CLOSURE REPORT

WEST LOVINGTON UNIT #55

NMOCD REF: 1RP #1226

EPI REF: 200066

API# 30025039160000

UL-F (SW¼ OF THE NE¼) OF SECTION 8 T17S R36E

~6 MILES SOUTH OF LOVINGTON

LEA COUNTY, NEW MEXICO

LATITUDE: N 32° 51' 04.38" **LONGITUDE: W 103° 22' 44.66"**

MARCH 2007

PREPARED BY:

ENVIRONMENTAL PLUS, INC.
2100 AVENUE O
EUNICE, NEW MEXICO 88231

PREPARED FOR:

Chevron

incident - nPAC0711047384
application - pPAC0711047503

LETTER OF TRANSMITTAL

ENVIRONMENTAL PLUS, INC.

Date:	April 19, 2007
To:	**Mr. Larry Johnson**
Company Name:	New Mexico Oil Conservation Division
Address:	1625 French Drive
City / State / Zip:	Hobbs, New Mexico 88240
From:	David P. Duncan
CC:	Larry Williams, Chevron USA - Eunice, NM
	Darr Angell, Property Owner, Lovington, NM
Project #:	NMOCD Ref. 1RP#1226; EPI Ref. #200066
Project Name:	West Lovington Unit #55
Subject:	**Closure Report**

# of originals	# of copies	Description
1		Chevron USA – West Lovington Unit #55– Closure Report

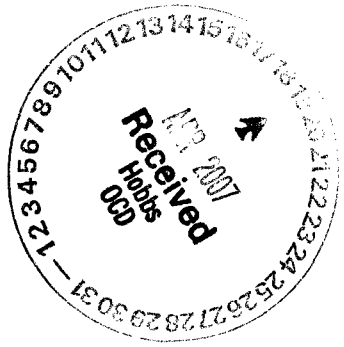
Remarks

Dear Mr. Johnson:

Enclosed is a hard bound copy of the *Closure Report* for the above referenced site. Upon approval of the document by the NMOCD, EPI will remit hard bound copies of the *Closure Report* to individuals noted on the Distribution List. Should you have any technical questions, concerns or need additional information, please contact me at (505) 394-3481 or via email at dduncan@envplus.net. Official correspondence should be directed to Mr. Larry Williams, Chevron USA, at (505) 396-4414 ext. #128 (office), (505) 390-7165 (cellular) or via e-mail at lcwl@chevron.com.

Sincerely,

David P. Duncan
Civil Engineer



P. O. Box 1558
Eunice, NM 88240
(505) 394-3481
Fax: (505) 394-2601

Distribution List

Chevron USA – West Lovington Unit #55

NMOCD Ref: 1RP #1226; EPI Ref: 200066

Name	Title	Company or Agency	Mailing Address	e-mail
Larry Johnson	Environmental Engineer	NMOCD – Hobbs	1625 French Drive Hobbs, NM 88240	larry.johnson@state.nm.us
Larry Williams	HES Champion	Chevron	P.O. Box 1949 Eunice, NM 88231	lcwl@chevron.com
Darr Angell	Property Owner	- -	P.O. Box 190 Lovington, NM 88260	(505) 370-9048
File	- -	Environmental Plus, Inc.	P.O. Box 1558 Eunice, NM 88231	dduncan@envplus.net

STANDARD OF CARE

Site Closure Report

West Lovington Unit #55

NMOCD Ref: 1RP #1226, (EPI Ref. #200066)

The information provided in this report was collected consistent with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills and Releases* (August 13, 1993), the NMOCD *Unlined Surface Impoundment Closure Guidelines* (February, 1993) and Environmental Plus, Inc. (EPI) *Standard Operating Procedures and Quality Assurance/Quality Control Plan*. The conclusions are based on field observations and laboratory analytical reports as presented in the report. Recommendations follow NMOCD guidance and represent the professional opinions of EPI staff. These opinions were derived using currently accepted geologic, hydro-geologic and engineering practices at this time and location. The report was prepared or reviewed by a certified or registered professional with a background in engineering, environmental and/or natural sciences.

Prepared by:

Brandon Farrar
Environmental Consultant

Date 4/19/07

Reviewed by:

David P. Duncan
Civil Engineer

Date 4/19/07

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TABLES

APPENDICES

1.0 PROJECT SYNOPSIS

Site Specific:

- ***Company Name:*** Chevron USA, Inc.
- ***Facility Name:*** West Lovington Unit #55
- ***Project Reference:*** NMOCD Ref: 1RP#1226; EPI Ref: #200066
- ***Company Contacts:*** Larry Williams
- ***Site Location:*** WGS84 N32° 51' 04.38"; W103° 22' 44.66"
- ***Legal Description:*** Unit Letter-F (SW¼ of the NE¼), Section 8, T17S, R36E
- ***General Description:*** Approximately 6-miles southeast of Lovington, New Mexico
- ***Elevation:*** 3,895-ft amsl
- ***Land Ownership:*** Darr Angell
- ***EPI Personnel:*** Project Consultant –Jason Stegemoller

Release Specific:

- ***Product Released:*** Produced water
- ***Volume Released:*** Unknown ***Volume Recovered:*** None
- ***Time of Occurrence:*** Unknown ***Time of Discovery:*** Unknown
- ***Release Source:*** Flow-line failed
- ***Initial Surface Area Affected:*** ~ 3,130 square feet

Remediation Specific:

- ***Final Vertical extent of contamination:*** Chlorides impact to 2-3 ft bgs
- ***Depth to Ground Water:*** Approximately 50-ft bgs
- ***Water wells within 1,000-ft:*** None
- ***Private domestic water sources within 200-ft:*** None
- ***Surface water bodies within 1,000-ft:*** None
- ***NMOCD Site Ranking Index:*** 10 points
- ***Remedial goals for Soil:*** TPH – 1,000 mg/Kg; BTEX – 50 mg/Kg; Benzene – 10 mg/Kg; Chloride residuals may not be capable of impacting groundwater above NMWQCC Groundwater Standards of 250 mg/L.
- ***RCRA Waste Classification:*** Exempt
- ***Remediation Option Selected:*** a) Most soil impacted above NMOCD remedial goals was excavated and disposed off site; b) laboratory analyses confirmed removal of most soil impacted above NMOCD remedial thresholds; c) backfilled excavation with clean soil.
- ***Disposal Facility:*** Unknown (excavation completed by another contractor)
- ***Volume disposed:*** Unknown (excavation completed by another contractor)
- ***Project Completion Date:*** February 28, 2007

2.0 SITE AND RELEASE INFORMATION

2.1 Describe the land use and pertinent geographic features within 1,000 feet of the site.
Land surrounding the area is rangeland and utilized for livestock grazing as well as oilfield operations.

2.2 Identify and describe the source or suspected source(s) of the release.
Flow-line failed.

2.3 What is the volume of the release? (if known): Unknown ***barrels of:*** Produced water

2.4 What is the volume recovered? (if any): 0 ***barrels***

2.5 When did the release occur? (if known): Unknown

2.6 Geological Description
The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-water Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961, describes the near surface geology of southern Lea County as "an inter-grade of the Quaternary Alluvium (QA) sediments, i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick interbed of caliche that was encountered between 5' and 10' bgs."

2.7 Ecological Description
The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of sandy soil covered with short semi-arid grasses, interspersed with Honey Mesquite and forbs. Mammals represented include Orrd's and Merriam's Kangaroo Rats, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, Mule Deer, Bobcat, Red Fox and Coyote. Reptiles, amphibians and birds are numerous and typical of the area. A survey of Listed, Threatened or Endangered species was not conducted.

2.8 Area Groundwater
The unconfined groundwater aquifer at this site is projected to be ~50 feet (ft) bgs based on average water depth data obtained from the New Mexico State Engineers Office and the United States Geological Survey data base (reference *Table 1*).

2.9 Area Water Wells
No water well located within a 1,000-foot radius of the site (*Figure 2*).

2.10 Area Surface Water Features
No surface water features exist within a 1,000-foot radius of the site (reference *Figure 2*).

3.0 NMOCD SITE RANKING

Contaminant delineation and remedial work done at this site indicate chemical parameters of the soil and physical parameters of the groundwater were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the following New Mexico Oil Conservation Division (NMOCD) publications:

- ***Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)***
- ***Unlined Surface Impoundment Closure Guidelines (February, 1993)***
- ***Pit and Below-Grade Tank Guidelines (November, 2004)***

Acceptable thresholds for contaminants/constituents of concern (CoC) were determined based on the NMOCD Ranking Criteria as follows:

- *Depth to Groundwater (i.e., distance from the lower most acceptable concentration to ground-water);*
- *Wellhead Protection Area (i.e., distance from fresh water supply wells);*
- *Distance to Surface Water Body (i.e., horizontal distance to all down gradient surface water bodies).*

Based on the proximity of the site to protectable area water wells, surface water bodies, and depth to groundwater from the lower most contamination, the NMOCD ranking score for the site is ten (10) points with the soil remedial goals highlighted in the Site Ranking table presented below:

1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water
Depth to GW <50 feet: *20 points*	**If <1,000' from water source, or; <200' from private domestic water source: *20 points***	**<200 horizontal feet: *20 points***
Depth to GW 50 to 99 feet: *10 points*		**200-1,000 horizontal feet: *10 points***
Depth to GW >100 feet: 0 points	**If >1,000' from water source, or; >200' from private domestic water source: *0 points***	**>1,000 horizontal feet: *0 points***
Site Rank (1+2+3) = 10 + 0 + 0 = 10 points		

Total Site Ranking Score and Acceptable Remedial Goal Concentrations			
Ranking Score	20 or >	**10**	0
Benzene[1]	10 ppm	**10 ppm**	10 ppm
BTEX[1]	50 ppm	**50 ppm**	50 ppm
TPH	100 ppm	**1,000 ppm**	5,000 ppm

[1] A field soil vapor headspace measurement of 100 ppm can be substituted in lieu of laboratory analyses for benzene and BTEX.

4.0 EXCAVATED SOIL INFORMATION

4.1 ***Was soil excavated for off-site treatment or disposal?*** ☒ ***Yes*** ☐ ***No***

Date excavated: Unknown (excavation completed by another contractor)

Total volume removed: Unknown (excavation completed by another contractor)

4.2 ***Indicated soil treatment type:***

- ☒ ***Disposal***
- ☐ ***Land Treatement***
- ☐ ***Composting/Biopiling***
- ☐ ***Other*** ( )

Name and location of treatment/disposal facility:

Unknown (excavation completed by another contractor)

5.0 SAMPLING INFORMATION

5.1 Briefly describe the field screening methods used to distinguish contaminated from uncontaminated soil.

Organic Vapor Concentrations – A portion of each soil sample was inserted into a self-sealing polyethylene bag to allow volatilization of organic vapors. After the samples equilibrated to ~70° F, they were analyzed for organic vapors utilizing a MiniRae® Photo-ionization Detector (PID) equipped with a 10.6 electron volt (eV) lamp and calibrated for benzene response.

Chloride Concentrations – A La Motte Chloride Test Kit (titration method) was utilized for field chloride concentration analyses.

5.2 Briefly describe the soil analytical sampling and handling procedures used.

Soil samples from the soil borings were collected initially at 2-3 ft bgs, 5-6 ft bgs and thereafter at 5-foot intervals to total depth of each respective soil boring.

Upon collection of each sample, a portion was immediately placed in a laboratory provided container, labeled and set on ice for transport to an independent laboratory for quantification of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and total xylenes (BTEX constituents), chloride and sulfate concentrations.

5.3 Discuss sample locations and provide rationale for their locations.

On February 7, 2006, four (4) soil borings were advanced throughout the release area at varying depths to delineate the vertical extent of impacted soil (reference *Appendix III, Soil Boring Logs*). Soil boring SB-4 was advanced outside the release area and used for background reference data. Locations for soil borings SB-1, SB-2 and SB-3 were chosen to provide the best representative examples of soil throughout the release area (reference *Figure 4* for locations).

