

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

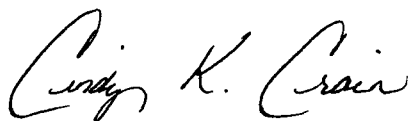
**Re: Spill Remediation Workplan, Lovington Deep State,
Unit Letter M (SW/4, SW/4), Section 5, Township 17 South, Range 36 East,
Lea County, New Mexico
1RP #1612**

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.

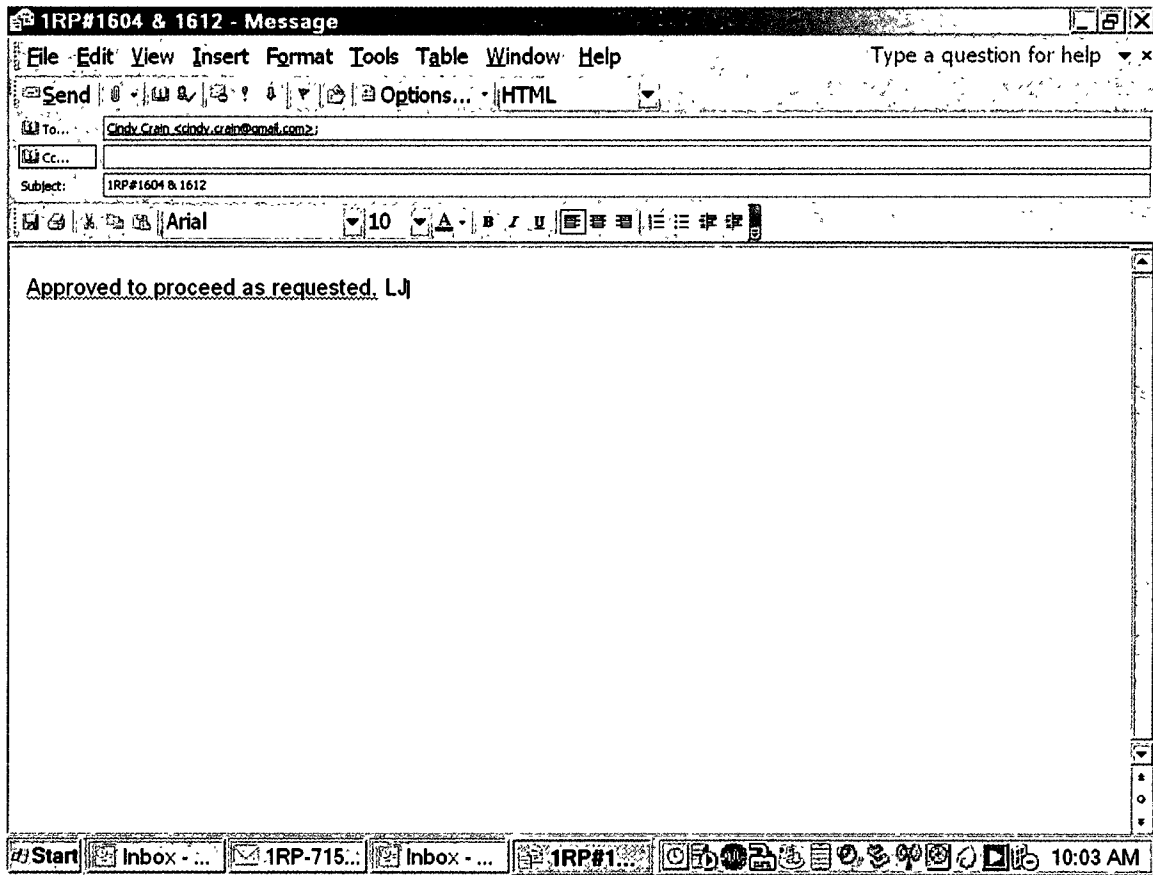
Sincerely,
Ocotillo Environmental



Cindy K. Crain, P.G.
Environmental Manager

cc: Larry Ridenour, Chevron



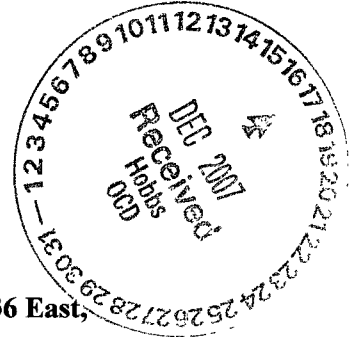


Ocotillo ENVIRONMENTAL

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.

