Crain

Depth	Symbol	Description	Sample Number	Sample Type	Sample Recovery	Field Chloride ppm		Analytical Data
						500	1500	
0		Ground Surface						
0-2'		Silty Clayey Sand Dark brown, silty clayey quartz sand, poorly sorted, dry.	1	SS	2	0		0-2' bgs Total TPH= <50.4 mg/kg Chloride 48 mg/kg
5-7'		Caliche Pinkish white quartz sand, non indurated, dry.	2	SS	2	0		5-7' bgs Total TPH= <46.5 mg/kg Chloride 33 mg/kg
10-12'			3	SS	2	0		10-12' bgs Chloride 42.5 mg/kg
15-17'			4	SS	2	0		15-17' bgs Chloride 31.9 mg/kg
TD@17'								
20								
25								
30								
35								
40								

Ocotillo Environmental, LLC

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

Drill Method: Air Rotary

Drill Date: 11/15/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

Client: Chevron MidContinent L.P., SBU

Project: Lovington Deep State

Project No.: 1007-023B

Location: Sec 5, T17S, R36E

Log: BH-12

Page: 1 of 1

Geologist: C. Crain

Depth	Symbol	Description	Sample Number	Sample Type	Sample Recovery	Field Chloride ppm		Analytical Data
						500	1500	
0		Ground Surface						
0-2'		Silty Clayey Sand Dark brown, silty clayey quartz sand, poorly sorted, dry.	1	SS	2	0		0-2' bgs Total TPH= 48.9 mg/kg Chloride 34 mg/kg
5-7'		Caliche Pinkish white quartz sand, non indurated, dry.	2	SS	2	0		5-7' bgs Total TPH= 32.7 mg/kg Chloride 46 mg/kg
10-12'			3	SS	2	0		10-12' bgs Chloride 63.8 mg/kg
15-17'			4	SS	2	0		15-17' bgs Chloride 42.5 mg/kg
TD@17'								
20								
25								
30								
35								
40								

Ocotillo Environmental, LLC

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

Drill Method: Air Rotary

Drill Date: 11/15/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

Client: Chevron MidContinent L.P., SBU

Project: Lovington Deep State

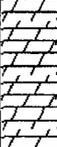
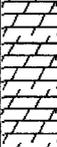
Project No.: 1007-023B

Location: Sec 5, T17S, R36E

Log: BH-13

Page: 1 of 1

Geologist: C. Crain

Depth	Symbol	Description	Sample Number	Sample Type	Sample Recovery	Field Chloride ppm		Analytical Data
						500	1500	
0		Ground Surface						
0-5		Silty Clayey Sand Dark brown, silty clayey quartz sand, fine grained, poorly sorted, dry.	1	SS	2	0		0-2' bgs Total TPH= 38.5 mg/kg Chloride 33.1 mg/kg
5-10		Caliche Pinkish white quartz sand, non indurated, dry.	2	SS	2	0		5-7' bgs Total TPH= <45.6 mg/kg Chloride 86.2 mg/kg
10-15			3	SS	2	0		10-12' bgs Chloride 42.5 mg/kg
15-17			4	SS	2	0		15-17' bgs Chloride 53.2 mg/kg
17-40		TD@17'						

Ocotillo Environmental, LLC

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

Drill Method: Air Rotary

Drill Date: 11/15/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

APPENDIX B
LABORATORY DATA AND CHAIN OF CUSTODY
DOCUMENTATION

Analytical Report 293282

for

Ocotillo Environmental, LLC

Project Manager: Cindy Crain

Chevron Lovington Deep State

1007-023B

30-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



30-NOV-07

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

Reference: XENCO Report No: **293282**
Chevron Lovington Deep State
Project Address: Sec. 5, T17S, 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 293282. 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. 293282 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.

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



Sample Cross Reference 293282

Ocotillo Environmental, LLC, Hobbs, NM

Chevron Lovington Deep State

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-1 (0-2')	S	Nov-14-07 09:30	0 - 2 ft	293282-001
BH-1 (5-7')	S	Nov-14-07 09:42	5 - 7 ft	293282-002
BH-1 (10-12')	S	Nov-14-07 09:50	10 - 12 ft	293282-003
BH-1 (15-17')	S	Nov-14-07 09:58	15 - 17 ft	293282-004
BH-1 (20-22')	S	Nov-14-07 10:05	20 - 22 ft	293282-005
BH-1 (25-27')	S	Nov-14-07 10:13	25 - 27 ft	293282-006
BH-1 (30-32')	S	Nov-14-07 10:20	30 - 32 ft	293282-007
BH-2 (0-2')	S	Nov-14-07 10:38	0 - 2 ft	293282-008
BH-2 (5-7')	S	Nov-14-07 10:42	5 - 7 ft	293282-009
BH-2 (10-12')	S	Nov-14-07 10:50	10 - 12 ft	293282-010
BH-2 (15-17')	S	Nov-14-07 10:58	15 - 17 ft	293282-011
BH-2 (20-22')	S	Nov-14-07 11:02	20 - 22 ft	293282-012
BH-2 (25-27')	S	Nov-14-07 12:59	25 - 27 ft	293282-013
BH-2 (30-32')	S	Nov-14-07 13:04	30 - 32 ft	293282-014
BH-3 (0-2')	S	Nov-14-07 12:16	0 - 2 ft	293282-015
BH-3 (5-7')	S	Nov-14-07 12:21	5 - 7 ft	293282-016
BH-3 (10-12')	S	Nov-14-07 12:23	10 - 12 ft	293282-017
BH-3 (15-17')	S	Nov-14-07 12:31	15 - 17 ft	293282-018
BH-3 (20-22')	S	Nov-14-07 12:36	20 - 22 ft	293282-019
BH-3 (25-27')	S	Nov-14-07 12:46	25 - 27 ft	293282-020
BH-4 (0-2')	S	Nov-14-07 13:10	0 - 2 ft	293282-021
BH-4 (5-7')	S	Nov-14-07 13:21	5 - 7 ft	293282-022
BH-4 (10-12')	S	Nov-14-07 13:23	10 - 12 ft	293282-023
BH-4 (15-17')	S	Nov-14-07 13:25	15 - 17 ft	293282-024
BH-4 (20-22')	S	Nov-14-07 13:31	20 - 22 ft	293282-025
BH-5 (0-2')	S	Nov-14-07 13:42	0 - 2 ft	293282-026
BH-5 (5-7')	S	Nov-14-07 13:49	5 - 7 ft	293282-027
BH-5 (10-12')	S	Nov-14-07 14:01	10 - 12 ft	293282-028
BH-5 (15-17')	S	Nov-14-07 14:07	15 - 17 ft	293282-029
BH-5 (20-22')	S	Nov-14-07 14:11	20 - 22 ft	293282-030
BH-6 (0-2')	S	Nov-14-07 14:28	0 - 2 ft	293282-031
BH-6 (5-7')	S	Nov-14-07 14:31	5 - 7 ft	293282-032
BH-6 (10-12')	S	Nov-14-07 14:40	10 - 12 ft	293282-033
BH-6 (15-17')	S	Nov-14-07 14:44	15 - 17 ft	293282-034
BH-6 (20-22')	S	Nov-14-07 14:50	20 - 22 ft	293282-035
BH-7 (0-2')	S	Nov-15-07 09:25	0 - 2 ft	293282-036
BH-7 (5-7')	S	Nov-15-07 09:31	5 - 7 ft	293282-037
BH-7 (10-12')	S	Nov-15-07 09:37	10 - 12 ft	293282-038
BH-7 (15-17')	S	Nov-15-07 09:47	15 - 17 ft	293282-039
BH-7 (20-22')	S	Nov-15-07 09:53	20 - 22 ft	293282-040
BH-7 (25-27')	S	Nov-15-07 10:02	25 - 27 ft	293282-041
BH-7 (30-32')	S	Nov-15-07 10:10	30 - 32 ft	293282-042
BH-8 (0-2')	S	Nov-15-07 10:20	0 - 2 ft	293282-043