6.0 ANALYTICAL RESULTS

6.1 Describe the vertical and horizontal extent and magnitude of soil contamination.

Laboratory analyses of soil samples collected from SB-1 thru SB-3 indicated benzene, BTEX and TPH concentrations were ND at or above laboratory MDL. Chloride concentrations ranged from 8 mg/Kg (SB-3 @ 5-6-feet bgs) to 425 mg/Kg (SB-1 @ 2-3-feet bgs) (reference *Table 2*).

6.2 Is surface soil contamination present at the site (i.e., soil in the uppermost two feet that is visibly stained, contaminated at greater than 10 ppm (PID) or hydrocarbon saturated)?

☐ *yes* ☒ *no*

If yes, attach a site map identifying extent(s) of surface soil contamination.

7.0 DISCUSSION

7.1 Discuss the risks associated with the remaining soil contamination:

Soil impacted above NMOCD remedial thresholds remains in situ. Benzene, TPH and BTEX constituent concentrations were ND at or above laboratory MDL. Laboratory analytical results indicated chloride impacted soil exists above the groundwater vadose zone. However, chloride impacted soil diminished with vertical extent. Based on depth to groundwater (~ 50 ft bgs), contaminants remaining in the soil may not be capable of impacting groundwater above NMWQCC Groundwater Standards of 250 mg/L.

7.2 Discuss the risks associated with the impacted groundwater:

Groundwater not impacted.

7.3 Discuss other concerns not mentioned above:

Not applicable

8.0 CONCLUSIONS AND RECOMMENDATIONS

8.1 ***Recommendation for the site:***

- ☒ ***Site Closure***
- ☐ ***Additional Groundwater Monitoring***
- ☐ ***Corrective Action***

8.2 ***Base the recommendation above on Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993). Describe below how you applied the policy to support your recommendation. If closure is recommended, please summarize significant site investigative events and describe how site specific risk issues have been adequately addressed or minimized to acceptable low risk levels.***

Excavation and disposal of impacted soil was completed by another contractor. On February 7, 2006 EPI advanced three (3) soil borings (SB) throughout the release area to delineate the vertical extent of impacted soil. Soil boring SB-4 was advanced outside the release area with data used as background reference. Upon receipt of Soil Boring Soil Sample Laboratory Analytical Data confirming most soil impacted above NMOCD remedial threshold goals were excavated, EPI backfilled the excavation with approximately 14 yds^3 of caliche and 84 yds^3 of top-soil. The entire disturbed area was graded and contoured for natural drainage. The area will be seeded with a blend preferred by the property owner.

8.3 ***If additional groundwater monitoring is recommended, indicate the proposed monitoring schedule and frequency. Conduct quarterly monitoring until the NMOCD responds to this report.***

Not Applicable

8.4 ***If corrective action is recommended, provide a conceptual approach.***

Not applicable

FIGURES

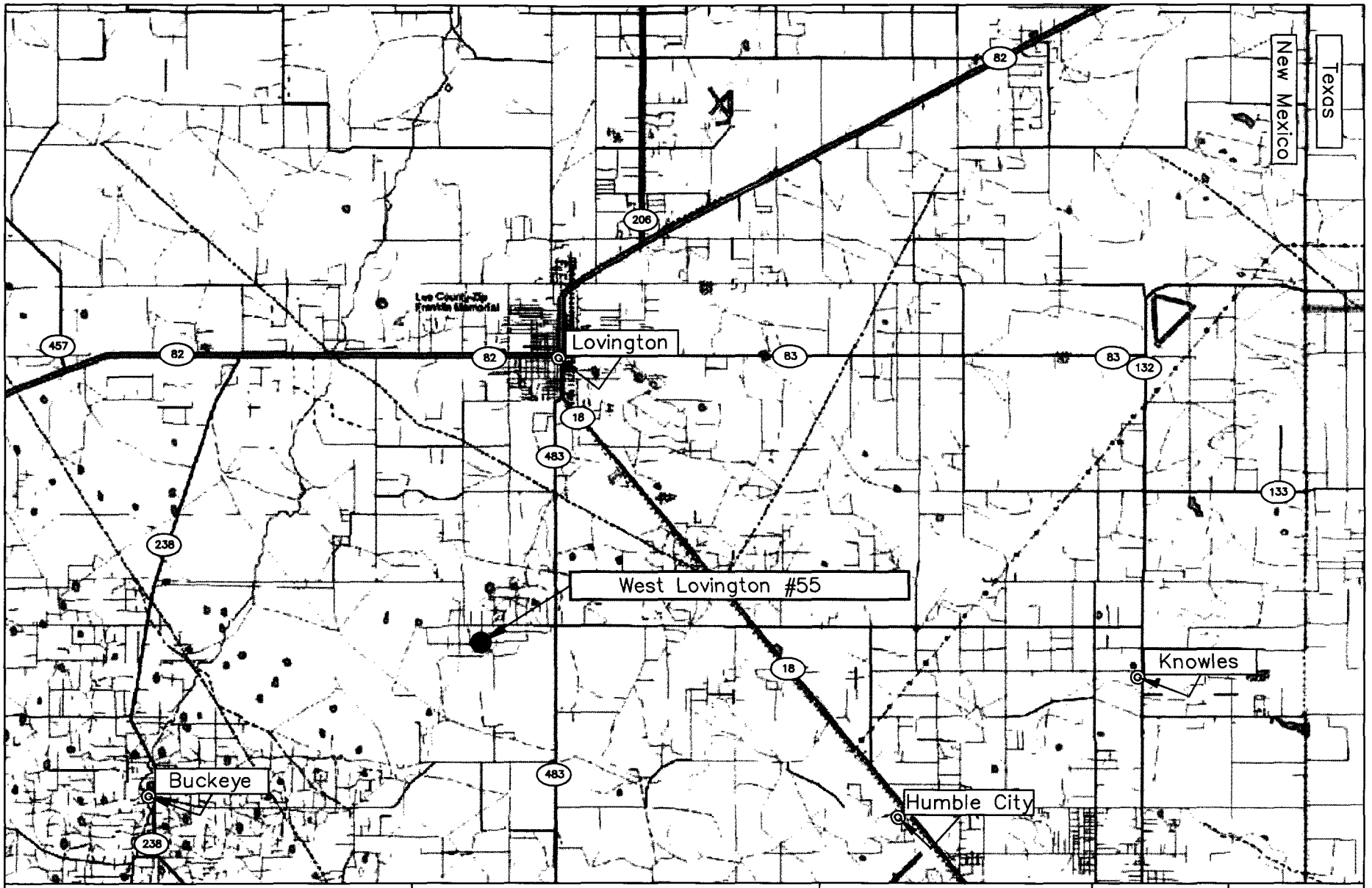

Figure 1
Area Map
Chevron Corporation
West Lovington #55

Lea County, New Mexico
SW 1/4 of the NE 1/4, Sec. 8, T17S, R36E
N 32°51' 04.38" W 103°22' 44.66"
Elevation: 3,895 feet amsl

DWG By: Daniel Dominguez
November 2006

REVISED:

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Miles

SHEET
1 of 1

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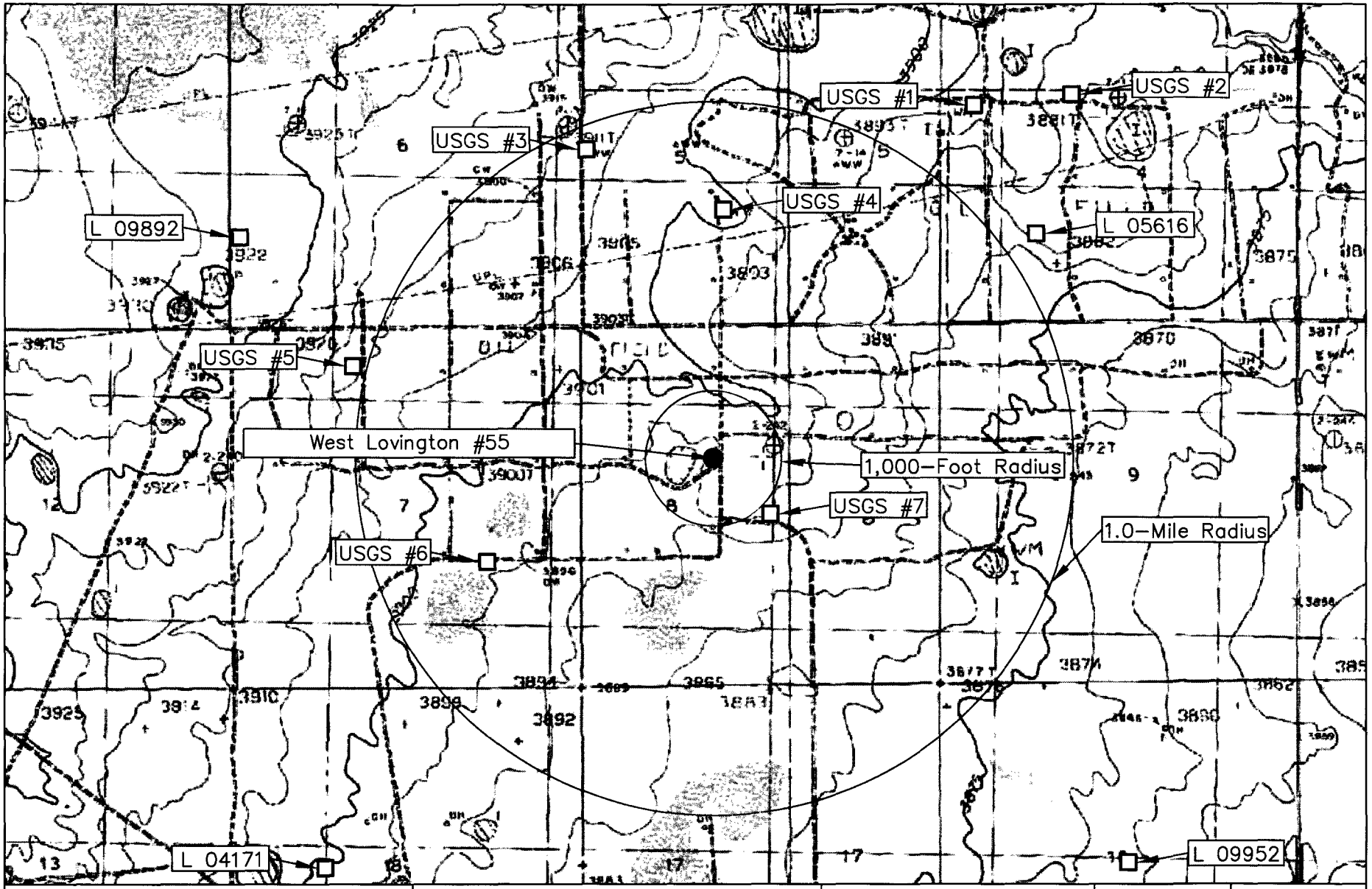

Figure 2
Site Location Map
Chevron Corporation
West Lovington #55

Lea County, New Mexico
SW 1/4 of the NE 1/4, Sec. 8, T17S, R36E
N 32°51' 04.38" W 103°22' 44.66"
Elevation: 3,895 feet amsl

