

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 June 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: Pogo Producing Company	Contact: Pat Ellis
Address: P.O. Box 10340 Midland, Texas 79702-7340	Telephone No. (432) 685-8100
Facility Name: Baylus Cade Federal #10	Facility Type: Transfer Line

Surface Owner Federal	Mineral Owner	Lease No. NMLC034711
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LOCATION OF RELEASE

Unit Letter	Section\	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	35	23S	37E	1692'	FSL	442'	FWL	Lea

Latitude 32° 15.488' Longitude 103° 08.432'

NATURE OF RELEASE

Type of Release Produced Water & Oil	Volume of Release 40BBL	Volume Recovered 35 BBL
Source of Release 3" Polypipe Flowline	Date and Hour of Occurrence 12/21/06	Date and Hour of Discovery 12/21/06 @ 3:45 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Answering Automated Service	
By Whom? Pat Ellis	Date and Hour 12/21/06 @ 6:00 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A 3" polypipe flowline froze and burst. The line was repaired.

Describe Area Affected and Cleanup Action Taken.*
The area affected was an approximately 18' x 30' spill area in the pasture. All free fluids were removed by vacuum truck. Highlander Environmental was contacted to evaluate spill. Samples were collected and spill was excavated to depths ranging from 3.0'-7.5' below ground surface. One borehole was drilled for additional delineation. Soil hauled to Sundance in Eunice for disposal.

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

Signature:	OIL CONSERVATION DIVISION 	
Printed Name: Pat Ellis	Approved by District ENVIRONMENTAL ENGINEER	
Title: EH&S Supervisor	Approval Date: <u>2-12-08</u>	Expiration Date: _____
E-mail Address: <u>PatrickE@pxp.com</u>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: _____ Phone: (432) 685-8148		

* Attach Additional Sheets If Necessary

SITE INFORMATION

RP # 1425

Report Type: CLOSURE REPORT

General Site Information:

Site:	Baylus Cade Federal #10
Company:	Pogo Producing Company
Spill Location:	Section 35, T23S R37E
Unit Letter:	Unit L
Lease Number:	
County:	Lea
Spill GPS:	32° 15.488', 103° 08.432'
Surface Owner:	Federal
Mineral Owner:	
Directions:	

Release Data:

Date Released:	12/21/2006
Type Release:	Produced Water & Oil
Source of Contamination:	3" Polypipe Flowline
Fluid Released:	40 bbls
Fluids Recovered:	35bbls

Official Communication:

Name:	Pat Ellis	Ike Tavarez
Company:	PXP	Highlander Environmental Corp.
Address:	300 N. Marienfeld St.	1910 N. Big Spring
P.O. Box	Box 10340	
City:	Midland Texas, 79701-7340	Midland, Texas
Phone number:	(432) 685-8100	(432) 682- 4559
Email:	PatrickE@pxp.com	itavarez@hec-enviro.com

Ranking Criteria:

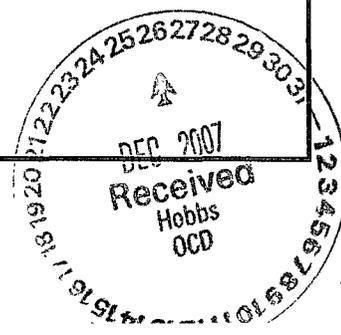
Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	Average Depth >50'<100' BS
>100 ft.	0	

WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	None
Water Source >1,000 ft., Private >200 ft.	0	

Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	None
200 ft - 1,000 ft.	10	None
>1,000 ft.	0	

Total Ranking Score: 10

Acceptable Soil RRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	1,000





Highlander Environmental Corp.

Midland, Texas

November 21, 2007



Mr. Larry Johnson
Environmental Engineer Specialist
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Re: Assessment and Closure Report for the Latigo Petroleum, Inc. (Pogo Producing Company), Baylus Cade Federal #10 Well, Unit L, Section 35, Township 23 South, Range 37 East, Lea County, New Mexico.

Dear Mr. Johnson:

Highlander Environmental Corp. (Highlander) was contacted by Pogo Producing Company to assess a spill from the Baylus Cade Federal #10 well location, located in Unit L, Section 35, Township 23 South, Range 37 East, Lea County, New Mexico (Site). The spill site coordinates are N 32° 15.488', W 103° 08.432'. According to the State of New Mexico C-141 Initial Report, approximately 40 barrels (bbls) of oil/produced water were released when a 3" poly line flow line froze and burst on December 21, 2006. Of the 40 bbls released, 35 bbls were recovered. The State of New Mexico C-141 (Initial and Final) are included in Appendix C. The Site is shown on Figure 1.

Groundwater and Regulatory

The New Mexico State Engineer's Office database showed wells located in Sections 9, 16 and 32, Township 23 South, Range 37 East with reported depths ranging from 100' to 115'. Wells in Sections 8 and 20, Township 23 South, Range 38 East had reported depths of 335' and 225', respectively. Wells in Sections 5, 8 and 12, Township 24 South, Range 27 East had reported depths of 106', 90' and 18', respectively. The USGS database showed wells in Sections 32 and 33, Township 23 South, Range 37 East and Section 3, Township 24 South, Range 37 East with reported depths 97', 86' and 88', respectively. The New Mexico State Engineer and USGS water well reports are shown in Appendix A.

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil

Conservation Division (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 upon the depth to groundwater, the proposed RRAL for TPH is 1,000 mg/kg.

Assessment and Results

On January 11, 2007, Highlander personnel inspected and sampled the spill area which is located within the diked berm. The spill occurred off the south edge of the pad and measured approximately 20' x 90'. Additionally, there was some light overspray to the east along the edge of the pad. A total of four auger holes, AH-1, AH-2, AH-3 and AH-4 were placed in the spill area and samples were collected to depths ranging from 1.5' below ground surface to 7.5' below ground surface. Select samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. The TPH concentrations exceeded the RRAL in all four auger holes in the 0-1.0' sample and in the 1.0'-1.5' sample in AH-2. BTEX concentrations also exceeded the RRAL in the 0-1.0' sample from AH-2. Chloride concentrations were elevated in AH-1 and AH-2, but declined with depth to 1,510 mg/kg in AH-1 (7.0'-7.5') and 423 mg/kg in AH-2 (6.0'-6.5'). Chloride impact was not observed in AH-3 or AH-4. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix B. The auger hole locations are shown on Figure 2. The results of the sampling are summarized in Table 1.

Based upon the results of the sampling, the areas around AH-1 and AH-2 were excavated to depths ranging from 3.0' to 7.5' and the areas around AH-3 and AH-4 were excavated to depth ranging from 1.0' to 2.5'. A total of 396 cubic yards of soil was hauled to Sundance Services, Inc. for disposal. Additionally, one borehole (BH-1) was installed in the vicinity of AH-1 and advanced to a depth of 14'-15'. Samples collected at 9.0'-10.0' and 14.0'-15.0' were analyzed for chlorides and had concentrations of 96.6 mg/kg and 100 mg/kg, respectively. The auger hole and borehole locations are shown on Figure 3.

Confirmation samples were collected from the previous auger hole locations on June 8, 2007. TPH and BTEX concentrations were below the RRAL with the exception of AH-2A, which had a TPH concentration slightly above the RRAL at 1180 mg/kg. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix B. The results of the sampling are summarized in Table 2.

Conclusions

The soils which exceeded the RRAL have been removed with the exception of the area of AH-2A, which was slightly above the TPH RRAL. The excavation in the vicinity of AH-1 and AH-2 has also eliminated the bulk of the elevated chloride concentrations. The excavated soil was



hauled to Sundance Services, Inc. for disposal. Based on the depth to groundwater and the results of the assessment, the residual chloride and TPH concentrations and do not appear to be an imminent threat to groundwater.

Based upon the results of the assessment work performed at this site, Pogo requests closure of this Site. If you require any additional information or have any questions or comments concerning the assessment/closure report, please call at (432) 682-4559.

Respectfully submitted,
Highlander Environmental Corp.



Timothy M. Reed, P.G.
Vice President

cc: Pat Ellis – Pogo Producing Company
Don Riggs – Pogo Producing Company



TABLES

Table 1
Pogo Producing
Baylus Cade Federal #10 Flowline Leak
Lea County, New Mexico

Sample ID	Date Sampled	Soils Status		Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
		Insitu	Removed		C6-C12	C12-C28	C28-C35	Total					
AH-1	1/11/2007		X	0-1.0'	165	923	93.6	1,180	<0.025	0.0797	0.155	1.004	3,450
AH-1	1/11/2007		X	1'-1.5'	<10.0	49.5	<10.0	49.5	-	-	-	-	2,240
AH-1	1/11/2007		X	2'-2.5'	<10.0	87.3	<10.0	87.3	-	-	-	-	4,240
AH-1	1/11/2007		X	3'-3.5'	-	-	-	-	-	-	-	-	1,890
AH-1	1/11/2007	X		4'-4.5'	-	-	-	-	-	-	-	-	2,770
AH-1	1/11/2007	X		6'-6.5'	-	-	-	-	-	-	-	-	2,430
AH-1	1/11/2007	X		7'-7.5'	-	-	-	-	-	-	-	-	1,510
AH-2	1/11/2007		X	0-1.0'	9,730	14,000	809	24,500	9.69	70.3	62.6	140.7	3,120
AH-2	1/11/2007		X	1'-1.5'	4,240	6,180	356	10,800	-	-	-	-	4,170
AH-2	1/11/2007		X	2'-2.5'	32.9	94.0	<10.0	127	<0.002	<0.002	0.00563	0.02352	5,150
AH-2	1/11/2007		X	3'-3.5'	-	-	-	-	-	-	-	-	2,310
AH-2	1/11/2007		X	4'-4.5'	-	-	-	-	-	-	-	-	559
AH-2	1/11/2007		X	5'-5.5'	-	-	-	-	-	-	-	-	432
AH-2	1/11/2007		X	6'-6.5'	-	-	-	-	-	-	-	-	423
AH-3	1/11/2007		X	0-1.0'	785	1,760	87.8	2,630	-	-	-	-	1.15
AH-3	1/11/2007	X		1'-1.5'	<10.0	50.6	<10.0	50.6	-	-	-	-	4.34
AH-4	1/11/2007		X	0-1.0'	3,100	6,310	344	9,750	-	-	-	-	11.9
AH-4	1/11/2007	X		1'-1.5'	<10.0	30.2	<10.0	30.2	-	-	-	-	0.590

(-) Not Analyzed

Table 2
Pogo Producing
Baylus Cade Federal #10 Flowline Leak
Lea County, New Mexico

Sample ID	Date Sampled	Soils Status		Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
		Insitu	Removed		C6-C12	C12-C28	C28-C35	Total					
BH-1	5/15/2007	X		9-10'	-	-	-	-	-	-	-	-	96.6
BH-1	5/15/2007	X		14-15'	-	-	-	-	-	-	-	-	100
AH-1A	6/8/2007	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.002	<0.002	<0.002	<0.002	-
				BEB (3.0')									
AH-2A	6/8/2007	X		0-1.0'	264	812	93.4	1180	<0.025	0.757	1.22	4.27	-
				BEB (7.0')									
AH-3A	6/7/2007	X		0-1.0'	<10.0	23.2	21.8	45.0	<0.002	<0.002	<0.002	<0.002	-
				BEB (1.0')									
AH-4A	6/7/2007	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.002	<0.002	<0.002	<0.002	-
				BEB (1.0')									