Sample Cross Reference 293282

Ocotillo Environmental, LLC, Hobbs, NM
Chevron Lovington Deep State

BH-8 (5-7')	S	Nov-15-07 10:29	5 - 7 ft	293282-044
BH-8 (10-12')	S	Nov-15-07 10:32	10 - 12 ft	293282-045
BH-8 (15-17')	S	Nov-15-07 10:36	15 - 17 ft	293282-046
BH-8 (20-22')	S	Nov-15-07 10:40	20 - 22 ft	293282-047
BH-8 (25-27')	S	Nov-15-07 10:47	25 - 27 ft	293282-048
BH-9 (0-2')	S	Nov-15-07 11:00	0 - 2 ft	293282-049
BH-9 (5-7')	S	Nov-15-07 11:06	5 - 7 ft	293282-050
BH-9 (10-12')	S	Nov-15-07 11:15	10 - 12 ft	293282-051
BH-9 (15-17')	S	Nov-15-07 11:20	15 - 17 ft	293282-052
BH-9 (20-22')	S	Nov-15-07 11:25	20 - 22 ft	293282-053
BH-10 (0-2')	S	Nov-15-07 12:04	0 - 2 ft	293282-054
BH-10 (5-7')	S	Nov-15-07 12:12	5 - 7 ft	293282-055
BH-10 (10-12')	S	Nov-15-07 12:19	10 - 12 ft	293282-056
BH-10 (15-17')	S	Nov-15-07 12:24	15 - 17 ft	293282-057
BH-11 (0-2')	S	Nov-15-07 12:31	0 - 2 ft	293282-058
BH-11 (5-7')	S	Nov-15-07 12:35	5 - 7 ft	293282-059
BH-11 (10-12')	S	Nov-15-07 12:40	10 - 12 ft	293282-060
BH-11 (15-17')	S	Nov-15-07 12:46	15 - 17 ft	293282-061
BH-12 (0-2')	S	Nov-15-07 12:56	0 - 2 ft	293282-062
BH-12 (5-7')	S	Nov-15-07 13:00	5 - 7 ft	293282-063
BH-12 (10-12')	S	Nov-15-07 13:10	10 - 12 ft	293282-064
BH-12 (15-17')	S	Nov-15-07 13:14	15 - 17 ft	293282-065
BH-13 (0-2')	S	Nov-15-07 13:18	0 - 2 ft	293282-066
BH-13 (5-7')	S	Nov-15-07 13:22	5 - 7 ft	293282-067
BH-13 (10-12')	S	Nov-15-07 13:28	10 - 12 ft	293282-068
BH-13 (15-17')	S	Nov-15-07 13:35	15 - 17 ft	293282-069



Certificate of Analysis Summary 293282

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron Lovington Deep State

Project Id: 1007-023B

Contact: Cindy Crain

Project Location: Sec. 5, T17S, R36E, Lea Co., NM

Date Received in Lab: Sat Nov-17-07 11:27 am

Report Date: 30-NOV-07

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	293282-001	293282-002	293282-003	293282-004	293282-005	293282-006
	<i>Field Id:</i>	BH-1 (0-2')	BH-1 (5-7')	BH-1 (10-12')	BH-1 (15-17')	BH-1 (20-22')	BH-1 (25-27')
	<i>Depth:</i>	0-2 ft	5-7 ft	10-12 ft	15-17 ft	20-22 ft	25-27 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-14-07 09:30	Nov-14-07 09:42	Nov-14-07 09:50	Nov-14-07 09:58	Nov-14-07 10:05	Nov-14-07 10:13
BTEX by EPA 8021B	<i>Extracted:</i>	Nov-28-07 12:27					
	<i>Analyzed:</i>	Nov-29-07 13:36					
	<i>Units/RL:</i>	mg/kg RL					
Benzene		1.724 0.1190					
Toluene		43.48 0.2380					
Ethylbenzene		34.43 0.1190					
m,p-Xylenes		81.51 0.2380					
o-Xylene		31.40 0.1190					
Xylenes, Total		112.91					
Total BTEX		192.544					
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-19-07 15:00	Nov-19-07 15:00	Nov-19-07 15:00			
	<i>Units/RL:</i>	% RL	% RL	% RL			
Percent Moisture		16.0 1.00	7.24 1.00	8.21 1.00			
TPH by SW8015 Mod	<i>Extracted:</i>	Nov-20-07 14:20	Nov-20-07 14:20	Nov-20-07 14:20			
	<i>Analyzed:</i>	Nov-25-07 17:56	Nov-25-07 18:23	Nov-25-07 18:50			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C12 Gasoline Range Hydrocarbons		2690 89.3	51.3 16.2	138 16.3			
C12-C28 Diesel Range Hydrocarbons		9520 89.3	201 16.2	879 16.3			
C28-C35 Oil Range Hydrocarbons		1140 89.3	38.4 16.2	112 16.3			
Total TPH		13350	290.7	1129			
Total Chloride by EPA 325.3	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-20-07 08:30					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		25300 5.95	6420 5.39	1850 5.45	936 5.00	128 5.00	85.1 5.00

