

1R - 431

REPORTS

DATE:

3-21-07



Highlander Environmental Corp.

Midland, Texas

March 21, 2007

Mr. Edward Hansen
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

2007 APR 19 AM 10

Re: 2006 Annual Summary Report for the Gruy Petroleum Management Company, Riddle State #1 Well, Located in Unit Letter B, Section 1, Township 22 South, Range 34 East, Lea County New Mexico (OCD Case #1R0431).

Dear Mr. Hansen:

This report details the results of the quarterly sampling events and recovery well operations performed in 2006 at the Gruy Petroleum Management Riddle State #1 well location in Lea County, New Mexico (Site) located in Unit Letter B, Section 1, Township 22 South, Range 34 East. The Site is shown on Figure 1.

Background

The Riddle State #1 well, originally drilled by Matador, is temporarily abandoned. Prior to the well completion, it was sold to Tom Brown, Inc. and eventually to Gruy. The well was drilled prior to the implementation of the New Mexico Oil Conservation Division (NMOCD) Pit and Below Grade Tank Guidelines, issued November 1, 2004. According to information provided to Highlander, the reserve pit contents were planned to be buried in trenches located on the east and west ends of the reserve pit.

In January 2005, Environmental Plus, Inc (EPI) of Eunice, New Mexico installed auger holes and one borehole in and around the reserve pit and trenches. The auger holes indicated chloride impact to the west trench and reserve pit area. The borehole was installed outside the southwest end of the reserve pit. The borehole data showed increasing chloride concentrations with depth and was converted to a temporary monitor well (TMW-1). The reported depth to water was 45' below ground surface (bgs). Samples taken from the monitor well indicated chloride impact to the groundwater. The temporary monitor well location is shown on Figure 2.

EPI submitted a "Written notification of groundwater impact and preliminary groundwater delineation plan", dated January 21, 2005. Three (3) permanent monitor wells were proposed for the

site to establish hydraulic gradient and delineate groundwater impact. Soil sampling performed by EPI indicated that the only constituent of concern was chloride, as TPH and BTEX concentrations were not detected at or above the method detection limits.

A risk-based evaluation was performed for the Site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene and xylene). Based on the regional groundwater data, the proposed RRAL for TPH is 100 mg/kg.

On March 22-23, 2005, a total of eight (8) soil borings were placed in the bottom of the reserve pit and west trench to delineate residual chloride impact to subsurface soils. Soil borings indicated that the pit contents had been removed down to native soils. Soil samples were analyzed for chloride by method EPA 300.0. The data was submitted to the NMOCD in a work plan dated May 2, 2005.

Based on the soils assessment, subsurface chloride impact appeared to have migrated to groundwater and appeared to be confined to the immediate vicinity of the reserve pit. Highlander personnel supervised the removal of the reserve pit contents down to native soil. A total of 4,710 yds³ of material was removed and hauled to Controlled Recovery, Inc. for disposal.

A 40 mil thickness liner was placed into the excavation order to adequately encapsulate residual chloride impact. The cap area measured approximately 100' x 170'. The remainder of the excavation was backfilled with clean topsoil.

Three monitor wells (MW-1, MW-2 and MW-3) were installed around the reserve pit. The temporary monitor well was plugged. On September 1, 2005, Highlander supervised the installation of a 6" recovery well (RW-1) fitted with a solar submersible pump system.

Monitor, Recovery Well Sampling

On March 27, 2006, June 8, 2006, September 21, 2006 and December 14, 2006, Highlander purged three casing volumes from the three monitor wells and the Recovery well (except for the December sampling due to the recovery pump being down for service) using a submersible pump. The recovery well was sampled on January 15, 2007. Groundwater samples were collected and analyzed for BTEX by method EPA 8021B and chloride by methods EPA 300.0. All samples were delivered to the laboratory under chain of custody control. Prior to sampling, the wells were gauged and inspected for the presence of phase-separated hydrocarbons (PSH). No PSH was encountered in the wells. The laboratory reports and chain of custody are included in Appendix A. The results are summarized in Table 2.



Using the water level data, potentiometric surface maps were prepared, which indicate a south-southwest hydraulic gradient. Water level elevations are summarized in Table 1. The potentiometric surface maps are included as Figures 3-6.

Groundwater Sample Results

Referring to Table 2, no BTEX concentrations were detected at or above the reporting limits for any of the samples. The New Mexico Water Quality Control Commission (WQCC) limit of 250 mg/L chloride was exceeded only in the recovery well, RW-1, with chloride concentrations ranging from 17,700 to 23,400 mg/L.

Recovery Well Operation

The recovery well operated throughout 2006, with the exception of December, when the pump went down and had to be replaced. In order to boost production from the recovery well, a battery array was installed in late June to allow for more operational time on the recovery pump. The monthly pumping volumes were increased in July, 2006 to nearly double the previous levels. A total recorded volume of 407,000 gallons of water was produced out of the recovery well and placed into an adjoining tank for use as supply water for drilling operations. Monthly production volumes are summarized in Table 3.

Conclusions

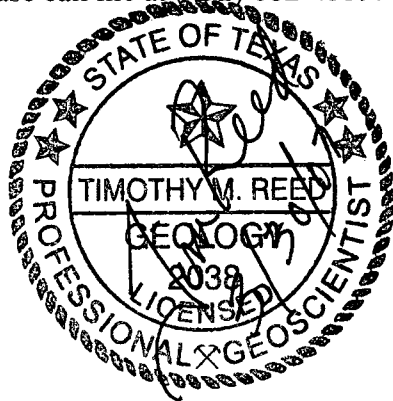
1. No BTEX concentrations were detected at or above the reporting limits for any of the groundwater samples. The New Mexico Water Quality Control Commission (WQCC) limit of 250 mg/L chloride was exceeded only in the recovery well, RW-1, with chloride concentrations ranging from 17,700 mg/L to 23,400 mg/L.
2. A total recorded volume of 407,000 gallons of water was produced out of the recovery well and placed into an adjoining tank for use as supply water for drilling operations. The monthly pumping volumes were increased in July, 2006 to nearly double the previous levels.

Recommendations

1. The recovery well will continue to be operated within the parameters of the issued permit for remediation and drilling water purposes.
2. The three monitor wells, as well as the recovery well will be sampled on a quarterly basis for chloride, with the results submitted annually. As neither the soil sampling nor groundwater sampling has indicated any BTEX Constituents of Concern (COC), BTEX sampling will be discontinued unless advised otherwise by the NMOCD.



If you have any question or comments concerning the assessment or the activities performed at the Site, please call me at (432) 682-4559.



Respectfully submitted,
Highlander Environmental Corp.

A handwritten signature in cursive script that reads "Tim Reed".

Timothy M. Reed, P.G.
Vice President

cc: Larry Johnson – NMOCD, Hobbs, NM
Evan Wahob - Gruy
Bob Jennings – Gruy



TABLES

Table 1
 Gruy Petroleum
 Riddle State #1
 Summary of Groundwater Elevations and PSH Thicknesses
 Lea County, New Mexico

Well/ Borehole ID	Date Measurement	Well Total Depth (ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Top of Casing Elevation, feet AMSL	Groundwater Elevation (ft)
MW-1	03/27/06	-	-	49.93	0	3611.48	3561.55
	06/08/06	-	-	50.00	0	3611.48	3561.48
	09/21/06	-	-	50.13	0	3611.48	3561.35
	12/14/06	-	-	50.10	0	3611.48	3561.38
MW-2	03/27/06	-	-	40.44	0	3600.52	3188.95
	06/08/06	-	-	40.61	0	3600.52	3189.09
	09/21/06	-	-	40.70	0	3600.52	3559.82
	12/14/06	-	-	40.65	0	3600.52	3559.87
MW-3	03/27/06	-	-	44.80	0	3605.11	3188.45
	06/08/06	-	-	44.92	0	3605.11	3188.50
	09/21/06	-	-	44.94	0	3605.11	3560.17
	12/14/06	-	-	44.96	0	3605.11	3560.15

(-) No data (TOC) Top of casing

Table 2, Monitor Wells
Gruy Petroleum Management Co.
Riddle State #1
Lea County, NM