DWG By: Daniel Dominguez
November 2006

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0 2,000 4,000
Feet

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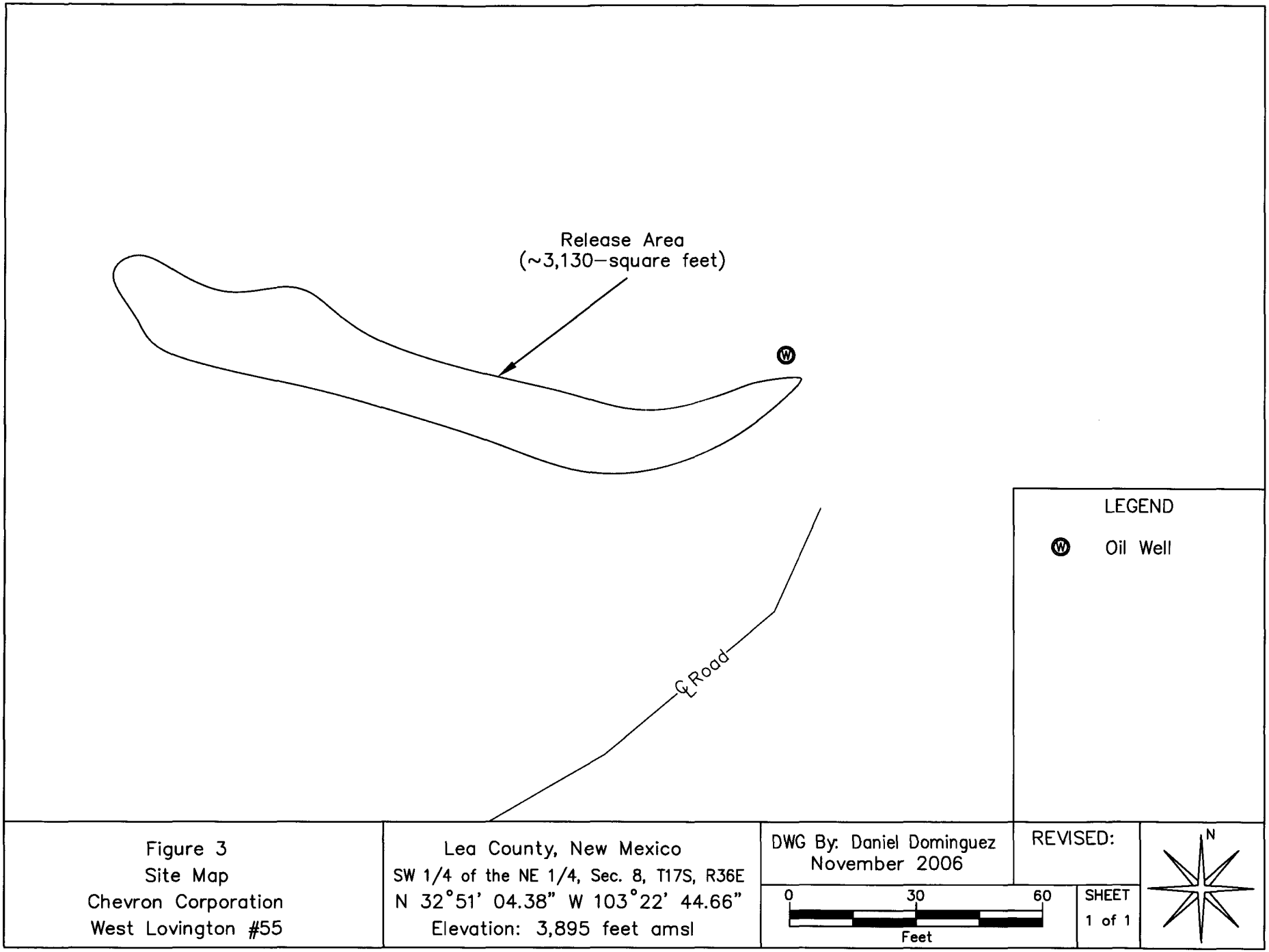

Figure 3
Site Map
Chevron Corporation
West Lovington #55

Lea County, New Mexico
SW 1/4 of the NE 1/4, Sec. 8, T17S, R36E
N 32°51' 04.38" W 103°22' 44.66"
Elevation: 3,895 feet amsl

DWG By: Daniel Dominguez
November 2006

REVISED:

SHEET
1 of 1

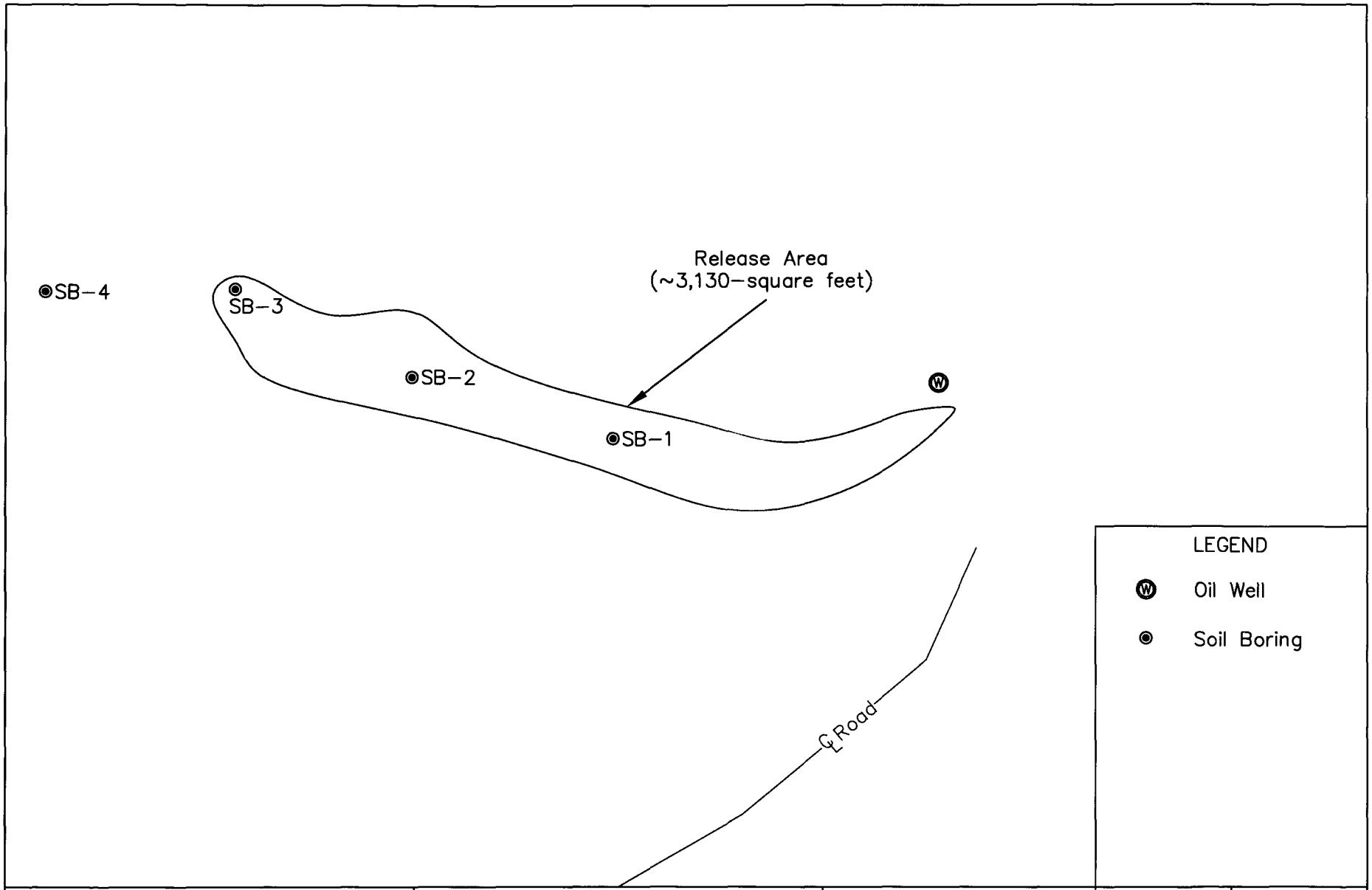

Figure 4
Soil Boring Map
Chevron Corporation
West Lovington #55

Lea County, New Mexico
SW 1/4 of the NE 1/4, Sec. 8, T17S, R36E
N 32°51' 04.38" W 103°22' 44.66"
Elevation: 3,895 feet amsl

DWG By: Daniel Dominguez
November 2006

REVISED:

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1 of 1

TABLES

TABLE 1

WELL INFORMATION REPORT*

Chevron USA - West Lovington #55 (Ref #200066)

Well Number	Diversion[A]	Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation[B]	Depth to Water
L 04171	3	NORWOOD DRILLING COMPANY	PRO	17S	36E	18 1 4	N32° 50' 4.77"	W103° 23' 52.25"	09-Jun-59	3,900	128
L 05616	0	TRI-SERVICE DRILLING COMPANY	PRO	17S	36E	04 3 2	N32° 51' 37.00"	W103° 21' 48.77"	02-May-65	3,885	65
L 09892	0	GOFF DAIRY	PRO	17S	36E	06 3 1 3	N32° 51' 36.40"	W103° 24' 7.00"	30-Jan-87	3,927	50
L 09952	0	TERRA RESOURCES	PRO	17S	36E	16 2 3 3	N32° 50' 5.58"	W103° 21' 33.15"	25-Sep-87	3,867	45
USGS #1				17S	36E	4 1 3 3			15-Jan-91	3,893	61.6
USGS #2				17S	36E	4 1 4 1			03-Feb-61	3,885	51.92
USGS #3				17S	36E	5 3 1 1			25-Jan-96	3,907	54.62
USGS #4				17S	36E	5 3 2 4			14-Jan-86	3,901	57.19
USGS #5				17S	36E	7 1 2 1			15-Jan-90	3,910	49.12
USGS #6				17S	36E	7 4 1 4			25-Jan-96	3,895	42.17
USGS #7				17S	36E	8 4 1 1			25-Jan-96	3,895	50.96S

* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet1) and USGS Database.

Shaded well information indicates well location not shown on Figure 2

[A] = in acre feet per annum

[B] = Interpolated from USGS Topographical Map

PRO = Production

(quarters are 1=NW, 2=NE, 3=SW, 4=SE)

(quarters are biggest to smallest - X Y are in Feet - UTM are in Meters)

TABLE 2

Summary of Soil Boring Field Analyses and Laboratory Analytical Data

Chevron USA

West Lovington Unit #55 (NMOCD Ref: 1RP# 1226; EPI Ref: 200066)

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	Carbon Ranges C6-C12 (mg/Kg)	Carbon Ranges C12-C28 (mg/Kg)	Carbon Ranges C28-C35 (mg/Kg)	Total Hydrocarbons C6-C35 (mg/Kg)	Chloride (mg/Kg)
SB-1	2-3	Excavated	07-Feb-06			<0.0250	<0.0250	<0.0250	<0.050	<0.125	<20.0	<20.0	<20.0	<60.0	**425**
	5-6	In-situ	07-Feb-06			<0.0250	<0.0250	<0.0250	<0.050	<0.125	<10.0	62.1	32.3	94.4	25
	10-11	In-situ	07-Feb-06			<0.0250	<0.0250	<0.0250	<0.050	<0.125	<10.0	<10.0	<10.0	<30.0	171
	15-16	In-situ	07-Feb-06			--	--	--	--	--	<10.0	<10.0	<10.0	<30.0	--
SB-2	2-3	Excavated	07-Feb-06			<0.0250	J [0.0102]	J [0.0168]	0.0409	0.0409	<10.0	47.7	11.7	59.4	188
	5-6	In-situ	07-Feb-06			<0.0250	<0.0250	<0.0250	<0.050	<0.125	<10.0	62.1	32.3	94.4	161
	10-11	In-situ	07-Feb-06			<0.0250	<0.0250	<0.0250	<0.050	<0.125	<10.0	<10.0	<10.0	<30.0	--
	15-16	In-situ	07-Feb-06			--	--	--	--	--	<10.0	<10.0	<10.0	<30.0	--
SB-3	2-3	Excavated	07-Feb-06			<0.0250	<0.0250	<0.0250	<0.050	<0.125	<10.0	<10.0	<10.0	<30.0	13.2
	5-6	In-situ	07-Feb-06			<0.0250	<0.0250	<0.0250	<0.050	<0.125	<10.0	<10.0	<10.0	<30.0	8.0
SB-4	2-3	In-situ	07-Feb-06			<0.0250	<0.0250	<0.0250	<0.050	<0.125	<10.0	<10.0	<10.0	<30.0	13.5
	5-6	In-situ	07-Feb-06			<0.0250	<0.0250	<0.0250	<0.050	<0.125	<10.0	<10.0	<10.0	<30.0	18.9
NMOCD Remedial Threshold Goals				100		10				50				1,000	250 [1]

