

SITE INFORMATION

General Site Information

Site:	Amax 24 #8 Tank Battery
Company:	Pogo Producing Company
Section, Township and Range	Section 24, Township 23S, Range 31E
Unit Letter:	L
Lease Number:	NM40655
County:	Eddy
GPS:	32-17-19.8 N 103-44-19.6 W
Surface Owner:	BLM
Mineral Owner:	BLM
Directions:	From Jal, New Mexico at the intersection of 18 & 128, take 128 west for 35 miles past Mile Marker 18. Take right on red road and travel 2.5 miles north. Tank battery is on right hand side of the road.

Release Data

Date Released:	12/13/2004
Type Release:	Saltwater
Source of Contamination:	Water pump
Fluid Released:	250 barrels saltwater
Fluids Recovered:	240 barrels saltwater

Official Communication

Name:	Pat Ellis	Don Riggs	Ike Tavarez
Company:	Pogo Producing Company	Pogo Producing Company	Highlander Environmental Corp.
Address:	300 N. Marienfeld St.	5 Greenway Plaza, Suite 2700	1910 N. Big Spring
P.O. Box	Box 10340		
City:	Midland Texas, 79701-7340	Houston, Texas 77046	Midland, Texas
Phone number:	(432) 685-8100	(713) 297-5045	(432) 692- 4559
Email:	EllisP@pogoproducing.com	riggsd@pogoproducing.com	itavarez@hec-enviro.com

Ranking Criteria

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	0
Wellhead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	
Water Source >1,000 ft., Private >200 ft.	0	0
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft - 1,000 ft.	10	
>1,000 ft.	0	0
Total Ranking Score:		0

Acceptable Soil IRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	5,000

RECEIVED
DEC 1 2005
OOD:ANTEP/A



Highlander Environmental Corp.

Midland, Texas

October 31, 2005

Mr. Mike Bratcher
Environmental Bureau
Oil Conservation Division, District 2
1301 W. Grand Ave.
Artesia, New Mexico 88210

RE: Assessment and Closure Report for the Pogo Producing Company, Amax 24 #8 Tank Battery, Unit Letter L, Section 24, T-23-S, R-31-E, Eddy County, New Mexico.

Dear Mr. Bratcher:

Highlander Environmental Corp. (Highlander) was contacted by Pogo Producing Company (Pogo) to assess a spill, which occurred at the Amax 24 #8 Tank Battery. The spill occurred on December 13, 2004, when the 1" plug came out of the water transfer pump. The spill released an estimated 250 barrels of produced water, with 240 barrels recovered. The spill was primarily contained inside the facility dike. The dike was breached in two areas along the west wall, with an estimated 6-8 barrels of fluid running out onto the location pad, and eventually out onto native soils. The spill onto native soils was limited to an area 1'-3' wide and 150' long. The site location is shown on Figure 1. The facility and spill areas are shown on Figure 2. The C-141 (Initial), submitted by Pogo, is enclosed in Appendix A.

Groundwater and Regulatory

Neither the New Mexico State Engineer Office database nor the USGS database shows any wells in Section 24. The closest water wells with depth to water listed were in Section 5, T-23-S, R-31-E; Section 21, T-23-S, R-32-E; and Section 2, T-24-S, R-31-E with reported depths to water ranging from 192' to 420' below ground surface (bgs). Copies of the water level data are enclosed in Appendix B.

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 mg/kg and 50 mg/kg for total BTEX (sum of benzene, toluene, ethylbenzene and xylene). Based upon the apparent regional depth to groundwater, the

proposed RRAL for TPH is 5,000 mg/kg.

Assessment

December 17, 2004 Assessment & Sample Results

On December 17, 2004, Highlander personnel inspected the spill area and collected soil samples from inside the facility firewall and the spill area outside the firewall, using a stainless steel, bucket type, hand auger. A total of five (5) auger holes were installed inside the facility firewall, and an additional two (2) auger holes were placed in the spill area off the well pad. Soil samples were collected at 1.0' intervals from surface, to depths ranging from 1.5' to 4.5' bgs. Soil samples collected from the spill area were evaluated for TPH by method 8015M, BTEX by method 8021B and chloride by method SW 846-9252. The auger hole locations are shown on Figure 2. The analytical reports are included in Appendix B. The sampling results are shown in Table 1.

Referring to Table 1, the TPH and BTEX concentrations were all below the RRAL. The chloride levels ranged from <20.0 mg/kg (AH-4, 1.0'-1.5') to 25,200 mg/kg (AH-2, 0-1.0').

April 8, 2004 Assessment & Sample Results

On April 8, 2005, Highlander visited the site to resample and collect additional deeper soil samples at auger hole AH-5 and AH-6 locations to attempt to further delineate subsurface chloride impact. These additional soil samples were evaluated for chloride by method EPA 300.0. The analytical reports are included in Appendix B. The sampling results are shown in Table 1.

Referring to Table 1, these additional samples failed to fully delineate chloride impact at AH-5, but did show chloride to decline to 20 mg/kg at AH-6.

September 7, 2005 Assessment & Sample Results

On September 7, 2005, a drilling rig was utilized in order to better profile the soils beneath AH-3 and AH-5, and to collect discreet soil samples for evaluation of subsurface chloride impact. Two boreholes were installed, with BH-1 being located at AH-5 and BH-2 being located at AH-3. Soil samples were collected at five foot increments to a total depth of 20'-21' bgs. Below 10'-11', the chloride concentrations decreased to background levels. The analytical reports are included in Appendix B. The sampling results are shown in Table 2.

Additionally, three new auger holes were placed in the offsite spill area. Auger hole AH-1 was placed in the vicinity of the original AH-6, AH-2 was placed in the center of the offsite spill area and AH-3 was placed in the area of the original AH-7. These auger holes were advanced to a depth of 4.0'-4.5'. During the sampling of the offsite area, new vegetative growth was observed in the spill area. The analytical reports are included in Appendix B. The sampling results are shown in Table 2.

Conclusion

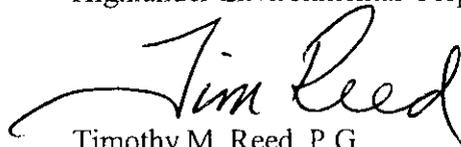
None of the samples analyzed for TPH or BTEX exceeded the RRAL for this site. Chloride concentrations inside the facility firewall were elevated at the surface, but decreased to



background concentrations at depths ranging from 1.5' to 15' bgs. In the offsite spill area measuring 150' long by 1'-3' wide, chloride concentrations decrease to near background levels at depths of 3.5'-4.5' bgs. Additionally, during the sampling of the offsite area, new vegetative growth was observed in the spill area. Based upon the depth to groundwater, lack of TPH or BTEX above RRAL, delineation of chloride impact and desire not to disturb any additional offsite BLM land, Pogo requests closure of this site. The State of New Mexico C-141 (Final) is included in Appendix A.