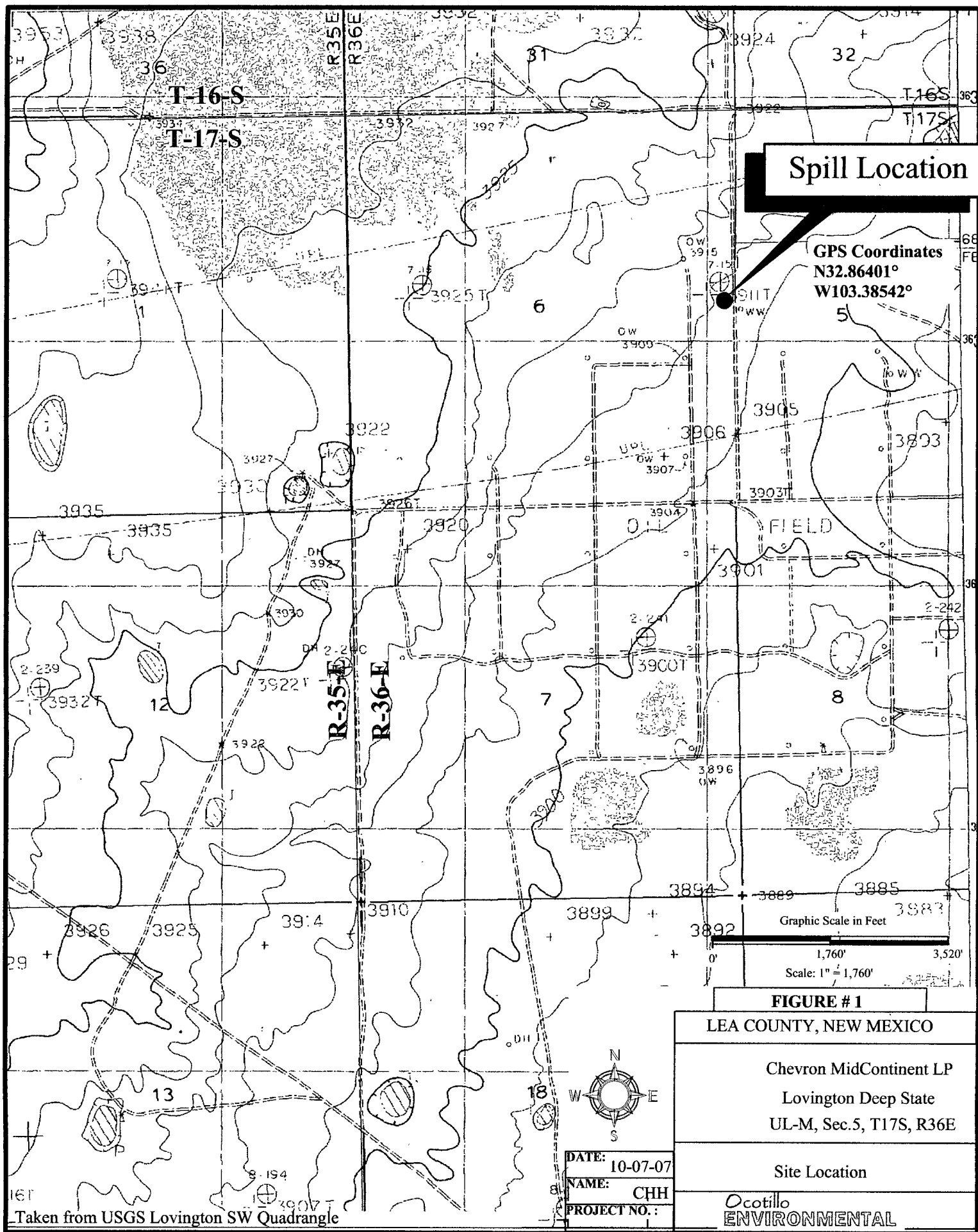
Sincerely,
Ocotillo Environmental, LLC



Cindy K. Crain, P.G.
Environmental Manager

cc: Larry Ridenour, Chevron

FIGURES



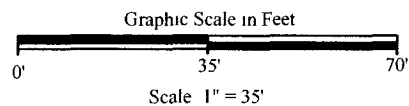
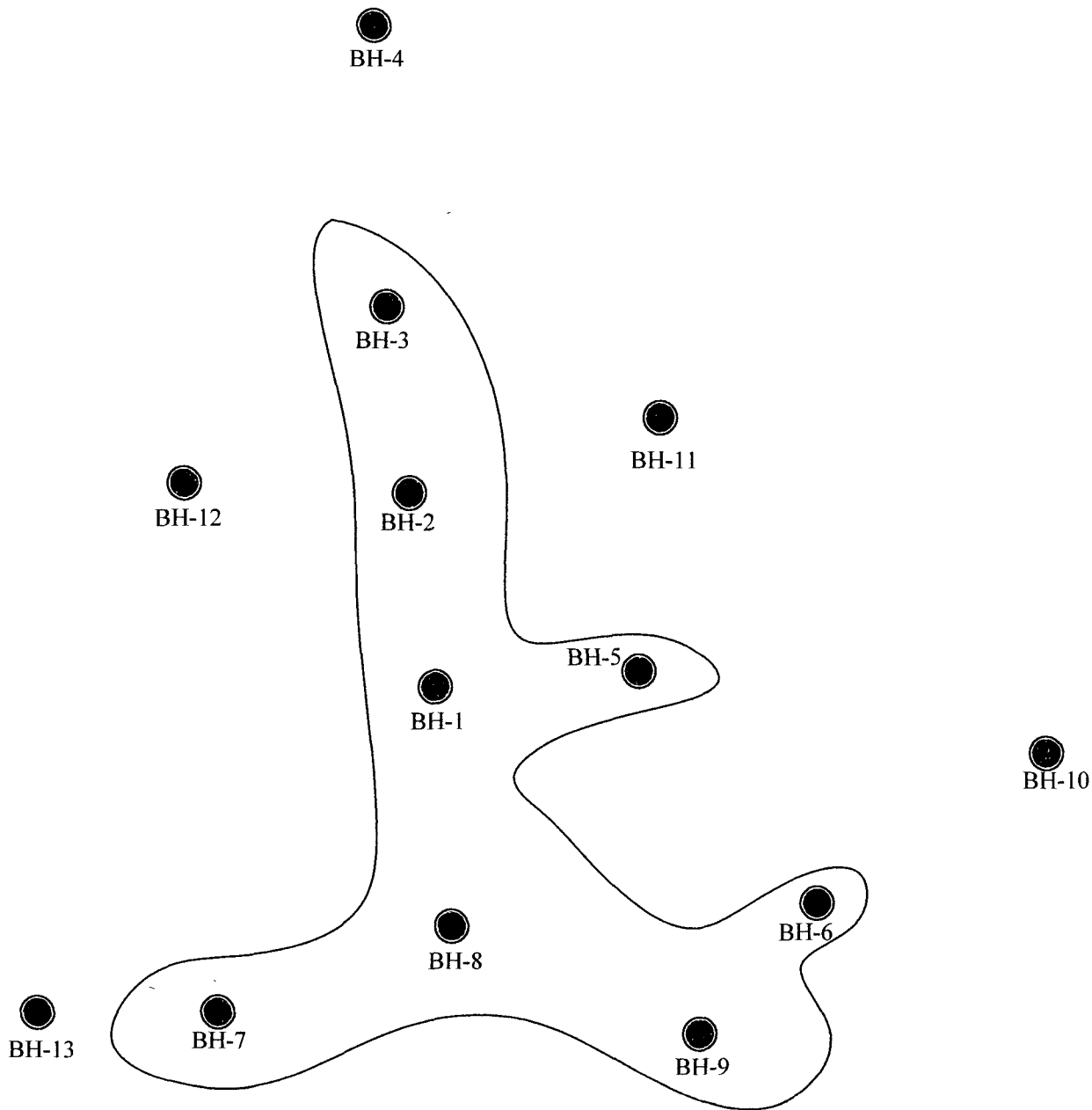
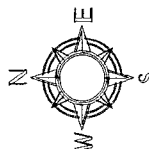


FIGURE # 2

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

Table 1:
Summary of Laboratory Analysis of Soil Samples
Chevron MidContinent Alaska, Lovington Deep State
Section 5, Township 17 South, Range 36 East
Lea County, New Mexico

[illegible]

[illegible]