BOLD *values exceed NMOCD Remedial Threshold Goals*

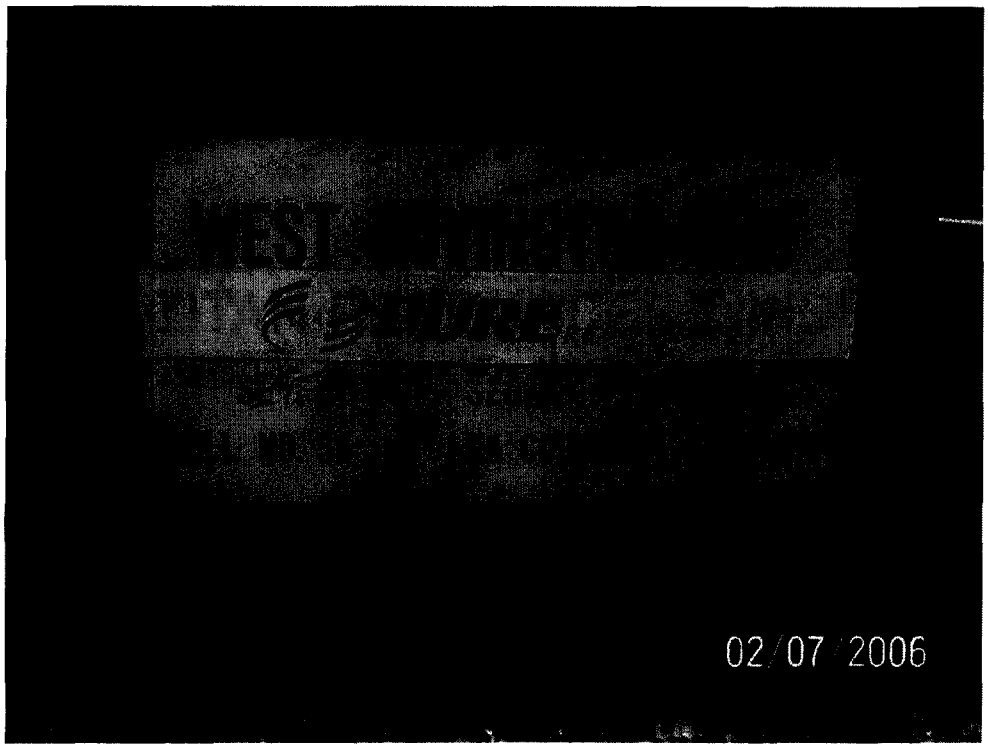
1 = Chloride and Sulphate residuals may not be capable of impacting groundwater above NMWQCC Groundwater Standards of 250 mg/Kg and 600 mg/Kg, respectively

- - = Not Analyzed; J = Analyte detected, but below Reporting Limit. Therefore, result is an estimated concentration (CPL J-Flag)

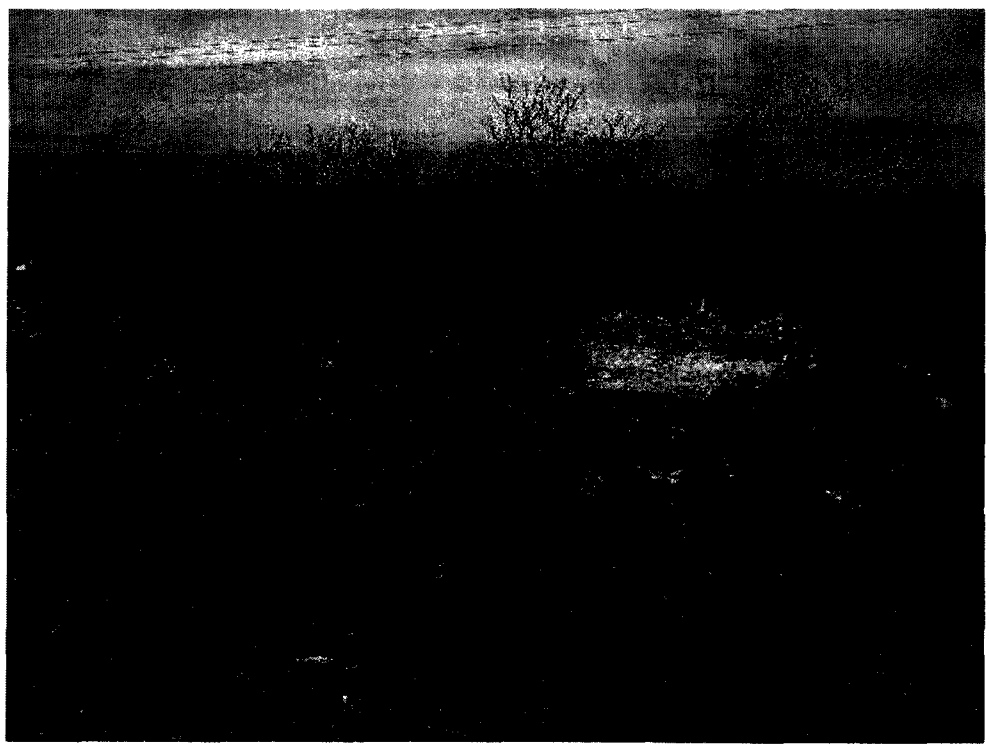
APPENDICES

APPENDIX I

PROJECT PHOTOGRAPHS



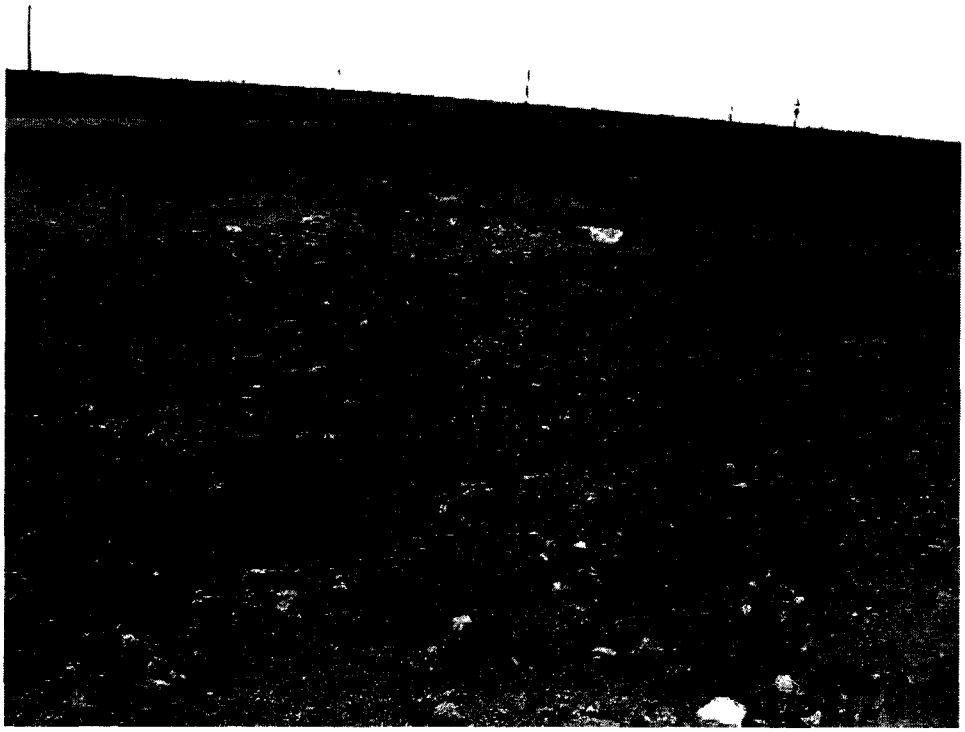
Photograph #1 – Lease sign.



Photograph #2 – Looking northwesterly at the release area.

Photograph #3 – Looking west at the release area.

Photograph #4 – Looking westerly at the release area.



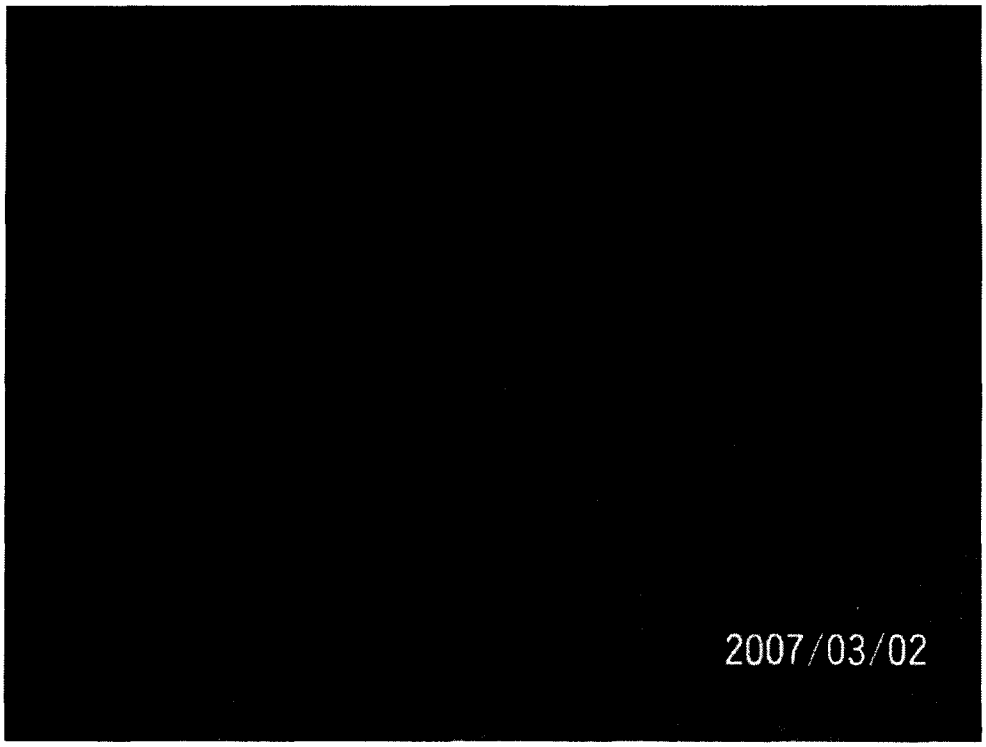
Photograph #5 – Looking northeasterly at the release area.

Photograph #6 – Looking easterly at the release area.

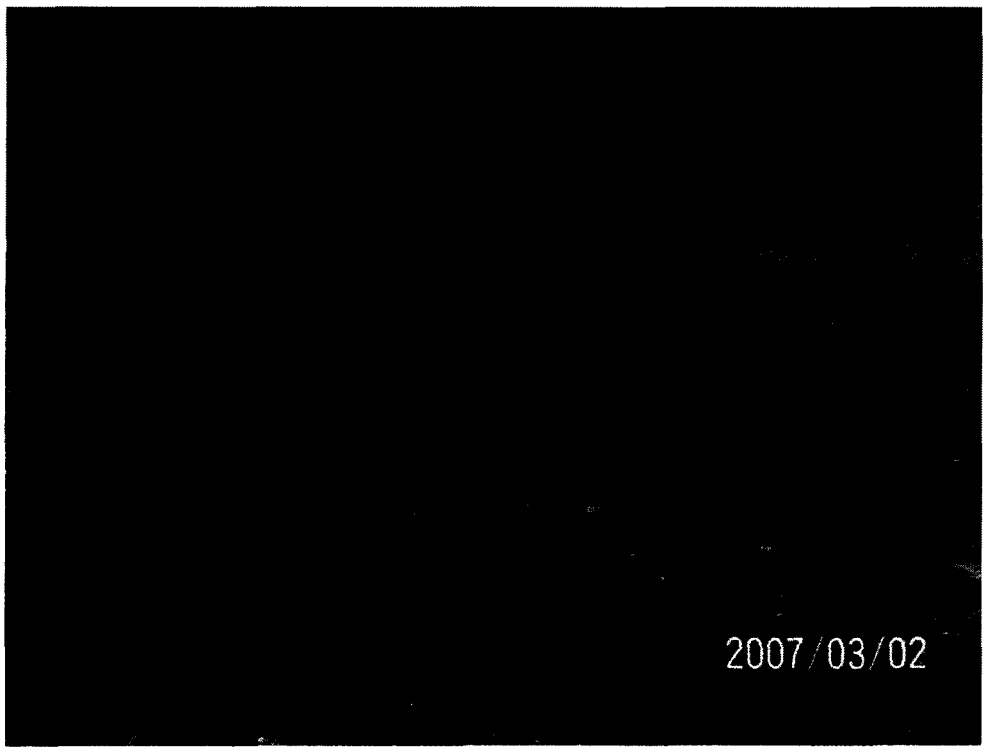
Photograph #7 – Looking westerly at the release area and plugged SB-2 and SB-3.