(-) Not Analyzed

(BEB) Below Excavation Bottom

FIGURES

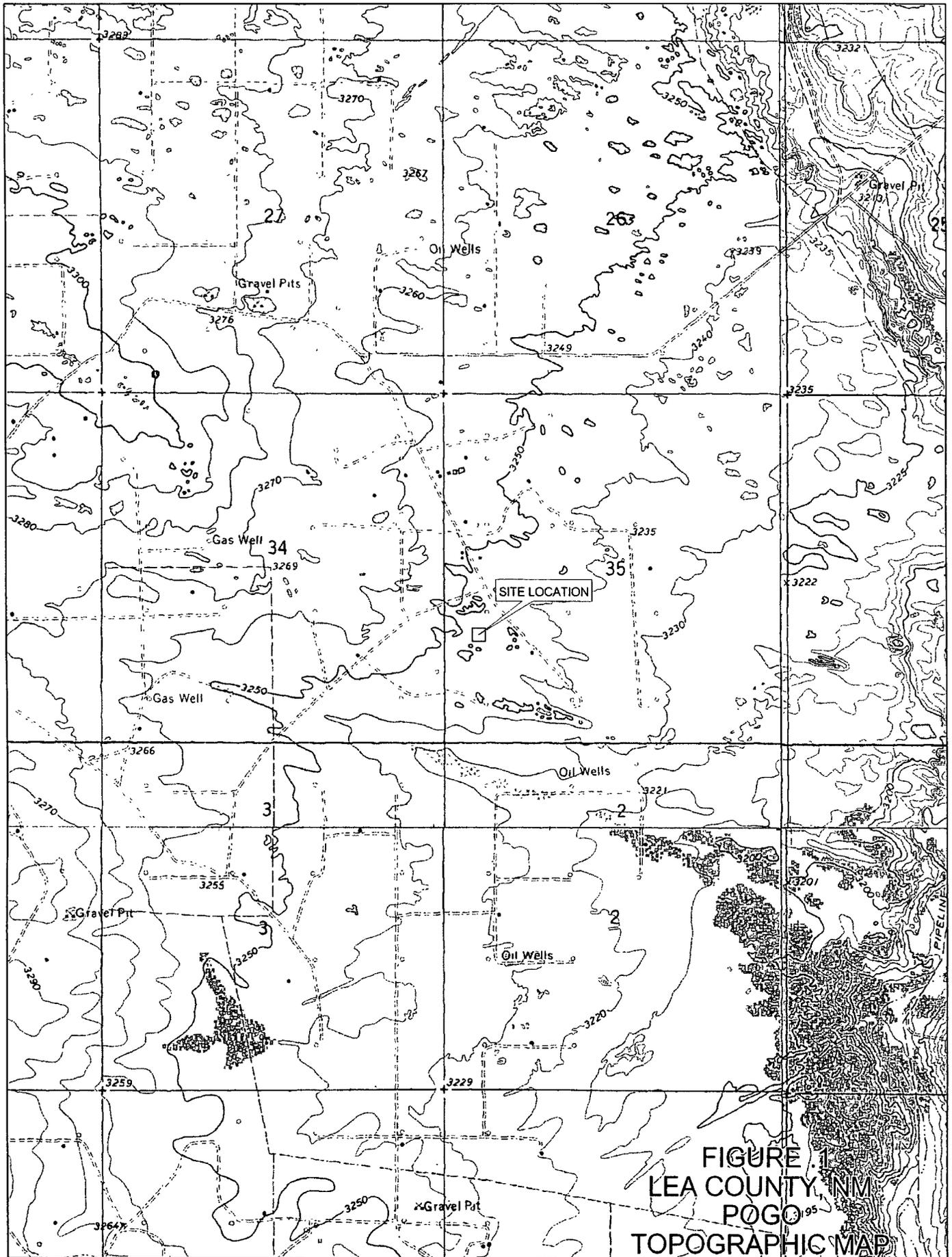
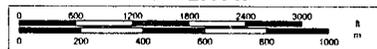


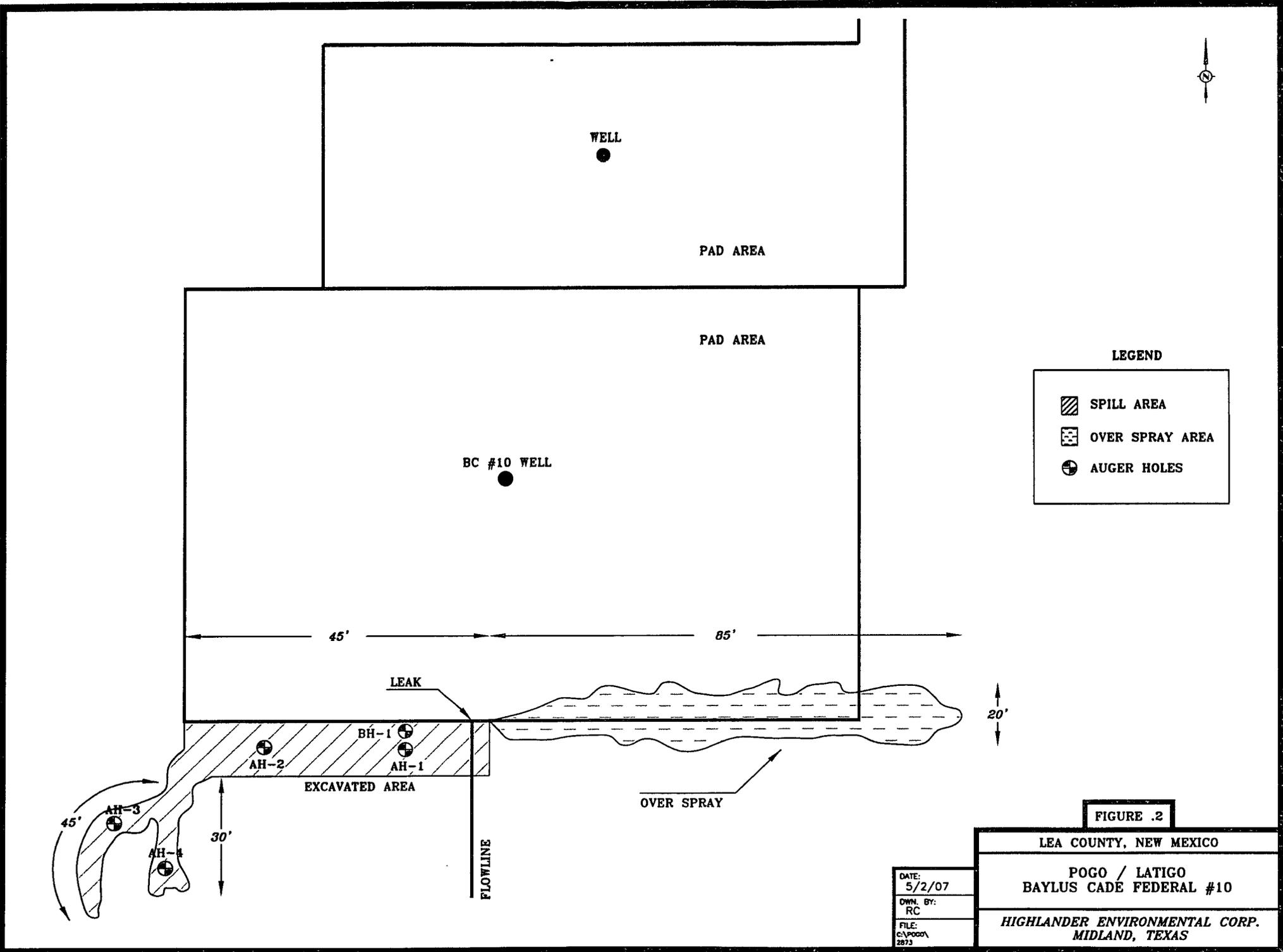
FIGURE 1
LEA COUNTY, NM
POGO 195
TOPOGRAPHIC MAP



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www.delorme.com

Scale 1 : 24,000
1" = 2000 ft





LEGEND

-  SPILL AREA
-  OVER SPRAY AREA
-  AUGER HOLES

FIGURE .2

LEA COUNTY, NEW MEXICO	
POGO / LATIGO BAYLUS CADE FEDERAL #10	
HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS	

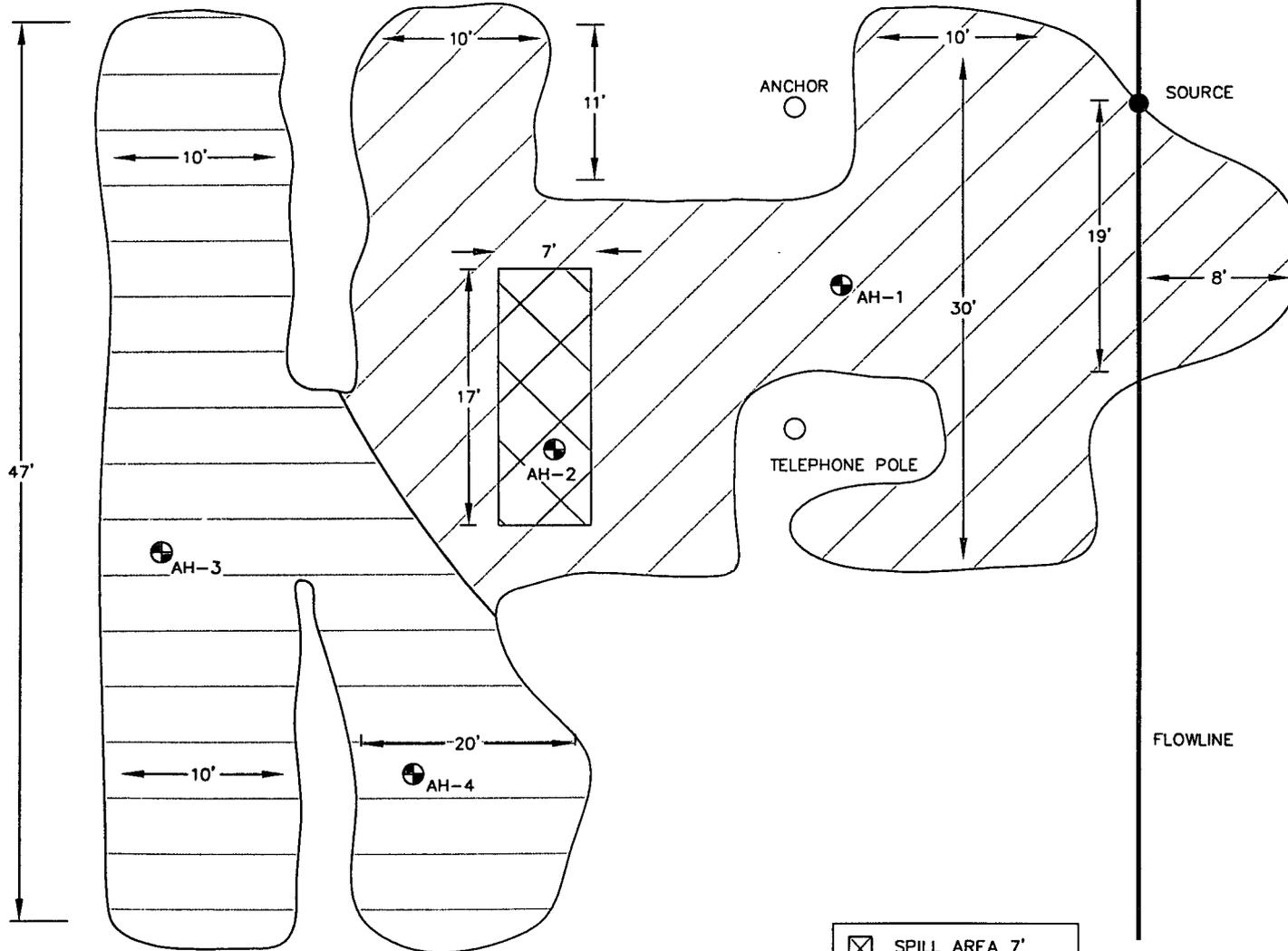
DATE: 5/2/07
DWN. BY: RC
FILE: C:\POGO\2873

NORTH



WELL PAD

FLOWLINE



-  SPILL AREA 7'
-  SPILL AREA 3'
-  SPILL AREA 1'
-  AUGER HOLES

DATE:
7/26/07
DWN. BY:
RC
FILE:
C:\POGO\2873

FIGURE .3

LEA COUNTY, NEW MEXICO

POGO / LATIGO
BAYLUS CADE FEDERAL #10

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

APPENDIX A

Water Well Data

Water Well Data
Average Depth to Groundwater (ft)
Pogo Producing Company - Baylus Cade Federal #10, Lea County, New Mexico

21 South 36 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
106		195			
19	20	21	22	23	24
			150		
30	29	28	27	26	25
				150	148
31	32	33	34	35	36

21 South 37 East

6	73	5	4	75	3	2	1
7		8	9	10	11	12	
18		17	16	15	14	13	
		71	70				
19		20	21	22	23	24	
		98		53			
30		29	28	27	26	25	
		85	71	76			
31		32	33	34	35	36	
			100	Eunice			