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-8	0-2	<17.2	22.2	<17.2	22.2	---	---	3,770
		5-7	<15.3	<15.3	<15.3	<45.9	---	---	304
		10-12	---	---	---	---	---	---	85.1
		15-17	---	---	---	---	---	---	85.1
		20-22	---	---	---	---	---	---	63.8
		25-27	---	---	---	---	---	---	106
11/15/07	BH-9	0-2	162	893	185	1,240	<0.0012	<0.0082	30,000
		5-7	73.7	285	31.4	390.1	<0.0010	0.0291	2,010
		10-12	<15.5	<15.5	<15.5	<46.5	---	---	176.0
		15-17	---	---	---	---	---	---	74.4
		20-22	---	---	---	---	---	---	74.4
11/15/07	BH-10	0-2	<15.9	<15.9	<15.9	<47.7	---	---	45
		5-7	<15.5	<15.5	<15.5	<46.5	---	---	44
		10-12	---	---	---	---	---	---	42.5
		15-17	---	---	---	---	---	---	31.9
11/15/07	BH-11	0-2	<16.8	<16.8	<16.8	<50.4	---	---	48
		5-7	<15.5	<15.5	<15.5	<46.5	---	---	33
		10-12	---	---	---	---	---	---	42.5
		15-17	---	---	---	---	---	---	31.9
11/15/07	BH-12	0-2	<15.9	48.9	<15.9	48.9	---	---	34
		5-7	<16.1	32.7	<16.1	32.7	---	---	46
		10-12	---	---	---	---	---	---	63.8
		15-17	---	---	---	---	---	---	42.5

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

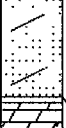

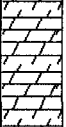



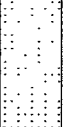
Project No.: 1007-023B

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					
0-2'		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
5-7'		Caliche Pinkish white quartz sand, non-indurated, dry.	2	SS	2	>2500	5-7' bgs Total TPH= .0096 mg/kg Chloride 10900 mg/kg
10-12'			3	SS	2	>2500	10-12' bgs Chloride 1290 mg/kg
15-17'			4	SS	2	1500	15-17' bgs Chloride 85.1 mg/kg
20-22'			5	SS	2	600	20-22' bgs Chloride 42.5 mg/kg
25-27'		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'		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

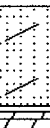
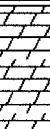
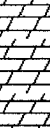
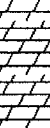
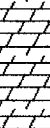
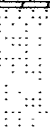
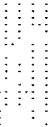
Project No.: 1007-023B

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					
0-2'		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
5-7'		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
10-12'			3	SS	2	>2500	10-12' bgs Total TPH = <46.8 mg/kg Chloride 1290 mg/kg
15-17'			4	SS	2	1500	15-17' bgs Chloride 85.1 mg/kg
20-22'			5	SS	2	600	20-22' bgs Chloride 42.5 mg/kg
25-27'		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
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

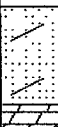
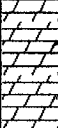
Project No.: 1007-023B

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		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		Caliche Pinkish white quartz sand, non indurated, damp.	2	SS	2	>2500	5-7' bgs Total TPH= <47.7 Chloride 6080 mg/kg
10			3	SS	2	400	10-12' bgs Chloride 191 mg/kg
15			4	SS	2	1200	15-17' bgs Chloride 117 mg/kg
20			5	SS	2	0	20-22' bgs Chloride 42.5 mg/kg
25			6	SS	2	0	25-27' bgs Chloride 160 mg/kg
30							
35		TD@32'					
40							

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


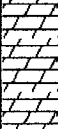
Project No.: 1007-023B

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		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		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			3	SS	2	0		10-12' bgs Chloride 53.2 mg/kg
15			4	SS	2	0		15-17' bgs Chloride 74.4 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: 11/14/07

Hole Size: 4"

Elevation: NA

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Drilled by: Scarborough Drilling

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Project: Lovington Deep State


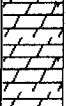
Project No.: 1007-023B

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		Silty Clayey Sand Dark brown, silty clayey quartz sand, fine grained, poorly sorted, dry.	1	SS	2		0-2' bgs Total TPH= 13870 mg/kg Chloride 15200mg/kg
5		Caliche Pinkish white quartz sand, non indurated, dry.	2	SS	2		5-7' bgs Total TPH= 510.3 mg/kg Chloride 1880 mg/kg
10			3	SS	2	0	10-12' bgs Chloride 42.5 mg/kg
15			4	SS	2	0	15-17' bgs Chloride 106 mg/kg
20			5	SS	2	0	20-22' bgs Chloride 74.4 mg/kg
25		TD@22'					
30							
35							
40							

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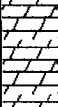
Project No.: 1007-023B

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		Silty Clayey Sand Dark brown, silty clayey quartz sand, fine grained, poorly sorted, dry.	1	SS	2		0-2' bgs Total TPH= 103.8 mg/kg Chloride 12,600 mg/kg
5		Caliche Pinkish white quartz sand, non indurated, dry.	2	SS	2		5-7' bgs Total TPH= <46.8 mg/kg Chloride 1,130 mg/kg
10			3	SS	2	0	10-12' bgs Chloride 42.5 mg/kg
15			4	SS	2	0	15-17' bgs Chloride 42.5 mg/kg
20			5	SS	2	0	20-22' bgs Chloride 234 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: 11/14/07

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		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		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			3	SS	2	2000	10-12' bgs Chloride 3400 mg/kg
15			4	SS	2	1800	15-17' bgs Chloride 213 mg/kg
20			5	SS	2	>2500	20-22' bgs Chloride 42.5 mg/kg
25		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			7	SS		300	30-32' bgs Chloride 42.5 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: 11/15/07

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		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		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			3	SS	2	0	10-12' bgs Chloride 85.1 mg/kg
15			4	SS	2	250	15-17' bgs Chloride 85.1 mg/kg
20			5	SS	2	100	20-22' bgs Chlorides 63.8 mg/kg
25		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
30		TD@27'					
35							
40							

Ocotillo Environmental, LLC

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

Drill Method: Air Rotary

Elevation: NA

Drill Date: 11/15/07

Checked by: CKC

Hole Size: 4"

Drilled by: Scarborough Drilling

Client: Chevron MidContinent L.P., SBU

Project: Lovington Deep State

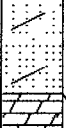

Project No.: 1007-023B

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					
0-2'		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
5-7'		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
10-12'			3	SS	2	0	10-12' bgs Chloride: 176 mg/kg
15-17'			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
TD@22'							
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-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		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		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			3	SS	2	0		10-12' bgs Chloride 42.5 mg/kg
15			4	SS	2	0		15-17' bgs Chloride 31.9 mg/kg
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: 11/15/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

Client: Chevron MidContinent L.P., SBU

Project: Lovington Deep State


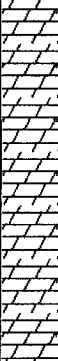
Project No.: 1007-023B

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		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' bgs Total TPH= <46.5 mg/kg Chloride 33 mg/kg 10-12' bgs Chloride 42.5 mg/kg 15-17' bgs Chloride 31.9 mg/kg
5		Caliche Pinkish white quartz sand, non indurated, dry.	2	SS	2	0	
10			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: 11/15/07