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 user 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 293282

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron Lovington Deep State

Project Id: 1007-023B

Contact: Cindy Crain

Project Location: Sec. 5, T17S, R36E, Lea Co., NM

Date Received in Lab: Sat Nov-17-07 11:27 am

Report Date: 30-NOV-07

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	293282-007	293282-008	293282-009	293282-010	293282-011	293282-012
	<i>Field Id:</i>	BH-1 (30-32')	BH-2 (0-2')	BH-2 (5-7')	BH-2 (10-12')	BH-2 (15-17')	BH-2 (20-22')
	<i>Depth:</i>	30-32 ft	0-2 ft	5-7 ft	10-12 ft	15-17 ft	20-22 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-14-07 10:20	Nov-14-07 10:38	Nov-14-07 10:42	Nov-14-07 10:50	Nov-14-07 10:58	Nov-14-07 11:02
BTEX by EPA 8021B	<i>Extracted:</i>		Nov-28-07 12:27	Nov-28-07 13:51			
	<i>Analyzed:</i>		Nov-29-07 16:06	Nov-28-07 19:51			
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL			
Benzene			0.9841 0.2326	ND 0.0011			
Toluene			44.11 0.4653	ND 0.0022			
Ethylbenzene			49.95 0.2326	0.0019 0.0011			
m,p-Xylenes			102.0 0.4653	0.0077 0.0022			
o-Xylene			45.47 0.2326	ND 0.0011			
Xylenes, Total			147.47	0.0077			
Total BTEX			242.5141	0.0096			
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>		Nov-19-07 15:00	Nov-19-07 15:00	Nov-19-07 15:00		
	<i>Units/RL:</i>		% RL	% RL	% RL		
Percent Moisture			14.0 1.00	10.1 1.00	4.01 1.00		
TPH by SW8015 Mod	<i>Extracted:</i>		Nov-20-07 14:20	Nov-20-07 14:20	Nov-20-07 14:20		
	<i>Analyzed:</i>		Nov-25-07 19:16	Nov-25-07 19:43	Nov-25-07 20:09		
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL	mg/kg RL		
	C6-C12 Gasoline Range Hydrocarbons		3530 87.2	18.2 16.7	ND 15.6		
C12-C28 Diesel Range Hydrocarbons		7950 87.2	45.4 16.7	ND 15.6			
C28-C35 Oil Range Hydrocarbons		926 87.2	ND 16.7	ND 15.6			
Total TPH		12406	63.6	ND			
Total Chloride by EPA 325.3	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-20-07 08:30	Nov-20-07 08:30	Nov-20-07 08:30	Nov-20-07 00:00	Nov-20-07 00:00	Nov-20-07 00:00
	<i>Units/RL:</i>	mg/kg RL					
Chloride		63.8 5.00	13400 5.82	10900 5.56	1290 5.21	85.1 5.00	42.5 5.00

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 293282

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron Lovington Deep State

Project Id: 1007-023B

Contact: Cindy Crain

Project Location: Sec. 5, T17S, R36E, Lea Co., NM

Date Received in Lab: Sat Nov-17-07 11:27 am

Report Date: 30-NOV-07

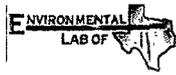
Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	293282-013	293282-014	293282-015	293282-016	293282-017	293282-018
	<i>Field Id:</i>	BH-2 (25-27')	BH-2 (30-32')	BH-3 (0-2')	BH-3 (5-7')	BH-3 (10-12')	BH-3 (15-17')
	<i>Depth:</i>	25-27 ft	30-32 ft	0-2 ft	5-7 ft	10-12 ft	15-17 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-14-07 12:59	Nov-14-07 13:04	Nov-14-07 12:16	Nov-14-07 12:21	Nov-14-07 12:23	Nov-14-07 12:31
Percent Moisture	<i>Extracted:</i>			Nov-19-07 15:00	Nov-19-07 15:00		
	<i>Analyzed:</i>						
	<i>Units/RL:</i>			% RL	% RL		
Percent Moisture				13.0 1.00	5.48 1.00		
TPH by SW8015 Mod	<i>Extracted:</i>			Nov-20-07 14:20	Nov-20-07 14:20		
	<i>Analyzed:</i>			Nov-25-07 20:35	Nov-25-07 21:01		
	<i>Units/RL:</i>			mg/kg RL	mg/kg RL		
C6-C12 Gasoline Range Hydrocarbons				ND 17.2	ND 15.9		
C12-C28 Diesel Range Hydrocarbons				30.5 17.2	ND 15.9		
C28-C35 Oil Range Hydrocarbons				ND 17.2	ND 15.9		
Total TPH				30.5	ND		
Total Chloride by EPA 325.3	<i>Extracted:</i>			Nov-20-07 00:00	Nov-20-07 00:00	Nov-20-07 00:00	Nov-20-07 00:00
	<i>Analyzed:</i>	Nov-20-07 00:00					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		53.2 5.00	42.5 5.00	17100 5.75	6080 5.29	191 5.00	117 5.00

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 293282

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron Lovington Deep State

Project Id: 1007-023B

Contact: Cindy Crain

Project Location: Sec. 5, T17S, R36E, Lea Co., NM

Date Received in Lab: Sat Nov-17-07 11:27 am

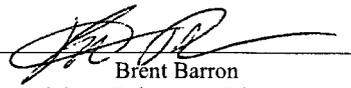
Report Date: 30-NOV-07

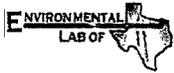
Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	293282-019	293282-020	293282-021	293282-022	293282-023	293282-024
	<i>Field Id:</i>	BH-3 (20-22')	BH-3 (25-27')	BH-4 (0-2')	BH-4 (5-7')	BH-4 (10-12')	BH-4 (15-17')
	<i>Depth:</i>	20-22 ft	25-27 ft	0-2 ft	5-7 ft	10-12 ft	15-17 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-14-07 12.36	Nov-14-07 12.46	Nov-14-07 13 10	Nov-14-07 13 21	Nov-14-07 13 23	Nov-14-07 13 25
Percent Moisture	<i>Extracted:</i>			Nov-19-07 15.00	Nov-19-07 15:00		
	<i>Analyzed:</i>						
	<i>Units/RL:</i>			% RL	% RL		
Percent Moisture				6.34 1.00	1.20 1.00		
TPH by SW8015 Mod	<i>Extracted:</i>			Nov-20-07 14.20	Nov-20-07 14 20		
	<i>Analyzed:</i>			Nov-25-07 21.27	Nov-25-07 21.53		
	<i>Units/RL:</i>			mg/kg RL	mg/kg RL		
C6-C12 Gasoline Range Hydrocarbons				ND 16.0	ND 15.2		
C12-C28 Diesel Range Hydrocarbons				37.1 16.0	37.8 15.2		
C28-C35 Oil Range Hydrocarbons				ND 16.0	ND 15.2		
Total TPH				37.1	37.8		
Total Chloride by EPA 325.3	<i>Extracted:</i>			Nov-20-07 00:00	Nov-20-07 00:00	Nov-20-07 00:00	Nov-20-07 00:00
	<i>Analyzed:</i>	Nov-20-07 00:00	Nov-20-07 00.00	Nov-20-07 00 00	Nov-20-07 00.00	Nov-20-07 00:00	Nov-20-07 00:00
	<i>Units/RL:</i>	mg/kg RL					
Chloride		42.5 5.00	160 5.00	45.4 5.34	64.6 5.06	53.2 5.00	74.4 5.00