21 South 38 East

6	5	4
7	8	9
18	17	16
19	20	21
30	29	28
31	32	33

22 South 36 East

6	5	4	3	2	1
195	212				137
7	8	9	10	11	12
18	17	16	15	14	13
		170			
19	20	21	22	23	24
			22		
30	29	28	27	26	25
			160		118
31	32	33	34	35	36
				181	
				187	

22 South 37 East

6	5	85	4	3	2	1
7	8	9	90	10	11	12
18	17	16	15	14	13	
190			125	65		
19	20	21	22	23	24	
		65			60	
30	29	28	27	26	25	
			53	65		
31	32	33	34	35	36	
				Site		

22 South 38 East

6	5	4
7	8	9
18	17	16
19	20	21
30	29	28
31	32	33

23 South 36 East

6	5	4	3	2	1
		160			
7	8	9	10	11	12
18	17	16	15	14	13
		220	149		
19	20	21	22	23	24
			400	143	
30	29	28	27	26	25
31	32	33	34	35	36
189					127

23 South 37 East

6	102	5	4	3	70	2	64	1
7	8	9	100	10	11	12		
				66	68			
18	17	16	115	15	14	13		
			100					
19	20	21	22	23	24			
		108						
30	29	28	27	26	25			
		117	88					
31	32	106	33	34	35	36		
		97	87					

23 South 38 East

6	5	4
7	8	9
18	17	16
19	20	21
30	29	28
31	32	33

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- 90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
- Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34 NMOCD - Groundwater Data
- 54 Windmill
- 80 Drilled TMW - Total Depth 80' (dry)

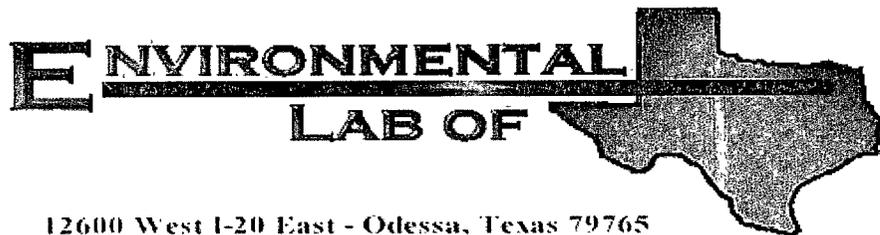
APPENDIX B

Lab Analysis

Lab Analysis

January 26, 2007

#1



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories, Inc. Company

Analytical Report

Prepared for:

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Pogo/ Baylus Cade Fed #10 Flowline Leak

Project Number: 2873

Location: Lea Co., NM

Lab Order Number: 7A12024

Report Date: 01/26/07

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

Project Pogo/ Baylus Cade Fed #10 Flowline Leak
Project Number 2873
Project Manager: Ike Tavarez

Fax: (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 0-1.0'	7A12024-01	Soil	01/11/07 00 00	01-12-2007 16:30
AH-1 1-1.5'	7A12024-02	Soil	01/11/07 00 00	01-12-2007 16 30
AH-1 2-2.5'	7A12024-03	Soil	01/11/07 00 00	01-12-2007 16 30
AH-1 3-3.5'	7A12024-04	Soil	01/11/07 00 00	01-12-2007 16 30
AH-1 4-4.5'	7A12024-05	Soil	01/11/07 00 00	01-12-2007 16 30
AH-1 6-6.5'	7A12024-06	Soil	01/11/07 00 00	01-12-2007 16 30
AH-1 7-7.5'	7A12024-07	Soil	01/11/07 00 00	01-12-2007 16 30
AH-2 0-1.0'	7A12024-08	Soil	01/11/07 00:00	01-12-2007 16:30
AH-2 1-1.5'	7A12024-09	Soil	01/11/07 00 00	01-12-2007 16 30
AH-2 2-2.5'	7A12024-10	Soil	01/11/07 00 00	01-12-2007 16 30
AH-2 3-3.5'	7A12024-11	Soil	01/11/07 00 00	01-12-2007 16 30
AH-2 4-4.5'	7A12024-12	Soil	01/11/07 00 00	01-12-2007 16 30
AH-2 5-5.5'	7A12024-13	Soil	01/11/07 00 00	01-12-2007 16 30
AH-2 6-6.5'	7A12024-14	Soil	01/11/07 00 00	01-12-2007 16 30
AH-3 0-1.0'	7A12024-16	Soil	01/11/07 00 00	01-12-2007 16 30
AH-3 1-1.5'	7A12024-17	Soil	01/11/07 00 00	01-12-2007 16 30
AH-4 0-1.0'	7A12024-19	Soil	01/11/07 00 00	01-12-2007 16 30
AH-4 1-1.5'	7A12024-20	Soil	01/11/07 00 00	01-12-2007 16 30

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

Project Pogo/ Baylus Cade Fed #10 Flowline Leak
 Project Number 2873
 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
AH-1 0-1.0' (7A12024-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EA71504	01/15/07	01/15/07	EPA 8021B	
Toluene	0.0797	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.155	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.339	0.0250	"	"	"	"	"	"	
Xylene (o)	0.665	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		123 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		149 %	80-120		"	"	"	"	S-04
Carbon Ranges C6-C12	165	10.0	mg/kg dry	1	EA71509	01/15/07	01/17/07	EPA 8015M	
Carbon Ranges C12-C28	923	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	93.6	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1180	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		123 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		128 %	70-130		"	"	"	"	
AH-1 1-1.5' (7A12024-02) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA71509	01/15/07	01/17/07	EPA 8015M	
Carbon Ranges C12-C28	49.5	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	49.5	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		118 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		128 %	70-130		"	"	"	"	
AH-1 2-2.5' (7A12024-03) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA71509	01/15/07	01/17/07	EPA 8015M	
Carbon Ranges C12-C28	87.3	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	87.3	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		113 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		128 %	70-130		"	"	"	"	

Highlander Environmental Corp
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Project Pogo/ Baylus Cade Fed #10 Flowline Leak
 Project Number 2873
 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
AH-2 0-1.0' (7A12024-08) Soil									
Benzene	9.69	0.200	mg/kg dry	200	EA71504	01/15/07	01/15/07	EPA 8021B	
Toluene	70.3	0.200	"	"	"	"	"	"	
Ethylbenzene	62.6	0.200	"	"	"	"	"	"	
Xylene (p/m)	101	0.200	"	"	"	"	"	"	
Xylene (o)	39.7	0.200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		602 %		80-120	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		156 %		80-120	"	"	"	"	S-04
Carbon Ranges C6-C12	9730	100	mg/kg dry	10	EA71509	01/15/07	01/17/07	EPA 8015M	
Carbon Ranges C12-C28	14000	100	"	"	"	"	"	"	
Carbon Ranges C28-C35	809	100	"	"	"	"	"	"	
Total Hydrocarbons	24500	100	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		32.2 %		70-130	"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		34.8 %		70-130	"	"	"	"	S-06
AH-2 1-1.5' (7A12024-09) Soil									
Carbon Ranges C6-C12	4240	50.0	mg/kg dry	5	EA71509	01/15/07	01/17/07	EPA 8015M	
Carbon Ranges C12-C28	6180	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	356	50.0	"	"	"	"	"	"	
Total Hydrocarbons	10800	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		38.4 %		70-130	"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		40.4 %		70-130	"	"	"	"	S-06
AH-2 2-2.5' (7A12024-10) Soil									
Carbon Ranges C6-C12	32.9	10.0	mg/kg dry	1	EA71509	01/15/07	01/17/07	EPA 8015M	
Carbon Ranges C12-C28	94.0	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	127	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		104 %		70-130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		108 %		70-130	"	"	"	"	

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Project: Pogo/ Baylous Cade Fed #10 Flowline Leak
 Project Number 2873
 Project Manager: Ike Tavarez

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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-3 0-1.0' (7A12024-16) Soil									
Carbon Ranges C6-C12	785	10.0	mg/kg dry	1	EA71509	01/15/07	01/18/07	EPA 8015M	
Carbon Ranges C12-C28	1760	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	87.8	10.0	"	"	"	"	"	"	
Total Hydrocarbons	2630	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		140 %	70-130		"	"	"	"	S-04
Surrogate: 1-Chlorooctadecane		150 %	70-130		"	"	"	"	S-04
AH-3 1-1.5' (7A12024-17) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA71509	01/15/07	01/18/07	EPA 8015M	
Carbon Ranges C12-C28	50.6	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	50.6	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		105 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		110 %	70-130		"	"	"	"	
AH-4 0-1.0' (7A12024-19) Soil									
Carbon Ranges C6-C12	3100	50.0	mg/kg dry	5	EA71509	01/15/07	01/18/07	EPA 8015M	
Carbon Ranges C12-C28	6310	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	344	50.0	"	"	"	"	"	"	
Total Hydrocarbons	9750	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		37.4 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		42.2 %	70-130		"	"	"	"	S-06
AH-4 1-1.5' (7A12024-20) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA71509	01/15/07	01/18/07	EPA 8015M	
Carbon Ranges C12-C28	30.2	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	30.2	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		124 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		130 %	70-130		"	"	"	"	

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Project Pogo/ Baylus Cade Fed #10 Flowline Leak
 Project Number 2873
 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
AH-1 0-1.0' (7A12024-01) Soil									
Chloride	3450	50.0	mg/kg	100	EA71808	01/18/07	01/18/07	EPA 300.0	
% Moisture	9.6	0.1	%	1	EA71607	01/15/07	01/16/07	% calculation	
AH-1 1-1.5' (7A12024-02) Soil									
Chloride	2240	40.0	mg/kg	80	EA71808	01/18/07	01/18/07	EPA 300.0	
% Moisture	13.6	0.1	%	1	EA71607	01/15/07	01/16/07	% calculation	
AH-1 2-2.5' (7A12024-03) Soil									
Chloride	4240	50.0	mg/kg	100	EA71904	01/19/07	01/19/07	EPA 300.0	
% Moisture	13.6	0.1	%	1	EA71607	01/15/07	01/16/07	% calculation	
AH-1 3-3.5' (7A12024-04) Soil									
Chloride	1890	40.0	mg/kg	80	EA71904	01/19/07	01/19/07	EPA 300.0	
AH-1 4-4.5' (7A12024-05) Soil									
Chloride	2770	50.0	mg/kg	100	EA71904	01/19/07	01/19/07	EPA 300.0	
AH-1 6-6.5' (7A12024-06) Soil									
Chloride	2430	50.0	mg/kg	100	EA72305	01/23/07	01/23/07	EPA 300.0	
AH-1 7-7.5' (7A12024-07) Soil									
Chloride	1510	25.0	mg/kg	50	EA72305	01/23/07	01/23/07	EPA 300.0	
AH-2 0-1.0' (7A12024-08) Soil									
Chloride	3120	50.0	mg/kg	100	EA71904	01/19/07	01/19/07	EPA 300.0	
% Moisture	9.6	0.1	%	1	EA71607	01/15/07	01/16/07	% calculation	
AH-2 1-1.5' (7A12024-09) Soil									
Chloride	4170	50.0	mg/kg	100	EA71904	01/19/07	01/19/07	EPA 300.0	
% Moisture	10.0	0.1	%	1	EA71607	01/15/07	01/16/07	% calculation	

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Project Pogo/ Bayluc Cade Fed #10 Flowline Leak
 Project Number. 2873
 Project Manager. Ike Tavarez