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	Analytical Data
						ppm 500 1500	
0		Ground Surface					
0		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' bgs Total TPH= 32.7 mg/kg Chloride 46 mg/kg 10-12' bgs Chloride 63.8 mg/kg 15-17' bgs Chloride 42.5 mg/kg
5		Caliche Pinkish white quartz sand, non indurated, dry.	2	SS	2	0	
10			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: 11/15/07

Hole Size: 4"

Elevation: NA

Checked by: CKC

Drilled by: Scarborough Drilling

Client: Chevron MidContinent L.P., SBU

Project: Lovington Deep State


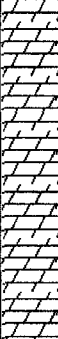
Project No.: 1007-023B

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	Analytical Data
						ppm 500 1500	
0		Ground Surface					
0		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		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			3	SS	2	0	10-12' bgs Chloride 42.5 mg/kg
15			4	SS	2	0	15-17' bgs Chloride 53.2 mg/kg
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: 11/15/07

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

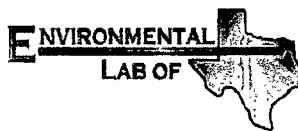
Ocotillo Environmental, LLC

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.

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

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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

Analysis Requested	Lab Id:	293282-001	293282-002	293282-003	293282-004	293282-005	293282-006
	Field Id:	BH-1 (0-2')	BH-1 (5-7')	BH-1 (10-12')	BH-1 (15-17')	BH-1 (20-22')	BH-1 (25-27')
	Depth:	0-2 ft	5-7 ft	10-12 ft	15-17 ft	20-22 ft	25-27 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	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	Extracted:	Nov-28-07 12:27					
	Analyzed:	Nov-29-07 13:36					
	Units/RL:	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	Extracted:						
	Analyzed:	Nov-19-07 15:00	Nov-19-07 15:00	Nov-19-07 15:00			
	Units/RL:	% RL	% RL	% RL			
Percent Moisture		16.0 1.00	7.24 1.00	8.21 1.00			
TPH by SW8015 Mod	Extracted:	Nov-20-07 14:20	Nov-20-07 14:20	Nov-20-07 14:20			
	Analyzed:	Nov-25-07 17:56	Nov-25-07 18:23	Nov-25-07 18:50			
	Units/RL:	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	Extracted:						
	Analyzed:	Nov-20-07 08:30	Nov-20-07 08:30	Nov-20-07 08:30	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		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

Analysis Requested	Lab Id:	293282-007	293282-008	293282-009	293282-010	293282-011	293282-012
	Field Id:	BH-1 (30-32')	BH-2 (0-2')	BH-2 (5-7')	BH-2 (10-12')	BH-2 (15-17')	BH-2 (20-22')
	Depth:	30-32 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 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	Extracted:		Nov-28-07 12:27	Nov-28-07 13:51			
	Analyzed:		Nov-29-07 16:06	Nov-28-07 19:51			
	Units/RL:		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	Extracted:						
	Analyzed:		Nov-19-07 15:00	Nov-19-07 15:00	Nov-19-07 15:00		
	Units/RL:		% RL	% RL	% RL		
Percent Moisture			14.0 1.00	10.1 1.00	4.01 1.00		
TPH by SW8015 Mod	Extracted:		Nov-20-07 14:20	Nov-20-07 14:20	Nov-20-07 14:20		
	Analyzed:		Nov-25-07 19:16	Nov-25-07 19:43	Nov-25-07 20:09		
	Units/RL:		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	Extracted:						
	Analyzed:	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
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	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

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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>						
	<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	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		53.2 5.00	42.5 5.00	17100 5.75	6080 5.29	191 5.00	117 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

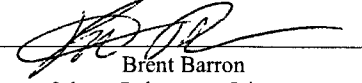
Report Date: 30-NOV-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	293282-019	293282-020	293282-021	293282-022	293282-023	293282-024
	Field Id:	BH-3 (20-22')	BH-3 (25-27')	BH-4 (0-2')	BH-4 (5-7')	BH-4 (10-12')	BH-4 (15-17')
	Depth:	20-22 ft	25-27 ft	0-2 ft	5-7 ft	10-12 ft	15-17 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	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	Extracted:						
	Analyzed:			Nov-19-07 15.00	Nov-19-07 15.00		
	Units/RL:			% RL	% RL		
Percent Moisture				6.34 1.00	1.20 1.00		
TPH by SW8015 Mod	Extracted:			Nov-20-07 14.20	Nov-20-07 14.20		
	Analyzed:			Nov-25-07 21.27	Nov-25-07 21.53		
	Units/RL:			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	Extracted:						
	Analyzed:	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
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	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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Project Name: Chevron Lovington Deep State

Project Id: 1007-023B

Contact: Cindy Crain

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

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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:					
		Analyzed:	Nov-19-07 15:00	Nov-19-07 15:00			
		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:					
		Analyzed:	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
		Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg 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

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Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	293282-031	293282-032	293282-033	293282-034	293282-035	293282-036
	Field Id:	BH-6 (0-2')	BH-6 (5-7')	BH-6 (10-12')	BH-6 (15-17')	BH-6 (20-22')	BH-7 (0-2')
	Depth:	0-2 ft	5-7 ft	10-12 ft	15-17 ft	20-22 ft	0-2 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	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	Extracted:						
	Analyzed:	Nov-19-07 15:00	Nov-19-07 15:00				Nov-19-07 15:00
	Units/RL:	% RL	% RL				% RL
Percent Moisture		11.5 1.00	4.00 1.00				11.9 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 03:28	Nov-26-07 03:54				Nov-26-07 04:20
	Units/RL:	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	Extracted:						
	Analyzed:	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
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	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