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Brent Barron
 Odessa Laboratory Director



Certificate of Analysis Summary 293282

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron Lovington Deep State

Project Id: 1007-023B

Contact: Cindy Crain

Project Location: Sec. 5, T17S, R36E, Lea Co., NM

Date Received in Lab: Sat Nov-17-07 11:27 am

Report Date: 30-NOV-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	293282-025	293282-026	293282-027	293282-028	293282-029	293282-030
	Field Id:	BH-4 (20-22')	BH-5 (0-2')	BH-5 (5-7')	BH-5 (10-12')	BH-5 (15-17')	BH-5 (20-22')
	Depth:	20-22 ft	0-2 ft	5-7 ft	10-12 ft	15-17 ft	20-22 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-14-07 13:31	Nov-14-07 13:42	Nov-14-07 13:49	Nov-14-07 14:01	Nov-14-07 14:07	Nov-14-07 14:11
BTEX by EPA 8021B	Extracted:		Nov-28-07 12:27				
	Analyzed:		Nov-29-07 16:23				
	Units/RL:		mg/kg RL				
	Benzene		0.0716 0.0577				
	Toluene		20.43 0.2308				
	Ethylbenzene		43.65 0.1154				
	m,p-Xylenes		97.00 0.2308				
	o-Xylene		40.97 0.1154				
Xylenes, Total		137.97					
Total BTEX		202.1216					
Percent Moisture	Extracted:		Nov-19-07 15:00	Nov-19-07 15:00			
	Analyzed:						
	Units/RL:		% RL	% RL			
Percent Moisture		13.3 1.00	3.93 1.00				
TPH by SW8015 Mod	Extracted:		Nov-20-07 14:13	Nov-20-07 14:13			
	Analyzed:		Nov-26-07 02:37	Nov-26-07 03:03			
	Units/RL:		mg/kg RL	mg/kg RL			
	C6-C12 Gasoline Range Hydrocarbons		2590 86.6	34.9 15.6			
	C12-C28 Diesel Range Hydrocarbons		10100 86.6	409 15.6			
C28-C35 Oil Range Hydrocarbons		1180 86.6	66.4 15.6				
Total TPH		13870	510.3				
Total Chloride by EPA 325.3	Extracted:		Nov-20-07 00:00				
	Analyzed:						
	Units/RL:		mg/kg RL				
Chloride		42.5 5.00	15200 5.77	1880 5.20	42.5 5.00	106 5.00	74.4 5.00

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Project Name: Chevron Lovington Deep State

Project Id: 1007-023B

Contact: Cindy Crain

Project Location: Sec. 5, T17S, R36E, Lea Co., NM

Date Received in Lab: Sat Nov-17-07 11:27 am

Report Date: 30-NOV-07

Project Manager: Brent Barron, II

Analysis Requested	<i>Lab Id:</i>	293282-031	293282-032	293282-033	293282-034	293282-035	293282-036
	<i>Field Id:</i>	BH-6 (0-2')	BH-6 (5-7')	BH-6 (10-12')	BH-6 (15-17')	BH-6 (20-22')	BH-7 (0-2')
	<i>Depth:</i>	0-2 ft	5-7 ft	10-12 ft	15-17 ft	20-22 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-14-07 14:28	Nov-14-07 14:31	Nov-14-07 14:40	Nov-14-07 14:44	Nov-14-07 14:50	Nov-15-07 09:25
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-19-07 15:00	Nov-19-07 15:00				Nov-19-07 15:00
	<i>Units/RL:</i>	% RL	% RL				% RL
Percent Moisture		11.5 1.00	4.00 1.00				11.9 1.00
TPH by SW8015 Mod	<i>Extracted:</i>	Nov-20-07 14:13	Nov-20-07 14:13				Nov-20-07 14:13
	<i>Analyzed:</i>	Nov-26-07 03:28	Nov-26-07 03:54				Nov-26-07 04:20
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		ND 16.9	ND 15.6				ND 17.0
C12-C28 Diesel Range Hydrocarbons		86.6 16.9	ND 15.6				ND 17.0
C28-C35 Oil Range Hydrocarbons		17.2 16.9	ND 15.6				ND 17.0
Total TPH		103.8	ND				ND
Total Chloride by EPA 325.3	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-20-07 00:00					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		12600 5.65	1130 5.21	42.5 5.00	42.5 5.00	234 5.00	7850 5.68

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Project Name: Chevron Lovington Deep State

Project Id: 1007-023B

Contact: Cindy Crain

Project Location: Sec. 5, T17S, R36E, Lea Co., NM

Date Received in Lab: Sat Nov-17-07 11.27 am

Report Date: 30-NOV-07

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	293282-037	293282-038	293282-039	293282-040	293282-041	293282-042
	<i>Field Id:</i>	BH-7 (5-7')	BH-7 (10-12')	BH-7 (15-17')	BH-7 (20-22')	BH-7 (25-27')	BH-7 (30-32')
	<i>Depth:</i>	5-7 ft	10-12 ft	15-17 ft	20-22 ft	25-27 ft	30-32 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-15-07 09:31	Nov-15-07 09:37	Nov-15-07 09:47	Nov-15-07 09:53	Nov-15-07 10:02	Nov-15-07 10:10
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-19-07 16:00					
	<i>Units/RL:</i>	% RL					
Percent Moisture		5.47 1.00					
TPH by SW8015 Mod	<i>Extracted:</i>	Nov-20-07 14:13					
	<i>Analyzed:</i>	Nov-26-07 04:45					
	<i>Units/RL:</i>	mg/kg RL					
C6-C12 Gasoline Range Hydrocarbons		ND 15.9					
C12-C28 Diesel Range Hydrocarbons		ND 15.9					
C28-C35 Oil Range Hydrocarbons		ND 15.9					
Total TPH		ND					
Total Chloride by EPA 325.3	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-20-07 00:00					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		5060 5.29	3400 5.00	213 5.00	42.5 5.00	42.5 5.00	42.5 5.00