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-2 2-2.5' (7A12024-10) Soil									
Chloride	5150	100	mg/kg	200	EA71904	01/19/07	01/19/07	EPA 300.0	
% Moisture	12.6	0.1	%	1	EA71607	01/15/07	01/16/07	% calculation	
AH-2 3-3.5' (7A12024-11) Soil									
Chloride	2310	40.0	mg/kg	80	EA71904	01/19/07	01/19/07	EPA 300.0	
AH-2 4-4.5' (7A12024-12) Soil									
Chloride	559	10.0	mg/kg	20	EA71904	01/19/07	01/19/07	EPA 300.0	
AH-2 5-5.5' (7A12024-13) Soil									
Chloride	432	10.0	mg/kg	20	EA71904	01/19/07	01/19/07	EPA 300.0	
AH-2 6-6.5' (7A12024-14) Soil									
Chloride	423	10.0	mg/kg	20	EA72305	01/23/07	01/23/07	EPA 300.0	
AH-3 0-1.0' (7A12024-16) Soil									
Chloride	J [1.15]	5.00	mg/kg	10	EA71904	01/19/07	01/19/07	EPA 300.0	J
% Moisture	2.2	0.1	%	1	EA71607	01/15/07	01/16/07	% calculation	
AH-3 1-1.5' (7A12024-17) Soil									
Chloride	J [4.34]	5.00	mg/kg	10	EA71904	01/19/07	01/19/07	EPA 300.0	J
% Moisture	1.1	0.1	%	1	EA71607	01/15/07	01/16/07	% calculation	
AH-4 0-1.0' (7A12024-19) Soil									
Chloride	11.9	5.00	mg/kg	10	EA71904	01/19/07	01/19/07	EPA 300.0	
% Moisture	3.0	0.1	%	1	EA71607	01/15/07	01/16/07	% calculation	
AH-4 1-1.5' (7A12024-20) Soil									
Chloride	J [0.590]	5.00	mg/kg	10	EA71904	01/19/07	01/19/07	EPA 300.0	J
% Moisture	2.2	0.1	%	1	EA71607	01/15/07	01/16/07	% calculation	

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Highlander Environmental Corp 1910 N Big Spring St Midland TX, 79705	Project Pogo/ Baylus Cade Fed #10 Flowline Leak Project Number 2873 Project Manager Ike Tavarez	Fax (432) 682-3946
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Volatile Organic Compounds by EPA Method 8260B
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-2 2-2.5' (7A12024-10) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EA72403	01/24/07	01/24/07	EPA 8260B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	0.00563	0.00200	"	"	"	"	"	"	
Xylene (p/m)	0.0145	0.00200	"	"	"	"	"	"	
Xylene (o)	0.00902	0.00200	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		112 %	70-139	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	52-149	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.8 %	76-125	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		108 %	66-145	"	"	"	"	"	

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 Project Manager Ike Tavarez

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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
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Batch EA71504 - EPA 5030C (GC)

Blank (EA71504-BLK1)

Prepared & Analyzed 01/15/07

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	40.0		ug/kg	40.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	44.7		"	40.0		112	80-120			

LCS (EA71504-BS1)

Prepared & Analyzed 01/15/07

Benzene	1.27	0.0250	mg/kg wet	1.25		102	80-120			
Toluene	1.24	0.0250	"	1.25		99.2	80-120			
Ethylbenzene	1.22	0.0250	"	1.25		97.6	80-120			
Xylene (p/m)	2.41	0.0250	"	2.50		96.4	80-120			
Xylene (o)	1.15	0.0250	"	1.25		92.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.2		ug/kg	40.0		88.0	80-120			
Surrogate: 4-Bromofluorobenzene	40.8		"	40.0		102	80-120			

Calibration Check (EA71504-CCV1)

Prepared & Analyzed 01/15/07

Benzene	50.8		ug/kg	50.0		102	80-120			
Toluene	48.2		"	50.0		96.4	80-120			
Ethylbenzene	48.7		"	50.0		97.4	80-120			
Xylene (p/m)	90.5		"	100		90.5	80-120			
Xylene (o)	43.3		"	50.0		86.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.6		"	40.0		89.0	80-120			
Surrogate: 4-Bromofluorobenzene	36.2		"	40.0		90.5	80-120			

Matrix Spike (EA71504-MS1)

Source: 7A12026-02

Prepared 01/15/07 Analyzed 01/16/07

Benzene	1.17	0.0250	mg/kg dry	1.32	ND	88.6	80-120			
Toluene	1.17	0.0250	"	1.32	ND	88.6	80-120			
Ethylbenzene	1.43	0.0250	"	1.32	ND	108	80-120			
Xylene (p/m)	2.31	0.0250	"	2.64	ND	87.5	80-120			
Xylene (o)	1.08	0.0250	"	1.32	ND	81.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.4		ug/kg	40.0		96.0	80-120			
Surrogate: 4-Bromofluorobenzene	47.5		"	40.0		119	80-120			

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Page 8 of 16

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Project: Pogo/ Baylous Cade Fed #10 Flowline Leak
 Project Number 2873
 Project Manager Ike Tavarez

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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
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Batch EA71504 - EPA 5030C (GC)

Matrix Spike Dup (EA71504-MSD1)

Source: 7A12026-02

Prepared 01/15/07 Analyzed 01/16/07

Benzene	1.27	0.0250	mg/kg dry	1.32	ND	96.2	80-120	8.23	20	
Toluene	1.29	0.0250	"	1.32	ND	97.7	80-120	9.77	20	
Ethylbenzene	1.59	0.0250	"	1.32	ND	120	80-120	10.5	20	
Xylene (p/m)	2.55	0.0250	"	2.64	ND	96.6	80-120	9.89	20	
Xylene (o)	1.23	0.0250	"	1.32	ND	93.2	80-120	13.0	20	
Surrogate: a,a,a-Trifluorotoluene	33.3		ug/kg	40.0		83.2	80-120			
Surrogate: 4-Bromofluorobenzene	42.5		"	40.0		106	80-120			

Batch EA71509 - Solvent Extraction (GC)

Blank (EA71509-BLK1)

Prepared 01/15/07 Analyzed 01/17/07

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 Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	49.4		mg/kg	50.0		98.8	70-130			
Surrogate: 1-Chlorooctadecane	48.3		"	50.0		96.6	70-130			

LCS (EA71509-BS1)

Prepared 01/15/07 Analyzed 01/17/07

Carbon Ranges C6-C12	561	10.0	mg/kg wet	500		112	75-125			
Carbon Ranges C12-C28	473	10.0	"	500		94.6	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1030	10.0	"	1000		103	75-125			
Surrogate: 1-Chlorooctane	58.4		mg/kg	50.0		117	70-130			
Surrogate: 1-Chlorooctadecane	49.5		"	50.0		99.0	70-130			

Calibration Check (EA71509-CCV1)

Prepared 01/15/07 Analyzed 01/17/07

Carbon Ranges C6-C12	228		mg/kg	250		91.2	80-120			
Carbon Ranges C12-C28	251		"	250		100	80-120			
Total Hydrocarbons	479		"	500		95.8	80-120			
Surrogate: 1-Chlorooctane	51.3		"	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	47.1		"	50.0		94.2	70-130			

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Project Pogo/ Baylus Cade Fed #10 Flowline Leak
 Project Number 2873
 Project Manager Ike Tavarez

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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
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Batch EA71509 - Solvent Extraction (GC)

Matrix Spike (EA71509-MS1)		Source: 7A12026-04		Prepared 01/15/07 Analyzed 01/17/07						
Carbon Ranges C6-C12	639	10.0	mg/kg dry	525	ND	122	75-125			
Carbon Ranges C12-C28	534	10.0	"	525	ND	102	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1170	10.0	"	1050	ND	111	75-125			
Surrogate 1-Chlorooctane	62.5		mg/kg	50.0		125	70-130			
Surrogate 1-Chlorooctadecane	62.5		"	50.0		125	70-130			

Matrix Spike Dup (EA71509-MSD1)		Source: 7A12026-04		Prepared 01/15/07 Analyzed 01/17/07						
Carbon Ranges C6-C12	632	10.0	mg/kg dry	525	ND	120	75-125	1.65	20	
Carbon Ranges C12-C28	509	10.0	"	525	ND	97.0	75-125	5.03	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1140	10.0	"	1050	ND	109	75-125	1.82	20	
Surrogate 1-Chlorooctane	51.1		mg/kg	50.0		102	70-130			
Surrogate 1-Chlorooctadecane	52.1		"	50.0		104	70-130			

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 Project Number 2873
 Project Manager Ike Tavarez

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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 EA71607 - General Preparation (Prep)

Blank (EA71607-BLK1)				Prepared 01/15/07 Analyzed 01/16/07						
% Solids	99.8		%							
Duplicate (EA71607-DUP1)				Source: 7A12022-01 Prepared 01/15/07 Analyzed 01/16/07						
% Solids	96.4		%		94.6			1.88	20	
Duplicate (EA71607-DUP2)				Source: 7A12022-32 Prepared 01/15/07 Analyzed 01/16/07						
% Solids	95.2		%		95.1			0.105	20	
Duplicate (EA71607-DUP3)				Source: 7A12024-20 Prepared 01/15/07 Analyzed 01/16/07						
% Solids	97.7		%		97.8			0.102	20	
Duplicate (EA71607-DUP4)				Source: 7A12027-12 Prepared 01/15/07 Analyzed 01/16/07						
% Solids	92.4		%		92.0			0.434	20	
Duplicate (EA71607-DUP5)				Source: 7A15002-03 Prepared 01/15/07 Analyzed 01/16/07						
% Solids	83.9		%		85.9			2.36	20	

Batch EA71808 - Water Extraction

Blank (EA71808-BLK1)				Prepared & Analyzed 01/18/07						
Chloride	ND	0.500	mg/kg							
LCS (EA71808-BS1)				Prepared & Analyzed 01/18/07						
Chloride	11.0	0.500	mg/kg	10.0		110	80-120			
Calibration Check (EA71808-CCV1)				Prepared & Analyzed 01/18/07						
Chloride	10.4		mg/L	10.0		104	80-120			

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

Project Pogo/ Bayluis Cade Fed #10 Flowline Leak
 Project Number 2873
 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 EA71808 - Water Extraction										
Duplicate (EA71808-DUP1) Source: 7A12021-01 Prepared & Analyzed 01/18/07										
Chloride	27.8	10.0	mg/kg		28.4			2.14	20	
Duplicate (EA71808-DUP2) Source: 7A12024-01 Prepared & Analyzed 01/18/07										
Chloride	3520	50.0	mg/kg		3450			2.01	20	
Matrix Spike (EA71808-MS1) Source: 7A12021-01 Prepared & Analyzed 01/18/07										
Chloride	248	10.0	mg/kg	200	28.4	110	80-120			
Matrix Spike (EA71808-MS2) Source: 7A12024-01 Prepared & Analyzed 01/18/07										
Chloride	4580	50.0	mg/kg	1000	3450	113	80-120			
Batch EA71904 - Water Extraction										
Blank (EA71904-BLK1) Prepared & Analyzed 01/19/07										
Chloride	ND	0.500	mg/kg							
LCS (EA71904-BS1) Prepared & Analyzed 01/19/07										
Chloride	10.1	0.500	mg/kg	10.0		101	80-120			
Calibration Check (EA71904-CCV1) Prepared & Analyzed 01/19/07										
Chloride	10.1		mg/L	10.0		101	80-120			
Duplicate (EA71904-DUP1) Source: 7A12024-03 Prepared & Analyzed 01/19/07										
Chloride	4210	50.0	mg/kg		4240			0.710	20	
Duplicate (EA71904-DUP2) Source: 7A15001-01 Prepared & Analyzed 01/19/07										
Chloride	647	50.0	mg/kg		617			4.75	20	

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

Project Pogo/ Baylus Cade Fed #10 Flowline Leak
 Project Number 2873
 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 EA71904 - Water Extraction										
Matrix Spike (EA71904-MS1)		Source: 7A12024-03			Prepared & Analyzed 01/19/07					
Chloride	5050	50.0	mg/kg	1000	4240	81.0	80-120			
Matrix Spike (EA71904-MS2)		Source: 7A15001-01			Prepared & Analyzed 01/19/07					
Chloride	1690	50.0	mg/kg	1000	617	107	80-120			
Batch EA72305 - Water Extraction										
Blank (EA72305-BLK1)		Prepared & Analyzed 01/23/07								
Chloride	ND	0.500	mg/kg							
LCS (EA72305-BS1)		Prepared & Analyzed: 01/23/07								
Chloride	10.7	0.500	mg/kg	10.0		107	80-120			
Calibration Check (EA72305-CCV1)		Prepared & Analyzed 01/23/07								
Chloride	9.89		mg/L	10.0		98.9	80-120			
Duplicate (EA72305-DUP1)		Source: 7A19009-01			Prepared & Analyzed 01/23/07					
Chloride	4160	50.0	mg/kg		4220			1.43	20	
Duplicate (EA72305-DUP2)		Source: 7A12024-06			Prepared & Analyzed 01/23/07					
Chloride	2450	50.0	mg/kg		2430			0.820	20	
Matrix Spike (EA72305-MS1)		Source: 7A19009-01			Prepared & Analyzed 01/23/07					
Chloride	6600	100	mg/kg	2000	4220	119	80-120			
Matrix Spike (EA72305-MS2)		Source: 7A12024-06			Prepared & Analyzed 01/23/07					
Chloride	3630	50.0	mg/kg	1000	2430	120	80-120			