If you require any additional information or have any questions or comments concerning the assessment report, please call (432) 682-4559.

Highlander Environmental Corp.,

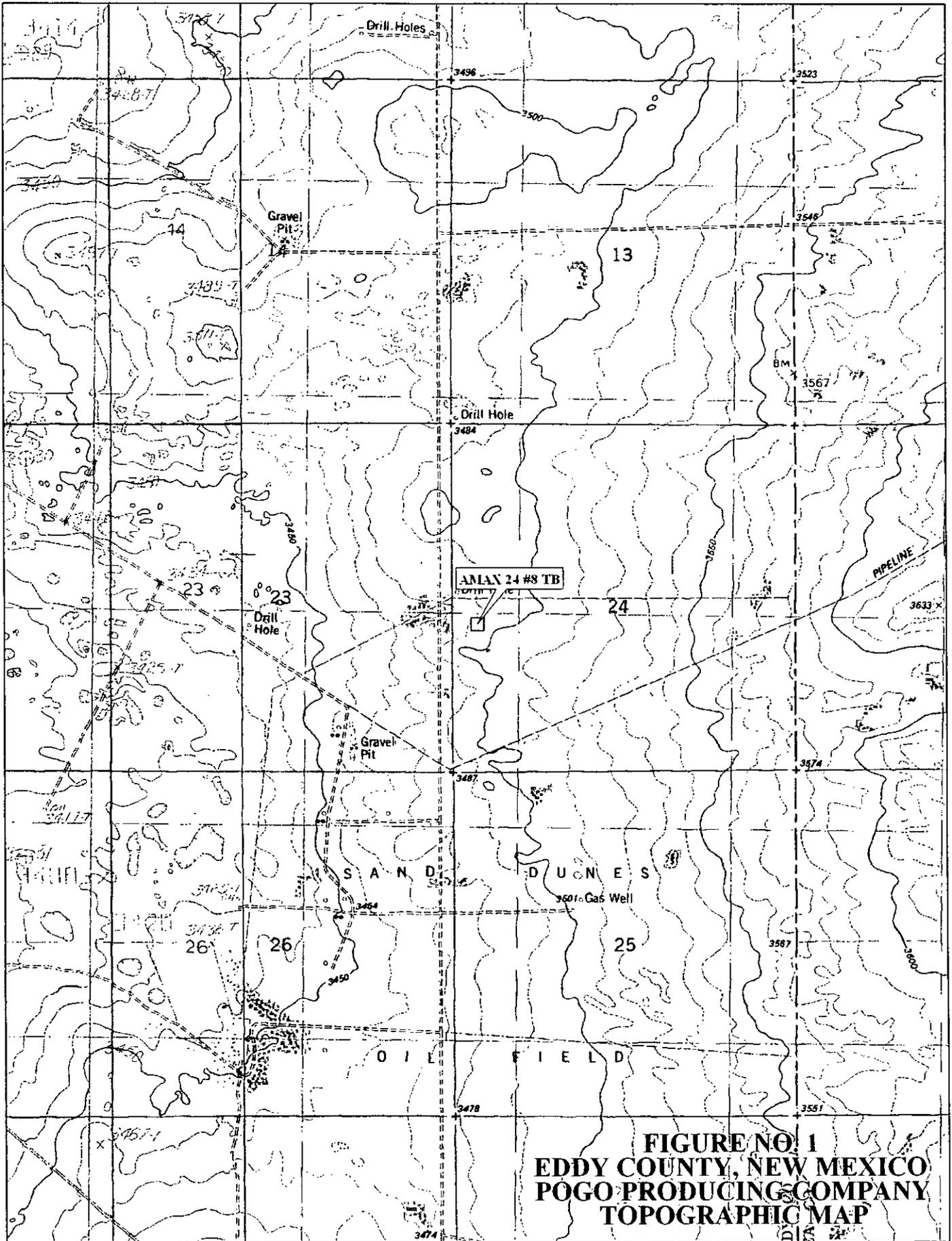


Timothy M. Reed, P.G.
Vice President

cc: Don Riggs - Pogo Producing Co.
Pat Ellis - Pogo Producing Co.
Paul Evans - BLM