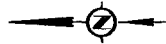
Sample ID	Date Sampled	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylene (mg/l)	Total Alkalinity (mg/l)	Chloride (mg/l)	TDS (mg/l)	Sulfate (mg/l)
MW-1	03/30/05	ND	ND	ND	ND	149	31.8	260	40.4
	06/20/05	ND	ND	ND	ND	-	17.0	257	28.1
	09/14/05	ND	ND	ND	ND	-	9.0	-	-
	12/15/05	ND	ND	ND	ND	-	10.6	-	-
	03/27/06	ND	ND	ND	ND	-	10.0	-	-
	06/08/06	ND	ND	ND	ND	-	18.4	-	-
	09/21/06	ND	ND	ND	ND	-	14.0	-	-
MW-2	12/14/06	ND	ND	ND	ND	-	11.0	-	-
	03/30/05	ND	ND	ND	ND	170	50.8	330	81.2
	06/20/05	ND	ND	ND	ND	-	39.7	350	54.6
	09/14/05	ND	ND	ND	ND	-	34.5	-	-
	12/15/05	ND	ND	ND	ND	-	19.6	-	-
	03/27/06	ND	ND	ND	ND	-	17.1	-	-
	06/08/06	ND	ND	ND	ND	-	26.1	-	-
MW-3	09/21/06	ND	ND	ND	ND	-	39.6	-	-
	12/14/06	ND	ND	ND	ND	-	22.6	-	-
	03/30/05	ND	ND	ND	ND	169	65.8	422	93.6
	06/20/05	ND	ND	ND	ND	-	57.0	419	85.7
	09/14/05	ND	ND	ND	ND	-	42.6	-	-
	12/15/05	ND	ND	ND	ND	-	54.2	-	-
	03/27/06	ND	ND	ND	ND	-	55.4	-	-
TMW-1	06/08/06	ND	ND	ND	ND	-	60.6	-	-
	09/21/06	ND	ND	ND	ND	-	78.0	-	-
	12/14/06	ND	ND	ND	ND	-	81.3	-	-
	03/30/05	ND	ND	ND	ND	266	14200	24500	3490
	09/14/05	ND	ND	ND	ND	-	21200	-	-
	12/15/05	ND	ND	ND	ND	-	18800	-	-
	03/27/06	ND	ND	ND	ND	-	21700	-	-
RW-1	06/08/06	ND	ND	ND	ND	-	17700	-	-
	09/21/06	ND	ND	ND	ND	-	23400	-	-
	01/15/07	ND	ND	ND	ND	-	19000	-	-

(-) Not analyzed ND Not detected at or above the reporting limit

Table 3
 Gruy Petroleum
 Riddle State #1
 Total Liquids Recovered From RW-1
 Lea County, New Mexico

Date	Gallons Recovered
January-06	27,085
February-06	16,993
March-06	19,766
April-06	27,085
May-06	31,936
June-06	26,885
July-06	50,266
August-06	59,004
September-06	50,338
October-06	47,423
November-06	50,241
December-06	0
January-07	41,103
February-07	15,216
Total Recovered	463,341

FIGURES



MW #1

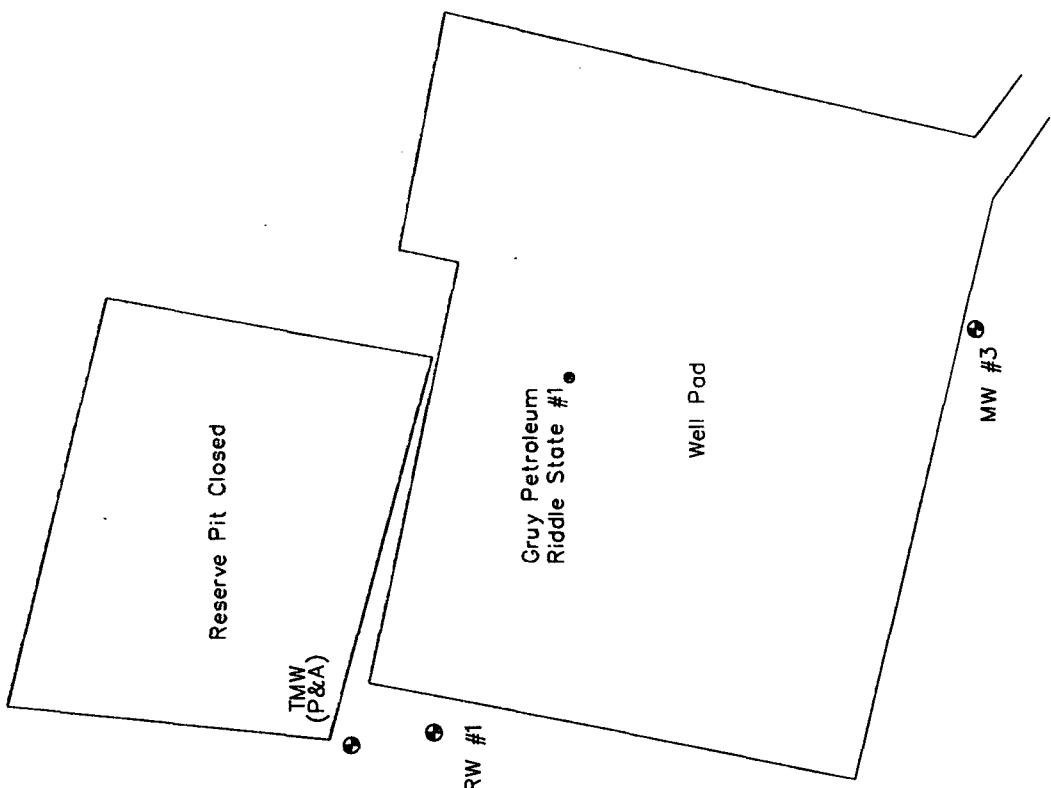


FIGURE NO. 2

LEA COUNTY, NEW MEXICO
GRUY PETROLEUM RIDDLE STATE #1 SITE MAP
HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS

DATE: 3/27/07	DWN. BY: JJ	FILE: C:\VMS\GRUY\321 RIDDLE STATE SITE MAP
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NOT TO SCALE