Analysis Requested	Lab Id:	293282-037	293282-038	293282-039	293282-040	293282-041	293282-042
	Field Id:	BH-7 (5-7')	BH-7 (10-12')	BH-7 (15-17')	BH-7 (20-22')	BH-7 (25-27')	BH-7 (30-32')
	Depth:	5-7 ft	10-12 ft	15-17 ft	20-22 ft	25-27 ft	30-32 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	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	Extracted:						
	Analyzed:	Nov-19-07 16:00					
	Units/RL:	% RL					
Percent Moisture		5.47 1.00					
TPH by SW8015 Mod	Extracted:	Nov-20-07 14:13					
	Analyzed:	Nov-26-07 04:45					
	Units/RL:	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	Extracted:						
	Analyzed:	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
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	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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Report Date: 30-NOV-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	293282-043	293282-044	293282-045	293282-046	293282-047	293282-048
	Field Id:	BH-8 (0-2')	BH-8 (5-7')	BH-8 (10-12')	BH-8 (15-17')	BH-8 (20-22')	BH-8 (25-27')
	Depth:	0-2 ft	5-7 ft	10-12 ft	15-17 ft	20-22 ft	25-27 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	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	Extracted:	Nov-19-07 16:00		Nov-19-07 16:00			
	Analyzed:	Nov-19-07 16:00		Nov-19-07 16:00			
	Units/RL:	%	RL	%	RL		
Percent Moisture		12.6	1.00	1.91	1.00		
TPH by SW8015 Mod	Extracted:	Nov-20-07 14:13		Nov-20-07 14:13			
	Analyzed:	Nov-26-07 05:11		Nov-26-07 05:36			
	Units/RL:	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	Extracted:	Nov-20-07 00:00		Nov-20-07 00:00		Nov-20-07 00:00	
	Analyzed:	Nov-20-07 00:00		Nov-20-07 00:00		Nov-20-07 00:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3770	5.72	304	5.10	85.1	5.00

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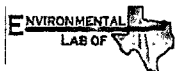
Project Manager: Brent Barron, II

<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>						
	<i>Analyzed:</i>	Nov-19-07 16:00	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>						
	<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	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	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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Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	293282-055	293282-056	293282-057	293282-058	293282-059	293282-060
	Field Id:	BH-10 (5-7')	BH-10 (10-12')	BH-10 (15-17')	BH-11 (0-2')	BH-11 (5-7')	BH-11 (10-12')
	Depth:	5-7 ft	10-12 ft	15-17 ft	0-2 ft	5-7 ft	10-12 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	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	Extracted:						
	Analyzed:	Nov-19-07 16:00			Nov-19-07 16:00	Nov-19-07 16:00	
	Units/RL:	% RL			% RL	% RL	
Percent Moisture		3.39 1.00			11.0 1.00	2.98 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 08:09			Nov-26-07 08:36	Nov-26-07 09:02	
	Units/RL:	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	Extracted:						
	Analyzed:	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
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	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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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	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
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg 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	33.1 5.18

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

Analysis Requested	Lab Id:	293282-067	293282-068	293282-069			
	Field Id:	BH-13 (5-7')	BH-13 (10-12')	BH-13 (15-17')			
	Depth:	5-7 ft	10-12 ft	15-17 ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Nov-15-07 13:22	Nov-15-07 13:28	Nov-15-07 13:35			
Percent Moisture	Extracted:						
	Analyzed:	Nov-19-07 16:00					
	Units/RL:	% RL					
Percent Moisture		1.32 1.00					
TPH by SW8015 Mod	Extracted:	Nov-20-07 14:13					
	Analyzed:	Nov-26-07 10:59					
	Units/RL:	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	Extracted:						
	Analyzed:	Nov-20-07 00:00	Nov-20-07 00:00	Nov-20-07 00:00			
	Units/RL:	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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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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2505 N. Falkenburg Rd., Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014

Phone	Fax
(281) 589-0692	(281) 589-0695
(214) 902 0300	(214) 351-9139
(210) 509-3334	(201) 509-3335
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(305) 823-8500	(305) 823-8555



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 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
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 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	

Lab Batch #: 709244

Sample: 293282-016 / 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	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 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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 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	

** 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 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
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	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
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	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
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	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
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 Deep State

Work Order #: 293282

Analyst: SHE

Date Prepared: 11/28/2007

Project ID: 1007-023B

Date Analyzed: 11/28/2007

Lab Batch ID: 709436

Sample: 501986-1-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	0.1094	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

Lab Batch ID: 709250

Sample: 501858-1-BKS

Date Prepared: 11/20/2007

Batch #: 1

Project ID: 1007-023B

Date Analyzed: 11/26/2007

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 $[D] = 100 \times (C-A)/B$
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



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 $[D] = 100 \times (C-A)/B$
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 Deep State

Work Order #: 293282

Lab Batch #: 708848

Date Analyzed: 11/19/2007

QC- Sample ID: 293280-022 D

Reporting Units: %

Project ID: 1007-023B

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	2.62	2.99	13	20	

Lab Batch #: 708850

Date Analyzed: 11/19/2007

QC- Sample ID: 293282-037 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	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.

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Name. Chevron Lovington Deep State

Project #: 1007-023B

Project Loc Sec 5, T17S, R36E, Lea Co NM

PO # 1

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail: cindy.crain@gmail.com

[illegible]

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765Phone: 432-563-1800
Fax: 432-563-1713

Page 2 of 7

Project Manager: Cindy CrainCompany Name: Ocotillo Environmental, LLCCompany Address: PO Box 1816City/State/Zip: Hobbs, NM 88241Telephone No: (505) 441-7244Sampler Signature: Cindy CrainFax No: (432) 272-0304e-mail: cindy.crain@gmail.comProject Name: Chevron Lovington Deep StateProject #: 1007-023BProject Loc.: Sec 5, T17S, R36E, Lea Co., NM