FIGURES

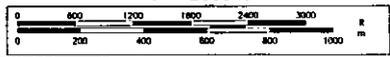


**FIGURE NO. 1
 EDDY COUNTY, NEW MEXICO
 POGO PRODUCING COMPANY
 TOPOGRAPHIC MAP**



© 2002 DeLorme. 3-D TopoQuads®. Data copyright of content owner.
www.delorme.com

Scale 1 : 24,000
 1" = 2000 ft



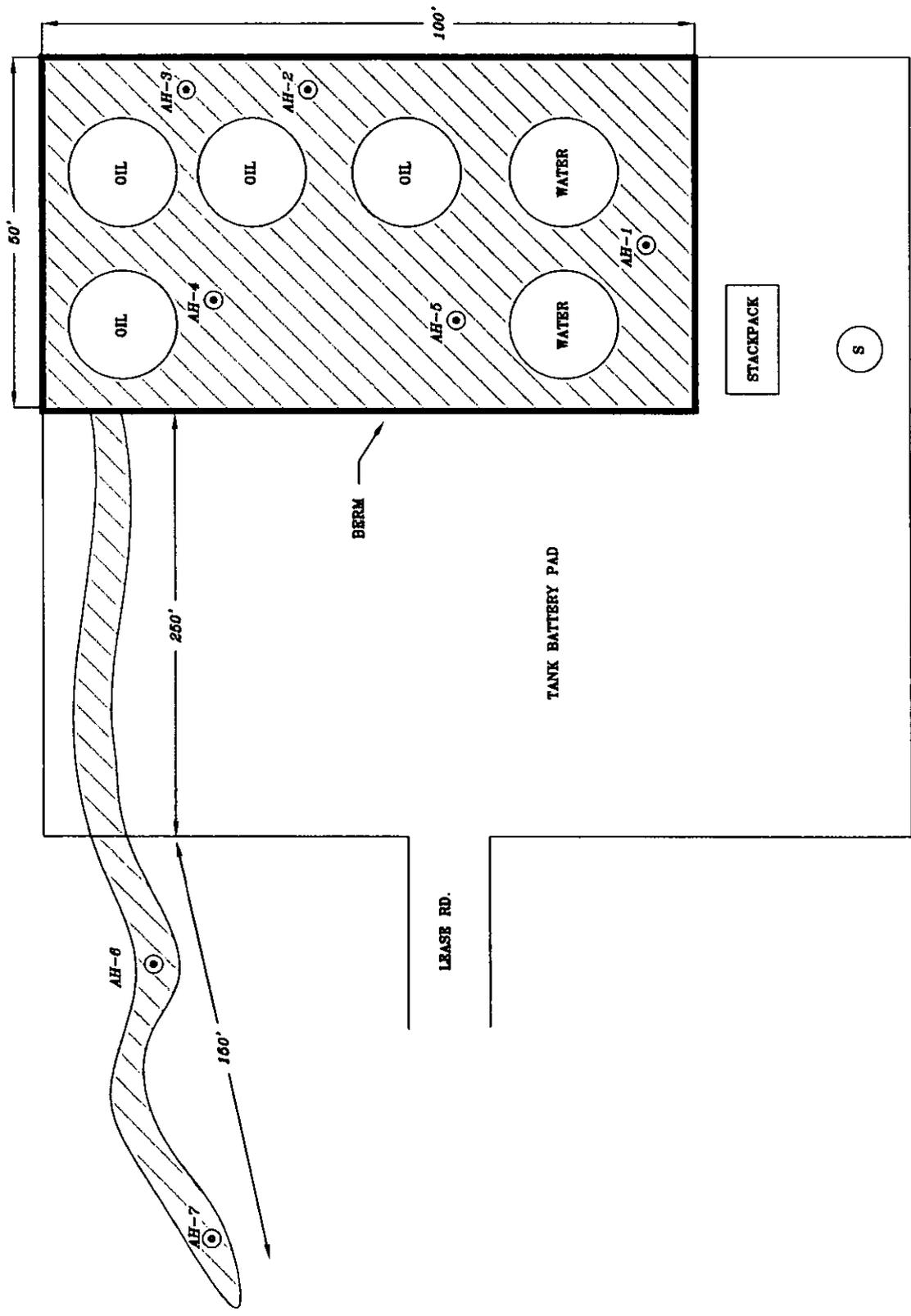


FIGURE NO. 2

EDDY COUNTY, NEW MEXICO

POGO PRODUCING COMPANY
AMAX 24 #8 TB

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE: 11/4/05
 DWN: BT
 JJ
 FILE: C:\pogo\24TB\11-04-05
 11:24 AM

SPILL AREA

SAMPLE LOCATIONS

NOT TO SCALE

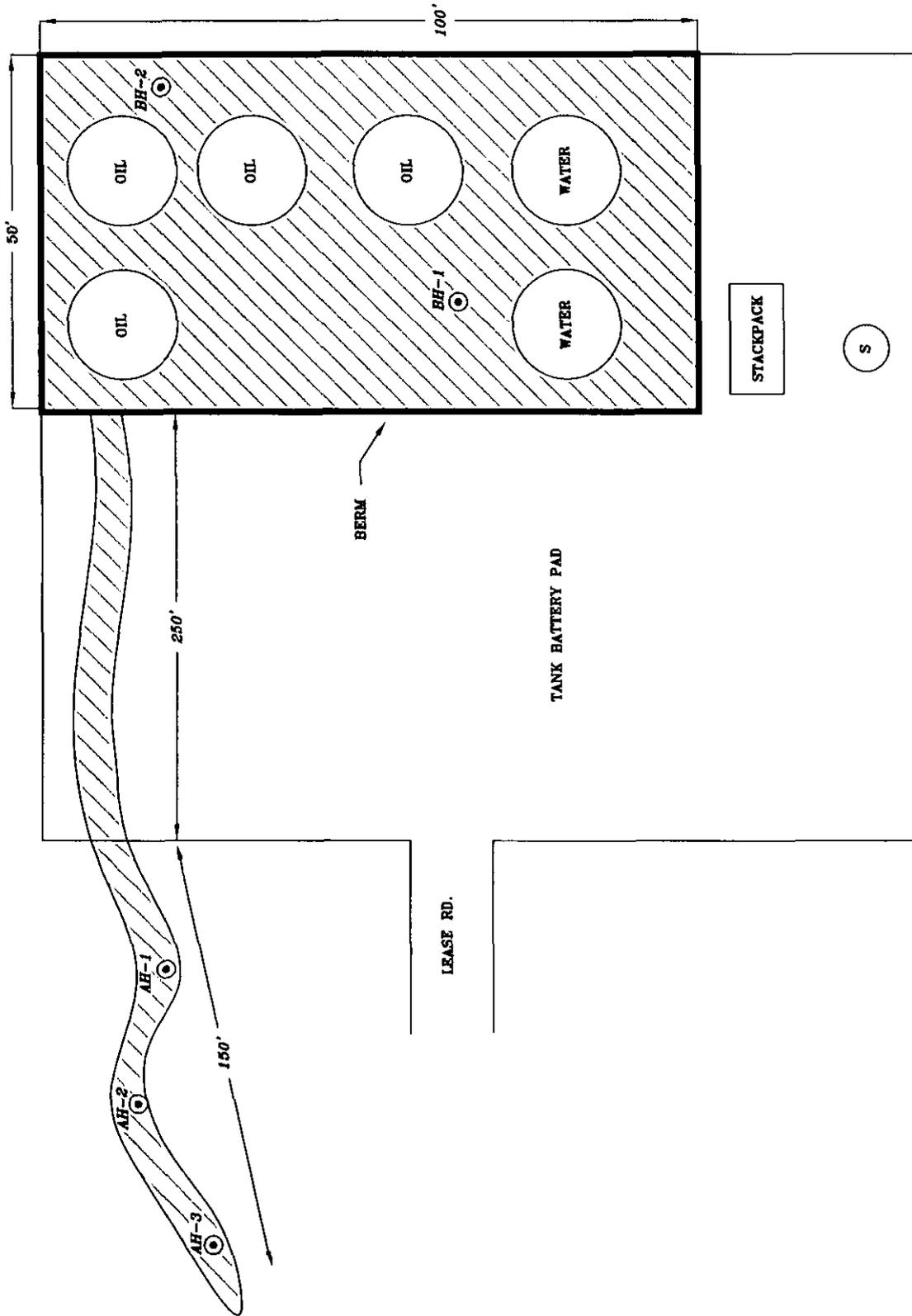
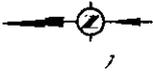


FIGURE NO. 3

EDDY COUNTY, NEW MEXICO

POGO PRODUCING COMPANY
AMAX 24 #8 TB

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE: 11/17/05

DRAWN BY: JJ

FILE: 1570000277A
MAY 24, 2006 PG. 3

SPILL AREA

SAMPLE LOCATIONS (9/7/05)