Photograph #8 – Looking east towards the release area and SB-4.

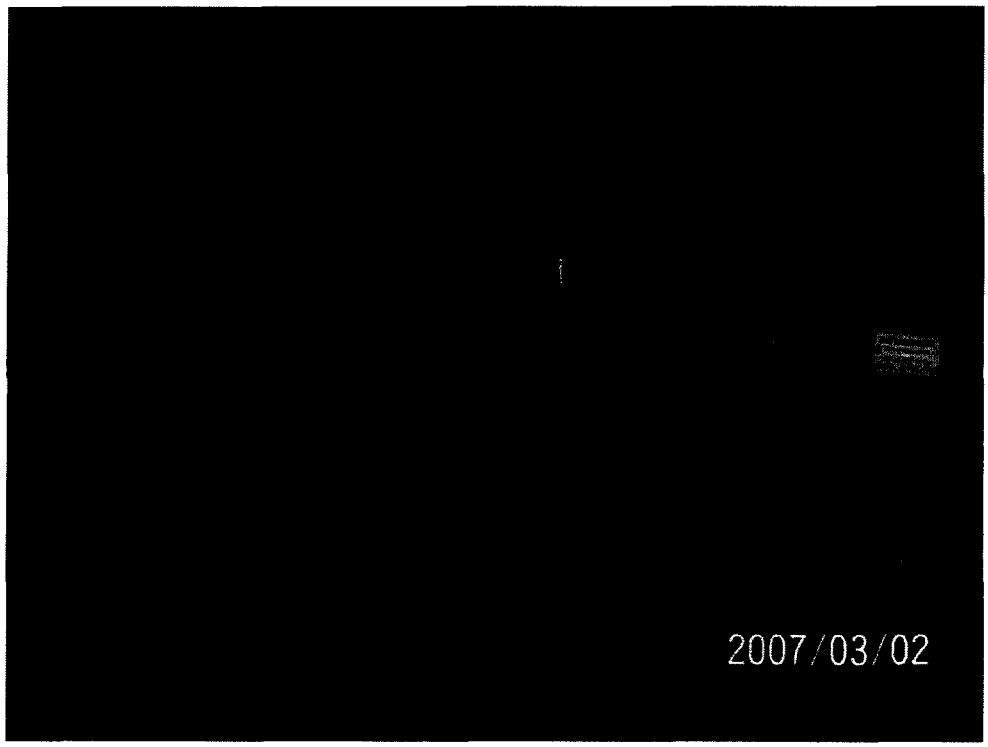
Photograph #9 – Looking easterly towards the release area.



Photograph #10 – Looking west at remediated site with backfilled topsoil and caliche.



Photograph #11 – Looking westerly at remediated site with backfilled topsoil.



Photograph #12 – Looking westerly at remediated site with backfilled caliche and topsoil.

APPENDIX II

LABORATORY ANALYTICAL REPORTS
AND
CHAIN-OF-CUSTODY FORMS

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Iain Olness

Environmental Plus, Incorporated

P.O. Box 1558

Eunice, NM 88231

Project: Chevron USA/ West Lovington Unit #55

Project Number: 200066

Location: UL-F, Sec. 08, T 17 S, R 36 E

Lab Order Number: 6B08017

Report Date: 02/22/06

Environmental Plus, Incorporated	Project: Chevron USA/ West Lovington Unit #55	Fax: 505-394-2601
P.O. Box 1558	Project Number: 200066	**Reported:**
Eunice NM, 88231	Project Manager: Iain Olness	02/22/06 16:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 2'-3'	6B08017-01	Soil	02/07/06 10:50	02/08/06 11:10
SB-1 5'-6'	6B08017-02	Soil	02/07/06 11:10	02/08/06 11:10
SB-1 10'-11'	6B08017-03	Soil	02/07/06 11:19	02/08/06 11:10
SB-1 15'-16'	6B08017-04	Soil	02/07/06 11:30	02/08/06 11:10
SB-2 2'-3'	6B08017-08	Soil	02/07/06 13:00	02/08/06 11:10
SB-2 5'-6'	6B08017-09	Soil	02/07/06 13:05	02/08/06 11:10
SB-2 10'-11'	6B08017-10	Soil	02/07/06 13:15	02/08/06 11:10
SB-2 15'-16'	6B08017-11	Soil	02/07/06 13:23	02/08/06 11:10
SB-3 2'-3'	6B08017-12	Soil	02/07/06 13:29	02/08/06 11:10
SB-3 5'-6'	6B08017-13	Soil	02/07/06 13:32	02/08/06 11:10
SB-4 2'-3'	6B08017-15	Soil	02/07/06 13:41	02/08/06 11:10
SB-4 5'-6'	6B08017-16	Soil	02/07/06 13:44	02/08/06 11:10

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 2'-3' (6B08017-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB61034	02/10/06	02/12/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**J [0.0233]**	0.0250	"	"	"	"	"	"	J
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.2 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.2 %*		*80-120*	"	"	"	"	
Carbon Ranges C6-C12	ND	20.0	mg/kg dry	2	EB61012	02/10/06	02/13/06	EPA 8015M	
Carbon Ranges C12-C28	ND	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	20.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*98.2 %*		*70-130*	"	"	"	"	
Surrogate: 1-Chlorooctadecane		*89.2 %*		*70-130*	"	"	"	"	
SB-1 5'-6' (6B08017-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB61034	02/10/06	02/12/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*81.8 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.8 %*		*80-120*	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB61012	02/10/06	02/13/06	EPA 8015M	
Carbon Ranges C12-C28	**55.6**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**J [9.04]**	10.0	"	"	"	"	"	"	J
Total Hydrocarbon C6-C35	**55.6**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*92.0 %*		*70-130*	"	"	"	"	
Surrogate: 1-Chlorooctadecane		*83.0 %*		*70-130*	"	"	"	"	
SB-1 10'-11' (6B08017-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB62007	02/17/06	02/20/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.7 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*		*80-120*	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB61408	02/14/06	02/15/06	EPA 8015M	

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 10'-11' (6B08017-03) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EB61408	02/14/06	02/15/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*91.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*92.2 %*	*70-130*		"	"	"	"	
SB-1 15'-16' (6B08017-04) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB61408	02/14/06	02/15/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*87.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*91.4 %*	*70-130*		"	"	"	"	
SB-2 2'-3' (6B08017-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB61034	02/10/06	02/12/06	EPA 8021B	
Toluene	**J [0.0102]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	**J [0.0168]**	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	**0.0409**	0.0250	"	"	"	"	"	"	
Xylene (o)	**ND**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*87.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB61012	02/10/06	02/13/06	EPA 8015M	
Carbon Ranges C12-C28	**47.7**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**11.7**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**59.4**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*103 %*	*70-130*		"	"	"	"	
SB-2 5'-6' (6B08017-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB61034	02/10/06	02/12/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*81.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB61012	02/10/06	02/13/06	EPA 8015M	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 5'-6' (6B08017-09) Soil									
Carbon Ranges C12-C28	**62.1**	10.0	mg/kg dry	1	EB61012	02/10/06	02/13/06	EPA 8015M	
Carbon Ranges C28-C35	**32.3**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**94.4**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*98.6 %*	*70-130*		"	"	"	"	
SB-2 10'-11' (6B08017-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB62007	02/17/06	02/17/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*98.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB61408	02/14/06	02/15/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*94.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*97.4 %*	*70-130*		"	"	"	"	
SB-2 15'-16' (6B08017-11) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB61408	02/14/06	02/15/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*99.0 %*	*70-130*		"	"	"	"	
SB-3 2'-3' (6B08017-12) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB61034	02/10/06	02/14/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*81.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB61012	02/10/06	02/13/06	EPA 8015M	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 2'-3' (6B08017-12) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EB61012	02/10/06	02/13/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*98.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*90.4 %*	*70-130*		"	"	"	"	
SB-3 5'-6' (6B08017-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB61034	02/10/06	02/14/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*82.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB61011	02/10/06	02/10/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*96.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*81.6 %*	*70-130*		"	"	"	"	
SB-4 2'-3' (6B08017-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB61034	02/10/06	02/12/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*83.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB61011	02/10/06	02/10/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*96.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*82.4 %*	*70-130*		"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 5'-6' (6B08017-16) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EB61034	02/10/06	02/14/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.0 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB61011	02/10/06	02/10/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*96.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*83.8 %*	*70-130*		"	"	"	"	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 2'-3' (6B08017-01) Soil									
Chloride	**425**	20.0	mg/kg	40	EB61301	02/10/06	02/13/06	EPA 300.0	
% Moisture	**2.6**	0.1	%	1	EB61007	02/09/06	02/10/06	% calculation	
Sulfate	**1320**	20.0	mg/kg	40	EB61301	02/10/06	02/13/06	EPA 300.0	
SB-1 5'-6' (6B08017-02) Soil									
Chloride	**24.9**	5.00	mg/kg	10	EB61301	02/10/06	02/13/06	EPA 300.0	
% Moisture	**0.3**	0.1	%	1	EB61007	02/09/06	02/10/06	% calculation	
Sulfate	**55.1**	5.00	mg/kg	10	EB61301	02/10/06	02/13/06	EPA 300.0	
SB-1 10'-11' (6B08017-03) Soil									
Chloride	**171**	5.00	mg/kg	10	EB61608	02/15/06	02/15/06	EPA 300.0	
% Moisture	**4.7**	0.1	%	1	EB61505	02/14/06	02/15/06	% calculation	
Sulfate	**56.0**	5.00	mg/kg	10	EB61608	02/15/06	02/15/06	EPA 300.0	
SB-1 10'-11' (6B08017-03RE1) Soil									
% Moisture	**3.5**	0.1	%	1	EB62011	02/17/06	02/20/06	% calculation	
SB-1 15'-16' (6B08017-04) Soil									
% Moisture	**4.7**	0.1	%	1	EB61505	02/14/06	02/15/06	% calculation	
SB-2 2'-3' (6B08017-08) Soil									
Chloride	**188**	10.0	mg/kg	20	EB61301	02/10/06	02/13/06	EPA 300.0	
% Moisture	**0.9**	0.1	%	1	EB61007	02/09/06	02/10/06	% calculation	
Sulfate	**97.7**	10.0	mg/kg	20	EB61301	02/10/06	02/13/06	EPA 300.0	
SB-2 5'-6' (6B08017-09) Soil									
Chloride	**161**	5.00	mg/kg	10	EB61301	02/10/06	02/13/06	EPA 300.0	
% Moisture	**2.7**	0.1	%	1	EB61007	02/09/06	02/10/06	% calculation	
Sulfate	**66.5**	5.00	mg/kg	10	EB61301	02/10/06	02/13/06	EPA 300.0	

Environmental Plus, Incorporated	Project: Chevron USA/ West Lovington Unit #55	Fax: 505-394-2601
P.O. Box 1558	Project Number: 200066	**Reported:**
Eunice NM, 88231	Project Manager: Iain Olness	02/22/06 16:36