PO #:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #: 293282

LAB # (see pg. 1)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers										Matrix	Analyze For										RUSH TAT (min-schedule) 24, 48, 72 hrs	Standard TAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
								Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	H ₂ O ₂	None	Other (Specify)	Dew/Chilling Water	St. Sample		GW - Groundwater	St. Solid	St. Liquid	St. Other	TPH	418	6015B	TX 1006	TX 1008	TX 1009			TX 1010	TX 1011	TX 1012	TX 1013	TX 1014	TX 1015	TX 1016	TX 1017	TX 1018	TX 1019	TX 1020	TX 1021	TX 1022	TX 1023	TX 1024	TX 1025	TX 1026	TX 1027	TX 1028	TX 1029	TX 1030	TX 1031	TX 1032	TX 1033	TX 1034	TX 1035	TX 1036	TX 1037	TX 1038	TX 1039	TX 1040	TX 1041	TX 1042	TX 1043	TX 1044	TX 1045	TX 1046	TX 1047	TX 1048	TX 1049	TX 1050	TX 1051	TX 1052	TX 1053	TX 1054	TX 1055	TX 1056	TX 1057	TX 1058	TX 1059	TX 1060	TX 1061	TX 1062	TX 1063	TX 1064	TX 1065	TX 1066	TX 1067	TX 1068	TX 1069	TX 1070	TX 1071	TX 1072	TX 1073	TX 1074	TX 1075	TX 1076	TX 1077	TX 1078	TX 1079	TX 1080	TX 1081	TX 1082	TX 1083	TX 1084	TX 1085	TX 1086	TX 1087	TX 1088	TX 1089	TX 1090	TX 1091	TX 1092	TX 1093	TX 1094	TX 1095	TX 1096	TX 1097	TX 1098	TX 1099	TX 1100	TX 1101	TX 1102	TX 1103	TX 1104	TX 1105	TX 1106	TX 1107	TX 1108	TX 1109	TX 1110	TX 1111	TX 1112	TX 1113	TX 1114	TX 1115	TX 1116	TX 1117	TX 1118	TX 1119	TX 1120	TX 1121	TX 1122	TX 1123	TX 1124	TX 1125	TX 1126	TX 1127	TX 1128	TX 1129	TX 1130	TX 1131	TX 1132	TX 1133	TX 1134	TX 1135	TX 1136	TX 1137	TX 1138	TX 1139	TX 1140	TX 1141	TX 1142	TX 1143	TX 1144	TX 1145	TX 1146	TX 1147	TX 1148	TX 1149	TX 1150	TX 1151	TX 1152	TX 1153	TX 1154	TX 1155	TX 1156	TX 1157	TX 1158	TX 1159	TX 1160	TX 1161	TX 1162	TX 1163	TX 1164	TX 1165	TX 1166	TX 1167	TX 1168	TX 1169	TX 1170	TX 1171	TX 1172	TX 1173	TX 1174	TX 1175	TX 1176	TX 1177	TX 1178	TX 1179	TX 1180	TX 1181	TX 1182	TX 1183	TX 1184	TX 1185	TX 1186	TX 1187	TX 1188	TX 1189	TX 1190	TX 1191	TX 1192	TX 1193	TX 1194	TX 1195	TX 1196	TX 1197	TX 1198	TX 1199	TX 1200	TX 1201	TX 1202	TX 1203	TX 1204	TX 1205	TX 1206	TX 1207	TX 1208	TX 1209	TX 1210	TX 1211	TX 1212	TX 1213	TX 1214	TX 1215	TX 1216	TX 1217	TX 1218	TX 1219	TX 1220	TX 1221	TX 1222	TX 1223	TX 1224	TX 1225	TX 1226	TX 1227	TX 1228	TX 1229	TX 1230	TX 1231	TX 1232	TX 1233	TX 1234	TX 1235	TX 1236	TX 1237	TX 1238	TX 1239	TX 1240	TX 1241	TX 1242	TX 1243	TX 1244	TX 1245	TX 1246	TX 1247	TX 1248	TX 1249	TX 1250	TX 1251	TX 1252	TX 1253	TX 1254	TX 1255	TX 1256	TX 1257	TX 1258	TX 1259	TX 1260	TX 1261	TX 1262	TX 1263	TX 1264	TX 1265	TX 1266	TX 1267	TX 1268	TX 1269	TX 1270	TX 1271	TX 1272	TX 1273	TX 1274	TX 1275	TX 1276	TX 1277	TX 1278	TX 1279	TX 1280	TX 1281	TX 1282	TX 1283	TX 1284	TX 1285	TX 1286	TX 1287	TX 1288	TX 1289	TX 1290	TX 1291	TX 1292	TX 1293	TX 1294	TX 1295	TX 1296	TX 1297	TX 1298	TX 1299	TX 1300	TX 1301	TX 1302	TX 1303	TX 1304	TX 1305	TX 1306	TX 1307	TX 1308	TX 1309	TX 1310	TX 1311	TX 1312	TX 1313	TX 1314	TX 1315	TX 1316	TX 1317	TX 1318	TX 1319	TX 1320	TX 1321	TX 1322	TX 1323	TX 1324	TX 1325	TX 1326	TX 1327	TX 1328	TX 1329	TX 1330	TX 1331	TX 1332	TX 1333	TX 1334	TX 1335	TX 1336	TX 1337	TX 1338	TX 1339	TX 1340	TX 1341	TX 1342	TX 1343	TX 1344	TX 1345	TX 1346	TX 1347	TX 1348	TX 1349	TX 1350	TX 1351	TX 1352	TX 1353	TX 1354	TX 1355	TX 1356	TX 1357	TX 1358	TX 1359	TX 1360	TX 1361	TX 1362	TX 1363	TX 1364	TX 1365	TX 1366	TX 1367	TX 1368	TX 1369	TX 1370	TX 1371	TX 1372	TX 1373	TX 1374	TX 1375	TX 1376	TX 1377	TX 1378	TX 1379	TX 1380	TX 1381	TX 1382	TX 1383	TX 1384	TX 1385	TX 1386	TX 1387	TX 1388	TX 1389	TX 1390	TX 1391	TX 1392	TX 1393	TX 1394	TX 1395	TX 1396	TX 1397	TX 1398	TX 1399	TX 1400	TX 1401	TX 1402	TX 1403	TX 1404	TX 1405	TX 1406	TX 1407	TX 1408	TX 1409	TX 1410	TX 1411	TX 1412	TX 1413	TX 1414	TX 1415	TX 1416	TX 1417	TX 1418	TX 1419	TX 1420	TX 1421	TX 1422	TX 1423	TX 1424	TX 1425	TX 1426	TX 1427	TX 1428	TX 1429	TX 1430	TX 1431	