BOREHOLE LOCATIONS (9/7/05)

NOT TO SCALE



TABLES

Table 1
 Pogo Producing Company
 Amax 24 #8, Tank Battery
 Eddy County, New Mexico

Sample ID	Date Sampled	Sample Depth (ft)	TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
			C6-Cl2	Cl2-C35	Total					
Tank Battery-Auger holes										
AH-1	12/17/04	0-1.0	158	3900	4060	<0.025	<0.025	<0.025	<0.025	6700
AH-1	12/17/04	1-1.5	-	-	-	-	-	-	-	74.4
AH-1	12/17/04	2-2.5	-	-	-	-	-	-	-	351
AH-2	12/17/04	0-1.0	12.3	98.6	111	<0.025	0.0563	0.0621	0.192	25200
AH-3	12/17/04	0-1.0	<10	<10	<10	-	-	-	-	18500
AH-3	12/17/04	1-1.5	-	-	-	-	-	-	-	6700
AH-3	12/17/04	2-2.5	-	-	-	-	-	-	-	4890
AH-3	12/17/04	3-3.5	-	-	-	-	-	-	-	19000
AH-4	12/17/04	0-1.0	<10	<10	<10	-	-	-	-	4520
AH-4	12/17/04	1-1.5	-	-	-	-	-	-	-	<20
AH-4	12/17/04	2-2.5	-	-	-	-	-	-	-	21.3
AH-4	12/17/04	3-3.5	-	-	-	-	-	-	-	42.5
AH-4	12/17/04	4-4.5	-	-	-	-	-	-	-	106
AH-5	12/17/04	0-1.0	<10	<10	<10	-	-	-	-	22300
AH-5	12/17/04	1-1.5	-	-	-	-	-	-	-	14000
AH-5	4/8/05	2-2.5	-	-	-	-	-	-	-	3970
AH-5	4/8/05	3-3.5	-	-	-	-	-	-	-	5600
AH-5	4/8/05	4-4.5	-	-	-	-	-	-	-	3290
AH-5	4/8/05	5-5.5	-	-	-	-	-	-	-	19900
Off-Site-Auger holes										
AH-6	12/17/04	0-1.0	<10	<10	<10	<0.025	<0.025	<0.025	<0.025	16700
AH-6	12/17/04	1-1.5	-	-	-	-	-	-	-	21300
AH-6	12/17/04	2-2.5	-	-	-	-	-	-	-	21200
AH-6	4/8/05	0-1.0	-	-	-	-	-	-	-	99.3
AH-6	4/8/05	3-3.5	-	-	-	-	-	-	-	1520
AH-6	4/8/05	4-4.5	-	-	-	-	-	-	-	20
AH-7	12/17/04	0-1.0	<10	<10	<10	<0.025	<0.025	<0.025	<0.025	14600
AH-7	12/17/04	1-1.5	-	-	-	-	-	-	-	12000
AH-7	12/17/04	2-2.5	-	-	-	-	-	-	-	<20

(-) Not analyzed

Table 2
 Pogo Producing Company
 Amax 24 #8, Tank Battery
 Eddy County, New Mexico

Sample ID	Date Sampled	Sample Depth (ft)	Chloride (mg/kg)
Tank Battery Boreholes			
BH-1	9/7/2005	5'-6'	3930
(Area of AH-5)	9/7/2005	10'-11'	4880
	9/7/2005	15'-16'	1640
	9/7/2005	20'-21'	9.28
BH-2	9/7/2005	5'-6'	3070
(Area of AH-3)	9/7/2005	10'-11'	4450
	9/7/2005	15'-16'	8.80
	9/7/2005	20'-21'	40.0
Off Site Auger holes			
AH-1	9/7/2005	0-1'	271
	9/7/2005	1-1.5'	278
	9/7/2005	2-2.5'	1360
	9/7/2005	3-3.5'	3990
	9/7/2005	4-4.5'	833
AH-2	9/7/2005	0-1'	432
	9/7/2005	1-1.5'	2070
	9/7/2005	2-2.5'	8600
	9/7/2005	3-3.5'	2850
	9/7/2005	4-4.5'	106
AH-3	9/7/2005	0-1'	527
	9/7/2005	1-1.5'	1220
	9/7/2005	2-2.5'	6760
	9/7/2005	3-3.5'	2460
	9/7/2005	4-4.5'	57.5

APPENDIX A

District I - (505) 393-6161
 P. O. Box 1980
 Hobbs, NM 88241-1980
 District II - (505) 748-1283
 811 South First
 Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Road
 Aztec, NM 87410
 District IV - (505) 827-7131

State of New Mexico
 Energy Minerals and Natural Resources Department
 Oil Conservation Division
 2040 South Pacheco Street
 Santa Fe, New Mexico 87505
 (505) 827-7131

Form C-141
 Originated 2/13/97

Submit 2 copies to
 Appropriate District
 Office in accordance
 with Rule 116 on
 back side of form

30-015-27162
 n MLB04350 49343

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name <i>POGO Producing Co.</i>	Contact <i>Pat Ellis</i>
Address <i>P.O. Box 10340 Midland TX 79702-7340</i>	Telephone No. <i>432-685-8148</i>
Facility Name <i>AMAX 24-8 TANK BATTERY</i>	Facility Type <i>TANK BATTERY</i>

Surface Owner <i>BLM</i>	Mineral Owner <i>BLM</i>	Lease No. <i>NM40655</i>
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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
	<i>24</i>	<i>23 S</i>	<i>31 E</i>	<i>2160'</i>	<i>FSL</i>	<i>330'</i>	<i>FWL</i>	<i>EDDY</i>

NATURE OF RELEASE

Type of Release <i>SALT WATER</i>	Volume of Release <i>250 BBLS</i>	Volume Recovered <i>240 BBLS</i>
Source of Release <i>Water Pump</i>	Date and Hour of Occurrence <i>12/13/04</i>	Date and Hour of Discovery <i>8:30 AM 12/13/04</i>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <i>ARTESIA OGD Linda Nelson</i>	
By Whom? <i>Clay Osborn</i>	Date and Hour <i>10:30 AM</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. (Attach Additional Sheets if Necessary)

Describe Cause of Problem and Remedial Action Taken. (Attach Additional Sheets if Necessary)
TRANSFER PUMP. Picked up 240 BBLS out of FIRE WALL. 1" Plug came out of WATER