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Project Id: 1007-023B

Contact: Cindy Crain

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Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	293282-043	293282-044	293282-045	293282-046	293282-047	293282-048
	<i>Field Id:</i>	BH-8 (0-2')	BH-8 (5-7')	BH-8 (10-12')	BH-8 (15-17')	BH-8 (20-22')	BH-8 (25-27')
	<i>Depth:</i>	0-2 ft	5-7 ft	10-12 ft	15-17 ft	20-22 ft	25-27 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-15-07 10:20	Nov-15-07 10:29	Nov-15-07 10:32	Nov-15-07 10:36	Nov-15-07 10:40	Nov-15-07 10:47
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-19-07 16:00	Nov-19-07 16:00				
	<i>Units/RL:</i>	% RL	% RL				
Percent Moisture		12.6 1.00	1.91 1.00				
TPH by SW8015 Mod	<i>Extracted:</i>	Nov-20-07 14:13	Nov-20-07 14:13				
	<i>Analyzed:</i>	Nov-26-07 05:11	Nov-26-07 05:36				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons		ND 17.2	ND 15.3				
C12-C28 Diesel Range Hydrocarbons		22.2 17.2	ND 15.3				
C28-C35 Oil Range Hydrocarbons		ND 17.2	ND 15.3				
Total TPH		22.2	ND				
Total Chloride by EPA 325.3	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-20-07 00:00					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		3770 5.72	304 5.10	85.1 5.00	85.1 5.00	63.8 5.00	106 5.00

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Contact: Cindy Crain

Project Location: Sec. 5, T17S, R36E, Lea Co., NM

Date Received in Lab: Sat Nov-17-07 11 27 am

Report Date: 30-NOV-07

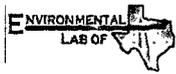
Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	293282-049	293282-050	293282-051	293282-052	293282-053	293282-054
	<i>Field Id:</i>	BH-9 (0-2')	BH-9 (5-7')	BH-9 (10-12')	BH-9 (15-17')	BH-9 (20-22')	BH-10 (0-2')
	<i>Depth:</i>	0-2 ft	5-7 ft	10-12 ft	15-17 ft	20-22 ft	0-2 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-15-07 11:00	Nov-15-07 11:06	Nov-15-07 11:15	Nov-15-07 11:20	Nov-15-07 11:25	Nov-15-07 12:04
BTEX by EPA 8021B	<i>Extracted:</i>	Nov-28-07 12:27	Nov-28-07 13:51				
	<i>Analyzed:</i>	Nov-29-07 15:33	Nov-28-07 20:24				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Benzene		ND 0.0012	ND 0.0010				
Toluene		ND 0.0023	ND 0.0021				
Ethylbenzene		ND 0.0012	0.0042 0.0010				
m,p-Xylenes		ND 0.0023	0.0058 0.0021				
o-Xylene		ND 0.0012	0.0191 0.0010				
Xylenes, Total		ND	0.0249				
Total BTEX		ND	0.0291				
Percent Moisture	<i>Extracted:</i>						Nov-19-07 16:00
	<i>Analyzed:</i>	Nov-19-07 16:00	Nov-19-07 16:00	Nov-19-07 16:00			
	<i>Units/RL:</i>	% RL	% RL	% RL			% RL
Percent Moisture		14.2 1.00	4.67 1.00	3.49 1.00			5.54 1.00
TPH by SW8015 Mod	<i>Extracted:</i>	Nov-20-07 14:13	Nov-20-07 14:13	Nov-20-07 14:13			Nov-20-07 14:13
	<i>Analyzed:</i>	Nov-26-07 06:02	Nov-26-07 06:53	Nov-26-07 07:18			Nov-26-07 07:43
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		162 87.4	73.7 15.7	ND 15.5			ND 15.9
C12-C28 Diesel Range Hydrocarbons		893 87.4	285 15.7	ND 15.5			ND 15.9
C28-C35 Oil Range Hydrocarbons		185 87.4	31.4 15.7	ND 15.5			ND 15.9
Total TPH		1240	390.1	ND			ND
Total Chloride by EPA 325.3	<i>Extracted:</i>						Nov-20-07 00:00
	<i>Analyzed:</i>	Nov-20-07 00:00					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		30000 5.83	2010 5.24	176 5.18	74.4 5.00	74.4 5.00	45.0 5.29

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Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Chevron Lovington Deep State

Project Id: 1007-023B

Contact: Cindy Crain

Project Location: Sec. 5, T17S, R36E, Lea Co., NM

Date Received in Lab: Sat Nov-17-07 11:27 am

Report Date: 30-NOV-07

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	293282-055	293282-056	293282-057	293282-058	293282-059	293282-060
	<i>Field Id:</i>	BH-10 (5-7')	BH-10 (10-12')	BH-10 (15-17')	BH-11 (0-2')	BH-11 (5-7')	BH-11 (10-12')
	<i>Depth:</i>	5-7 ft	10-12 ft	15-17 ft	0-2 ft	5-7 ft	10-12 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-15-07 12.12	Nov-15-07 12.19	Nov-15-07 12:24	Nov-15-07 12.31	Nov-15-07 12.35	Nov-15-07 12 40
Percent Moisture	<i>Extracted:</i>				Nov-19-07 16:00	Nov-19-07 16.00	
	<i>Analyzed:</i>	Nov-19-07 16:00				Nov-19-07 16.00	
	<i>Units/RL:</i>	% RL			% RL	% RL	
Percent Moisture		3 39 1.00			11 0 1.00	2 98 1.00	
TPH by SW8015 Mod	<i>Extracted:</i>	Nov-20-07 14:13			Nov-20-07 14 13	Nov-20-07 14 13	
	<i>Analyzed:</i>	Nov-26-07 08:09			Nov-26-07 08.36	Nov-26-07 09:02	
	<i>Units/RL:</i>	mg/kg RL			mg/kg RL	mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons		ND 15.5			ND 16.8	ND 15.5	
C12-C28 Diesel Range Hydrocarbons		ND 15 5			ND 16 8	ND 15 5	
C28-C35 Oil Range Hydrocarbons		ND 15.5			ND 16.8	ND 15.5	
Total TPH		ND			ND	ND	
Total Chloride by EPA 325.3	<i>Extracted:</i>				Nov-20-07 00 00	Nov-20-07 00.00	Nov-20-07 00.00
	<i>Analyzed:</i>	Nov-20-07 00 00	Nov-20-07 00:00	Nov-20-07 00 00	Nov-20-07 00.00	Nov-20-07 00.00	Nov-20-07 00.00
	<i>Units/RL:</i>	mg/kg RL					
Chloride		44.0 5.18	42.5 5.00	31.9 5.00	47.7 5 62	32 9 5 15	42.5 5.00