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 10'-11' (6B08017-10) Soil									
% Moisture	**4.6**	0.1	%	1	EB61505	02/14/06	02/15/06	% calculation	
SB-2 15'-16' (6B08017-11) Soil									
% Moisture	**7.1**	0.1	%	1	EB61505	02/14/06	02/15/06	% calculation	
SB-3 2'-3' (6B08017-12) Soil									
Chloride	**13.2**	5.00	mg/kg	10	EB61301	02/10/06	02/13/06	EPA 300.0	
% Moisture	**1.7**	0.1	%	1	EB61007	02/09/06	02/10/06	% calculation	
Sulfate	**97.7**	5.00	mg/kg	10	EB61301	02/10/06	02/13/06	EPA 300.0	
SB-3 5'-6' (6B08017-13) Soil									
Chloride	**8.01**	5.00	mg/kg	10	EB61301	02/10/06	02/13/06	EPA 300.0	
% Moisture	**1.6**	0.1	%	1	EB61007	02/09/06	02/10/06	% calculation	
Sulfate	**61.7**	5.00	mg/kg	10	EB61301	02/10/06	02/13/06	EPA 300.0	
SB-4 2'-3' (6B08017-15) Soil									
Chloride	**13.5**	5.00	mg/kg	10	EB61301	02/10/06	02/13/06	EPA 300.0	
% Moisture	**1.2**	0.1	%	1	EB61007	02/09/06	02/10/06	% calculation	
Sulfate	**82.2**	5.00	mg/kg	10	EB61301	02/10/06	02/13/06	EPA 300.0	
SB-4 5'-6' (6B08017-16) Soil									
Chloride	**18.9**	5.00	mg/kg	10	EB61302	02/11/06	02/13/06	EPA 300.0	
% Moisture	**1.5**	0.1	%	1	EB61007	02/09/06	02/10/06	% calculation	
Sulfate	**78.5**	5.00	mg/kg	10	EB61302	02/11/06	02/13/06	EPA 300.0	

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Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB61011 - Solvent Extraction (GC)										
Blank (EB61011-BLK1)				Prepared & Analyzed: 02/10/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*48.8*		*mg/kg*	*50.0*		*97.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.2*		*"*	*50.0*		*86.4*	*70-130*			
LCS (EB61011-BS1)				Prepared & Analyzed: 02/10/06						
Carbon Ranges C6-C12	477		mg/kg	500		95.4	75-125			
Carbon Ranges C12-C28	508		"	500		102	75-125			
Total Hydrocarbon C6-C35	985		"	1000		98.5	75-125			
Surrogate: 1-Chlorooctane	*57.2*		*"*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*52.4*		*"*	*50.0*		*105*	*70-130*			
Calibration Check (EB61011-CCV1)				Prepared: 02/10/06 Analyzed: 02/11/06						
Carbon Ranges C6-C12	467		mg/kg	500		93.4	80-120			
Carbon Ranges C12-C28	543		"	500		109	80-120			
Total Hydrocarbon C6-C35	1010		"	1000		101	80-120			
Surrogate: 1-Chlorooctane	*56.5*		*"*	*50.0*		*113*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.7*		*"*	*50.0*		*97.4*	*70-130*			
Matrix Spike (EB61011-MS1)	**Source: 6B08020-07**			Prepared & Analyzed: 02/10/06						
Carbon Ranges C6-C12	507		mg/kg	500	ND	101	75-125			
Carbon Ranges C12-C28	579		"	500	ND	116	75-125			
Total Hydrocarbon C6-C35	1090		"	1000	ND	109	75-125			
Surrogate: 1-Chlorooctane	*56.1*		*"*	*50.0*		*112*	*70-130*			
Surrogate: 1-Chlorooctadecane	*53.0*		*"*	*50.0*		*106*	*70-130*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB61011 - Solvent Extraction (GC)										
Matrix Spike Dup (EB61011-MSD1)	**Source: 6B08020-07**			Prepared & Analyzed: 02/10/06						
Carbon Ranges C6-C12	523		mg/kg	500	ND	105	75-125	3.11	20	
Carbon Ranges C12-C28	597		"	500	ND	119	75-125	3.06	20	
Total Hydrocarbon C6-C35	1120		"	1000	ND	112	75-125	2.71	20	
Surrogate: 1-Chlorooctane	*56.4*		*"*	*50.0*		*113*	*70-130*			
Surrogate: 1-Chlorooctadecane	*54.5*		*"*	*50.0*		*109*	*70-130*			
Batch EB61012 - Solvent Extraction (GC)										
Blank (EB61012-BLK1)				Prepared: 02/10/06 Analyzed: 02/13/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*48.9*		*mg/kg*	*50.0*		*97.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.9*		*"*	*50.0*		*89.8*	*70-130*			
LCS (EB61012-BS1)				Prepared: 02/10/06 Analyzed: 02/13/06						
Carbon Ranges C6-C12	472	10.0	mg/kg wet	500		94.4	75-125			
Carbon Ranges C12-C28	570	10.0	"	500		114	75-125			
Total Hydrocarbon C6-C35	1040	10.0	"	1000		104	75-125			
Surrogate: 1-Chlorooctane	*58.0*		*mg/kg*	*50.0*		*116*	*70-130*			
Surrogate: 1-Chlorooctadecane	*53.6*		*"*	*50.0*		*107*	*70-130*			
Calibration Check (EB61012-CCV1)				Prepared: 02/10/06 Analyzed: 02/13/06						
Carbon Ranges C6-C12	472		mg/kg	500		94.4	80-120			
Carbon Ranges C12-C28	587		"	500		117	80-120			
Total Hydrocarbon C6-C35	1060		"	1000		106	80-120			
Surrogate: 1-Chlorooctane	*58.0*		*"*	*50.0*		*116*	*70-130*			
Surrogate: 1-Chlorooctadecane	*55.2*		*"*	*50.0*		*110*	*70-130*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB61012 - Solvent Extraction (GC)										
Matrix Spike (EB61012-MS1)	**Source: 6B08017-12**			Prepared: 02/10/06 Analyzed: 02/13/06						
Carbon Ranges C6-C12	573	10.0	mg/kg dry	509	ND	113	75-125			
Carbon Ranges C12-C28	588	10.0	"	509	ND	116	75-125			
Total Hydrocarbon C6-C35	1160	10.0	"	1020	ND	114	75-125			
Surrogate: 1-Chlorooctane	*55.8*		*mg/kg*	*50.0*		*112*	*70-130*			
Surrogate: 1-Chlorooctadecane	*51.7*		*"*	*50.0*		*103*	*70-130*			
Matrix Spike Dup (EB61012-MSD1)	**Source: 6B08017-12**			Prepared: 02/10/06 Analyzed: 02/13/06						
Carbon Ranges C6-C12	591	10.0	mg/kg dry	509	ND	116	75-125	3.09	20	
Carbon Ranges C12-C28	602	10.0	"	509	ND	118	75-125	2.35	20	
Total Hydrocarbon C6-C35	1190	10.0	"	1020	ND	117	75-125	2.55	20	
Surrogate: 1-Chlorooctane	*57.4*		*mg/kg*	*50.0*		*115*	*70-130*			
Surrogate: 1-Chlorooctadecane	*52.3*		*"*	*50.0*		*105*	*70-130*			
Batch EB61034 - EPA 5030C (GC)										
Blank (EB61034-BLK1)				Prepared: 02/10/06 Analyzed: 02/14/06						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*34.2*		*ug/kg*	*40.0*		*85.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.7*		*"*	*40.0*		*109*	*80-120*			
LCS (EB61034-BS1)				Prepared: 02/10/06 Analyzed: 02/14/06						
Benzene	0.0964	0.00100	mg/kg wet	0.100		96.4	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.199	0.00100	"	0.200		99.5	80-120			
Xylene (o)	0.118	0.00100	"	0.100		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	*39.4*		*ug/kg*	*40.0*		*98.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*34.3*		*"*	*40.0*		*85.8*	*80-120*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB61034 - EPA 5030C (GC)										
Calibration Check (EB61034-CCV1)				Prepared: 02/10/06 Analyzed: 02/14/06						
Benzene	49.7		ug/kg	50.0		99.4	80-120			
Toluene	54.4		"	50.0		109	80-120			
Ethylbenzene	55.5		"	50.0		111	80-120			
Xylene (p/m)	112		"	100		112	80-120			
Xylene (o)	59.3		"	50.0		119	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.0*		*"*	*40.0*		*95.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.5*		*"*	*40.0*		*88.8*	*80-120*			
Matrix Spike (EB61034-MS1)		**Source: 6B08019-02**		Prepared: 02/10/06 Analyzed: 02/14/06						
Benzene	1.21	0.0250	mg/kg dry	1.25	ND	96.8	80-120			
Toluene	1.34	0.0250	"	1.25	ND	107	80-120			
Ethylbenzene	1.46	0.0250	"	1.25	ND	117	80-120			
Xylene (p/m)	2.94	0.0250	"	2.51	ND	117	80-120			
Xylene (o)	1.49	0.0250	"	1.25	ND	119	80-120			
Surrogate: a,a,a-Trifluorotoluene	*36.2*		*ug/kg*	*40.0*		*90.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.2*		*"*	*40.0*		*106*	*80-120*			
Matrix Spike Dup (EB61034-MSD1)		**Source: 6B08019-02**		Prepared: 02/10/06 Analyzed: 02/14/06						
Benzene	1.28	0.0250	mg/kg dry	1.25	ND	102	80-120	5.23	20	
Toluene	1.41	0.0250	"	1.25	ND	113	80-120	5.45	20	
Ethylbenzene	1.50	0.0250	"	1.25	ND	120	80-120	2.53	20	
Xylene (p/m)	2.99	0.0250	"	2.51	ND	119	80-120	1.69	20	
Xylene (o)	1.50	0.0250	"	1.25	ND	120	80-120	0.837	20	
Surrogate: a,a,a-Trifluorotoluene	*37.0*		*ug/kg*	*40.0*		*92.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*45.1*		*"*	*40.0*		*113*	*80-120*			
Batch EB61408 - Solvent Extraction (GC)										
Blank (EB61408-BLK1)				Prepared: 02/14/06 Analyzed: 02/15/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*47.7*		*mg/kg*	*50.0*		*95.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*51.7*		*"*	*50.0*		*103*	*70-130*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB61408 - Solvent Extraction (GC)										
LCS (EB61408-BS1)				Prepared: 02/14/06 Analyzed: 02/15/06						
Carbon Ranges C6-C12	505	10.0	mg/kg wet	500		101	75-125			
Carbon Ranges C12-C28	521	10.0	"	500		104	75-125			
Total Hydrocarbon C6-C35	1030	10.0	"	1000		103	75-125			
Surrogate: 1-Chlorooctane	*54.1*		*mg/kg*	*50.0*		*108*	*70-130*			
Surrogate: 1-Chlorooctadecane	*54.2*		*"*	*50.0*		*108*	*70-130*			
Calibration Check (EB61408-CCV1)				Prepared: 02/14/06 Analyzed: 02/15/06						
Carbon Ranges C6-C12	472		mg/kg	500		94.4	80-120			
Carbon Ranges C12-C28	538		"	500		108	80-120			
Total Hydrocarbon C6-C35	1010		"	1000		101	80-120			
Surrogate: 1-Chlorooctane	*49.3*		*"*	*50.0*		*98.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.4*		*"*	*50.0*		*86.8*	*70-130*			
Matrix Spike (EB61408-MS1)	**Source: 6B10009-15**			Prepared: 02/14/06 Analyzed: 02/15/06						
Carbon Ranges C6-C12	472	10.0	mg/kg dry	510	ND	92.5	75-125			
Carbon Ranges C12-C28	587	10.0	"	510	142	87.3	75-125			
Carbon Ranges C28-C35	12.8	10.0	"	0.00	12.6		75-125			
Total Hydrocarbon C6-C35	1060	10.0	"	1020	155	88.7	75-125			
Surrogate: 1-Chlorooctane	*51.0*		*mg/kg*	*50.0*		*102*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.8*		*"*	*50.0*		*95.6*	*70-130*			
Matrix Spike Dup (EB61408-MSD1)	**Source: 6B10009-15**			Prepared: 02/14/06 Analyzed: 02/15/06						
Carbon Ranges C6-C12	462	10.0	mg/kg dry	510	ND	90.6	75-125	2.14	20	
Carbon Ranges C12-C28	588	10.0	"	510	142	87.5	75-125	0.170	20	
Carbon Ranges C28-C35	13.9	10.0	"	0.00	12.6		75-125	8.24	20	
Total Hydrocarbon C6-C35	1050	10.0	"	1020	155	87.7	75-125	0.948	20	
Surrogate: 1-Chlorooctane	*55.2*		*mg/kg*	*50.0*		*110*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.9*		*"*	*50.0*		*95.8*	*70-130*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB62007 - EPA 5030C (GC)										
Blank (EB62007-BLK1)				Prepared & Analyzed: 02/17/06						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*39.2*		*ug/kg*	*40.0*		*98.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.3*		*"*	*40.0*		*80.8*	*80-120*			
LCS (EB62007-BS1)				Prepared & Analyzed: 02/17/06						
Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.118	0.00100	"	0.100		118	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.209	0.00100	"	0.200		104	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: a,a,a-Trifluorotoluene	*40.0*		*ug/kg*	*40.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.9*		*"*	*40.0*		*92.2*	*80-120*			
Calibration Check (EB62007-CCV1)				Prepared: 02/17/06 Analyzed: 02/21/06						
Benzene	40.2		ug/kg	50.0		80.4	80-120			
Toluene	43.0		"	50.0		86.0	80-120			
Ethylbenzene	48.4		"	50.0		96.8	80-120			
Xylene (p/m)	102		"	100		102	80-120			
Xylene (o)	50.0		"	50.0		100	80-120			
Surrogate: a,a,a-Trifluorotoluene	*33.4*		*"*	*40.0*		*83.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.4*		*"*	*40.0*		*96.0*	*80-120*			
Matrix Spike (EB62007-MS1)	**Source: 6B14008-16**			Prepared: 02/17/06 Analyzed: 02/22/06						
Benzene	0.0499	0.00100	mg/kg dry	0.0539	ND	92.6	80-120			
Toluene	0.0561	0.00100	"	0.0539	ND	104	80-120			
Ethylbenzene	0.0634	0.00100	"	0.0539	ND	118	80-120			
Xylene (p/m)	0.129	0.00100	"	0.108	ND	119	80-120			
Xylene (o)	0.0640	0.00100	"	0.0539	ND	119	80-120			
Surrogate: a,a,a-Trifluorotoluene	*40.8*		*ug/kg*	*40.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*46.3*		*"*	*40.0*		*116*	*80-120*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB62007 - EPA 5030C (GC)										
Matrix Spike Dup (EB62007-MSD1)	**Source: 6B14008-16**			Prepared: 02/17/06 Analyzed: 02/22/06						
Benzene	0.0504	0.00100	mg/kg dry	0.0539	ND	93.5	80-120	0.967	20	
Toluene	0.0563	0.00100	"	0.0539	ND	104	80-120	0.00	20	
Ethylbenzene	0.0637	0.00100	"	0.0539	ND	118	80-120	0.00	20	
Xylene (p/m)	0.129	0.00100	"	0.108	ND	119	80-120	0.00	20	
Xylene (o)	0.0642	0.00100	"	0.0539	ND	119	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	*37.3*		*ug/kg*	*40.0*		*93.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*46.7*		*"*	*40.0*		*117*	*80-120*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB61007 - General Preparation (Prep)										
Blank (EB61007-BLK1)				Prepared: 02/09/06 Analyzed: 02/10/06						
% Solids	100		%							
Duplicate (EB61007-DUP1)	**Source: 6B08014-01**			Prepared: 02/09/06 Analyzed: 02/10/06						
% Solids	98.8		%		98.6			0.203	20	
Duplicate (EB61007-DUP2)	**Source: 6B08019-06**			Prepared: 02/09/06 Analyzed: 02/10/06						
% Solids	99.7		%		99.7			0.00	20	
Duplicate (EB61007-DUP3)	**Source: 6B09002-03**			Prepared: 02/09/06 Analyzed: 02/10/06						
% Solids	74.8		%		74.5			0.402	20	
Batch EB61301 - Water Extraction										
Blank (EB61301-BLK1)				Prepared: 02/10/06 Analyzed: 02/13/06						
Sulfate	ND	0.500	mg/kg							
Chloride	ND	0.500	"							
LCS (EB61301-BS1)				Prepared: 02/10/06 Analyzed: 02/13/06						
Chloride	8.86		mg/L	10.0		88.6	80-120			
Sulfate	9.66		"	10.0		96.6	80-120			
Calibration Check (EB61301-CCV1)				Prepared: 02/10/06 Analyzed: 02/13/06						
Sulfate	9.82		mg/L	10.0		98.2	80-120			
Chloride	9.05		"	10.0		90.5	80-120			
Duplicate (EB61301-DUP1)	**Source: 6B07009-01**			Prepared: 02/10/06 Analyzed: 02/13/06						
Chloride	180	5.00	mg/kg		180			0.00	20	
Sulfate	82.4	5.00	"		84.8			2.87	20	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB61302 - Water Extraction										
Blank (EB61302-BLK1)				Prepared: 02/11/06 Analyzed: 02/13/06						
Sulfate	ND	0.500	mg/kg							
Chloride	ND	0.500	"							
LCS (EB61302-BS1)				Prepared: 02/11/06 Analyzed: 02/13/06						
Sulfate	9.72		mg/L	10.0		97.2	80-120			
Chloride	8.98		"	10.0		89.8	80-120			
Calibration Check (EB61302-CCV1)				Prepared: 02/11/06 Analyzed: 02/13/06						
Sulfate	9.84		mg/L	10.0		98.4	80-120			
Chloride	9.04		"	10.0		90.4	80-120			
Duplicate (EB61302-DUP1)	**Source: 6B08017-16**			Prepared: 02/11/06 Analyzed: 02/13/06						
Sulfate	80.5	5.00	mg/kg		78.5			2.52	20	
Chloride	18.5	5.00	"		18.9			2.14	20	
Batch EB61505 - General Preparation (Prep)										
Blank (EB61505-BLK1)				Prepared: 02/14/06 Analyzed: 02/15/06						
% Solids	100		%							
Duplicate (EB61505-DUP1)	**Source: 6B13007-01**			Prepared: 02/14/06 Analyzed: 02/15/06						
% Solids	96.5		%		97.0			0.517	20	
Duplicate (EB61505-DUP3)	**Source: 6B14008-03**			Prepared: 02/14/06 Analyzed: 02/15/06						
% Solids	98.0		%		94.8			3.32	20	
Duplicate (EB61505-DUP4)	**Source: 6B14008-24**			Prepared: 02/14/06 Analyzed: 02/15/06						
% Solids	95.6		%		98.1			2.58	20	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB61505 - General Preparation (Prep)										
Duplicate (EB61505-DUP5)	**Source: 6B14008-43**			Prepared: 02/14/06 Analyzed: 02/15/06						
% Solids	92.2		%		92.0			0.217	20	
Batch EB61608 - Water Extraction										
Blank (EB61608-BLK1)				Prepared & Analyzed: 02/15/06						
Chloride	ND	0.500	mg/kg							
Sulfate	ND	0.500	"							
LCS (EB61608-BS1)				Prepared & Analyzed: 02/15/06						
Chloride	9.06		mg/L	10.0		90.6	80-120			
Sulfate	9.65		"	10.0		96.5	80-120			
Calibration Check (EB61608-CCV1)				Prepared & Analyzed: 02/15/06						
Sulfate	9.88		mg/L	10.0		98.8	80-120			
Chloride	9.16		"	10.0		91.6	80-120			
Duplicate (EB61608-DUP1)	**Source: 6B02016-46**			Prepared & Analyzed: 02/15/06						
Sulfate	59.1	10.0	mg/kg		58.7			0.679	20	
Chloride	407	10.0	"		389			4.52	20	
Batch EB62011 - General Preparation (Prep)										
Blank (EB62011-BLK1)				Prepared: 02/17/06 Analyzed: 02/20/06						
% Solids	100		%							
Duplicate (EB62011-DUP1)	**Source: 6B08017-03RE1**			Prepared: 02/17/06 Analyzed: 02/20/06						
% Solids	96.5		%		96.5			0.00	20	