Describe Area Affected and Cleanup Action Taken. (Attach Additional Sheets if Necessary)
INSIDE FIRE WALL. HAD 6-8 BBLS RAN ACROSS LOCATION. Picked up water with Pump TRUCK. Soil will Be Tested and Impacted Soil Removed.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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>Clay Osborn</i>	OIL CONSERVATION DIVISION <i>T. Gum</i>		
Printed Name: <i>Clay Osborn</i>	Approved by District Supervisor: <i>by Mike Branner</i>		
Title: <i>FIELD FOREMAN</i>	Approval Date: <i>12/15/04</i>	Expiration Date: <i>6/15/05</i>	
Date: <i>12/13/04</i>	Phone: <i>432-631-0129</i>	Conditions of Approval:	Attached <input checked="" type="checkbox"/>

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: 300 North Marienfeld, Suite 600, Midland TX 79701	Telephone No. (432) 685-8100
Facility Name: Amax 24 #8	Facility Type: Tank Battery

Surface Owner BLM	Mineral Owner BLM	Lease No. NM40655
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LOCATION OF RELEASE

Unit Letter L	Section\ 24	Township 23S	Range 31E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
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NATURE OF RELEASE

Type of Release Saltwater	Volume of Release 250 barrels	Volume Recovered 240 barrels
Source of Release Water transfer pump	Date and Hour of Occurrence 12/13/2004	Date and Hour of Discovery 12/13/2004 8:30 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Linda Nelson / OCD-Artesia	
By Whom? Clay Osborn	Date and Hour 12/13/2004 10:30 am	
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.*

1" plug came out of water transfer pump. Picked up 240 barrels produced water out of fire wall.

Describe Area Affected and Cleanup Action Taken.*

The spill was primarily contained inside the facility dike. The dike was breached in two areas along the west wall with an estimated 6-8 barrels of fluid running out onto the location pad, and eventually out onto native soils. The spill onto native soils was limited to an area 1'-3' wide and 150' long. Picked up water with pump trucks.

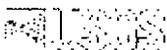
On December 17, 2004, Highlander personnel inspected the spill area and collected soil samples from inside the facility firewall and the spill area outside the firewall. A total of five (5) auger holes were installed inside the facility firewall, and an additional two (2) auger holes were placed in the spill area off of the well pad. Additionally a drilling rig was utilized to profile the soils. Two (2) bore holes were installed to delineate chloride impact to background levels. New vegetative growth observed in off site 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>Pat Ellis</i>	OIL CONSERVATION DIVISION	
Printed Name: Pat Ellis	Approved by District Supervisor:	
Title: Division Environmental Safety & Health Supervisor	Approval Date:	Expiration Date:
E-mail Address: EllisP@pogoproducing.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/24/05 Phone: (432) 685-8100		

* Attach Additional Sheets If Necessary

APPENDIX B



Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 321952103400801

[Save file of selected sites to local disk for future upload](#)

USGS 321952103400801 23S.32E.03.311114

Available data for this site

Ground-water: Levels



Lea County, New Mexico
 Hydrologic Unit Code
 Latitude 32°19'52", Longitude 103°40'08" NAD27
 Land-surface elevation 3,648.00 feet above sea level NGVD29
 The depth of the well is 630 feet below land surface.
 This well is completed in the SANTA ROSA SANDSTONE (231SNRS) local aquifer.

Output formats

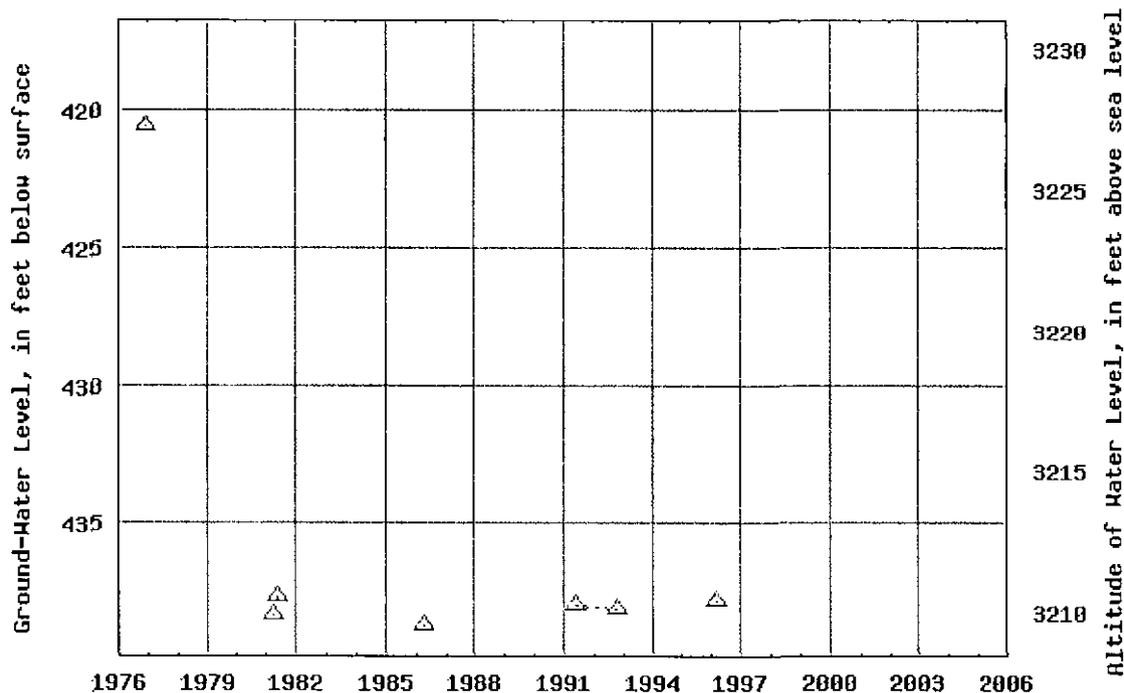
[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

USGS 321952103400801 23S.32E.03.311114



Breaks in the plot represent a gap of at least one calendar year between two consecutive points.