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Project Name: Chevron Lovington Deep State

Project Id: 1007-023B

Contact: Cindy Crain

Project Location: Sec. 5, T17S, R36E, Lea Co., NM

Date Received in Lab: Sat Nov-17-07 11:27 am

Report Date: 30-NOV-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	293282-061	293282-062	293282-063	293282-064	293282-065	293282-066
	Field Id:	BH-11 (15-17')	BH-12 (0-2')	BH-12 (5-7')	BH-12 (10-12')	BH-12 (15-17')	BH-13 (0-2')
	Depth:	15-17 ft	0-2 ft	5-7 ft	10-12 ft	15-17 ft	0-2 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-15-07 12:46	Nov-15-07 12:56	Nov-15-07 13:00	Nov-15-07 13:10	Nov-15-07 13:14	Nov-15-07 13:18
Percent Moisture	Extracted:						
	Analyzed:		Nov-19-07 16:00	Nov-19-07 16:00			Nov-19-07 16:00
	Units/RL:		% RL	% RL			% RL
Percent Moisture			5.44 1.00	6.92 1.00			3.52 1.00
TPH by SW8015 Mod	Extracted:		Nov-20-07 14:13	Nov-20-07 14:13			Nov-20-07 14:13
	Analyzed:		Nov-26-07 09:30	Nov-26-07 09:58			Nov-26-07 10:29
	Units/RL:		mg/kg RL	mg/kg RL			mg/kg RL
C6-C12 Gasoline Range Hydrocarbons			ND 15.9	ND 16.1			ND 15.5
C12-C28 Diesel Range Hydrocarbons			48.9 15.9	32.7 16.1			38.5 15.5
C28-C35 Oil Range Hydrocarbons			ND 15.9	ND 16.1			ND 15.5
Total TPH			48.9	32.7			38.5
Total Chloride by EPA 325.3	Extracted:						
	Analyzed:	Nov-20-07 00:00					
	Units/RL:	mg/kg RL					
Chloride			31.9 5.00	33.7 5.29	45.7 5.37	63.8 5.00	42.5 5.00

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Project Name: Chevron Lovington Deep State

Project Id: 1007-023B

Contact: Cindy Crain

Project Location: Sec. 5, T17S, R36E, Lea Co., NM

Date Received in Lab: Sat Nov-17-07 11:27 am

Report Date: 30-NOV-07

Project Manager: Brent Barron, II

Analysis Requested	<i>Lab Id:</i>	293282-067	293282-068	293282-069			
	<i>Field Id:</i>	BH-13 (5-7')	BH-13 (10-12')	BH-13 (15-17')			
	<i>Depth:</i>	5-7 ft	10-12 ft	15-17 ft			
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Nov-15-07 13:22	Nov-15-07 13:28	Nov-15-07 13:35			
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-19-07 16:00					
	<i>Units/RL:</i>	% RL					
Percent Moisture		1.32 1.00					
TPH by SW8015 Mod	<i>Extracted:</i>	Nov-20-07 14:13					
	<i>Analyzed:</i>	Nov-26-07 10:59					
	<i>Units/RL:</i>	mg/kg RL					
C6-C12 Gasoline Range Hydrocarbons		ND 15.2					
C12-C28 Diesel Range Hydrocarbons		ND 15.2					
C28-C35 Oil Range Hydrocarbons		ND 15.2					
Total TPH		ND					
Total Chloride by EPA 325.3	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-20-07 00:00	Nov-20-07 00:00	Nov-20-07 00:00			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		86.2 5.07	42.5 5.00	53.2 5.00			

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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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Form 2 - Surrogate Recoveries

Project Name: Chevron Lovington Deep State

Work Order #: 293282

Project ID: 1007-023B

Lab Batch #: 709436

Sample: 293282-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0325	0.0300	108	80-120	
4-Bromofluorobenzene	0.0355	0.0300	118	80-120	

Lab Batch #: 709436

Sample: 293282-050 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0355	0.0300	118	80-120	
4-Bromofluorobenzene	0.0327	0.0300	109	80-120	

Lab Batch #: 709436

Sample: 501986-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0329	0.0300	110	80-120	
4-Bromofluorobenzene	0.0310	0.0300	103	80-120	

Lab Batch #: 709436

Sample: 501986-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0352	0.0300	117	80-120	
4-Bromofluorobenzene	0.0291	0.0300	97	80-120	

Lab Batch #: 709436

Sample: 501986-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0316	0.0300	105	80-120	

** 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 Deep State

Work Order #: 293282

Project ID: 1007-023B

Lab Batch #: 709491

Sample: 293282-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.3434	0.0300	1145	80-120	**
4-Bromofluorobenzene	0.0383	0.0300	128	80-120	**

Lab Batch #: 709491

Sample: 293282-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.2682	0.0300	894	80-120	**
4-Bromofluorobenzene	0.0399	0.0300	133	80-120	**

Lab Batch #: 709491

Sample: 293282-026 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0396	0.0300	132	80-120	**
4-Bromofluorobenzene	0.0664	0.0300	221	80-120	**

Lab Batch #: 709491

Sample: 293282-049 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0356	0.0300	119	80-120	
4-Bromofluorobenzene	0.0336	0.0300	112	80-120	

Lab Batch #: 709491

Sample: 502014-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0324	0.0300	108	80-120	
4-Bromofluorobenzene	0.0413	0.0300	138	80-120	*

** 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 Deep State

Work Order #: 293282

Project ID: 1007-023B

Lab Batch #: 709491

Sample: 502014-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0350	0.0300	117	80-120	
4-Bromofluorobenzene	0.0283	0.0300	94	80-120	

Lab Batch #: 709491

Sample: 502014-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0326	0.0300	109	80-120	
4-Bromofluorobenzene	0.0335	0.0300	112	80-120	

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: 293282-001 / 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	148	100	148	70-135	**
o-Terphenyl	123	50.0	246	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 Deep State

Work Order #: 293282

Project ID: 1007-023B

Lab Batch #: 709244

Sample: 293282-002 / 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	99.0	100	99	70-135	
o-Terphenyl	51.3	50.0	103	70-135	

Lab Batch #: 709244

Sample: 293282-003 / 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-Chlorooctane	125	100	125	70-135	
o-Terphenyl	64.8	50.0	130	70-135	

Lab Batch #: 709244

Sample: 293282-008 / 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	166	100	166	70-135	**
o-Terphenyl	105	50.0	210	70-135	**

Lab Batch #: 709244

Sample: 293282-009 / 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-Chlorooctane	101	100	101	70-135	
o-Terphenyl	51.5	50.0	103	70-135	

Lab Batch #: 709244

Sample: 293282-010 / 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	97.2	100	97	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.