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

Project Pogo/ Baylus Cade Fed #10 Flowline Leak
Project Number 2873
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 EA72403 - EPA 5030C (GCMS)

Blank (EA72403-BLK1)

Prepared & Analyzed 01/24/07

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
<i>Surrogate Dibromofluoromethane</i>	55.8		ug/kg	50.0		112	70-139			
<i>Surrogate 1,2-Dichloroethane-d4</i>	48.6		"	50.0		97.2	52-149			
<i>Surrogate Toluene-d8</i>	54.7		"	50.0		109	76-125			
<i>Surrogate 4-Bromofluorobenzene</i>	52.9		"	50.0		106	66-145			

LCS (EA72403-BS1)

Prepared: 01/24/07 Analyzed 01/25/07

Benzene	0.0501	0.00100	mg/kg wet	0.0500		100	70-130			
Toluene	0.0484	0.00100	"	0.0500		96.8	70-130			
Ethylbenzene	0.0545	0.00100	"	0.0500		109	70-130			
Xylene (p/m)	0.102	0.00100	"	0.100		102	70-130			
Xylene (o)	0.0543	0.00100	"	0.0500		109	70-130			
<i>Surrogate Dibromofluoromethane</i>	50.0		ug/kg	50.0		100	70-139			
<i>Surrogate 1,2-Dichloroethane-d4</i>	42.7		"	50.0		85.4	52-149			
<i>Surrogate Toluene-d8</i>	47.2		"	50.0		94.4	76-125			
<i>Surrogate 4-Bromofluorobenzene</i>	51.8		"	50.0		104	66-145			

Calibration Check (EA72403-CCV1)

Prepared & Analyzed 01/24/07

Toluene	47.8		ug/kg	50.0		95.6	70-130			
Ethylbenzene	51.4		"	50.0		103	70-130			
<i>Surrogate Dibromofluoromethane</i>	55.6		"	50.0		111	0-200			
<i>Surrogate 1,2-Dichloroethane-d4</i>	51.2		"	50.0		102	0-200			
<i>Surrogate Toluene-d8</i>	47.5		"	50.0		95.0	0-200			
<i>Surrogate 4-Bromofluorobenzene</i>	60.5		"	50.0		121	0-200			

Environmental Lab of Texas

A Xenco Laboratories, Inc. Company

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.

Page 14 of 16

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

Project Pogo/ Baylus Cade Fed #10 Flowline Leak
 Project Number 2873
 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 EA72403 - EPA 5030C (GCMS)

Matrix Spike (EA72403-MS1)		Source: 7A19001-04		Prepared 01/24/07 Analyzed 01/25/07						
Benzene	0.114	0.00200	mg/kg dry	0.116	ND	98.3	70-130			
Toluene	0.103	0.00200	"	0.116	ND	88.8	70-130			
Ethylbenzene	0.102	0.00200	"	0.116	ND	87.9	70-130			
Xylene (p/m)	0.188	0.00200	"	0.233	ND	80.7	70-130			
Xylene (o)	0.102	0.00200	"	0.116	ND	87.9	70-130			
<i>Surrogate Dibromofluoromethane</i>	<i>54.4</i>		<i>ug/kg</i>	<i>50.0</i>		<i>109</i>	<i>70-139</i>			
<i>Surrogate 1,2-Dichloroethane-d4</i>	<i>48.7</i>		<i>"</i>	<i>50.0</i>		<i>97.4</i>	<i>52-149</i>			
<i>Surrogate Toluene-d8</i>	<i>45.0</i>		<i>"</i>	<i>50.0</i>		<i>90.0</i>	<i>76-125</i>			
<i>Surrogate 4-Bromofluorobenzene</i>	<i>47.7</i>		<i>"</i>	<i>50.0</i>		<i>95.4</i>	<i>66-145</i>			

Matrix Spike Dup (EA72403-MSD1)		Source: 7A19001-04		Prepared 01/24/07 Analyzed 01/25/07						
Benzene	0.125	0.00200	mg/kg dry	0.116	ND	108	70-130	9.40	20	
Toluene	0.123	0.00200	"	0.116	ND	106	70-130	17.7	20	
Ethylbenzene	0.122	0.00200	"	0.116	ND	105	70-130	17.7	20	
Xylene (p/m)	0.233	0.00200	"	0.233	ND	100	70-130	21.4	20	R
Xylene (o)	0.125	0.00200	"	0.116	ND	108	70-130	20.5	20	R
<i>Surrogate Dibromofluoromethane</i>	<i>65.4</i>		<i>ug/kg</i>	<i>50.0</i>		<i>131</i>	<i>70-139</i>			
<i>Surrogate 1,2-Dichloroethane-d4</i>	<i>61.6</i>		<i>"</i>	<i>50.0</i>		<i>123</i>	<i>52-149</i>			
<i>Surrogate Toluene-d8</i>	<i>50.9</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>76-125</i>			
<i>Surrogate 4-Bromofluorobenzene</i>	<i>55.9</i>		<i>"</i>	<i>50.0</i>		<i>112</i>	<i>66-145</i>			

Environmental Lab of Texas

A Xenco Laboratories, Inc. Company

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

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

Project: Pogo/ Baylus Cade Fed #10 Flowline Leak
Project Number: 2873
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

R The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits

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:



Date: 1/26/2007

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

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

A Xenco Laboratories, Inc. Company

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.

Page 16 of 16

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559

Fax (452) 682-3946

CLIENT NAME: **P060** SITE MANAGER: **Ike Taveréz**

PROJECT NO.: **2873** PROJECT NAME: **P060/Baylor's Code Federal #10 Flourine**
Lea County, NM SAMPLE IDENTIFICATION: **Lea**

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	DEPTH	NUMBER OF CONTAINERS	FLTERED (Y/N)	PRESERVATIVE METHOD
7A12024									
-11	11/1/07		S	X	X	AH-2 3'-3.5'	1		NONE
-12			S	X	X	AH-2 4'-4.5'	1		ICE
-13			S	X	X	AH-2 5'-5.5'	1		HNO3
-14			S	X	X	AH-2 6'-6.5'	1		HCL
-15			S	X	X	AH-2 8'-8.5'	1		
-16			S	X	X	AH-3 0'-1.0'	1		
-17			S	X	X	AH-3 1'-1.5'	1		
-18			S	X	X	AH-3 2'-2.5'	1		
-19			S	X	X	AH-4 0'-1.0'	1		
-20			S	X	X	AH-4 1'-1.5'	1		

RELINQUISHED BY: (Signature) *[Signature]* Date: **11/2/07** Time: **16:50** RECEIVED BY: (Signature) _____ Date: _____ Time: _____

RELINQUISHED BY: (Signature) _____ Date: _____ Time: _____ RECEIVED BY: (Signature) _____ Date: _____ Time: _____

RELINQUISHED BY: (Signature) _____ Date: _____ Time: _____ RECEIVED BY: (Signature) _____ Date: _____ Time: _____

RECEIVING LABORATORY: _____ RECEIVED BY: (Signature) *[Signature]* Date: **11/2/07** Time: **1430**

ADDRESS: _____ STATE: _____ ZIP: _____

CONTACT: _____ PHONE: _____

SAMPLE CONDITION WHEN RECEIVED: _____ MATRIX: W-Water A-Air SD-Solid S-Soil SL-Sludge O-Other

REMARKS: _____

ANALYSIS REQUEST

(Circle or Specify Method No.)

<input checked="" type="checkbox"/>	MTBE 8080/808
<input checked="" type="checkbox"/>	TRM 4181 8016 MOD 711005
<input checked="" type="checkbox"/>	PAH 8270
<input checked="" type="checkbox"/>	PCRA Metals Ag As Ba Cd Cr Pb Hg Se
<input checked="" type="checkbox"/>	TCP Metals Ag As Ba Cd Cr Pd Hg Se
<input checked="" type="checkbox"/>	TCP Volatiles
<input checked="" type="checkbox"/>	TCP Semi Volatiles
<input checked="" type="checkbox"/>	HCI
<input checked="" type="checkbox"/>	GCMS Vol. 8240/8200/824
<input checked="" type="checkbox"/>	GCMS Semi Vol. 8270/828
<input checked="" type="checkbox"/>	PCB's 8080/808
<input checked="" type="checkbox"/>	Per. 808/808
<input checked="" type="checkbox"/>	BOD, TSS, pH, TDS, Chloride
<input checked="" type="checkbox"/>	Gemmu Spec.
<input checked="" type="checkbox"/>	Alpha Beta (Air)
<input checked="" type="checkbox"/>	PLM (Asbestos)

SAMPLED BY: (Print & Sign) _____ Date: _____ Time: _____

SAMPLE SHIPPED BY: (Circle) _____ Date: _____ Time: _____

HAND DELIVERED _____ Date: _____ Time: _____

HIGHLANDER CONTACT PERSON: _____ Results by: _____

RUSH Charges Authorized: Yes _____ No _____

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

(X) Add as per e-mail 1/23

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: **Pogo**

SITE MANAGER: **Ike Javarez**

PROJECT NO.: **2873**

PROJECT NAME: **Pogo/Baylous Cade Federal #10 Floodline**

Lea County, NH

SAMPLE IDENTIFICATION

1 each

NUMBER OF CONTAINERS

DATE TIME MATRIX COMP. GRAB

DATE TIME

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Highlander Environmental
 Date/ Time: 01-12-07 @ 1630
 Lab ID #: TA 12024
 Initials: JMM

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 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

Jeanne McMurrey

From: "Ray" <rtaylor@hec-enviro.com>
To: "Jeanne McMurrey" <jeanne@elabtxas.com>
Sent: Tuesday, January 23, 2007 8:35 AM
Subject: RE: Environmental Lab of Texas News

Request for further analysis on
Project Pogo Baylus Cade Fed #10 Flowline Leak
Project # 2873
Lab order # 7A12024

Please run BTEX on AH-2 2'-2.5'
Chlorides on AH-1 6'-6.5' & 7'-7.5'
AH-2 6'-6.5'

Raymond P. Taylor

-----Original Message-----

From: Jeanne McMurrey [mailto:jeanne@elabtxas.com]
Sent: Friday, January 12, 2007 3:00 PM
To: Ray Taylor; Jeff Kindley; Gary Miller; Jim Hunnicutt; Ike Tavarez; Tim Reed
Subject: Re: Environmental Lab of Texas News

Jeanne McMurrey
Environmental Lab of Texas I, Ltd.
12600 West 1-20 East
Odessa, Texas 79765
432-563-1800

--

This message has been scanned for viruses and dangerous content by **Basin Broadband, Inc.**, utilizing DefenderMX technology, and is believed to be clean.

1/23/2007

Lab Analysis

May 23, 2007

2

Report Date: May 23, 2007
2873

Work Order: 7051702
Pogo-Baylus Code Federal #10

Page Number: 1 of 1

Summary Report

Ike Tavarez
Highlander Environmental Services
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: May 23, 2007

Work Order: 7051702



Project Name: Pogo-Baylus Code Federal #10
Project Number: 2873

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
124325	BH-1 (9-10')	soil	2007-05-15	00:00	2007-05-16
124326	BH-1 (14-15')	soil	2007-05-15	00:00	2007-05-16

Sample: 124325 - BH-1 (9-10')

Param	Flag	Result	Units	RL
Chloride		96.6	mg/Kg	1.00

Sample: 124326 - BH-1 (14-15')

Param	Flag	Result	Units	RL
Chloride		100	mg/Kg	1.00



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
 200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
 6015 Harris Parkway, Suite 110 Ft Worth, Texas 76132 817•201•5260
 E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Ike Tavarez
 Highlander Environmental Services
 1910 N Big Spring Street
 Midland, TX, 79705

Report Date: May 23, 2007

Work Order: 7051702



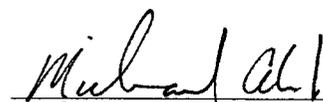
Project Name: Pogo-Baylus Code Federal #10
 Project Number: 2873

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
124325	BH-1 (9-10')	soil	2007-05-15	00:00	2007-05-16
124326	BH-1 (14-15')	soil	2007-05-15	00:00	2007-05-16

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc


 Dr Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank

Case Narrative

Samples for project Pogo-Baylus Code Federal #10 were received by TraceAnalysis, Inc. on 2007-05-16 and assigned to work order 7051702. Samples for work order 7051702 were received intact at a temperature of 4 C.