MW #1
3,561.55

3,561.50

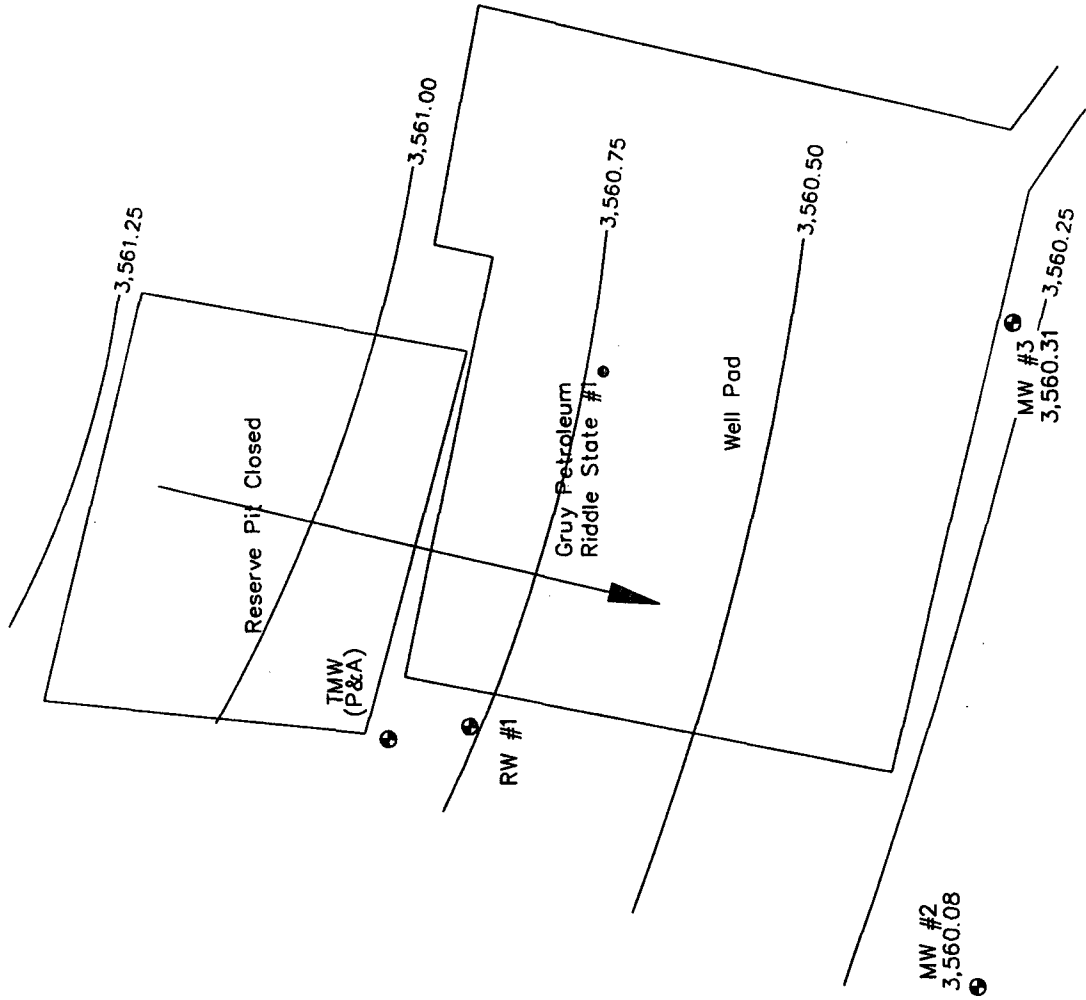


FIGURE NO. 3

LEA COUNTY, NEW MEXICO

GRUY PETROLEUM
RIDDLE STATE #1
GROUNDWATER GRADIENT MAP 3/27/06

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE:
3/27/07

DRAWN BY:
JJ

FILE:
C:\FILES\Gruy\221
RIDDLE STATE SITE MAP

NOT TO SCALE



MW #1
3,561.48

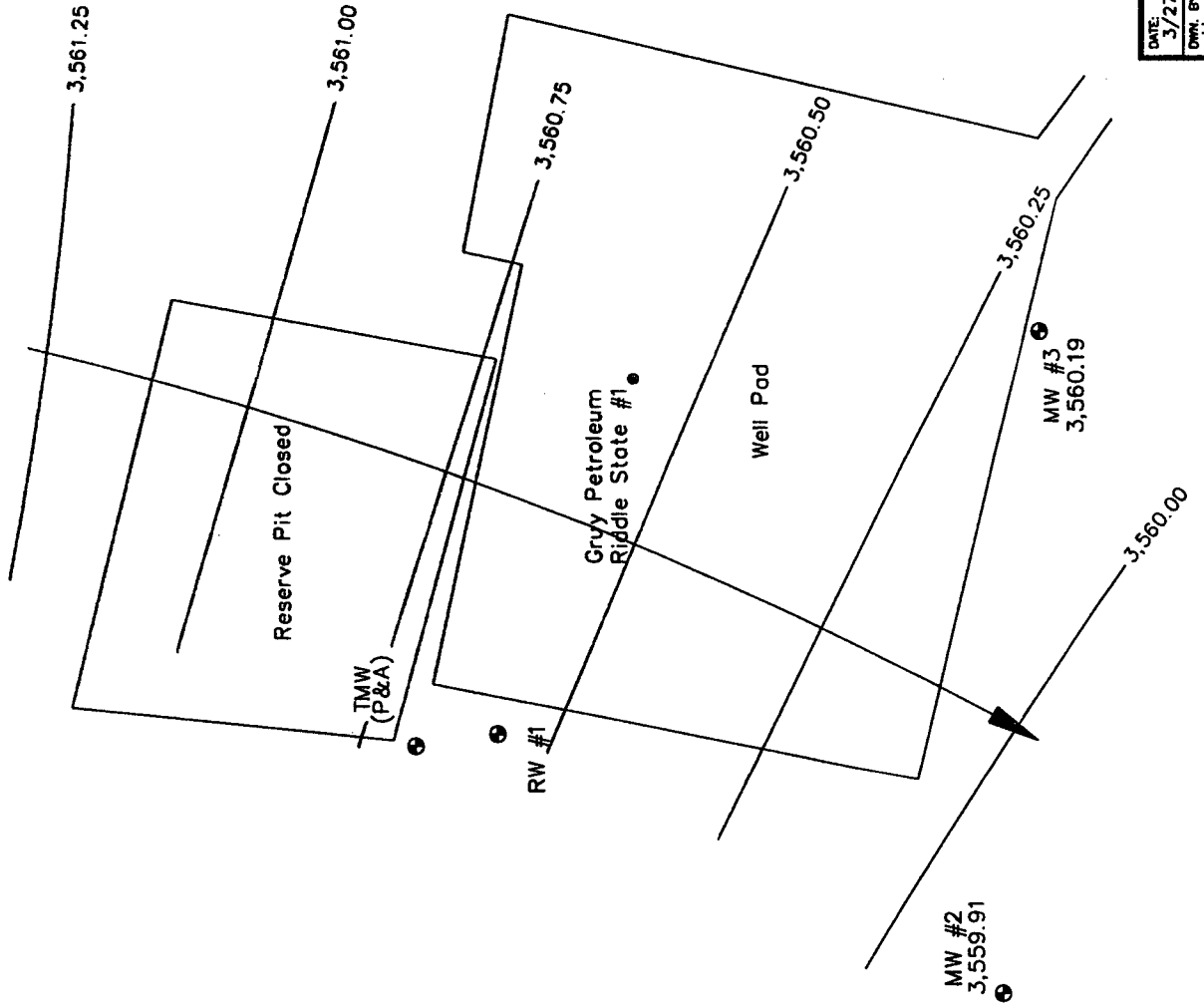


FIGURE NO. 4

LEA COUNTY, NEW MEXICO

GRUY PETROLEUM
RIDDLE STATE #1
GROUNDWATER GRADIENT MAP 6/8/08
HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE:
3/27/07

DWN. BY:
JJ

FILE:
08041321
RIDDLE STATE SITE MAP

NOT TO SCALE



MW #1
3,561.35

3,561.25

3,561.00

Reserve Pit Closed

TMW
(P&A)

RW #1

3,560.75

Gray Petroleum
Riddle State #1

Well Pad

3,560.30

3,560.25

MW #3
3,560.17

3,560.00

MW #2
3,559.82

FIGURE NO. 5

LEA COUNTY, NEW MEXICO

GRUY PETROLEUM
RIDDLE STATE #1
GROUNDWATER GRADIENT MAP 9/21/08
HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE: 3/27/07
DRAWN BY: JJ
FILE: C:\ENVI\GMAP\GMAP108\GMAP108.DWG

NOT TO SCALE



MW #1
3,561.38

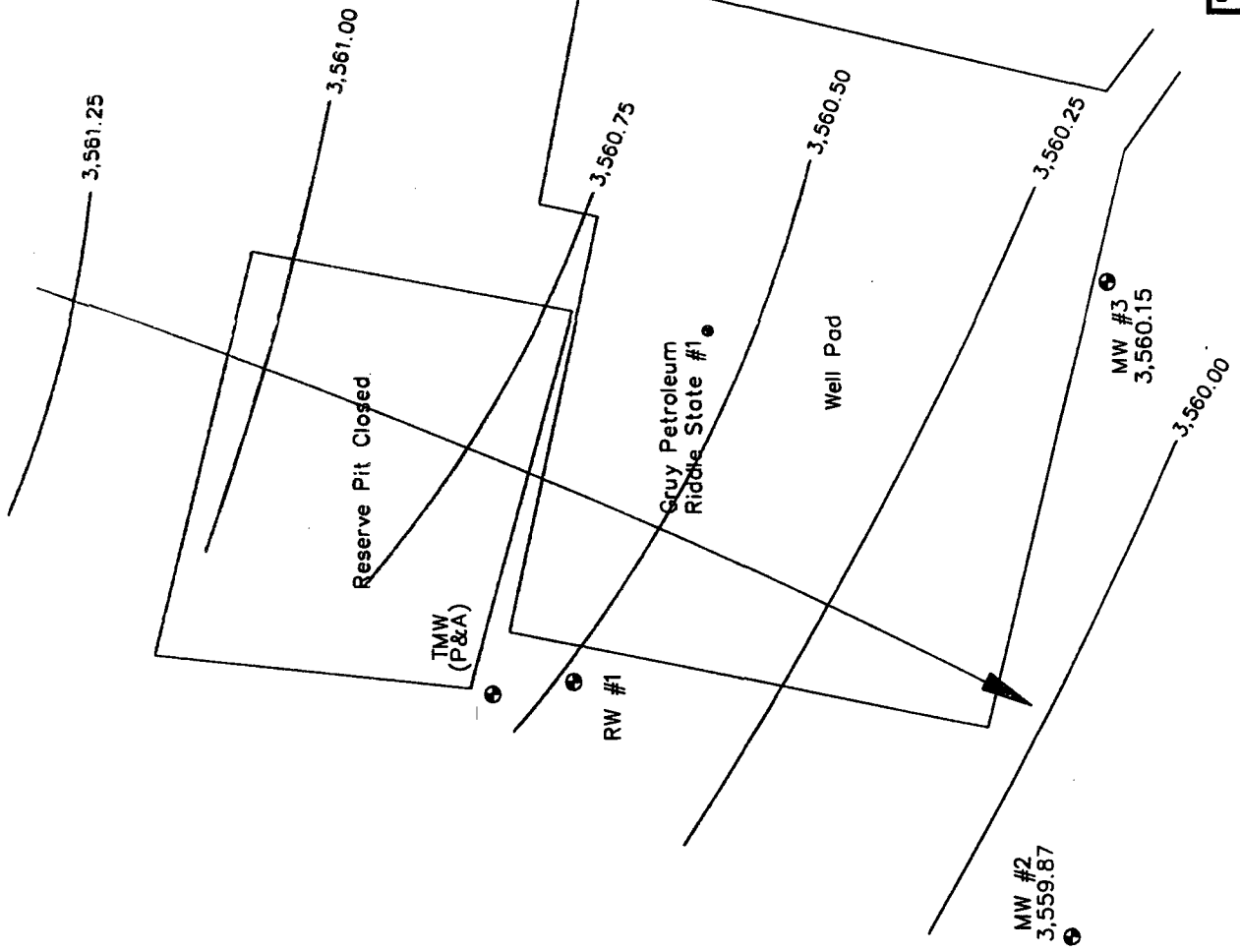


FIGURE NO. 6

LEA COUNTY, NEW MEXICO

GRUY PETROLEUM
RIDDLE STATE #1

GROUNDWATER GRADIENT MAP 12/14/08

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE
3/27/07

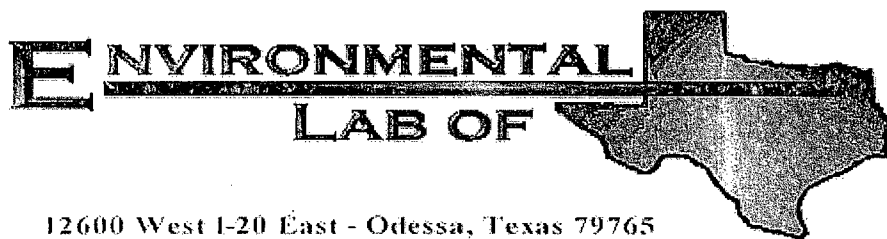
DWN. BY:
JJ

FILE
C:\GEM\GEM331
RIDDLE STATE DTL MAP

NOT TO SCALE

APPENDIX A
LABORATORY REPORTS

March 27, 2006



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Gruy Petroleum/ Riddle State #1