Form 2 - Surrogate Recoveries

Project Name: Chevron Lovington Deep State

Work Order #: 293282

Project ID: 1007-023B

Lab Batch #: 709244

Sample: 293282-015 / 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-Chlorooctane	104	100	104	70-135	
o-Terphenyl	52.6	50.0	105	70-135	

Lab Batch #: 709244

Sample: 293282-016 / 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-Chlorooctane	103	100	103	70-135	
o-Terphenyl	52.2	50.0	104	70-135	

Lab Batch #: 709244

Sample: 293282-021 / 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-Chlorooctane	98.0	100	98	70-135	
o-Terphenyl	50.1	50.0	100	70-135	

Lab Batch #: 709244

Sample: 293282-022 / 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-Chlorooctane	96.6	100	97	70-135	
o-Terphenyl	47.6	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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	107	100	107	70-135	
o-Terphenyl	52.2	50.0	104	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 Deep State

Work Order #: 293282

Project ID: 1007-023B

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	

Lab Batch #: 709250

Sample: 293282-026 / 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	159	100	159	70-135	**
o-Terphenyl	114	50.0	228	70-135	**

Lab Batch #: 709250

Sample: 293282-027 / 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	101	100	101	70-135	
o-Terphenyl	53.9	50.0	108	70-135	

Lab Batch #: 709250

Sample: 293282-031 / 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	100	100	100	70-135	
o-Terphenyl	51.6	50.0	103	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 Deep State

Work Order #: 293282

Project ID: 1007-023B

Lab Batch #: 709250

Sample: 293282-031 S / MS

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-Chlorooctane	99.2	100	99	70-135	
o-Terphenyl	48.1	50.0	96	70-135	

Lab Batch #: 709250

Sample: 293282-031 SD / MSD

Batch: 1 Matrix: Sludge

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-Chlorooctane	102	100	102	70-135	
o-Terphenyl	49.6	50.0	99	70-135	

Lab Batch #: 709250

Sample: 293282-032 / 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-Chlorooctane	101	100	101	70-135	
o-Terphenyl	51.9	50.0	104	70-135	

Lab Batch #: 709250

Sample: 293282-036 / 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-Chlorooctane	102	100	102	70-135	
o-Terphenyl	52.7	50.0	105	70-135	

Lab Batch #: 709250

Sample: 293282-037 / 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-Chlorooctane	96.7	100	97	70-135	
o-Terphenyl	49.4	50.0	99	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 Deep State

Work Order #: 293282

Project ID: 1007-023B

Lab Batch #: 709250

Sample: 293282-043 / 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	49.7	50.0	99	70-135	

Lab Batch #: 709250

Sample: 293282-044 / 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	88.9	100	89	70-135	
o-Terphenyl	45.8	50.0	92	70-135	

Lab Batch #: 709250

Sample: 293282-049 / 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	94.8	100	95	70-135	
o-Terphenyl	57.4	50.0	115	70-135	

Lab Batch #: 709250

Sample: 293282-050 / 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	94.3	100	94	70-135	
o-Terphenyl	48.8	50.0	98	70-135	

Lab Batch #: 709250

Sample: 293282-051 / 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	95.6	100	96	70-135	
o-Terphenyl	48.5	50.0	97	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 Deep State

Work Order #: 293282

Project ID: 1007-023B

Lab Batch #: 709250

Sample: 293282-054 / 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	49.5	50.0	99	70-135	

Lab Batch #: 709250

Sample: 293282-055 / 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	89.8	100	90	70-135	
o-Terphenyl	45.7	50.0	91	70-135	

Lab Batch #: 709250

Sample: 293282-058 / 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	85.8	100	86	70-135	
o-Terphenyl	44.7	50.0	89	70-135	

Lab Batch #: 709250

Sample: 293282-059 / 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	89.5	100	90	70-135	
o-Terphenyl	45.5	50.0	91	70-135	

Lab Batch #: 709250

Sample: 293282-062 / 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	92.6	100	93	70-135	
o-Terphenyl	47.0	50.0	94	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 Deep State

Work Order #: 293282

Project ID: 1007-023B

Lab Batch #: 709250

Sample: 293282-063 / 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-Chlorooctane	88.6	100	89	70-135	
o-Terphenyl	45.7	50.0	91	70-135	

Lab Batch #: 709250

Sample: 293282-066 / 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-Chlorooctane	85.4	100	85	70-135	
o-Terphenyl	43.1	50.0	86	70-135	

Lab Batch #: 709250

Sample: 293282-067 / 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-Chlorooctane	82.5	100	83	70-135	
o-Terphenyl	40.6	50.0	81	70-135	

Lab Batch #: 709250

Sample: 501858-1-BKS / BKS

Batch: 1 Matrix: Solid

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-Chlorooctane	119	100	119	70-135	
o-Terphenyl	54.5	50.0	109	70-135	

Lab Batch #: 709250

Sample: 501858-1-BLK / BLK

Batch: 1 Matrix: Solid

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-Chlorooctane	103	100	103	70-135	
o-Terphenyl	53.2	50.0	106	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 Deep State

Work Order #: 293282

Project ID: 1007-023B

Lab Batch #: 709250

Sample: 501858-1-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	106	100	106	70-135	
o-Terphenyl	51.7	50.0	103	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 Deep State

Work Order #: 293282

Project ID:

1007-023B

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	

Lab Batch #: 708894

Sample: 708894-1-BKS

Matrix: Solid

Date Analyzed: 11/20/2007

Date Prepared: 11/20/2007

Analyst: LATCOR

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	95.7	96	75-125	

Lab Batch #: 708897

Sample: 708897-1-BKS

Matrix: Solid

Date Analyzed: 11/20/2007

Date Prepared: 11/20/2007

Analyst: LATCOR

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 #: 708898

Sample: 708898-1-BKS

Matrix: Solid

Date Analyzed: 11/20/2007

Date Prepared: 11/20/2007

Analyst: LATCOR

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*[C]/[B]