TX 1432	TX 1433	TX 1434	TX 1435	TX 1436	TX 1437	TX 1438	TX 1439	TX 1440	TX 1441	TX 1442	TX 1443	TX 1444	TX 1445	TX 1446	TX 1447	TX 1448	TX 1449	TX 1450	TX 1451	TX 1452	TX 1453	TX 1454	TX 1455	TX 1456	TX 1457	TX 1458	TX 1459	TX 1460	TX 1461	TX 1462	TX 1463	TX 1464	TX 1465	TX 1466	TX 1467	TX 1468	TX 1469	TX 1470	TX 1471	TX 1472	TX 1473	TX 1474	TX 1475	TX 1476	TX 1477	TX 1478	TX 1479	TX 1480	TX 1481	TX 1482	TX 1483	TX 1484	TX 1485	TX 1486	TX 1487	TX 1488	TX 1489	TX 1490	TX 1491	TX 1492	TX 1493	TX 1494	TX 1495	TX 1496	TX 1497	TX 1498	TX 1499	TX 1500	TX 1501	TX 1502	TX 1503	TX 1504	TX 1505	TX 1506	TX 1507	TX 1508	TX 1509	TX 1510	TX 1511	TX 1512	TX 1513	TX 1514	TX 1515	TX 1516	TX 1517	TX 1518	TX 1519	TX 1520	TX 1521	TX 1522	TX 1523	TX 1524	TX 1525	TX 1526	TX 1527	TX 1528	TX 1529	TX 1530	TX 1531	TX 1532	TX 1533	TX 1534	TX 1535	TX 1536	TX 1537	TX 1538	TX 1539	TX 1540	TX 1541	TX 1542	TX 1543	TX 1544	TX 1545	TX 1546	TX 1547	TX 1548	TX 1549	TX 1550	TX 1551	TX 1552	TX 1553	TX 1554	TX 1555	TX 1556	TX 1557	TX 1558	TX 1559	TX 1560	TX 1561	TX 1562	TX 1563	TX 1564	TX 1565	TX 1566	TX 1567	TX 1568	TX 1569	TX 1570	TX 1571	TX 1572	TX 1573	TX 1574	TX 1575	TX 1576	TX 1577	TX 1578	TX 1579	TX 1580	TX 1581	TX 1582	TX 1583	TX 1584	TX 1585	TX 1586	TX 1587	TX 1588	TX 1589	TX 1590	TX 1591	TX 1592	TX 1593	TX 1594	TX 1595	TX 1596	TX 1597	TX 1598	TX 1599	TX 1600	TX 1601	TX 1602	TX 1603	TX 1604	TX 1605	TX 1606	TX 1607	TX 1608	TX 1609	TX 1610	TX 1611	TX 1612	TX 1613	TX 1614	TX 1615	TX 1616	TX 1617	TX 1618	TX 1619	TX 1620	TX 1621	TX 1622	TX 1623	TX 1624	TX 1625	TX 1626	TX 1627	TX 1628	TX 1629	TX 1630	TX 1631	TX 1632	TX 1633	TX 1634	TX 1635	TX 1636	TX 1637	TX 1638	TX 1639	TX 1640	TX 1641	TX 1642	TX 1643	TX 1644	TX 1645	TX 1646	TX 1647	TX 1648	TX 1649	TX 1650	TX 1651	TX 1652	TX 1653	TX 1654	TX 1655	TX 1656	TX 1657	TX 1658	TX 1659	TX 1660	TX 1661	TX 1662	TX 1663	TX 1664	TX 1665	TX 1666	TX 1667	TX 1668	TX 1669	TX 1670	TX 1671	TX 1672	TX 1673	TX 1674	TX 1675	TX 1676	TX 1677	TX 1678	TX 1679	TX 1680	TX 1681	TX 1682	TX 1683	TX 1684	TX 1685	TX 1686	TX 1687	TX 1688	TX 1689	TX 1690	TX 1691	TX 1692	TX 1693	TX 1694	TX 1695	TX 1696	TX 1697	TX 1698	TX 1699	TX 1700	TX 1701	TX 1702	TX 1703	TX 1704	TX 1705	TX 1706	TX 1707	TX 1708	TX 1709	TX 1710	TX 1711	TX 1712	TX 1713	TX 1714	TX 1715	TX 1716	TX 1717	TX 1718	TX 1719	TX 1720	TX 1721	TX 1722	TX 1723	TX 1724	TX 1725	TX 1726	TX 1727	TX 1728	TX 1729	TX 1730	TX 1731	TX 1732	TX 1733	TX 1734	TX 1735	TX 1736	TX 1737	TX 1738	TX 1739	TX 1740	TX 1741	TX 1742	TX 1743	TX 1744	TX 1745	TX 1746	TX 1747	TX 1748	TX 1749	TX 1750	TX 1751	TX 1752	TX 1753	TX 1754	TX 1755	TX 1756	TX 1757	TX 1758	TX 1759	TX 1760	TX 1761	TX 1762	TX 1763	TX 1764	TX 1765	TX 1766	TX 1767	TX 1768	TX 1769	TX 1770	TX 1771	TX 1772	TX 1773	TX 1774	TX 1775	TX 1776	TX 1777	TX 1778	TX 1779	TX 1780	TX 1781	TX 1782	TX 1783	TX 1784	TX 1785	TX 1786	TX 1787	TX 1788	TX 1789	TX 1790	TX 1791	TX 1792	TX 1793	TX 1794	TX 1795	TX 1796	TX 1797	TX 1798	TX 1799	TX 1800	TX 1801	TX 1802	TX 1803	TX 1804	TX 1805	TX 1806	TX 1807	TX 1808	TX 1809	TX 1810	TX 1811	TX 1812	TX 1813	TX 1814	TX 1815	TX 1816	TX 1817	TX 1818	TX 1819	TX 1820	TX 1821	TX 1822	TX 1823	TX 1824	TX 1825	TX 1826	TX 1827	TX 1828	TX 1829	TX 1830	TX 1831	TX 1832	TX 1833	TX 1834	TX 1835	TX 1836	TX 1837	TX 1838	TX 1839	TX 1840	TX 1841	TX 1842	TX 1843	TX 1844	TX 1845	TX 1846	TX 1847	TX 1848	TX 1849	TX 1850	TX 1851	TX 1852	TX 1853	TX 1854	TX 1855	TX 1856	TX 1857	TX 1858	TX 1859	TX 1860	TX 1861	TX 1862	TX 1863	TX 1864	TX 1865	TX 1866	TX 1867	TX 1868	TX 1869	TX 1870	TX 1871	TX 1872	TX 1873	TX 1874	TX 1875	TX 1876	TX 1877	TX 1878	TX 1879	TX 1880	TX 1881	TX 1882	TX 1883	TX 1884	TX 1885	TX 1886	TX 1887	TX 1888	TX 1889	TX 1890	TX 1891	TX 1892	TX 1893	TX 1894	TX 1895	TX 1896	TX 1897	TX 1898	TX 1899	TX 1900	TX 1901	TX 1902	TX 1903	TX 1904	TX 1905	TX 1906	TX 1907	TX 1908	TX 1909	TX 1910	TX 1911	TX 1912	TX 1913	TX 1914	TX 1915