[Download a presentation-quality graph](#)

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 23S Range: 32E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic
 All

AVERAGE DEPTH OF WATER REPORT 11/17/2005

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
C	23S	32E	21				1	400	400	400

Record Count: 1

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 23S Range: 31E Sections: _____

NAD27 X: _____ Y: _____ Zone: Search Radius: _____

County: Basin: _____ Number: _____ Suffix: _____

Owner Name: (First) _____ (Last) _____ Non-Domestic Domestic
 All

AVERAGE DEPTH OF WATER REPORT 11/17/2005

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
C	23S	31E	05				1	354	354	354
C	23S	31E	06				1	85	85	85

Record Count: 2

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 24S Range: 31E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic
 All

Well/Surface Data Report Avg Depth to Water Report Water Column Report

AVERAGE DEPTH OF WATER REPORT 11/17/2005

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
C	24S	31E	02				3	160	212	192

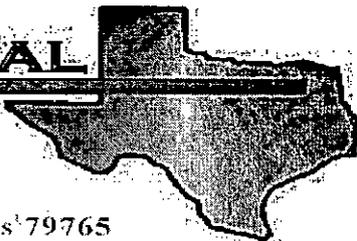
Record Count: 3

APPENDIX C

Analytical Report

12/30/2004

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Pogo/ Amax 24 #8 TB

Project Number: 2277

Location: Eddy County, NM

Lab Order Number: 4L22017

Report Date: 12/30/04

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
12/30/04 12:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 (0-1.0')	4L22017-01	Soil	12/17/04 00:00	12/22/04 15:15
AH-1 (1.0'-1.5')	4L22017-02	Soil	12/17/04 00:00	12/22/04 15:15
AH-1 (2.0'-2.5')	4L22017-03	Soil	12/17/04 00:00	12/22/04 15:15
AH-2 (0-1.0')	4L22017-04	Soil	12/17/04 00:00	12/22/04 15:15
AH-3 (0-1.0')	4L22017-05	Soil	12/17/04 00:00	12/22/04 15:15
AH-3 (1.0'-1.5')	4L22017-06	Soil	12/17/04 00:00	12/22/04 15:15
AH-3 (2.0'-2.5')	4L22017-07	Soil	12/17/04 00:00	12/22/04 15:15
AH-3 (3.0'-3.5')	4L22017-08	Soil	12/17/04 00:00	12/22/04 15:15
AH-4 (0-1.0')	4L22017-09	Soil	12/17/04 00:00	12/22/04 15:15
AH-4 (1.0'-1.5')	4L22017-10	Soil	12/17/04 00:00	12/22/04 15:15
AH-4 (2.0'-2.5')	4L22017-11	Soil	12/17/04 00:00	12/22/04 15:15
AH-4 (3.0-3.5')	4L22017-12	Soil	12/17/04 00:00	12/22/04 15:15
AH-4 (4.0'-4.5')	4L22017-13	Soil	12/17/04 00:00	12/22/04 15:15
AH-5 (0-1.0')	4L22017-14	Soil	12/17/04 00:00	12/22/04 15:15
AH-5 (1.0'-1.5')	4L22017-15	Soil	12/17/04 00:00	12/22/04 15:15
AH-6 (0-1.0')	4L22017-16	Soil	12/17/04 00:00	12/22/04 15:15
AH-6 (1.0'-1.5')	4L22017-17	Soil	12/17/04 00:00	12/22/04 15:15
AH-6 (2.0'-2.5')	4L22017-18	Soil	12/17/04 00:00	12/22/04 15:15
AH-7 (0-1.0')	4L22017-19	Soil	12/17/04 00:00	12/22/04 15:15
AH-7 (1.0'-1.5')	4L22017-20	Soil	12/17/04 00:00	12/22/04 15:15
AH-7 (2.0'-2.5')	4L22017-21	Soil	12/17/04 00:00	12/22/04 15:15

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
12/30/04 12:19

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-1 (0-1.0') (4L22017-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42906	12/28/04	12/29/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.1 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	158	10.0	mg/kg dry	1	EL42220	12/22/04	12/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	3900	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	4060	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		113 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		113 %	70-130		"	"	"	"	
AH-2 (0-1.0') (4L22017-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42906	12/28/04	12/29/04	EPA 8021B	
Toluene	0.0563	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.0621	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.145	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0471	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		109 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	12.3	10.0	mg/kg dry	1	EL42220	12/22/04	12/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	98.6	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	111	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		106 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		106 %	70-130		"	"	"	"	
AH-3 (0-1.0') (4L22017-05) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL42220	12/22/04	12/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		108 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		117 %	70-130		"	"	"	"	

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Reported:
12/30/04 12:19

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-4 (0-1.0') (4L22017-09) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL42220	12/22/04	12/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		91.4 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		86.6 %	70-130		"	"	"	"	
AH-5 (0-1.0') (4L22017-14) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL42220	12/22/04	12/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		107 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		116 %	70-130		"	"	"	"	
AH-6 (0-1.0') (4L22017-16) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42704	12/23/04	12/27/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		97.5 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88.0 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL42220	12/22/04	12/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		102 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		108 %	70-130		"	"	"	"	
AH-7 (0-1.0') (4L22017-19) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42704	12/23/04	12/27/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		101 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		90.2 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL42220	12/22/04	12/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

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

Page 3 of 14

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Reported:
12/30/04 12:19

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-7 (0-1.0') (4L22017-19) Soil									
Surrogate: 1-Chlorooctane		95.6 %	70-130		EL42220	12/22/04	12/23/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		101 %	70-130		"	"	"	"	

Highlander Environmental Corp.
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Project: Pogo/ Amax 24 #8 TB
 Project Number: 2277
 Project Manager: Ike Tavaraz

Fax: (432) 682-3946

Reported:
 12/30/04 12:19

**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') (4L22017-01) Soil									
Chloride	6700	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
% Moisture	11.1		%	1	EL42219	12/22/04	12/23/04	% calculation	
AH-1 (1.0'-1.5') (4L22017-02) Soil									
Chloride	74.4	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
AH-1 (2.0'-2.5') (4L22017-03) Soil									
Chloride	351	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
AH-2 (0-1.0') (4L22017-04) Soil									
Chloride	25200	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
% Moisture	13.8		%	1	EL42219	12/22/04	12/23/04	% calculation	
AH-3 (0-1.0') (4L22017-05) Soil									
Chloride	18500	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
% Moisture	10.9		%	1	EL42219	12/22/04	12/23/04	% calculation	
AH-3 (1.0'-1.5') (4L22017-06) Soil									
Chloride	6700	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
AH-3 (2.0'-2.5') (4L22017-07) Soil									
Chloride	4890	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
AH-3 (3.0'-3.5') (4L22017-08) Soil									
Chloride	19000	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
AH-4 (0-1.0') (4L22017-09) Soil									
Chloride	4520	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
% Moisture	11.6		%	1	EL42219	12/22/04	12/23/04	% calculation	

Highlander Environmental Corp.
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 Project Manager: Ike Tavarez