Samples were analyzed for the following tests using their respective methods.

<u>Test</u>	<u>Method</u>
Chloride (IC)	E 300.0

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7051702 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 124325 - BH-1 (9-10')

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37432	Date Analyzed:	2007-05-23	Analyzed By:	ER
Prep Batch:	32458	Sample Preparation:	2007-05-22	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		96.6	mg/Kg	5	1.00

Sample: 124326 - BH-1 (14-15')

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37430	Date Analyzed:	2007-05-22	Analyzed By:	ER
Prep Batch:	32457	Sample Preparation:	2007-05-22	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		100	mg/Kg	5	1.00

Method Blank (1) QC Batch: 37430

QC Batch:	37430	Date Analyzed:	2007-05-22	Analyzed By:	ER
Prep Batch:	32457	QC Preparation:	2007-05-22	Prepared By:	ER

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.140	mg/Kg	1

Method Blank (1) QC Batch: 37432

QC Batch:	37432	Date Analyzed:	2007-05-23	Analyzed By:	ER
Prep Batch:	32458	QC Preparation:	2007-05-22	Prepared By:	ER

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.140	mg/Kg	1

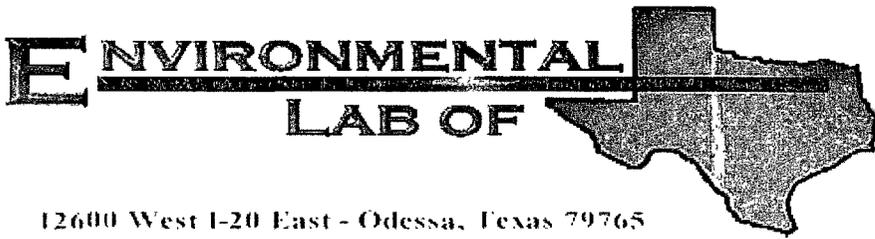
Laboratory Control Spike (LCS-1)

QC Batch:	37430	Date Analyzed:	2007-05-22	Analyzed By:	ER
Prep Batch:	32457	QC Preparation:	2007-05-22	Prepared By:	ER

Lab Analysis

June 20, 2007

3



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Pogo/ Baylus Cade Fed #10 Flowline Leak

Project Number: 2873

Location: Lea Co., NM

Lab Order Number: 7F13021

Report Date: 06/20/07

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

Project Pogo/ Baylus Cade Fed #10 Flowline Leak
Project Number 2873
Project Manager Ike Tavarez

Fax (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-3A (0-1 0') BEB (1 0')	7F13021-01	Soil	06/07/07 00 00	06-13-2007 15 00
AH-4A (0-1.0') BEB (1 0')	7F13021-02	Soil	06/07/07 00 00	06-13-2007 15 00
AH-1A (0-1 0') BEB (3 0')	7F13021-03	Soil	06/08/07 00:00	06-13-2007 15 00
AH-2A (0-1 0') BEB (7 0')	7F13021-04	Soil	06/08/07 00 00	06-13-2007 15:00

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

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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-3A (0-1.0') BEB (1.0') (7F13021-01) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EF71809	06/18/07	06/18/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		80.0 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		77.2 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF71402	06/14/07	06/15/07	EPA 8015M	
Carbon Ranges C12-C28	23.2	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	21.8	10.0	"	"	"	"	"	"	
Total Hydrocarbons	45.0	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		88.6 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		96.2 %	70-130		"	"	"	"	
AH-4A (0-1.0') BEB (1.0') (7F13021-02) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EF71809	06/18/07	06/18/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		76.0 %	75-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		70.8 %	75-125		"	"	"	"	S-04
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF71402	06/14/07	06/15/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		82.8 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		92.6 %	70-130		"	"	"	"	
AH-1A (0-1.0') BEB (3.0') (7F13021-03) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EF71809	06/18/07	06/18/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		73.6 %	75-125		"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		72.2 %	75-125		"	"	"	"	S-04
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF71402	06/14/07	06/15/07	EPA 8015M	

Environmental Lab of Texas

A Xenco Laboratories Company

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

Project Pogo/ Baylus Cade Fed #10 Flowline Leak
 Project Number 2873
 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
AH-1A (0-1.0') BEB (3.0') (7F13021-03) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EF71402	06/14/07	06/15/07	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		86.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		95.6 %	70-130		"	"	"	"	
AH-2A (0-1.0') BEB (7.0') (7F13021-04) Soil									
Benzene	J [0.00985]	0.0250	mg/kg dry	25	EF71809	06/18/07	06/19/07	EPA 8021B	J
Toluene	0.757	0.0250	"	"	"	"	"	"	
Ethylbenzene	1.22	0.0250	"	"	"	"	"	"	
Xylene (p/m)	3.11	0.0250	"	"	"	"	"	"	
Xylene (o)	1.16	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		78.2 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.6 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	264	10.0	mg/kg dry	1	EF71402	06/14/07	06/15/07	EPA 8015M	
Carbon Ranges C12-C28	812	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	93.4	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1180	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		101 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		96.6 %	70-130		"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-3A (0-1.0') BEB (1.0') (7F13021-01) Soil									
Chloride	21.3	5 00	mg/L	1	EF71517	06/15/07	06/15/07	SW846-9253	
% Moisture	7.2	0 1	%	"	EF71509	06/14/07	06/14/07	% calculation	
AH-4A (0-1.0') BEB (1.0') (7F13021-02) Soil									
Chloride	21.3	5 00	mg/L	1	EF71517	06/15/07	06/15/07	SW846-9253	
% Moisture	9.4	0 1	%	"	EF71509	06/14/07	06/14/07	% calculation	
AH-1A (0-1.0') BEB (3.0') (7F13021-03) Soil									
Chloride	2450	5 00	mg/L	1	EF71517	06/15/07	06/15/07	SW846-9253	
% Moisture	10.7	0 1	%	"	EF71509	06/14/07	06/14/07	% calculation	
AH-2A (0-1.0') BEB (7.0') (7F13021-04) Soil									
Chloride	2230	5 00	mg/L	1	EF71517	06/15/07	06/15/07	SW846-9253	
% Moisture	10.4	0 1	%	"	EF71509	06/14/07	06/14/07	% calculation	

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Page 4 of 9

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Project Pogo/ Baylus Cade Fed #10 Flowline Leak
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 Project Manager. Ike Tavarez

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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
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Batch EF71402 - Solvent Extraction (GC)

Blank (EF71402-BLK1)		Prepared 06/14/07 Analyzed 06/15/07								
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 Hydrocarbons	ND	10.0	"							
Surrogate 1-Chlorooctane	38.0		mg/kg	50.0		76.0	70-130			
Surrogate 1-Chlorooctadecane	40.0		"	50.0		80.0	70-130			

LCS (EF71402-BS1)		Prepared 06/14/07 Analyzed 06/15/07								
Carbon Ranges C6-C12	494	10.0	mg/kg wet	500		98.8	75-125			
Carbon Ranges C12-C28	443	10.0	"	500		88.6	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	937	10.0	"	1000		93.7	75-125			
Surrogate 1-Chlorooctane	47.7		mg/kg	50.0		95.4	70-130			
Surrogate 1-Chlorooctadecane	44.6		"	50.0		89.2	70-130			

Calibration Check (EF71402-CCV1)		Prepared 06/14/07 Analyzed 06/15/07								
Carbon Ranges C6-C12	217		mg/kg	250		86.8	80-120			
Carbon Ranges C12-C28	239		"	250		95.6	80-120			
Total Hydrocarbons	456		"	500		91.2	80-120			
Surrogate 1-Chlorooctane	46.7		"	50.0		93.4	70-130			
Surrogate 1-Chlorooctadecane	50.3		"	50.0		101	70-130			

Matrix Spike (EF71402-MS1)		Source: 7F13011-03		Prepared 06/14/07 Analyzed 06/15/07						
Carbon Ranges C6-C12	569	10.0	mg/kg dry	546	ND	104	75-125			
Carbon Ranges C12-C28	499	10.0	"	546	ND	91.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1070	10.0	"	1090	ND	98.2	75-125			
Surrogate 1-Chlorooctane	51.4		mg/kg	50.0		103	70-130			
Surrogate 1-Chlorooctadecane	45.9		"	50.0		91.8	70-130			

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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
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Batch EF71402 - Solvent Extraction (GC)

Matrix Spike Dup (EF71402-MSD1)	Source: 7F13011-03		Prepared 06/14/07		Analyzed 06/15/07					
Carbon Ranges C6-C12	555	10.0	mg/kg dry	546	ND	102	75-125	1.94	20	
Carbon Ranges C12-C28	485	10.0	"	546	ND	88.8	75-125	2.89	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1040	10.0	"	1090	ND	95.4	75-125	2.89	20	
Surrogate 1-Chlorooctane	48.9		mg/kg	50.0		97.8	70-130			
Surrogate 1-Chlorooctadecane	44.4		"	50.0		88.8	70-130			

Batch EF71809 - EPA 5030C (GC)

Blank (EF71809-BLK1)	Prepared & Analyzed 06/18/07	
Benzene	ND	0.00100 mg/kg wet
Toluene	ND	0.00100 "
Ethylbenzene	ND	0.00100 "
Xylene (p/m)	ND	0.00100 "
Xylene (o)	ND	0.00100 "
Surrogate a,a,a-Trifluorotoluene	39.0	ug/kg 50.0 78.0 75-125
Surrogate 4-Bromofluorobenzene	38.4	" 50.0 76.8 75-125

LCS (EF71809-BS1)	Prepared & Analyzed 06/18/07	
Benzene	0.0401	0.00100 mg/kg wet 0.0500 80.2 80-120
Toluene	0.0410	0.00100 " 0.0500 82.0 80-120
Ethylbenzene	0.0445	0.00100 " 0.0500 89.0 80-120
Xylene (p/m)	0.0806	0.00100 " 0.100 80.6 80-120
Xylene (o)	0.0415	0.00100 " 0.0500 83.0 80-120
Surrogate a,a,a-Trifluorotoluene	37.8	ug/kg 50.0 75.6 75-125
Surrogate 4-Bromofluorobenzene	37.8	" 50.0 75.6 75-125

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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
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Batch EF71809 - EPA 5030C (GC)

Calibration Check (EF71809-CCV1) Prepared & Analyzed: 06/18/07										
Benzene	0.0425		mg/kg wet	0.0500		85.0	80-120			
Toluene	0.0436		"	0.0500		87.2	80-120			
Ethylbenzene	0.0428		"	0.0500		85.6	80-120			
Xylene (p/m)	0.0841		"	0.100		84.1	80-120			
Xylene (o)	0.0446		"	0.0500		89.2	80-120			
<i>Surrogate a,a,a-Trifluorotoluene</i>	43.7		ug/kg	50.0		87.4	75-125			
<i>Surrogate 4-Bromofluorobenzene</i>	43.3		"	50.0		86.6	75-125			

Matrix Spike (EF71809-MS1) Source: 7F15009-01 Prepared & Analyzed 06/18/07										
Benzene	1.10	0.0250	mg/kg dry	1.34	ND	82.1	80-120			
Toluene	1.15	0.0250	"	1.34	ND	85.8	80-120			
Ethylbenzene	1.25	0.0250	"	1.34	ND	93.3	80-120			
Xylene (p/m)	2.26	0.0250	"	2.69	ND	84.0	80-120			
Xylene (o)	1.18	0.0250	"	1.34	ND	88.1	80-120			
<i>Surrogate a,a,a-Trifluorotoluene</i>	43.5		ug/kg	50.0		87.0	75-125			
<i>Surrogate 4-Bromofluorobenzene</i>	40.6		"	50.0		81.2	75-125			