Project Number: 2321

Location: Lea County, NM

Lab Order Number: 6C29010

Report Date: 04/05/06

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946
Reported:
04/05/06 12:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6C29010-01	Water	03/27/06 10:30	03/29/06 14:50
MW-2	6C29010-02	Water	03/27/06 11:15	03/29/06 14:50
MW-3	6C29010-03	Water	03/27/06 12:00	03/29/06 14:50
RW-1	6C29010-04	Water	03/27/06 09:30	03/29/06 14:50

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1.
Project Number: 2321
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Reported:
04/05/06 12:03

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6C29010-01) Water									
Benzene	ND	0.00100	mg/L	1	EC63016	03/30/06	03/31/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		97.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.5 %	80-120		"	"	"	"	

MW-2 (6C29010-02) Water

Benzene	ND	0.00100	mg/L	1	EC63016	03/30/06	03/31/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		108 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.0 %	80-120		"	"	"	"	

MW-3 (6C29010-03) Water

Benzene	ND	0.00100	mg/L	1	ED60305	04/03/06	04/03/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		101 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.2 %	80-120		"	"	"	"	

RW-1 (6C29010-04) Water

Benzene	ND	0.00100	mg/L	1	ED60305	04/03/06	04/03/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		100 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	80-120		"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946
Reported:
04/05/06 12:03

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6C29010-01) Water									
Chloride	10.0	2.50	mg/L	5	ED60306	03/31/06	04/03/06	EPA 300.0	
MW-2 (6C29010-02) Water									
Chloride	17.1	2.50	mg/L	5	ED60306	03/31/06	04/03/06	EPA 300.0	
MW-3 (6C29010-03) Water									
Chloride	55.4	5.00	mg/L	10	ED60306	03/31/06	04/03/06	EPA 300.0	
RW-1 (6C29010-04) Water									
Chloride	21700	250	mg/L	500	ED60306	03/31/06	04/03/06	EPA 300.0	

Environmental Lab of Texas

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gray Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Reported:
04/05/06 12:03

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
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Batch EC63016 - EPA 5030C (GC)

Blank (EC63016-BLK1)

Prepared & Analyzed: 03/30/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	33.8		ug/l	40.0		84.5	80-120			
Surrogate: 4-Bromofluorobenzene	38.6		"	40.0		96.5	80-120			

LCS (EC63016-BS1)

Prepared & Analyzed: 03/30/06

Benzene	0.0405	0.00100	mg/L	0.0500		81.0	80-120			
Toluene	0.0441	0.00100	"	0.0500		88.2	80-120			
Ethylbenzene	0.0593	0.00100	"	0.0500		119	80-120			
Xylene (p/m)	0.102	0.00100	"	0.100		102	80-120			
Xylene (o)	0.0499	0.00100	"	0.0500		99.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.4		ug/l	40.0		86.0	80-120			
Surrogate: 4-Bromofluorobenzene	39.8		"	40.0		99.5	80-120			

Calibration Check (EC63016-CCV1)

Prepared: 03/30/06 Analyzed: 03/31/06

Benzene	45.1		ug/l	50.0		90.2	80-120			
Toluene	41.8		"	50.0		83.6	80-120			
Ethylbenzene	46.8		"	50.0		93.6	80-120			
Xylene (p/m)	95.9		"	100		95.9	80-120			
Xylene (o)	47.5		"	50.0		95.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.7		"	40.0		99.2	80-120			
Surrogate: 4-Bromofluorobenzene	35.1		"	40.0		87.8	80-120			

Matrix Spike (EC63016-MS1)

Source: 6C24010-02

Prepared: 03/30/06 Analyzed: 03/31/06

Benzene	0.0450	0.00100	mg/L	0.0500	ND	90.0	80-120			
Toluene	0.0429	0.00100	"	0.0500	ND	85.8	80-120			
Ethylbenzene	0.0491	0.00100	"	0.0500	ND	98.2	80-120			
Xylene (p/m)	0.0999	0.00100	"	0.100	ND	99.9	80-120			
Xylene (o)	0.0492	0.00100	"	0.0500	ND	98.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.1		ug/l	40.0		87.8	80-120			
Surrogate: 4-Bromofluorobenzene	36.9		"	40.0		92.2	80-120			

Environmental Lab of Texas

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Reported:
04/05/06 12:03

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
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Batch EC63016 - EPA 5030C (GC)

Matrix Spike Dup (EC63016-MSD1)

Source: 6C24010-02

Prepared: 03/30/06 Analyzed: 03/31/06

Benzene	0.0433	0.00100	mg/L	0.0500	ND	86.6	80-120	3.85	20	
Toluene	0.0415	0.00100	"	0.0500	ND	83.0	80-120	3.32	20	
Ethylbenzene	0.0475	0.00100	"	0.0500	ND	95.0	80-120	3.31	20	
Xylene (p/m)	0.0971	0.00100	"	0.100	ND	97.1	80-120	2.84	20	
Xylene (o)	0.0475	0.00100	"	0.0500	ND	95.0	80-120	3.52	20	
Surrogate: a,a,a-Trifluorotoluene	43.1		ug/l	40.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	34.5		"	40.0		86.2	80-120			

Batch ED60305 - EPA 5030C (GC)

Blank (ED60305-BLK1)

Prepared & Analyzed: 04/03/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	42.0		ug/l	40.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	37.4		"	40.0		93.5	80-120			

LCS (ED60305-BS1)

Prepared & Analyzed: 04/03/06

Benzene	0.0451	0.00100	mg/L	0.0500		90.2	80-120			
Toluene	0.0435	0.00100	"	0.0500		87.0	80-120			
Ethylbenzene	0.0584	0.00100	"	0.0500		117	80-120			
Xylene (p/m)	0.101	0.00100	"	0.100		101	80-120			
Xylene (o)	0.0498	0.00100	"	0.0500		99.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	43.5		ug/l	40.0		109	80-120			
Surrogate: 4-Bromofluorobenzene	46.2		"	40.0		116	80-120			

Environmental Lab of Texas

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
04/05/06 12:03

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
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Batch ED60305 - EPA 5030C (GC)

Calibration Check (ED60305-CCV1)

Prepared: 04/03/06 Analyzed: 04/04/06

Benzene	43.0		ug/l	50.0		86.0	80-120			
Toluene	40.2		"	50.0		80.4	80-120			
Ethylbenzene	44.6		"	50.0		89.2	80-120			
Xylene (p/m)	90.6		"	100		90.6	80-120			
Xylene (o)	45.4		"	50.0		90.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.0		"	40.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	38.5		"	40.0		96.2	80-120			

Matrix Spike (ED60305-MS1)

Source: 6C29010-03

Prepared: 04/03/06 Analyzed: 04/04/06

Benzene	0.0435	0.00100	mg/L	0.0500	ND	87.0	80-120			
Toluene	0.0418	0.00100	"	0.0500	ND	83.6	80-120			
Ethylbenzene	0.0573	0.00100	"	0.0500	ND	115	80-120			
Xylene (p/m)	0.0983	0.00100	"	0.100	ND	98.3	80-120			
Xylene (o)	0.0469	0.00100	"	0.0500	ND	93.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.9		ug/l	40.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	40.4		"	40.0		101	80-120			

Matrix Spike Dup (ED60305-MSD1)

Source: 6C29010-03

Prepared: 04/03/06 Analyzed: 04/04/06

Benzene	0.0420	0.00100	mg/L	0.0500	ND	84.0	80-120	3.51	20	
Toluene	0.0413	0.00100	"	0.0500	ND	82.6	80-120	1.20	20	
Ethylbenzene	0.0562	0.00100	"	0.0500	ND	112	80-120	2.64	20	
Xylene (p/m)	0.0968	0.00100	"	0.100	ND	96.8	80-120	1.54	20	
Xylene (o)	0.0465	0.00100	"	0.0500	ND	93.0	80-120	0.857	20	
Surrogate: a,a,a-Trifluorotoluene	40.8		ug/l	40.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	38.0		"	40.0		95.0	80-120			

Environmental Lab of Texas

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Ike Tavaraz

Fax: (432) 682-3946

Reported:
04/05/06 12:03

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch ED60306 - General Preparation (WetChem)

Blank (ED60306-BLK1)

Prepared & Analyzed: 04/03/06

Chloride	ND	0.500	mg/L							
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LCS (ED60306-BS1)

Prepared & Analyzed: 04/03/06

Chloride	8.69		mg/L	10.0		86.9	80-120			
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Calibration Check (ED60306-CCV1)

Prepared & Analyzed: 04/03/06

Chloride	9.04		mg/L	10.0		90.4	80-120			
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Duplicate (ED60306-DUP1)

Source: 6C29006-01

Prepared & Analyzed: 04/03/06

Chloride	570	10.0	mg/L		564			1.06	20	
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Environmental Lab of Texas

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

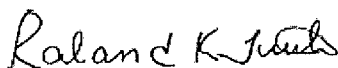
Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946
Reported:
04/05/06 12:03

Notes and Definitions

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:



Date: 4/5/2006

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.