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Reported:
 12/30/04 12:19

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-4 (1.0'-1.5') (4L22017-10) Soil									
Chloride	ND	20.0 mg/kg Wet		2	EL42307	12/23/04	12/23/04	SW 846 9253	
AH-4 (2.0'-2.5') (4L22017-11) Soil									
Chloride	21.3	20.0 mg/kg Wet		2	EL42307	12/23/04	12/23/04	SW 846 9253	
AH-4 (3.0'-3.5') (4L22017-12) Soil									
Chloride	42.5	20.0 mg/kg Wet		2	EL42307	12/23/04	12/23/04	SW 846 9253	
AH-4 (4.0'-4.5') (4L22017-13) Soil									
Chloride	106	20.0 mg/kg Wet		2	EL42307	12/23/04	12/23/04	SW 846 9253	
AH-5 (0-1.0') (4L22017-14) Soil									
Chloride	22300	20.0 mg/kg Wet		2	EL42307	12/23/04	12/23/04	SW 846 9253	
% Moisture	11.0		%	1	EL42219	12/22/04	12/23/04	% calculation	
AH-5 (1.0'-1.5') (4L22017-15) Soil									
Chloride	14000	20.0 mg/kg Wet		2	EL42307	12/23/04	12/23/04	SW 846 9253	
AH-6 (0-1.0') (4L22017-16) Soil									
Chloride	16700	20.0 mg/kg Wet		2	EL42307	12/23/04	12/23/04	SW 846 9253	
% Moisture	6.2		%	1	EL42219	12/22/04	12/23/04	% calculation	
AH-6 (1.0'-1.5') (4L22017-17) Soil									
Chloride	21300	20.0 mg/kg Wet		2	EL42307	12/23/04	12/23/04	SW 846 9253	
AH-6 (2.0'-2.5') (4L22017-18) Soil									
Chloride	21200	20.0 mg/kg Wet		2	EL42307	12/23/04	12/23/04	SW 846 9253	
AH-7 (0-1.0') (4L22017-19) Soil									
Chloride	14600	20.0 mg/kg Wet		2	EL42307	12/23/04	12/23/04	SW 846 9253	
% Moisture	6.5		%	1	EL42219	12/22/04	12/23/04	% calculation	

Highlander Environmental Corp.
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Reported:
12/30/04 12:19

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-7 (1.0'-1.5') (4L22017-20) Soil									
Chloride	12000	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
AH-7 (2.0'-2.5') (4L22017-21) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	

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Reported:
12/30/04 12:19

**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 EL42220 - Solvent Extraction (GC)

Blank (EL42220-BLK1)

Prepared: 12/22/04 Analyzed: 12/23/04

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	42.1		mg/kg	50.0		84.2	70-130			
Surrogate: 1-Chlorooctadecane	38.9		"	50.0		77.8	70-130			

LCS (EL42220-BS1)

Prepared: 12/22/04 Analyzed: 12/23/04

Gasoline Range Organics C6-C12	447	10.0	mg/kg wet	500		89.4	75-125			
Diesel Range Organics >C12-C35	500	10.0	"	500		100	75-125			
Total Hydrocarbon C6-C35	.947	10.0	"	1000		94.7	75-125			
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0		96.2	70-130			
Surrogate: 1-Chlorooctadecane	44.2		"	50.0		88.4	70-130			

Calibration Check (EL42220-CCV1)

Prepared: 12/22/04 Analyzed: 12/23/04

Gasoline Range Organics C6-C12	551		mg/kg	500		110	80-120			
Diesel Range Organics >C12-C35	523		"	500		105	80-120			
Total Hydrocarbon C6-C35	1070		"	1000		107	80-120			
Surrogate: 1-Chlorooctane	55.5		"	50.0		111	70-130			
Surrogate: 1-Chlorooctadecane	50.8		"	50.0		102	70-130			

Matrix Spike (EL42220-MS1)

Source: 4L22015-02

Prepared: 12/22/04 Analyzed: 12/23/04

Gasoline Range Organics C6-C12	541	10.0	mg/kg dry	519	19.6	100	75-125			
Diesel Range Organics >C12-C35	700	10.0	"	519	146	107	75-125			
Total Hydrocarbon C6-C35	1240	10.0	"	1040	166	103	75-125			
Surrogate: 1-Chlorooctane	54.0		mg/kg	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	47.2		"	50.0		94.4	70-130			

Matrix Spike Dup (EL42220-MSD1)

Source: 4L22015-02

Prepared: 12/22/04 Analyzed: 12/23/04

Gasoline Range Organics C6-C12	562	10.0	mg/kg dry	519	19.6	105	75-125	3.81	20	
Diesel Range Organics >C12-C35	680	10.0	"	519	146	103	75-125	2.90	20	
Total Hydrocarbon C6-C35	1240	10.0	"	1040	166	103	75-125	0.00	20	
Surrogate: 1-Chlorooctane	54.0		mg/kg	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	47.6		"	50.0		95.2	70-130			

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Reported:
12/30/04 12:19

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 EL42704 - EPA 5030C (GC)

Blank (EL42704-BLK1)

Prepared & Analyzed: 12/23/04

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	84.4		ug/kg	100		84.4	80-120			
Surrogate: 4-Bromofluorobenzene	103		"	100		103	80-120			

LCS (EL42704-BS1)

Prepared & Analyzed: 12/23/04

Benzene	89.8		ug/kg	100		89.8	80-120			
Toluene	92.9		"	100		92.9	80-120			
Ethylbenzene	108		"	100		108	80-120			
Xylene (p/m)	240		"	200		120	80-120			
Xylene (o)	112		"	100		112	80-120			
Surrogate: a,a,a-Trifluorotoluene	116		"	100		116	80-120			
Surrogate: 4-Bromofluorobenzene	119		"	100		119	80-120			

Calibration Check (EL42704-CCV1)

Prepared: 12/23/04 Analyzed: 12/27/04

Benzene	100		ug/kg	100		100	80-120			
Toluene	98.1		"	100		98.1	80-120			
Ethylbenzene	98.1		"	100		98.1	80-120			
Xylene (p/m)	214		"	200		107	80-120			
Xylene (o)	105		"	100		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	118		"	100		118	80-120			
Surrogate: 4-Bromofluorobenzene	112		"	100		112	80-120			

Matrix Spike (EL42704-MS1)

Source: 4L22017-16

Prepared: 12/23/04 Analyzed: 12/27/04

Benzene	96.2		ug/kg	100	ND	96.2	80-120			
Toluene	97.7		"	100	ND	97.7	80-120			
Ethylbenzene	100		"	100	ND	100	80-120			
Xylene (p/m)	221		"	200	ND	110	80-120			
Xylene (o)	103		"	100	ND	103	80-120			
Surrogate: a,a,a-Trifluorotoluene	116		"	100		116	80-120			
Surrogate: 4-Bromofluorobenzene	107		"	100		107	80-120			