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Name Chevron Lovington Deep State

Project #. 1007-023B

Project Loc: Sec 5, T17S, R38E Lea Co., NM

PO #. _____

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail cindy.crain@gmail.com

(lab use only)					
ORDER #:		293282			
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled
021	BH-4 (0-2')	0	2	"/14/07	1310
022	" (5-7')	5	7	" "	1321
023	" (10-12')	10	12	" "	1323
024	" (15-17')	15	17	" "	1325
025	" (20-22')	20	22	" "	1331
026	BH-5 (0-2')	0	2	" "	1342
027	" (5-7')	5	7	" "	1349
028	" (10-12')	10	12	" "	1401
029	" (15-17')	15	17	" "	1407
030	" (20-22')	20	22	" "	1411
Special Instructions					
Reinquished by <i>[Signature]</i> Date /11/107	Time 1127	Received by	Date	Time	
Reinquished by	Date	Time	Received by	Date	Time
Reinquished by	Date	Time	Received by ELOT	Date	Time
Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace? Labels on container(s) identical? Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sample Chem Rep ? by Courier? UPS DHL FedEx Lone Star					
Temperature Upon Receipt: 40 °C					

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765Phone: 432-563-1800
Fax: 432-563-1713

Page 4 of 7

Project Manager Cindy CrainCompany Name Ocotillo Environmental, LLCCompany Address PO Box 1816City/State/Zip: Hobbs NM 88241Telephone No (505) 441-7244Fax No (432) 272-0304Sampler Signature Cindy Craine-mail cindy.crain@gmail.comProject Name: Chevron Lovington Deep StateProject #: 1007-023BProject Loc: Sec 5, T17S R36E, Lea Co., NM

PO #: _____

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #: 293282

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filled	Total # of Containers	Preservation & # of Containers										Matrix										Analyze For	TCLP	TOTAL	RUSH TAT (pre-standard) 24, 48, 72 hrs	Standard TAT	
									Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	H ₂ SO ₄	None	Other (Specify)	Distilled Water: 5L, 10L, 20L	Groundwater: 5L, 10L, 20L	Other: 5L, 10L, 20L	TPH	418.1	80158	TPH	TX 1005	TX 1006	Calens (Ca, Mg, Na, K)	Anions (SO ₄ , NO ₃ , Cl)	SAR / ESP / CEC						Metals: As, Ag, Ba, Cr, Pb, Hg, Se
031	BH-6	(0-2')	0	2	11/14/07	1428																												
032	"	(5-7')	5	7	"	1431																												
033	"	(10-12')	10	12	"	1440																												
034	"	(15-17')	15	17	"	1444																												
035	"	(20-22')	20	22	"	1450																												
036	BH-7	(0-2')	0	2	11/15/07	0925																												
037	"	(5-7')	5	7	"	0931																												
038	"	(10-12')	10	12	"	0937																												
039	"	(15-17')	15	17	"	0947																												
040	"	(20-22')	20	22	"	0953																												

Special Instructions:

Relinquished by <u>Cindy Crain</u>	Date <u>11/16/07</u>	Time <u>11:27</u>	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? ☒ Y ☐ N

VOCs Free of Headspace? ☒ Y ☐ N

Labels on container(s) ☒ Y ☐ N

Custody seals on container(s) ☒ Y ☐ N

Custody seals on cooler(s) ☒ Y ☐ N

Sample Hand Delivered ☒ Y ☐ N

by Sampler/Client Rep? ☒ Y ☐ N

by Courier? ☐ UPS ☐ DHL ☐ FedEx ☐ Lone Star

Temperature Upon Receipt 40 °C

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Name: Chevron Lovington Deep State

Project #: 1007-023B

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

PO # _____

Fax No: (432) 272-0304

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail. cindy crain@gmail com

LAB # (lab use only)		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers	Matrix	TCLP		Analyte For:	
												TOTAL			
041	BH-7 (25-27')	25	27	11/15/07	1002										
042	" (30-32')	30	32	"	1010										
043	BH-8 (0-2')	0	2	"	1020										
044	" (5-7')	5	7	"	1029										
045	" (10-12')	10	12	"	1032										
046	" (15-17')	15	17	"	1036										
047	" (20-22')	20	22	"	1040										
048	" (25-27')	25	27	"	1047										
049	BH-9 (0-2')	0	2	"	1100										
050	" (5-7')	5	7	"	1106										
Special Instructions:															
Relinquished by	Date	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 on lid Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Client Rep? by Courier? UPS DHL FedEx Lone Star Temperature Upon Receipt									

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Name Chevron Lovington Deep State

Project #. 1007-0238

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

PO #:

Fax No (432) 272-0304

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail. cindy.crain@gmail.com

ORDER #: 293202

Laboratory Comments.				
Sample Containers Intact?	<input checked="" type="checkbox"/>	N		
VOCs Free of Headspace?	<input checked="" type="checkbox"/>	N		
Labels on container(s) <i>see encl</i>	Y	N		
Custody seals on container(s)	Y	<input checked="" type="checkbox"/>		
Custody seals on cooler(s)	Y	N		
Sample Hand Delivered	<input checked="" type="checkbox"/>	N		
by <u>Sample</u> Client Req ?				
by Courier?	UPS	DHL	FedEx	Lone Star
Temperature Upon Receipt	4.0°C			

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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 7 of 7

Project Manager Cindy Crain
Company Name Ocotillo Environmental, LLC
Company Address PO Box 1818
City/State/Zip Hobbs NM 88241
Telephone No (505) 441-7244
Sampler Signature Cindy Crain

Project Name: Chevron Lovington Deep State
Project #: 1007-023B
Project Loc: Sec 5, T17S, R36E, Lea Co., NM
PO #:
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Fax No: (432) 272-0304
e-mail: cindy.crain@gmail.com

(lab use only)

ORDER #: 293282

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filed	Total # of Containers	Preservation & # of Containers										Matrix										Analyze For:	TCLP TOTAL	RUSH TAT (Pre-Schedule 24, 48, 72 hrs)	Standard TAT						
								Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	H ₂ O ₂	None	Other (Specify)	Dist-Distilling Water	SL-Booze	GM - Groundwater	5-Sol-Good	NP-Hex-Positive	Sample Other	TPH	418 T	8015B	TPH	TX 1005	IX 1006	Calcium (Ca, Mg, Na, K)	Ammonia (NH ₄ , OH, Alkalinity)	SAR / ESP / LEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTX: B, T, X 80218/5030 or BTEX 8202	RC	NORM	
061	BH-11 (15-17')	15	17	11/16/07	1246		403455																														
062	BH-12 (0-2')	0	2	"	1256																																
063	" (5-7')	5	7	"	1300																																
064	" (10-12')	10	12	"	1310																																
065	" (15-17')	15	17	"	1314																																
066	BH-13 (0-2')	0	2	"	1318																																
067	" (5-7')	5	7	"	1322																																
068	" (10-12')	10	12	"	1328																																
069	" (15-17')	15	17	"	1335																																

Special Instructions:

Relinquished by <u>Cindy Crain</u>	Date <u>11/17/07</u>	Time <u>1127</u>	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? Y
VOCs Free of Headspace? Y
Labels on container(s) Y
Custody seals on container(s) Y
Custody seals on cooler(s) Y
Sample Hand Delivered by Sample Client Rep? Y
by Courier? Y UPS Y DHL Y FedEx Y Lone Star Y
Temperature Upon Receipt 4.0°C

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client Ocotillo
Date/ Time 11-17-07 @ 1127
Lab ID # 293282
Initials JMF

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	<u>Yes</u>	No	4.0 °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 ELDT?	<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	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

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: 	OIL CONSERVATION DIVISION	
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# 1662