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Environmental Lab of Texas

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

Client: Highlander
 Date/Time: 3/29/06 2:50
 Order #: 6029010
 Initials: CLL

Sample Receipt Checklist

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

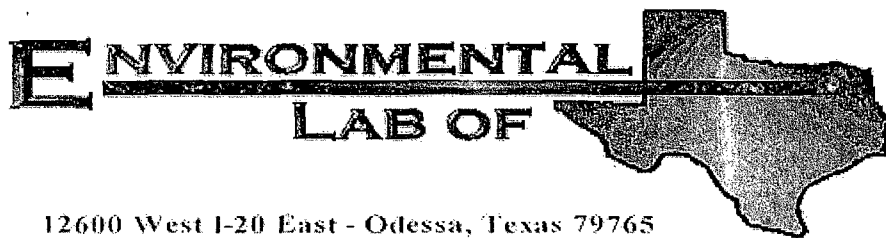
Other observations:

Variance Documentation:

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

Corrective Action Taken:

June 8, 2006



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavaréz

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Gruy Petroleum/ Riddle State #1

Project Number: 2321

Location: Lea County, NM

Lab Order Number: 6F12010

Report Date: 06/14/06

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6F12010-01	Water	06/08/06 09:10	06/09/06 17:10
MW-2	6F12010-02	Water	06/08/06 09:45	06/09/06 17:10
MW-3	6F12010-03	Water	06/08/06 10:15	06/09/06 17:10
RW-1	6F12010-04	Water	06/08/06 10:45	06/09/06 17:10

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6F12010-01) Water									
Benzene	ND	0.00100	mg/L	1	EF61212	06/12/06	06/13/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.0 %	80-120		"	"	"	"	

MW-2 (6F12010-02) Water

Benzene	ND	0.00100	mg/L	1	EF61212	06/12/06	06/13/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		82.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	80-120		"	"	"	"	

MW-3 (6F12010-03) Water

Benzene	ND	0.00100	mg/L	1	EF61212	06/12/06	06/13/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %	80-120		"	"	"	"	

RW-1 (6F12010-04) Water

Benzene	ND	0.00100	mg/L	1	EF61212	06/12/06	06/13/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		82.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6F12010-01) Water									
Chloride	18.4	5.00	mg/L	10	EF61221	06/12/06	06/12/06	EPA 300.0	
MW-2 (6F12010-02) Water									
Chloride	26.1	5.00	mg/L	10	EF61221	06/12/06	06/12/06	EPA 300.0	
MW-3 (6F12010-03) Water									
Chloride	60.6	5.00	mg/L	10	EF61221	06/12/06	06/12/06	EPA 300.0	
RW-1 (6F12010-04) Water									
Chloride	17700	1250	mg/L	2500	EF61221	06/12/06	06/12/06	EPA 300.0	

Environmental Lab of Texas

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Batch EF61212 - EPA 5030C (GC)								
Blank (EF61212-BLK1)								
Prepared: 06/12/06 Analyzed: 06/13/06								
Benzene	ND	0.00100	mg/L					
Toluene	ND	0.00100	"					
Ethylbenzene	ND	0.00100	"					
Xylene (p/m)	ND	0.00100	"					
Xylene (o)	ND	0.00100	"					
Surrogate: a,a,a-Trifluorotoluene	39.2		ug/l	40.0		98.0	80-120	
Surrogate: 4-Bromofluorobenzene	37.7		"	40.0		94.2	80-120	
LCS (EF61212-BS1)								
Prepared: 06/12/06 Analyzed: 06/13/06								
Benzene	0.0499	0.00100	mg/L	0.0500		99.8	80-120	
Toluene	0.0492	0.00100	"	0.0500		98.4	80-120	
Ethylbenzene	0.0455	0.00100	"	0.0500		91.0	80-120	
Xylene (p/m)	0.101	0.00100	"	0.100		101	80-120	
Xylene (o)	0.0537	0.00100	"	0.0500		107	80-120	
Surrogate: a,a,a-Trifluorotoluene	41.7		ug/l	40.0		104	80-120	
Surrogate: 4-Bromofluorobenzene	41.2		"	40.0		103	80-120	
Calibration Check (EF61212-CCV1)								
Prepared: 06/12/06 Analyzed: 06/13/06								
Benzene	45.0		ug/l	50.0		90.0	80-120	
Toluene	48.0		"	50.0		96.0	80-120	
Ethylbenzene	54.7		"	50.0		109	80-120	
Xylene (p/m)	97.7		"	100		97.7	80-120	
Xylene (o)	53.7		"	50.0		107	80-120	
Surrogate: a,a,a-Trifluorotoluene	38.4		"	40.0		96.0	80-120	
Surrogate: 4-Bromofluorobenzene	38.9		"	40.0		97.2	80-120	
Matrix Spike (EF61212-MS1)								
Source: 6F07005-01 Prepared: 06/12/06 Analyzed: 06/13/06								
Benzene	0.0442	0.00100	mg/L	0.0500	ND	88.4	80-120	
Toluene	0.0478	0.00100	"	0.0500	ND	95.6	80-120	
Ethylbenzene	0.0454	0.00100	"	0.0500	ND	90.8	80-120	
Xylene (p/m)	0.0983	0.00100	"	0.100	ND	98.3	80-120	
Xylene (o)	0.0520	0.00100	"	0.0500	ND	104	80-120	
Surrogate: a,a,a-Trifluorotoluene	36.9		ug/l	40.0		92.2	80-120	
Surrogate: 4-Bromofluorobenzene	42.0		"	40.0		105	80-120	

Environmental Lab of Texas

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946

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
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Batch EF61212 - EPA 5030C (GC)

Matrix Spike Dup (EF61212-MSD1)

Source: 6F07005-01

Prepared: 06/12/06 Analyzed: 06/13/06

Benzene	0.0436	0.00100	mg/L	0.0500	ND	87.2	80-120	1.37	20	
Toluene	0.0474	0.00100	"	0.0500	ND	94.8	80-120	0.840	20	
Ethylbenzene	0.0452	0.00100	"	0.0500	ND	90.4	80-120	0.442	20	
Xylene (p/m)	0.0977	0.00100	"	0.100	ND	97.7	80-120	0.612	20	
Xylene (o)	0.0521	0.00100	"	0.0500	ND	104	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	36.5		ug/l	40.0		91.2	80-120			
Surrogate: 4-Bromofluorobenzene	40.1		"	40.0		100	80-120			

Environmental Lab of Texas

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF61221 - General Preparation (WetChem)										
Blank (EF61221-BLK1)				Prepared & Analyzed: 06/12/06						
Chloride	ND	0.500	mg/L							
LCS (EF61221-BS1)				Prepared & Analyzed: 06/12/06						
Chloride	9.44	0.500	mg/L	10.0		94.4	80-120			
Calibration Check (EF61221-CCV1)				Prepared & Analyzed: 06/12/06						
Chloride	10.2		mg/L	10.0		102	80-120			
Duplicate (EF61221-DUP1)				Source: 6F12012-03		Prepared & Analyzed: 06/12/06				
Chloride	494	10.0	mg/L		509			2.99	20	
Matrix Spike (EF61221-MS1)				Source: 6F12012-03		Prepared & Analyzed: 06/12/06				
Chloride	790	10.0	mg/L	200	509	140	80-120			S-07

Environmental Lab of Texas

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Notes and Definitions

S-07 Recovery outside Laboratory historical or method prescribed limits.
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:

Roland K. Tuttle

Date:

6/14/2006

Roland 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.

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Environmental Lab of Texas

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

Client: Highlander
Date/Time: 11/9/00 17:10
Order #: WFI2010
Initials: CR

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	2.0	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	

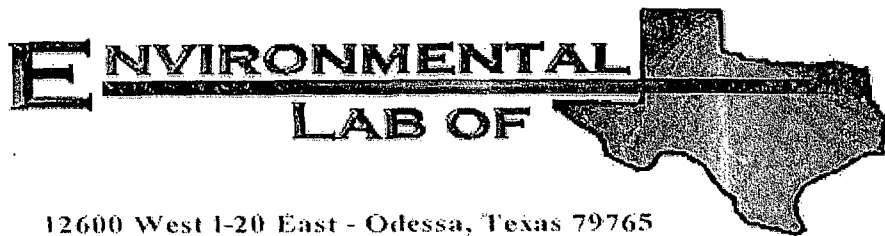
Other observations:

Variance Documentation:

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

Corrective Action Taken:

September 21, 2006



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Gruy Petroleum- Riddle State #1 MW Sampling

Project Number: 2321

Location: Lea Co., NM

Lab Order Number: 6122006

Report Date: 09/29/06

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum- Riddle State #1 MW Sampling
Project Number: 2321
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6122006-01	Water	09/21/06 10:15	09-22-2006 10:20
MW-2	6122006-02	Water	09/21/06 10:50	09-22-2006 10:20
MW-3	6122006-03	Water	09/21/06 11:30	09-22-2006 10:20
RW-1	6122006-04	Water	09/21/06 11:45	09-22-2006 10:20