Matrix Spike Dup (EF71809-MSD1) Source: 7F15009-01 Prepared & Analyzed 06/18/07										
Benzene	1.06	0.0250	mg/kg dry	1.34	ND	79.1	80-120	3.72	20	M8
Toluene	1.10	0.0250	"	1.34	ND	82.1	80-120	4.41	20	
Ethylbenzene	1.20	0.0250	"	1.34	ND	89.6	80-120	4.05	20	
Xylene (p/m)	2.17	0.0250	"	2.69	ND	80.7	80-120	4.01	20	
Xylene (o)	1.14	0.0250	"	1.34	ND	85.1	80-120	3.46	20	
<i>Surrogate a,a,a-Trifluorotoluene</i>	37.6		ug/kg	50.0		75.2	75-125			
<i>Surrogate 4-Bromofluorobenzene</i>	38.7		"	50.0		77.4	75-125			

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Project Pogo/ Baylus Cade Fed #10 Flowline Leak
 Project Number 2873
 Project Manager Ike Tavarez

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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 EF71509 - General Preparation (Prep)

Blank (EF71509-BLK1)				Prepared & Analyzed 06/14/07						
% Solids	100		%							
Duplicate (EF71509-DUP1)				Source: 7F13016-01 Prepared & Analyzed 06/14/07						
% Solids	90.5		%		91.2			0.770	20	
Duplicate (EF71509-DUP2)				Source: 7F14010-08 Prepared & Analyzed 06/14/07						
% Solids	92.5		%		90.1			2.63	20	
Duplicate (EF71509-DUP3)				Source: 7F14010-28 Prepared & Analyzed 06/14/07						
% Solids	96.3		%		93.6			2.84	20	

Batch EF71517 - General Preparation (WetChem)

Blank (EF71517-BLK1)				Prepared & Analyzed 06/15/07						
Chloride	0.00	5.00	mg/L							
LCS (EF71517-BS1)				Prepared & Analyzed 06/15/07						
Chloride	94.7	5.00	mg/L	100		94.7	80-120			
Matrix Spike (EF71517-MS1)				Source: 7F13011-03 Prepared & Analyzed 06/15/07						
Chloride	468	5.00	mg/L	500	42.5	85.1	80-120			
Matrix Spike Dup (EF71517-MSD1)				Source: 7F13011-03 Prepared & Analyzed 06/15/07						
Chloride	468	5.00	mg/L	500	42.5	85.1	80-120	0.00	20	
Reference (EF71517-SRM1)				Prepared & Analyzed 06/15/07						
Chloride	53.2	5.00	mg/L	50.0		106	80-120			

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Project Pogo/ Bayluc Cade Fed #10 Flowline Leak
Project Number: 2873
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Fax: (432) 682-3946

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect

M8 The MS and/or MSD were below the acceptance limits See Blank Spike (LCS)

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:



Date: 6/20/2007

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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If you have received this material in error, please notify us immediately at 432-563-1800.

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Page 9 of 9

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

PAGE: OF:

ANALYSIS REQUEST (Circle or Specify Method No.)

CLIENT NAME:			SITE MANAGER:			NUMBER OF CONTAINERS	PRESERVATIVE METHOD				MTEB 8080/808	MTH 8080/808	TFH 418.1	PAH 8270	RCA Metals Ag As Ba Ca Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC-MS Vol. 8240/8260/824	GC-MS Saml. Vol. 8270/825	PCB's 8080/808	Pest. 808/808	HOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)			
PROJECT NO.:			PROJECT NAME:				HCL	HNOS	ICE	NONE																				
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	NUMBER OF CONTAINERS	HCL	HNOS	ICE	NONE	MTEB 8080/808	MTH 8080/808	TFH 418.1	PAH 8270	RCA Metals Ag As Ba Ca Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC-MS Vol. 8240/8260/824	GC-MS Saml. Vol. 8270/825	PCB's 8080/808	Pest. 808/808	HOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	
01	6/7/07		S			X AH-3A (0-1.0') BEB (1.0')	1			X			✓	✓											✓					
02	6/7/07		S			X AH-4A (0-1.0') BEB (1.0')	1			X			✓	✓											✓					
03	6/8/07		S			X AH-1A (0-1.0') BEB (3.0')	1			X			✓	✓											✓					
04	6/8/07		S			X AH-2A (0-1.0') BEB (7.0')	1			X			✓	✓											✓					

RELINQUISHED BY: (Signature) <i>Jessie K...</i>	Date: <u>June 13, 2007</u> Time: <u>15:00</u>	RECEIVED BY: (Signature) <i>Ike T...</i>	Date: _____ Time: _____	SAMPLED BY: (Print & Sign) <i>Kath Harrison / [Signature]</i>	Date: <u>6/11/07</u> Time: _____
RELINQUISHED BY: (Signature)	Date: _____ Time: _____	RECEIVED BY: (Signature)	Date: _____ Time: _____	SAMPLE SHIPPED BY: (Circle) FEDEX <input type="checkbox"/> BUS <input type="checkbox"/> AIRBILL # _____ UPS <input type="checkbox"/> OTHER: _____	
RELINQUISHED BY: (Signature)	Date: _____ Time: _____	RECEIVED BY: (Signature)	Date: _____ Time: _____	HIGHLANDER CONTACT PERSON: <u>Ike Tavaréz</u>	Results by: RUSH Charges Authorized: Yes No
RECEIVING LABORATORY: <u>ELT</u>	ADDRESS: _____ CITY: <u>Odessa</u> STATE: <u>Texas</u> ZIP: _____ CONTACT: _____ PHONE: _____	RECEIVED BY: (Signature) <i>[Signature]</i>	DATE: <u>6/13/07</u> TIME: <u>15:00</u>		
SAMPLE CONDITION WHEN RECEIVED:	MATRIX: W-Water A-Air SD-Solid S-Soil SL-Sludge O-Other		REMARKS: <u>6.0 w/ label 4 oz glass</u>		

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

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

Client: Highlander
 Date/ Time: 6-13-07 15:00
 Lab ID #: 7F13021
 Initials: AL

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	<input checked="" type="checkbox"/> Yes	No	6.0 °C
#2	Shipping container in good condition?	<input checked="" type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes	No	
#6	Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#7	Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/> Yes	No	
#8	Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/> Yes	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	<input checked="" type="checkbox"/> Yes	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#11	Containers supplied by ELOT?	<input checked="" type="checkbox"/> Yes	No	
#12	Samples in proper container/ bottle?	<input checked="" type="checkbox"/> Yes	No	See Below
#13	Samples properly preserved?	<input checked="" type="checkbox"/> Yes	No	See Below
#14	Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No	
#15	Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#16	Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#17	Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/> Yes	No	See Below
#18	All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No	See Below
#19	Subcontract of sample(s)?	Yes	No	Not Applicable
#20	VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable

Variance Documentation

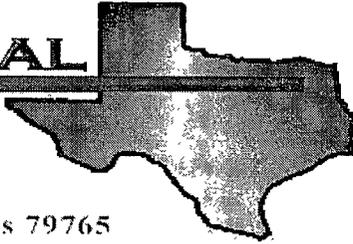
Contact: _____ Contacted by: _____ Date/ Time: _____

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

E NVIRONMENTAL
LAB OF



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Ike Tavaréz

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Pogo/ Baylus Cade Fed #10 Flowline Leak

Project Number: 2873

Location: Lea Co., NM

Lab Order Number: 7F13021

Report Date: 06/20/07

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

Project: Pogo/ Baylus Cade Fed #10 Flowline Leak
Project Number: 2873
Project Manager: Ike Tavarez

Fax: (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-3A (0-1.0') BEB (1.0')	7F13021-01	Soil	06/07/07 00:00	06-13-2007 15:00
AH-4A (0-1.0') BEB (1.0')	7F13021-02	Soil	06/07/07 00:00	06-13-2007 15:00
AH-1A (0-1.0') BEB (3.0')	7F13021-03	Soil	06/08/07 00:00	06-13-2007 15:00
AH-2A (0-1.0') BEB (7.0')	7F13021-04	Soil	06/08/07 00:00	06-13-2007 15:00

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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-3A (0-1.0') BEB (1.0') (7F13021-01) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EF71809	06/18/07	06/18/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate. a,a,a-Trifluorotoluene</i>		80.0 %	75-125		"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		77.2 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF71402	06/14/07	06/15/07	EPA 8015M	
Carbon Ranges C12-C28	23.2	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	21.8	10.0	"	"	"	"	"	"	
Total Hydrocarbons	45.0	10.0	"	"	"	"	"	"	
<i>Surrogate 1-Chlorooctane</i>		88.6 %	70-130		"	"	"	"	
<i>Surrogate 1-Chlorooctadecane</i>		96.2 %	70-130		"	"	"	"	

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-4A (0-1.0') BEB (1.0') (7F13021-02) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EF71809	06/18/07	06/18/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate. a,a,a-Trifluorotoluene</i>		76.0 %	75-125		"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		70.8 %	75-125		"	"	"	"	S-04
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF71402	06/14/07	06/15/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate 1-Chlorooctane</i>		82.8 %	70-130		"	"	"	"	
<i>Surrogate 1-Chlorooctadecane</i>		92.6 %	70-130		"	"	"	"	

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

Project: Pogo/ Baylus Cade Fed #10 Flowline Leak
 Project Number: 2873
 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
AH-1A (0-1.0') BEB (3.0') (7F13021-03) Soil									
Benzene	ND	0.00200	mg/kg dry	2	EF71809	06/18/07	06/18/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
<i>Surrogate a,a,a-Trifluorotoluene</i>		73.6 %	75-125		"	"	"	"	S-04
<i>Surrogate 4-Bromofluorobenzene</i>		72.2 %	75-125		"	"	"	"	S-04
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF71402	06/14/07	06/15/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate 1-Chlorooctane</i>		86.0 %	70-130		"	"	"	"	
<i>Surrogate 1-Chlorooctadecane</i>		95.6 %	70-130		"	"	"	"	
AH-2A (0-1.0') BEB (7.0') (7F13021-04) Soil									
Benzene	J [0.00985]	0.0250	mg/kg dry	25	EF71809	06/18/07	06/19/07	EPA 8021B	J
Toluene	0.757	0.0250	"	"	"	"	"	"	
Ethylbenzene	1.22	0.0250	"	"	"	"	"	"	
Xylene (p/m)	3.11	0.0250	"	"	"	"	"	"	
Xylene (o)	1.16	0.0250	"	"	"	"	"	"	
<i>Surrogate a,a,a-Trifluorotoluene</i>		78.2 %	75-125		"	"	"	"	
<i>Surrogate 4-Bromofluorobenzene</i>		89.6 %	75-125		"	"	"	"	
Carbon Ranges C6-C12	264	10.0	mg/kg dry	1	EF71402	06/14/07	06/15/07	EPA 8015M	
Carbon Ranges C12-C28	812	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	93.4	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1180	10.0	"	"	"	"	"	"	
<i>Surrogate 1-Chlorooctane</i>		101 %	70-130		"	"	"	"	
<i>Surrogate 1-Chlorooctadecane</i>		96.6 %	70-130		"	"	"	"	

Environmental Lab of Texas
 A Xenco Laboratories Company

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

Project: Pogo/ Baylus Cade Fed #10 Flowline Leak
Project Number: 2873
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
AH-3A (0-1.0') BEB (1.0') (7F13021-01) Soil									
Chloride	21.3	5.00	mg/L	1	EF71517	06/15/07	06/15/07	SW846-9253	
% Moisture	7.2	0.1	%	"	EF71509	06/14/07	06/14/07	% calculation	
AH-4A (0-1.0') BEB (1.0') (7F13021-02) Soil									
Chloride	21.3	5.00	mg/L	1	EF71517	06/15/07	06/15/07	SW846-9253	
% Moisture	9.4	0.1	%	"	EF71509	06/14/07	06/14/07	% calculation	
AH-1A (0-1.0') BEB (3.0') (7F13021-03) Soil									
Chloride	2450	5.00	mg/L	1	EF71517	06/15/07	06/15/07	SW846-9253	
% Moisture	10.7	0.1	%	"	EF71509	06/14/07	06/14/07	% calculation	
AH-2A (0-1.0') BEB (7.0') (7F13021-04) Soil									
Chloride	2230	5.00	mg/L	1	EF71517	06/15/07	06/15/07	SW846-9253	
% Moisture	10.4	0.1	%	"	EF71509	06/14/07	06/14/07	% calculation	

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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
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Batch EF71402 - Solvent Extraction (GC)

Blank (EF71402-BLK1)