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 2/22/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

Environmental Plus, Inc.

Chain of Custody Form

2100 Avenue O, Eunice, NM 88231 *P.O. Box 1558, Eunice, NM 88231*
(505) 394-3481 FAX: (505) 394-2601

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Chevron USA
Facility Name	West Lovington Unit #55
Location	UL-F, Sec. 08, T 17 S, R 36 E
Project Reference	200066
EPI Sampler Name	George Blackburn

Bill To

Attn: Iain Olness
PO Box 1558
Eunice, NM 88231

LAB I.D. 180817		SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO_4^{-2})	pH	TCLP	OTHER >>>	PAH			
-01	1	SB-1 (2'-3')	X	1			X					X		07-Feb-06	10:50	X	X	X	X							
-02	2	SB-1 (5'-6')	X	1			X					X		07-Feb-06	11:10	X	X	X	X							
-03	3	SB-1 (10'-11')	X	1			X					X		07-Feb-06	11:19	X	X	X	X							
-04	4	SB-1 (15'-16')	X	1			X					X		07-Feb-06	11:30	X	X	X	X							
-05	5	SB-1 (20'-21')	X	1			X					X		07-Feb-06	11:40	X	X	X	X							
-06	6	SB-1 (25'-26')	X	1			X					X		07-Feb-06	11:50	X	X	X	X							
-07	7	SB-1 (30'-31')	X	1			X					X		07-Feb-06	12:00	X	X	X	X							
-08	8	SB-2 (2'-3')	X	1			X					X		07-Feb-06	13:00	X	X	X	X							
-09	9	SB-2 (5'-6')	X	1			X					X		07-Feb-06	13:05	X	X	X	X							
-10	10	SB-2 (10'-11')	X	1			X					X		07-Feb-06	13:15	X	X	X	X							

Sampler Relinquished: Iain Olness	Date: 2/8/06 Time: 0500	Received By:	E-mail results to: iolness@envplus.net
Relinquished by:	Date: 2/8/06 Time: 11:10	Received By: (lab staff) Carrie Kelly	REMARKS: Analyze subsequent samples in each soil boring for each analyte until two successive samples are ND for organics and/or <250 mg/Kg for chlorides and/or <600 mg/Kg for sulfates. ANY QUESTIONS, PLEASE CALL IAIN OLNESS AT (505) 394-3481. **PLEASE READ!!!**
Delivered by:	Sample Cool & Intact: (Yes) No	Checked By: CK	seal / jar / label

5.0°C

Environmental Plus, Inc.

Chain of Custody Form

2100 Avenue O, Eunice, NM 88231 *P.O. Box 1558, Eunice, NM 88231*
(505) 394-3481 FAX: (505) 394-2601

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Chevron USA
Facility Name	West Lovington Unit #55
Location	UL-F, Sec. 08, T 17 S, R 36 E
Project Reference	200066
EPI Sampler Name	George Blackburn

Bill To

Attn: Iain Olness
PO Box 1558
Eunice, NM 88231

ANALYSIS REQUEST

LAB I.D.		SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	MATRIX: WASTEWATER	MATRIX: SOIL	MATRIX: CRUDE OIL	MATRIX: SLUDGE	MATRIX: OTHER:	PRESERV.: ACID/BASE	PRESERV.: ICE/COOL	PRESERV.: OTHER	SAMPLING: DATE	SAMPLING: TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>	PAH			
6B08017																									
-11	1	SB-2 (15'-16')	X	1			X					X		07-Feb-06	13:23	X	X	X	X							
-12	2	SB-3 (2'-3')	X	1			X					X		07-Feb-06	13:29	X	X	X	X							
-13	3	SB-3 (5'-6')	X	1			X					X		07-Feb-06	13:32	X	X	X	X							
-14	4	SB-3 (10'-11')	X	1			X					X		07-Feb-06	13:37	X	X	X	X							
-15	5	SB-4 (2'-3')	X	1			X					X		07-Feb-06	13:41	X	X	X	X							
-16	6	SB-4 (5'-6')	X	1			X					X		07-Feb-06	13:44	X	X	X	X							
-17	7	SB-4 (10'-11')	X	1			X					X		07-Feb-06	13:49	X	X	X	X							
	8																								
	9																								
	10																								

Sampler Relinquished: Iain Olness
Date: 7/8/06 Time: 0800
Received By:

Relinquished by:
Date: 7/8/06 Time: 11:10
Received By: (lab staff)

Delivered by:

Sample Cool & Intact: Yes / No
Checked By:

5.0 °C

E-mail results to: iolness@envplus.net

REMARKS: Analyze subsequent samples in each soil boring for each analyte until two successive samples are ND for organics and/or <250 mg/Kg for chlorides and/or <600 mg/Kg for sulfates. ANY QUESTIONS, PLEASE CALL IAIN OLNESS AT (505) 394-3481. **PLEASE READ!!!**

seal jar / label

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

Client: Highlander

Date/Time: 2/8/06 11:10

Order #: 602801 7

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	5.0 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

_____

_____

_____

Variance Documentation:

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

Regarding:

_____

_____

_____

Corrective Action Taken:

_____

_____

_____

_____

_____

_____

_____

_____

APPENDIX III

SOIL BORING LOGS

Log Of Test Borings

ENVIRONMENTAL PLUS, INC.
CONSULTING AND
REMEDIAL CONSTRUCTION
EUNICE, NEW MEXICO
505-394-3481

Project Number: 200066

Project Name: West Lovington Unit #55

Location: UL-G, Section 8, Township 17 South, Range 36 East

Boring Number: SB-1 | Surface Elevation: 3910-feet amsl

Start Date: 2-07-06 Time: 1100hrs

Completion Date: 2-07-06 Time: 1220hrs

Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	Chloride Analysis (mg/Kg)	U.S.C.S. Symbol	Depth (feet)	Description
1100	SS	12		.8	400			2' Rocky Brown Soil
1120	SS	12		0.7	160		5	5'Rocky Brown Sand
1129	SS	12		.4	320		10	10' Tan Sand
1140	SS	12		.4	400		15	15' Tan Sand
1150				.5	480		20	20' Tan sand
1200				.6	240		25	25' Tan Sand
1220				.4	200		30	30' Tan Sand
								End of Soil Boring at 32' bgs

Water Level Measurements (feet)

Date	Time	Sample Depth	Casing Depth	Cave-in Depth	Water Level
-	-	-	-	-	-
-	-	-	-	-	-

Drilling Method: HSA 3.5' ID

Backfill Method: Bentonite

Field Representative: GB

Log Of Test Borings

ENVIRONMENTAL PLUS, INC.
CONSULTING AND
REMEDIAL CONSTRUCTION
EUNICE, NEW MEXICO
505-394-3481

Project Number: 200066

Project Name: West Lovington Unit #55

Location: UL-G, Section 8, Township 17 South, Range 36 East

Boring Number: SB-2 | Surface Elevation: 3910-feet amsl

Start Date: 2-07-06 Time: 1300hrs

Completion Date: 2-07-06 Time: 1333hrs

Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	Chloride Analysis (mg/Kg)	U.S.C.S. Symbol	Depth (feet)	Description
1300	SS	12		.3	24			2' Rocky Brown Soil
1305	SS	12		.3	320		5	5' Tan Sand
1315	SS	12		.3	200		10	10' Tan Sand
1323	SS	12		.3	200		15	15' Tan Sand
								End of Soil Sample at 16'
							20	
							25	
							30	

Water Level Measurements (feet)

Date	Time	Sample Depth	Casing Depth	Cave-in Depth	Water Level
-	-	-	-	-	-
-	-	-	-	-	-

Drilling Method: HSA 3.5' ID

Backfill Method: Bentonite

Field Representative: GB

Log Of Test Borings

(NOTE - Page 1 of 1)

ENVIRONMENTAL PLUS, INC.
CONSULTING AND
REMEDIAL CONSTRUCTION
EUNICE, NEW MEXICO
505-394-3481

Project Number: 200066

Project Name: West Lovington Unit #55

Location: UL-G, Section 8, Township 17 South, Range 36 East

Boring Number: SB-3 | Surface Elevation: 3910-feet amsl

Start Date: 2-07-06 Time: 1329hrs

Completion Date: 2-07-06 Time: 1347hrs

Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	Chloride Analysis (mg/Kg)	U.S.C.S. Symbol	Depth (feet)	Description
1339	SS	12		.53	160		0	2' Rocky Brown Soil
1342	SS	12		.3	160		5	5' Tan Sand
1347	SS	12		.3	160		10	10' Tan Sand
								End of Soil Boring at 11' bgs
							15	
							20	
							25	
							30	

Water Level Measurements (feet)

Date	Time	Sample Depth	Casing Depth	Cave-in Depth	Water Level
-	-	-	-	-	-
-	-	-	-	-	-

Drilling Method: HSA 3.5' ID

Backfill Method: Bentonite

Field Representative: GB

Log Of Test Borings

(NOTE - Page 1 of 1)

ENVIRONMENTAL PLUS, INC.
CONSULTING AND
REMEDIAL CONSTRUCTION
EUNICE, NEW MEXICO
505-394-3481

Project Number: 200066

Project Name: West Lovington Unit #55

Location: UL-G, Section 8, Township 17 South, Range 36 East

Boring Number: SB-4 | Surface Elevation: 3910-feet amsl

Start Date: 2-07-06 Time: 1329hrs

Completion Date: 2-07-06 Time: 1347hrs

Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	Chloride Analysis (mg/Kg)	U.S.C.S. Symbol	Depth (feet)	Description
1351	SS	12		.2	160		0	2' Rocky Brown Soil
1354	SS	12		.4	160		5	5' Tan Sand
1359	SS	12		.2	160		10	10' Tan Sand
								End of Soil Boring at 11' bgs
							15	
							20	
							25	
							30	

Water Level Measurements (feet)

Date	Time	Sample Depth	Casing Depth	Cave-in Depth	Water Level
-	-	-	-	-	-
-	-	-	-	-	-

Drilling Method: HSA 3.5' ID

Backfill Method: Bentonite

Field Representative: GB

APPENDIX IV

INFORMATION AND METRICS FORM
INITIAL NMOCD FORM C-141
FINAL NMOCD FORM C-141

Chevron **Information and Metrics**	**Incident Date:** Unknown	**NMOCD Notified:** Unknown

Site: West Lovington Unit #55	**Assigned Site Reference :** #200066
Company: Chevron USA, Inc.	
Street Address:	
Mailing Address: P.O. Box 1949	
City, State, Zip: Eunice, New Mexico 88231	
Representative: Larry Williams	
Representative Telephone:	
Telephone:	
Fluid volume released (bbls): unknown	**Recovered (bbls):** none
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)	
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)	
Leak, Spill, or Pit (LSP) Name: West Lovington Unit #55	
Source of contamination: Injection Well	
Land Owner, i.e., BLM, ST, Fee, Other: Darr Angell	
LSP Dimensions: Unknown	
LSP Area: ~3,130 ft^2	
Location of Reference Point (RP):	
Location distance and direction from RP:	
Latitude: N 32° 52' 36.83"	
Longitude: W 103° 17' 19.47"	
Elevation above mean sea level: 3,895feet	
Feet from South Section Line:	
Feet from East Section Line:	
Location- Unit or ¼¼: SW¼ of the NE¼	**Unit Letter:** F
Location- Section: 8	
Location- Township: 17 South	
Location- Range: 36 East	
Surface water body within 1000 ' radius of site: none	
Domestic water wells within 1000' radius of site: none	
Agricultural water wells within 1000' radius of site: one	
Public water supply wells within 1000' radius of site: none	
Depth from land surface to groundwater (DG): ~50 feet	
Depth of contamination (DC): unknown	
Depth to groundwater (DG – DC = DtGW): ~50 feet	

1. Groundwater	2. Wellhead Protection Area	3. Distance to Surface Water Body
If Depth to GW <50 feet: *20 points*	If <1000' from water source, or;<200' from private domestic water source: *20 points*	<200 horizontal feet: *20 points*
If Depth to GW 50 to 99 feet: *10 points*		200-1000 horizontal feet: *10 points*
If Depth to GW >100 feet: *0 points*	If >1000' from water source, or; >200' from private domestic water source: *0 points*	>1000 horizontal feet: *0 points*
Site Rank (1+2+3) =10+20+0=30		

Total Site Ranking Score and Acceptable Concentrations

Parameter	>19	10-19	0-9
Benzene[1]	10 ppm	10 ppm	10 ppm
BTEX[1]	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1,000 ppm	5,000 ppm

[1]100 ppm field VOC headspace measurement may be substituted for lab analysis

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR ☒ Initial Report ☐ Final Report

Name of Company: Chevron	**Contact:** Larry Williams
Address: P.O. Box 1949 Eunice, NM 88231	**Telephone No.:**
Facility Name: West Lovington 55	**Facility Type:** Injection well

Surface Owner: State of New Mexico	**Mineral Owner:** State of New Mexico	**API No.:** 30-025-05360

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	8	17S	36E					Lea

Latitude: N 32° 51' 04.38" **Longitude:** W 103° 22' 44.66"

NATURE OF RELEASE

Type of Release: produced water	**Volume of Release:** Unknown	**Volume Recovered:** none
Source of Release: Injection well	**Date and Hour of Occurrence:** Unknown	**Date and Hour of Discovery:** Unknown
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	**If YES, To Whom?** Pat Caperton, NMOCD	
By Whom?	**Date and Hour:** Unknown	
Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse:** Not Applicable	

If a Watercourse was Impacted, Describe Fully.* Not Applicable

Depth to Groundwater: ~50 feet

Describe Cause of Problem and Remedial Action Taken.* An unknown amount of produced water was released when a flow-line failed. Zero (0) barrels of fluid were recovered. Upon discovery of the release, Chevron contacted EPI for remediation activities. EPI was on-site and did remedial work on the spill on/or around January 31, 2006. Impacted material transported to CRI for disposal.

Describe Area Affected and Cleanup Action Taken.* Approximately 3,130 square feet of surface area was affected by the release.

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: Larry Williams	OIL CONSERVATION DIVISION	
Printed Name: Larry Williams	**Approved by District Supervisor:**	
Title: HES Champion	**Approval Date:**	**Expiration Date:**
E-mail Address: larry.williams@chevron.com	**Conditions of Approval:**	**Attached** ☐
Date: 11-28-2005 **Phone:** 505-396-4414 ex 128		

*** Attach Additional Sheets If Necessary**

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Received Hobbs OCD APR 2007

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	**Contact:** Larry Williams
Address: P.O. Box 1949 Eunice, NM 88231	**Telephone No.:**
Facility Name: West Lovington 55	**Facility Type:** Injection well

Surface Owner: Darr Angell	**Mineral Owner:** State of New Mexico	**API No.:**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	8	17S	36E					Lea

Latitude: N 32° 51' 04.38" **Longitude:** W 103° 22' 44.66"

NATURE OF RELEASE

1226

Type of Release: Produced water	**Volume of Release:** Unknown	**Volume Recovered:** None
Source of Release: Injection well	**Date and Hour of Occurrence:** Unknown	**Date and Hour of Discovery:** Unknown
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	**If YES, To Whom?** Pat Caperton, NMOCD	
By Whom?	**Date and Hour:** Unknown	
Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse:** Not Applicable	

If a Watercourse was Impacted, Describe Fully.* Not Applicable

Depth to Groundwater: ~50 feet

Describe Cause of Problem and Remedial Action Taken.* An unknown amount of produced water was released when a flow-line failed. Zero (0) barrels of fluid were recovered. Excavation and disposal of impacted soil was completed by another contractor.

Describe Area Affected and Cleanup Action Taken.* Approximately 3,130 square feet of surface area was affected by the release. On February 7, 2006 EPI was on-site and four (4) soil borings were advanced throughout the release area to delineate vertical extent of impacted soil. Upon receipt of Soil Boring Soil Sample Laboratory Analytical Data confirming excavation of most soil impacted above NMOCD remedial threshold goals, EPI backfilled the excavation with approximately 14 yds^3 of caliche and 84 yds^3 of top-soil. The entire disturbed area was graded and contoured for natural drainage and will be seeded with a blend preferred by the property owner.

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: Larry Williams	OIL CONSERVATION DIVISION
Printed Name: Larry Williams	**Approved by District Supervisor:** ENVIR ENGR
Title: HES Champion	**Approval Date:** 4.20.07 **Expiration Date:** —
E-mail Address: larry.williams@chevron.com	**Conditions of Approval:** — **Attached** ☐
Date: 4-19-2007 **Phone:** 505-396-4414 ex. 128	

*** Attach Additional Sheets If Necessary**