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum- Riddle State #1 MW Sampling
Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6122006-01) Water									
Benzene	ND	0.00100	mg/L	1	E162607	09/26/06	09/27/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.8 %	80-120		"	"	"	"	

MW-2 (6122006-02) Water

Benzene	ND	0.00100	mg/L	1	E162607	09/26/06	09/27/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		100 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		"	"	"	"	

MW-3 (6122006-03) Water

Benzene	ND	0.00100	mg/L	1	E162607	09/26/06	09/27/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %	80-120		"	"	"	"	

RW-1 (6122006-04) Water

Benzene	ND	0.00100	mg/L	1	E162607	09/26/06	09/27/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.0 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Page 2 of 7

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum- Riddle State #1 MW Sampling
Project Number: 2321
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6122006-01) Water									
Chloride	14.0	2.50	mg/L	5	E162105	09/22/06	09/25/06	EPA 300.0	
MW-2 (6122006-02) Water									
Chloride	39.6	5.00	mg/L	10	E162105	09/22/06	09/25/06	EPA 300.0	
MW-3 (6122006-03) Water									
Chloride	78.0	5.00	mg/L	10	E162105	09/22/06	09/25/06	EPA 300.0	
RW-1 (6122006-04) Water									
Chloride	23400	250	mg/L	500	E162105	09/22/06	09/25/06	EPA 300.0	

Environmental Lab of Texas

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum- Riddle State #1 MW Sampling
Project Number: 2321
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

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
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Batch EI62607 - EPA 5030C (GC)

Blank (EI62607-BLK1)

Prepared & Analyzed: 09/26/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	42.5		ug/l	40.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	46.9		"	40.0		117	80-120			

LCS (EI62607-BS1)

Prepared & Analyzed: 09/26/06

Benzene	0.0556	0.00100	mg/L	0.0500		111	80-120			
Toluene	0.0472	0.00100	"	0.0500		94.4	80-120			
Ethylbenzene	0.0422	0.00100	"	0.0500		84.4	80-120			
Xylene (p/m)	0.0914	0.00100	"	0.100		91.4	80-120			
Xylene (o)	0.0442	0.00100	"	0.0500		88.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.8		ug/l	40.0		94.5	80-120			
Surrogate: 4-Bromofluorobenzene	45.7		"	40.0		114	80-120			

Calibration Check (EI62607-CCV1)

Prepared: 09/26/06 Analyzed: 09/27/06

Benzene	54.2		ug/l	50.0		108	80-120			
Toluene	47.3		"	50.0		94.6	80-120			
Ethylbenzene	46.3		"	50.0		92.6	80-120			
Xylene (p/m)	90.9		"	100		90.9	80-120			
Xylene (o)	44.3		"	50.0		88.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	43.1		"	40.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	45.0		"	40.0		112	80-120			

Matrix Spike (EI62607-MS1)

Source: 6122006-04

Prepared: 09/26/06 Analyzed: 09/27/06

Benzene	0.0455	0.00100	mg/L	0.0500	ND	91.0	80-120			
Toluene	0.0405	0.00100	"	0.0500	ND	81.0	80-120			
Ethylbenzene	0.0466	0.00100	"	0.0500	ND	93.2	80-120			
Xylene (p/m)	0.0805	0.00100	"	0.100	ND	80.5	80-120			
Xylene (o)	0.0412	0.00100	"	0.0500	ND	82.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	33.3		ug/l	40.0		83.2	80-120			
Surrogate: 4-Bromofluorobenzene	41.6		"	40.0		104	80-120			

Environmental Lab of Texas

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Page 4 of 7

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum- Riddle State #1 MW Sampling
Project Number: 2321
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

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
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Batch EI62607 - EPA 5030C (GC)

Matrix Spike Dup (EI62607-MSD1)

Source: 6I22006-04

Prepared: 09/26/06 Analyzed: 09/27/06

Benzene	0.0528	0.00100	mg/L	0.0500	ND	106	80-120	15.2	20	
Toluene	0.0483	0.00100	"	0.0500	ND	96.6	80-120	17.6	20	
Ethylbenzene	0.0453	0.00100	"	0.0500	ND	90.6	80-120	2.83	20	
Xylene (p/m)	0.0938	0.00100	"	0.100	ND	93.8	80-120	15.3	20	
Xylene (o)	0.0454	0.00100	"	0.0500	ND	90.8	80-120	9.70	20	
Surrogate: a,a,a-Trifluorotoluene	32.2		ug/l	40.0		80.5	80-120			
Surrogate: 4-Bromofluorobenzene	36.4		"	40.0		91.0	80-120			

Environmental Lab of Texas

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Page 5 of 7

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum- Riddle State #1 MW Sampling
Project Number: 2321
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EI62105 - General Preparation (WetChem)										
Blank (EI62105-BLK1)										
				Prepared: 09/22/06 Analyzed: 09/25/06						
Chloride	ND	0.500	mg/L							
LCS (EI62105-BS1)										
				Prepared: 09/22/06 Analyzed: 09/25/06						
Chloride	11.8	0.500	mg/L	10.0		118	80-120			
Calibration Check (EI62105-CCV1)										
				Prepared: 09/22/06 Analyzed: 09/25/06						
Chloride	11.7		mg/L	10.0		117	80-120			
Duplicate (EI62105-DUP1)										
				Source: 6120004-01 Prepared: 09/22/06 Analyzed: 09/25/06						
Chloride	43.6	5.00	mg/L		45.0			3.16	20	
Matrix Spike (EI62105-MS1)										
				Source: 6120004-01 Prepared: 09/22/06 Analyzed: 09/25/06						
Chloride	174	5.00	mg/L	100	45.0	129	80-120			M1

Environmental Lab of Texas

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum- Riddle State #1 MW Sampling
Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Notes and Definitions

M1 The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
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:

9/29/2006

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.

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Environmental Lab of Texas

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Page 7 of 7

HIGHLANDER ENVIRONMENTAL CORP.

(432) 682-4559

Fax (432) 682-3946

CLIENT NAME:

SITE MANAGER:

Ike Tavares

PROJECT NO.: PROJECT NAME:

Gray - Rickelle State #1

SAMPLE IDENTIFICATION

[illegible]

When will each bill need	Environment	Return original copy to His Excellency	- Project Manager retains pink copy Accounting receives Gold copy.
When will each bill need	Environment	Return original copy to His Excellency	- Project Manager retains pink copy Accounting receives Gold copy.

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

Client: Highlander
Date/Time: 4/22/06 10:26
Lab ID #: 6122008
Initials: ck

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	Yes	No	1.5 °C
#2	Shipping container in good condition?	Yes	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
#5	Chain of Custody present?	Yes	No	
#6	Sample instructions complete of Chain of Custody?	Yes	No	
#7	Chain of Custody signed when relinquished/ received?	Yes	No	
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	Yes	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No	
#11	Containers supplied by ELOT?	Yes	No	
#12	Samples in proper container/ bottle?	Yes	No	See Below
#13	Samples properly preserved?	Yes	No	See Below
#14	Sample bottles intact?	Yes	No	
#15	Preservations documented on Chain of Custody?	Yes	No	
#16	Containers documented on Chain of Custody?	Yes	No	
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18	All samples received within sufficient hold time?	Yes	No	See Below
#19	VOC samples have zero headspace?	Yes	No	Not Applicable

Variance Documentation

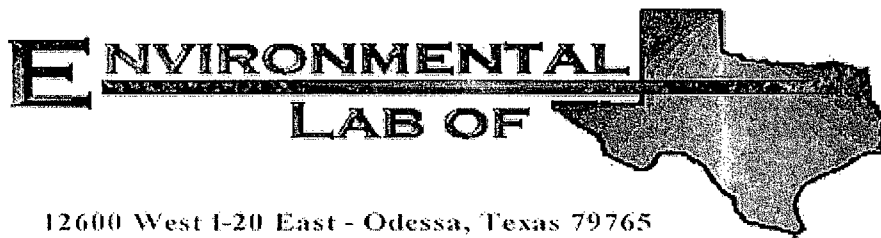
Contact: _____ Contacted by: _____ Date/ Time: _____

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

December 14, 2006



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Tim Reed

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Gruy Petroleum/ Riddle State #1

Project Number: 2321

Location: Lea County, NM

Lab Order Number: 6L15016

Report Date: 12/28/06

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Tim Reed

Fax: (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6L15016-01	Water	12/14/06 15:15	12-15-2006 16:40
MW-2	6L15016-02	Water	12/14/06 15:45	12-15-2006 16:40
MW-3	6L15016-03	Water	12/14/06 16:30	12-15-2006 16:40

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Tim Reed

Fax: (432) 682-3946

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6L15016-01) Water									
Benzene	ND	0.00100	mg/L	1	EL62110	12/21/06	12/22/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.5 %	80-120		"	"	"	"	
MW-2 (6L15016-02) Water									
Benzene	ND	0.00100	mg/L	1	EL62110	12/21/06	12/22/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		118 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		115 %	80-120		"	"	"	"	
MW-3 (6L15016-03) Water									
Benzene	ND	0.00100	mg/L	1	EL62110	12/21/06	12/22/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		84.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.2 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Page 2 of 7