Prepared: 06/14/07 Analyzed: 06/15/07

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 Hydrocarbons	ND	10.0	"							
Surrogate 1-Chlorooctane	38.0		mg/kg	50.0		76.0	70-130			
Surrogate 1-Chlorooctadecane	40.0		"	50.0		80.0	70-130			

LCS (EF71402-BS1)

Prepared: 06/14/07 Analyzed: 06/15/07

Carbon Ranges C6-C12	494	10.0	mg/kg wet	500		98.8	75-125			
Carbon Ranges C12-C28	443	10.0	"	500		88.6	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	937	10.0	"	1000		93.7	75-125			
Surrogate 1-Chlorooctane	47.7		mg/kg	50.0		95.4	70-130			
Surrogate 1-Chlorooctadecane	44.6		"	50.0		89.2	70-130			

Calibration Check (EF71402-CCV1)

Prepared: 06/14/07 Analyzed: 06/15/07

Carbon Ranges C6-C12	217		mg/kg	250		86.8	80-120			
Carbon Ranges C12-C28	239		"	250		95.6	80-120			
Total Hydrocarbons	456		"	500		91.2	80-120			
Surrogate 1-Chlorooctane	46.7		"	50.0		93.4	70-130			
Surrogate 1-Chlorooctadecane	50.3		"	50.0		101	70-130			

Matrix Spike (EF71402-MS1)

Source: 7F13011-03

Prepared: 06/14/07 Analyzed: 06/15/07

Carbon Ranges C6-C12	569	10.0	mg/kg dry	546	ND	104	75-125			
Carbon Ranges C12-C28	499	10.0	"	546	ND	91.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1070	10.0	"	1090	ND	98.2	75-125			
Surrogate 1-Chlorooctane	51.4		mg/kg	50.0		103	70-130			
Surrogate 1-Chlorooctadecane	45.9		"	50.0		91.8	70-130			

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

Project: Pogo/ Baylus Cade Fed #10 Flowline Leak
 Project Number: 2873
 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 EF71402 - Solvent Extraction (GC)

Matrix Spike Dup (EF71402-MSD1) Source: 7F13011-03 Prepared: 06/14/07 Analyzed: 06/15/07

Carbon Ranges C6-C12	555	10.0	mg/kg dry	546	ND	102	75-125	1.94	20	
Carbon Ranges C12-C28	485	10.0	"	546	ND	88.8	75-125	2.89	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1040	10.0	"	1090	ND	95.4	75-125	2.89	20	
Surrogate 1-Chlorooctane	48.9		mg/kg	50.0		97.8	70-130			
Surrogate 1-Chlorooctadecane	44.4		"	50.0		88.8	70-130			

Batch EF71809 - EPA 5030C (GC)

Blank (EF71809-BLK1)

Prepared & Analyzed: 06/18/07

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate a,a,a-Trifluorotoluene	39.0		ug/kg	50.0		78.0	75-125			
Surrogate 4-Bromofluorobenzene	38.4		"	50.0		76.8	75-125			

LCS (EF71809-BS1)

Prepared & Analyzed: 06/18/07

Benzene	0.0401	0.00100	mg/kg wet	0.0500		80.2	80-120			
Toluene	0.0410	0.00100	"	0.0500		82.0	80-120			
Ethylbenzene	0.0445	0.00100	"	0.0500		89.0	80-120			
Xylene (p/m)	0.0806	0.00100	"	0.100		80.6	80-120			
Xylene (o)	0.0415	0.00100	"	0.0500		83.0	80-120			
Surrogate a,a,a-Trifluorotoluene	37.8		ug/kg	50.0		75.6	75-125			
Surrogate 4-Bromofluorobenzene	37.8		"	50.0		75.6	75-125			

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 Project Number: 2873
 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 EF71809 - EPA 5030C (GC)

Calibration Check (EF71809-CCV1)

Prepared & Analyzed: 06/18/07

Benzene	0.0425		mg/kg wet	0.0500		85.0	80-120			
Toluene	0.0436		"	0.0500		87.2	80-120			
Ethylbenzene	0.0428		"	0.0500		85.6	80-120			
Xylene (p/m)	0.0841		"	0.100		84.1	80-120			
Xylene (o)	0.0446		"	0.0500		89.2	80-120			
Surrogate a,a,a-Trifluorotoluene	43.7		ug/kg	50.0		87.4	75-125			
Surrogate 4-Bromofluorobenzene	43.3		"	50.0		86.6	75-125			

Matrix Spike (EF71809-MS1)

Source: 7F15009-01

Prepared & Analyzed: 06/18/07

Benzene	1.10	0.0250	mg/kg dry	1.34	ND	82.1	80-120			
Toluene	1.15	0.0250	"	1.34	ND	85.8	80-120			
Ethylbenzene	1.25	0.0250	"	1.34	ND	93.3	80-120			
Xylene (p/m)	2.26	0.0250	"	2.69	ND	84.0	80-120			
Xylene (o)	1.18	0.0250	"	1.34	ND	88.1	80-120			
Surrogate a,a,a-Trifluorotoluene	43.5		ug/kg	50.0		87.0	75-125			
Surrogate 4-Bromofluorobenzene	40.6		"	50.0		81.2	75-125			

Matrix Spike Dup (EF71809-MSD1)

Source: 7F15009-01

Prepared & Analyzed: 06/18/07

Benzene	1.06	0.0250	mg/kg dry	1.34	ND	79.1	80-120	3.72	20	M8
Toluene	1.10	0.0250	"	1.34	ND	82.1	80-120	4.41	20	
Ethylbenzene	1.20	0.0250	"	1.34	ND	89.6	80-120	4.05	20	
Xylene (p/m)	2.17	0.0250	"	2.69	ND	80.7	80-120	4.01	20	
Xylene (o)	1.14	0.0250	"	1.34	ND	85.1	80-120	3.46	20	
Surrogate a,a,a-Trifluorotoluene	37.6		ug/kg	50.0		75.2	75-125			
Surrogate 4-Bromofluorobenzene	38.7		"	50.0		77.4	75-125			

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Project: Pogo/ Baylus Cade Fed #10 Flowline Leak
 Project Number: 2873
 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 EF71509 - General Preparation (Prep)										
Blank (EF71509-BLK1) Prepared & Analyzed: 06/14/07										
% Solids	100		%							
Duplicate (EF71509-DUP1) Source: 7F13016-01 Prepared & Analyzed: 06/14/07										
% Solids	90.5		%		91.2			0.770	20	
Duplicate (EF71509-DUP2) Source: 7F14010-08 Prepared & Analyzed: 06/14/07										
% Solids	92.5		%		90.1			2.63	20	
Duplicate (EF71509-DUP3) Source: 7F14010-28 Prepared & Analyzed: 06/14/07										
% Solids	96.3		%		93.6			2.84	20	
Batch EF71517 - General Preparation (WetChem)										
Blank (EF71517-BLK1) Prepared & Analyzed: 06/15/07										
Chloride	0.00	5.00	mg/L							
LCS (EF71517-BS1) Prepared & Analyzed: 06/15/07										
Chloride	94.7	5.00	mg/L	100		94.7	80-120			
Matrix Spike (EF71517-MS1) Source: 7F13011-03 Prepared & Analyzed: 06/15/07										
Chloride	468	5.00	mg/L	500	42.5	85.1	80-120			
Matrix Spike Dup (EF71517-MSD1) Source: 7F13011-03 Prepared & Analyzed: 06/15/07										
Chloride	468	5.00	mg/L	500	42.5	85.1	80-120	0.00	20	
Reference (EF71517-SRM1) Prepared & Analyzed: 06/15/07										
Chloride	53.2	5.00	mg/L	50.0		106	80-120			

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- M8 The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
- 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: _____

Date: _____

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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If you have received this material in error, please notify us immediately at 432-563-1800.

Analysis Request and Chain of Custody Record

PAGE: _____ OF: _____

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

ANALYSIS REQUEST (Circle or Specify Method No.)

CLIENT NAME:

Pogo

SITE MANAGER:

Ike Tavaraz

PROJECT NO.:

2873

PROJECT NAME:

Pogo / Bayliss Cade Fed #10 Flowline Leak
Lea Co, NM

LAB I.D. NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION

7F13021 / 284220

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

FINOS

ICE

NONE

PRESERVATIVE METHOD

ETEX 8020/802

MTBE 8020/802

TPH 418.1

PAH 8270

RCRA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Pd Hg Se

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC-MS Vol. 8240/8260/824

GC-MS Semi. Vol. 8270/825

PCB's 8080/808

Pest. 808/808

HOD, TSS, pH, TDS, Chloride

Gamma Spec.

Alpha Beta (Air)

PAM (Asbestos)

RELINQUISHED BY: (Signature)

Jessy K...

Date: June 13, 2007
Time: 15:00

RECEIVED BY: (Signature)

Date: _____
Time: _____

SAMPLED BY: (Print & Sign)

Kath Harrison / [Signature]

Date: 6/13/07
Time: _____

RELINQUISHED BY: (Signature)

Date: _____
Time: _____

RECEIVED BY: (Signature)

Date: _____
Time: _____

SAMPLE SHIPPED BY: (Circle)

FEDEX BUS
HAND DELIVERED UPS

AIRBILL # _____
OTHER: _____

RELINQUISHED BY: (Signature)

Date: _____
Time: _____

RECEIVED BY: (Signature)

Date: _____
Time: _____

HIGHLANDER CONTACT PERSON:

Ike Tavaraz

Results by:

RUSH Charges
Authorized:

Yes No

RECEIVING LABORATORY: ELT

ADDRESS: _____
CITY: Odessa STATE: Texas ZIP: _____
CONTACT: _____ PHONE: _____

RECEIVED BY: (Signature)

[Signature]
DATE: 6/13/07 TIME: 15:00

SAMPLE CONDITION WHEN RECEIVED:

MATRIX:

W-Water A-Air SD-Solid
S-Soil SL-Sludge O-Other

REMARKS:

6.0 w/ label 4 oz glass

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Highlander
 Date/ Time: 6-13-07 15:00
 Lab ID #: TF13021
 Initials: AL

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	<u>Yes</u>	No	6.0 °C	
#2 Shipping container in good condition?	<u>Yes</u>	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?	<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	Not Applicable	
#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

APPENDIX C

**NMOCD
C-141 Filings**

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 <i>Latigo Petroleum, INC</i>	Contact <i>Par Ellis</i>
Address <i>P.O. Box 10340 Midland, TX 79702</i>	Telephone No. <i>(432) 685-8148</i>
Facility Name <i>Baylus Cade Federal #10</i>	Facility Type <i>Well</i>

Surface Owner <i>FEDERAL</i>	Mineral Owner	Lease No. <i>NMLC 034711</i>
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LOCATION OF RELEASE

API 30-025-33887

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<i>L</i>	<i>35</i>	<i>23S</i>	<i>37E</i>	<i>1692'</i>	<i>FSL</i>	<i>442'</i>	<i>FWL</i>	<i>LCA</i>

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release <i>water + oil</i>	Volume of Release <i>40 BBLs</i>	Volume Recovered <i>35 BBLs</i>
Source of Release <i>3" Polypipe Flowline</i>	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <i>Answering Automated service</i>	<i>12-21-06 @ 3:45 pm</i>
By Whom? <i>Par Ellis</i>	Date and Hour <i>12-21-06 @ 6:00 pm</i>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

NONE

Describe Cause of Problem and Remedial Action Taken.*

A 3" polypipe flowline froze and burst. The line was repaired.

Describe Area Affected and Cleanup Action Taken.*

The area affected was approximately 18' x 30' spill area in pasture. All free fluids were removed by vacuum truck. Highlander Environmental was contacted to evaluate + remediate spill area.

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

Signature: <i>Patrick L. Ellis</i>	OIL CONSERVATION DIVISION	
Printed Name: <i>PATRICK L. ELLIS</i>	Approved by District Supervisor: <i>[Signature]</i> <small>ENVR ENGR</small>	
Title: <i>EHS Supervisor</i>	Approval Date: <i>6.5.07</i>	Expiration Date: <i>8.5.07</i>
E-mail Address: <i>ellis@pogoproducing.com</i>	Conditions of Approval:	
Date: <i>1-3-07</i> <small>432 Phone: 685-8148</small>	<i>FINAL REPORT BY</i> <input checked="" type="checkbox"/> Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

RA# 1425