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



BS / BSD Recoveries

Project Name: Chevron Lovington Deep State

Work Order #: 293282

Analyst: SHE

Lab Batch ID: 709436

Sample: 501986-1-BKS

Date Prepared: 11/28/2007

Batch #: 1

Project ID: 1007-023B

Date Analyzed: 11/28/2007

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	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											
Benzene	ND	0.1000	0.1094	109	0.1	0.1088	109	1	70-130	35	
Toluene	ND	0.1000	0.1083	108	0.1	0.1090	109	1	70-130	35	
Ethylbenzene	ND	0.1000	0.1094	109	0.1	0.1125	113	3	71-129	35	
m,p-Xylenes	ND	0.2000	0.2144	107	0.2	0.2208	110	3	70-135	35	
o-Xylene	ND	0.1000	0.1084	108	0.1	0.1122	112	3	71-133	35	

Analyst: SHE

Date Prepared: 11/28/2007

Date Analyzed: 11/29/2007

Lab Batch ID: 709491

Sample: 502014-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	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											
Benzene	ND	0.1000	0.1039	104	0.1	0.1056	106	2	70-130	35	
Toluene	ND	0.1000	0.1056	106	0.1	0.1079	108	2	70-130	35	
Ethylbenzene	ND	0.1000	0.1165	117	0.1	0.1172	117	1	71-129	35	
m,p-Xylenes	ND	0.2000	0.2323	116	0.2	0.2312	116	0	70-135	35	
o-Xylene	ND	0.1000	0.1178	118	0.1	0.1166	117	1	71-133	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



BS / BSD Recoveries

Project Name: Chevron Lovington Deep State

Work Order #: 293282

Analyst: SHE

Date Prepared: 11/20/2007

Project ID: 1007-023B

Date Analyzed: 11/26/2007

Lab Batch ID: 709250

Sample: 501858-1-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	927	93	1000	950	95	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	876	88	1000	879	88	0	70-135	35	

Analyst: SHE

Date Prepared: 11/20/2007

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 Deep State

Work Order #: 293282

Project ID: 1007-023B

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: 709250

QC- Sample ID: 293282-031 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/26/2007

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	1130	1000	88	1130	1040	92	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	86.6	1130	949	76	1130	963	78	3	70-135	35	

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*(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



Form 3 - MS / MSD Recoveries

Project Name: Chevron Lovington Deep State

Work Order #: 293282

Project ID: 1007-023B

Lab Batch ID: 708894

QC- Sample ID: 293282-016 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/20/2007

Date Prepared: 11/20/2007

Analyst: LATCOR

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	6080	10600	16000	94	10600	15300	87	8	75-125	30	

Lab Batch ID: 708897

QC- Sample ID: 293282-037 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/20/2007

Date Prepared: 11/20/2007

Analyst: LATCOR

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	5060	10600	16200	105	10600	15600	99	6	75-125	30	

Lab Batch ID: 708898

QC- Sample ID: 293282-059 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/20/2007

Date Prepared: 11/20/2007

Analyst: LATCOR

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	32.9	1030	1040	98	1030	1060	100	2	75-125	30	

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

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

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 Deep State

Work Order #: 293282

Lab Batch #: 708848

Project ID: 1007-023B

Date Analyzed: 11/19/2007

Date Prepared: 11/19/2007

Analyst: RBA

QC- Sample ID: 293280-022 D

Batch #: 1

Matrix: Soil

Reporting Units: %

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	

Lab Batch #: 708850

Date Analyzed: 11/19/2007

Date Prepared: 11/19/2007

Analyst: RBA

QC- Sample ID: 293282-037 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	5.47	5.79	6	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
Variance/ Corrective Action Report- Sample Log-In

Client Ocotillo
 Date/ Time 11-17-07 @ 11:27
 Lab ID # 293282
 Initials JMF

Sample Receipt Checklist

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



C141 DOCUMENTATION

25 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

2-1
 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 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 Deep State	Facility Type Water transfer line
Surface Owner State	Mineral Owner State of NM
Lease No. B-4704	

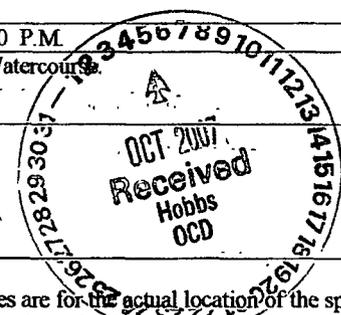
LOCATION OF RELEASE

Unit Letter M	Section 5	Township 17S	Range 36E	Feet from the 1305	South Line	Feet from the 115	East Line	County Lea
---------------	-----------	--------------	-----------	--------------------	------------	-------------------	-----------	------------

Latitude N 32 deg 51 min 47.53 sec Longitude W 103 deg 23 min 8.11 sec

NATURE OF RELEASE API #3002531451

Type of Release Produced water with some oil	Volume of Release 20 BW - 2BO	Volume Recovered 13 BW - 1 BO
Source of Release water transfer line	Date and Hour of Occurrence 10/2/07 ??	Date and Hour of Discovery 10/2/07 9:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Maxey Brown	
By Whom? Larry Ridenour	Date and Hour 10/2/2007 4:30 P.M.	
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.*
 The location and API # given are for West Lovington Unit #86 which is the nearest well. The GPS coordinates are for the actual location of the spill. The spill is located approximately 2/10 mile north of WLU 86. The leak was from a water transfer line that conducts fluid from the Lovington Deep State tank battery to the West Lovington Unit injection station.
 Chlorides 35,000

Describe Area Affected and Cleanup Action Taken.*
 Fluid soaked in ground. 60' x 60' area around spill and then 8' x 150' area and 8' x 50' area where fluid traveled down ruts in road. Standing fluid was picked up with a vacuum truck. Area fenced to keep cattle out. Turned site over to Ocotillo Environmental for remediation. They performed emergency one call and have removed top approximately one foot of soil. They will do a survey of the contamination and submit a plan to the OCD for approval.

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

Signature: <i>Larry Ridenour</i>	OIL CONSERVATION DIVISION <i>[Signature]</i>	
Printed Name: Larry Ridenour	Approved by District ENVIRONMENTAL ENGINEER	
Title: Operations Representative	Approval Date: 10.9.07	Expiration Date: 12.10.07
E-mail Address: LRidenour@chevron.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/4/07	Phone: 396-4414 X 102	SUBMIT PLAN OR FINAL BY

RP# 162