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Tim Reed

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6L15016-01) Water									
Chloride	11.0	2.50	mg/L	5	EL62103	12/20/06	12/21/06	EPA 300.0	
MW-2 (6L15016-02) Water									
Chloride	22.6	5.00	mg/L	10	EL62103	12/20/06	12/21/06	EPA 300.0	
MW-3 (6L15016-03) Water									
Chloride	81.3	5.00	mg/L	10	EL62103	12/20/06	12/21/06	EPA 300.0	

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Tim Reed

Fax: (432) 682-3946

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
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Batch EL62110 - EPA 5030C (GC)

Blank (EL62110-BLK1)

Prepared: 12/21/06 Analyzed: 12/22/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	46.9		ug/l	40.0		117	80-120			
Surrogate: 4-Bromofluorobenzene	41.9		"	40.0		105	80-120			

LCS (EL62110-BS1)

Prepared: 12/21/06 Analyzed: 12/22/06

Benzene	0.0588	0.00100	mg/L	0.0500		118	80-120			
Toluene	0.0591	0.00100	"	0.0500		118	80-120			
Ethylbenzene	0.0588	0.00100	"	0.0500		118	80-120			
Xylene (p/m)	0.118	0.00100	"	0.100		118	80-120			
Xylene (o)	0.0548	0.00100	"	0.0500		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	47.3		ug/l	40.0		118	80-120			
Surrogate: 4-Bromofluorobenzene	37.7		"	40.0		94.2	80-120			

Calibration Check (EL62110-CCV1)

Prepared: 12/21/06 Analyzed: 12/22/06

Benzene	59.4		ug/l	50.0		119	80-120			
Toluene	59.1		"	50.0		118	80-120			
Ethylbenzene	59.1		"	50.0		118	80-120			
Xylene (p/m)	117		"	100		117	80-120			
Xylene (o)	59.1		"	50.0		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	46.0		"	40.0		115	80-120			
Surrogate: 4-Bromofluorobenzene	45.2		"	40.0		113	80-120			

Matrix Spike (EL62110-MS1)

Source: 6L15008-02

Prepared: 12/21/06 Analyzed: 12/23/06

Benzene	0.0583	0.00100	mg/L	0.0500	0.00270	111	80-120			
Toluene	0.0567	0.00100	"	0.0500	0.00108	111	80-120			
Ethylbenzene	0.0573	0.00100	"	0.0500	ND	115	80-120			
Xylene (p/m)	0.109	0.00100	"	0.100	ND	109	80-120			
Xylene (o)	0.0516	0.00100	"	0.0500	ND	103	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.4		ug/l	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	40.3		"	40.0		101	80-120			

Environmental Lab of Texas

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Tim Reed

Fax: (432) 682-3946

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
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Batch EL62110 - EPA 5030C (GC)

Matrix Spike Dup (EL62110-MSD1)

Source: 6L15008-02

Prepared: 12/21/06 Analyzed: 12/23/06

Benzene	0.0555	0.00100	mg/L	0.0500	0.00270	106	80-120	4.61	20	
Toluene	0.0543	0.00100	"	0.0500	0.00108	106	80-120	4.61	20	
Ethylbenzene	0.0571	0.00100	"	0.0500	ND	114	80-120	0.873	20	
Xylene (p/m)	0.103	0.00100	"	0.100	ND	103	80-120	5.66	20	
Xylene (o)	0.0486	0.00100	"	0.0500	ND	97.2	80-120	5.79	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	42.7		ug/l	40.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	43.4		"	40.0		108	80-120			

Environmental Lab of Texas

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Page 5 of 7

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Tim Reed

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL62103 - General Preparation (WetChem)

Blank (EL62103-BLK1)

Prepared: 12/20/06 Analyzed: 12/21/06

Chloride ND 0.500 mg/L

LCS (EL62103-BS1)

Prepared: 12/20/06 Analyzed: 12/21/06

Chloride 9.62 0.500 mg/L 10.0 96.2 80-120

Calibration Check (EL62103-CCV1)

Prepared: 12/20/06 Analyzed: 12/21/06

Chloride 9.55 mg/L 10.0 95.5 80-120

Duplicate (EL62103-DUP1)

Source: 6L15016-01

Prepared: 12/20/06 Analyzed: 12/21/06

Chloride 10.9 2.50 mg/L 11.0 0.913 20

Matrix Spike (EL62103-MS1)

Source: 6L15016-01

Prepared: 12/20/06 Analyzed: 12/21/06

Chloride 62.2 2.50 mg/L 50.0 11.0 102 80-120

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

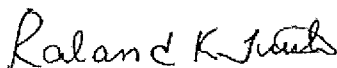
Project: Gruy Petroleum/ Riddle State #1
Project Number: 2321
Project Manager: Tim Reed

Fax: (432) 682-3946

Notes and Definitions

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:



Date:

12/28/2006

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.

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Environmental Lab of Texas

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Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

CLIENT NAME: Gray SITE MANAGER: Ike Tovar

PROJECT NO.: 2321 PROJECT NAME: Gray / Middle State #1

LAB I.D. NUMBER: 615016 SAMPLE IDENTIFICATION: Leg County, TX

DATE

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PAGE: 1 OF: 1

ANALYSIS REQUEST

(Circle or Specify Method No.)

GC/MS Vol. 0240/0280/024	
GC/MS Vol. 0270/025	
PCB's 0080/009	
Post. 008/008	
BOD, TSS, pH, TDS, Chloride	
GC/MS Spec.	
Alpha Beta (Air)	
PLM (Asbestos)	
TCF Volatiles	
TCF Semi Volatiles	
TCF Metals Ag As Ba Cd Cr Pb Hg Se	
TCF Metals Ag As Ba Cd Cr Pb Hg Se	
PAH 0070	
TPH 4181 0015 MOD. 77005	
MTBE 0020/002	
BTX 0020/002	
HCL Vol	
HMOS	
ICE 0000/000	
NONE	

SAMPLED BY: (Print & Sign) For 10/10/10 Date: 10/10/10 Time: 11:11

DATE: 10/10/10 Time: 11:11

SAMPLE SHIPPED BY: (Circle) UPS

FEDX CHAND-DELIVERED AIRMAIL \$ OTHER

HIGHLANDER CONTACT PERSON: Ike Tovar

Formula by: Yes

RUSH Charges Authorized: Yes

RECEIVED BY: (Signature) Gray DATE: 10/10/10 TIME: 11:11

RECEIVED BY: (Signature) Gray DATE: 10/10/10 TIME: 11:11

RECEIVED BY: (Signature) Gray DATE: 10/10/10 TIME: 11:11

RECEIVED BY: (Signature) Gray DATE: 10/10/10 TIME: 11:11

RECEIVING LABORATORY: FLI STATE: TX ZIP: 79705

CITY: Midland PHONE: (432) 682-4559

SAMPLE CONDITION WHEN RECEIVED: As is

MATRIX: As is 8-Sol As is 4-Air As is 2D-Solid As is 0-Other

REMARKS: Label w/ seal jar 3.0

Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting retains Gold copy.

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Highlander
 Date/ Time: 12/15/06 4:40
 Lab ID #: 6L15016
 Initials: CK

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	Yes	No	3.0 °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?	<u>Yes</u>	No	Not Present
#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)?	<u>Yes</u>	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No	
#11	Containers supplied by ELOT?	<u>Yes</u>	No	
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below
#13	Samples properly preserved?	<u>Yes</u>	No	See Below
#14	Sample bottles intact?	<u>Yes</u>	No	
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No	
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No	
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below
#19	Subcontract of sample(s)?	Yes	No	<u>Not Applicable</u>
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable

Variance Documentation

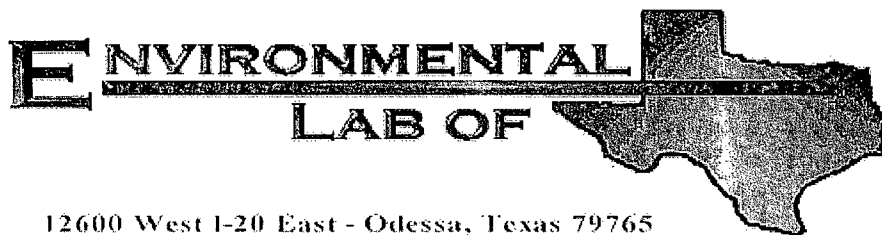
Contact: _____ Contacted by: _____ Date/ Time: _____

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

January 15, 2007



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories, Inc. Company

Analytical Report

Prepared for:

Ike Tavaréz

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Gruy Petroleum- Riddle State #1 MW Sampling

Project Number: 2321

Location: Lea County, NM

Lab Order Number: 7A16009

Report Date: 01/25/07

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum- Riddle State #1 MW Sampling
Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RW-1	7A16009-01	Water	01/15/07 15:00	01-16-2007 10:30

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum- Riddle State #1 MW Sampling
Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW-1 (7A16009-01) Water									
Chloride	19000	250	mg/L	500	EA71906	01/22/07	01/22/07	EPA 300.0	

Environmental Lab of Texas

A Xenco Laboratories, Inc. Company

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Page 2 of 7

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum- Riddle State #1 MW Sampling
Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Volatile Organic Compounds by EPA Method 8260B
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW-1 (7A16009-01) Water									
Benzene	ND	0.00100	mg/L	I	EA72304	01/23/07	01/23/07	EPA 8260B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		111 %	68-129		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	72-132		"	"	"	"	
Surrogate: Toluene-d8		86.8 %	74-118		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %	65-140		"	"	"	"	

Environmental Lab of Texas

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum- Riddle State #1 MW Sampling
Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA71906 - General Preparation (WetChem)										
Blank (EA71906-BLK1)				Prepared & Analyzed: 01/22/07						
Chloride	ND	0.500	mg/L							
LCS (EA71906-BS1)				Prepared & Analyzed: 01/22/07						
Chloride	10.0	0.500	mg/L	10.0		100	80-120			
Calibration Check (EA71906-CCV1)				Prepared & Analyzed: 01/22/07						
Chloride	11.0		mg/L	10.0		110	80-120			
Duplicate (EA71906-DUP1)				Source: 7A15016-05		Prepared & Analyzed: 01/22/07				
Chloride	41.8	5.00	mg/L		42.1			0.715	20	
Duplicate (EA71906-DUP2)				Source: 7A17001-01		Prepared & Analyzed: 01/22/07				
Chloride	182	5.00	mg/L		187			2.71	20	
Matrix Spike (EA71906-MS1)				Source: 7A15016-05		Prepared & Analyzed: 01/22/07				
Chloride	151	5.00	mg/L	100	42.1	109	80-120			
Matrix Spike (EA71906-MS2)				Source: 7A17001-01		Prepared & Analyzed: 01/22/07				
Chloride	295	5.00	mg/L	100	187	108	80-120			

Environmental Lab of Texas

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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum- Riddle State #1 MW Sampling
Project Number: 2321
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EA72304 - EPA 5030C (GCMS)

Blank (EA72304-BLK1)

Prepared: 01/23/07 Analyzed: 01/24/07

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: Dibromofluoromethane	49.2		ug/l	50.0		98.4	68-129			
Surrogate: 1,2-Dichloroethane-d4	39.2		"	50.0		78.4	72-132			
Surrogate: Toluene-d8	41.5		"	50.0		83.0	74-118			
Surrogate: 4-Bromofluorobenzene	53.9		"	50.0		108	65-140			

LCS (EA72304-BS1)

Prepared & Analyzed: 01/23/07

Benzene	0.0174	0.00100	mg/L	0.0250		69.6	60-140			
Toluene	0.0179	0.00100	"	0.0250		71.6	60-140			
Ethylbenzene	0.0229	0.00100	"	0.0250		91.6	60-140			
Xylene (p/m)	0.0474	0.00100	"	0.0500		94.8	60-140			
Xylene (o)	0.0239	0.00100	"	0.0250		95.6	60-140			
Surrogate: Dibromofluoromethane	51.1		ug/l	50.0		102	68-129			
Surrogate: 1,2-Dichloroethane-d4	48.0		"	50.0		96.0	72-132			
Surrogate: Toluene-d8	35.8		"	50.0		71.6	74-118			S-07
Surrogate: 4-Bromofluorobenzene	33.9		"	50.0		67.8	65-140			

Calibration Check (EA72304-CCV1)

Prepared: 01/23/07 Analyzed: 01/24/07

Toluene	45.2		ug/l	50.0		90.4	70-130			
Ethylbenzene	49.1		"	50.0		98.2	70-130			
Surrogate: Dibromofluoromethane	54.4		"	50.0		109	68-129			
Surrogate: 1,2-Dichloroethane-d4	44.2		"	50.0		88.4	72-132			
Surrogate: Toluene-d8	43.0		"	50.0		86.0	74-118			
Surrogate: 4-Bromofluorobenzene	48.6		"	50.0		97.2	65-140			

Environmental Lab of Texas

A Xenco Laboratories, Inc. Company

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Page 5 of 7

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum- Riddle State #1 MW Sampling
Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EA72304 - EPA 5030C (GCMS)

Matrix Spike (EA72304-MS1)

Source: 7A19012-02

Prepared: 01/23/07 Analyzed: 01/24/07

Benzene	0.0212	0.00100	mg/L	0.0250	ND	84.8	80-120			
Toluene	0.0226	0.00100	"	0.0250	ND	90.4	80-120			
Ethylbenzene	0.0245	0.00100	"	0.0250	ND	98.0	80-120			
Xylene (p/m)	0.0498	0.00100	"	0.0500	ND	99.6	80-120			
Xylene (o)	0.0257	0.00100	"	0.0250	ND	103	80-120			
Surrogate: Dibromofluoromethane	55.0		ug/l	50.0		110	68-129			
Surrogate: 1,2-Dichloroethane-d4	47.3		"	50.0		94.6	72-132			
Surrogate: Toluene-d8	42.3		"	50.0		84.6	74-118			
Surrogate: 4-Bromofluorobenzene	49.0		"	50.0		98.0	65-140			

Matrix Spike Dup (EA72304-MSD1)

Source: 7A19012-02

Prepared: 01/23/07 Analyzed: 01/24/07

Benzene	0.0224	0.00100	mg/L	0.0250	ND	89.6	80-120	5.50	20	
Toluene	0.0234	0.00100	"	0.0250	ND	93.6	80-120	3.48	20	
Ethylbenzene	0.0250	0.00100	"	0.0250	ND	100	80-120	2.02	20	
Xylene (p/m)	0.0496	0.00100	"	0.0500	ND	99.2	80-120	0.402	20	
Xylene (o)	0.0253	0.00100	"	0.0250	ND	101	80-120	1.57	20	
Surrogate: Dibromofluoromethane	53.4		ug/l	50.0		107	68-129			
Surrogate: 1,2-Dichloroethane-d4	48.7		"	50.0		97.4	72-132			
Surrogate: Toluene-d8	43.4		"	50.0		86.8	74-118			
Surrogate: 4-Bromofluorobenzene	47.4		"	50.0		94.8	65-140			

Environmental Lab of Texas

A Xenco Laboratories, Inc. Company

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Page 6 of 7

Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Gruy Petroleum- Riddle State #1 MW Sampling
Project Number: 2321
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Notes and Definitions

S-07 Recovery outside Laboratory historical or method prescribed limits.
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:



Date: 1/25/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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Environmental Lab of Texas

A Xenco Laboratories, Inc. Company

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Page 7 of 7

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

SITE MANAGER: Ike Tovar

CLIENT NAME: Gray

PROJECT NO.: 2321 PROJECT NAME: Gray Middle State #1

LAB I.D. NUMBER: 01 DATE: 11/5/07 TIME: 3:00 W X BLW-1

SAMPLE IDENTIFICATION

MATRIX W COM. W GRAB X

NUMBER OF CONTAINERS: 3 FILTERED (Y/N): N PRESERVATIVE METHOD: ICE

TCM Volatiles
TCM Metals Ag As Ba Cd Cr Pb Hg Se
TCM Metals Ag As Ba Cd Cr Pb Hg Se
TCM Volatiles
TCM Semi Volatiles
RCI
GC/MS Vol. 8240/8260/824
GC/MS Semi. Vol. 8270/825
PCB's 3080/309
Pest. 808/809
BOD, TSS, PH, TDS, Chloride
Gamma Spec.
Alpha Beta (Air)
PLM (Asbestos)

RECEIVED BY: (Signature) [Signature] DATE: 11/5/07 TIME: 10:30

RECEIVED BY: (Signature) [Signature] DATE: 11/5/07 TIME: 10:30

RECEIVED BY: (Signature) [Signature] DATE: 11/5/07 TIME: 10:30

RECEIVED BY: (Signature) [Signature] DATE: 11/5/07 TIME: 10:30

RECEIVING LABORATORY: ELT STATE: TX ZIP: 79701

ADDRESS: 04314 PHONE: 682-4559

CITY: Midland

CONTACT: Ike Tovar

SAMPLE CONDITION WHEN RECEIVED: Good

MATRIX: Water SD-Solid G-Other

DATE: 11/5/07 TIME: 10:30

REMARKS: 015

HIGHLANDER CONTACT PERSON: Ike Tovar

RESULTS BY: [Signature]

RESULTS CHARGES AUTHORIZED: Yes

Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting retains Gold copy.

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Highlander
 Date/ Time: 11/11/07 10:30
 Lab ID #: 7A16009
 Initials: CK

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	Yes	No	0.5 °C
#2	Shipping container in good condition?	Yes	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
#5	Chain of Custody present?	Yes	No	
#6	Sample instructions complete of Chain of Custody?	Yes	No	
#7	Chain of Custody signed when relinquished/ received?	Yes	No	
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	Yes	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No	
#11	Containers supplied by ELOT?	Yes	No	
#12	Samples in proper container/ bottle?	Yes	No	See Below
#13	Samples properly preserved?	Yes	No	See Below
#14	Sample bottles intact?	Yes	No	
#15	Preservations documented on Chain of Custody?	Yes	No	
#16	Containers documented on Chain of Custody?	Yes	No	
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18	All samples received within sufficient hold time?	Yes	No	See Below
#19	Subcontract of sample(s)?	Yes	No	Not Applicable
#20	VOC samples have zero headspace?	Yes	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