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Reported:
 12/30/04 12:19

**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 EL42704 - EPA 5030C (GC)

Matrix Spike Dup (EL42704-MSD1)

Source: 4L22017-16 Prepared: 12/23/04 Analyzed: 12/27/04

Benzene	94.7		ug/kg	100	ND	94.7	80-120	1.57	20	
Toluene	95.2		"	100	ND	95.2	80-120	2.59	20	
Ethylbenzene	96.6		"	100	ND	96.6	80-120	3.46	20	
Xylene (p/m)	214		"	200	ND	107	80-120	2.76	20	
Xylene (o)	101		"	100	ND	101	80-120	1.96	20	
Surrogate: a,a,a-Trifluorotoluene	115		"	100		115	80-120			
Surrogate: 4-Bromofluorobenzene	113		"	100		113	80-120			

Batch EL42906 - EPA 5030C (GC)

Blank (EL42906-BLK1)

Prepared & Analyzed: 12/28/04

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	99.1		ug/kg	100		99.1	80-120			
Surrogate: 4-Bromofluorobenzene	95.5		"	100		95.5	80-120			

LCS (EL42906-BS1)

Prepared & Analyzed: 12/28/04

Benzene	95.4		ug/kg	100		95.4	80-120			
Toluene	96.4		"	100		96.4	80-120			
Ethylbenzene	103		"	100		103	80-120			
Xylene (p/m)	231		"	200		116	80-120			
Xylene (o)	110		"	100		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	114		"	100		114	80-120			
Surrogate: 4-Bromofluorobenzene	119		"	100		119	80-120			

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
12/30/04 12:19

**Organics by GC - Quality Control
Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch EL42906 - EPA 5030C (GC)

Calibration Check (EL42906-CCV1)

Prepared: 12/28/04 Analyzed: 12/29/04

Benzene	94.8		ug/kg	100		94.8	80-120			
Toluene	96.4		"	100		96.4	80-120			
Ethylbenzene	99.4		"	100		99.4	80-120			
Xylene (p/m)	219		"	200		110	80-120			
Xylene (o)	106		"	100		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	119		"	100		119	80-120			
Surrogate: 4-Bromofluorobenzene	104		"	100		104	80-120			

Matrix Spike (EL42906-MS1)

Source: 4L27002-05

Prepared: 12/28/04 Analyzed: 12/29/04

Benzene	87.9		ug/kg	100	ND	87.9	80-120			
Toluene	90.9		"	100	ND	90.9	80-120			
Ethylbenzene	101		"	100	ND	101	80-120			
Xylene (p/m)	226		"	200	ND	113	80-120			
Xylene (o)	109		"	100	ND	109	80-120			
Surrogate: a,a,a-Trifluorotoluene	112		"	100		112	80-120			
Surrogate: 4-Bromofluorobenzene	115		"	100		115	80-120			

Matrix Spike Dup (EL42906-MSD1)

Source: 4L27002-05

Prepared: 12/28/04 Analyzed: 12/29/04

Benzene	90.9		ug/kg	100	ND	90.9	80-120	3.36	20	
Toluene	93.2		"	100	ND	93.2	80-120	2.50	20	
Ethylbenzene	101		"	100	ND	101	80-120	0.00	20	
Xylene (p/m)	226		"	200	ND	113	80-120	0.00	20	
Xylene (o)	108		"	100	ND	108	80-120	0.922	20	
Surrogate: a,a,a-Trifluorotoluene	112		"	100		112	80-120			
Surrogate: 4-Bromofluorobenzene	114		"	100		114	80-120			

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

Project: Pogo/ Amax 24 #8 TB
 Project Number: 2277
 Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
 12/30/04 12:19

**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 EL42219 - General Preparation (Prep)										
Blank (EL42219-BLK1)				Prepared: 12/22/04 Analyzed: 12/23/04						
% Moisture	0.003		%							
Duplicate (EL42219-DUP1)				Source: 4L22004-01 Prepared: 12/22/04 Analyzed: 12/23/04						
% Moisture	8.7		%		9.0			3.39	20	
Batch EL42307 - Water Extraction										
Blank (EL42307-BLK1)				Prepared & Analyzed: 12/23/04						
Chloride	ND		20.0 mg/kg Wet							
Blank (EL42307-BLK2)				Prepared & Analyzed: 12/23/04						
Chloride	ND		20.0 mg/kg Wet							
Matrix Spike (EL42307-MS1)				Source: 4L22017-02 Prepared & Analyzed: 12/23/04						
Chloride	500		20.0 mg/kg Wet	500	74.4	85.1	80-120			
Matrix Spike (EL42307-MS2)				Source: 4L22017-21 Prepared & Analyzed: 12/23/04						
Chloride	436		20.0 mg/kg Wet	500	0.00	87.2	80-120			
Matrix Spike Dup (EL42307-MSD1)				Source: 4L22017-02 Prepared & Analyzed: 12/23/04						
Chloride	489		20.0 mg/kg Wet	500	74.4	82.9	80-120	2.22	20	
Matrix Spike Dup (EL42307-MSD2)				Source: 4L22017-21 Prepared & Analyzed: 12/23/04						
Chloride	447		20.0 mg/kg Wet	500	0.00	89.4	80-120	2.49	20	
Reference (EL42307-SRM1)				Prepared & Analyzed: 12/23/04						
Chloride	5000		mg/kg	5000		100	80-120			

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
12/30/04 12:19

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 EL42307 - Water Extraction										
Reference (EL42307-SRM2)				Prepared & Analyzed: 12/23/04						
Chloride	5000		mg/kg	5000		100	80-120			

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavarez

Fax: (432) 682-3946
Reported:
12/30/04 12:19

Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By: Coley D. Keene Date: 12/30/04

Raland K. Tuttle, Lab Manager
Coley D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

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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

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

CLIENT NAME: **9060**

SITE MANAGER: **Ike Tavaréz**

PROJECT NO.: **2277**

PROJECT NAME: **9060/Amx 24 #8 TP**
SAMPLE IDENTIFICATION: **Eddy county, NM**

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD			
								HCL	HNO3	ICE	NONE
4L22017	12/17/04		S	X	X	1		X			
-11			S	X	X	1		X			
-12			S	X	X	1		X			
-13			S	X	X	1		X			
-14			S	X	X	1		X			
-15			S	X	X	1		X			
-16			S	X	X	1		X			
-17			S	X	X	1		X			
-18			S	X	X	1		X			
-19			S	X	X	1		X			
-20			S	X	X	1		X			

RELINQUISHED BY: (Signature) _____ Date: 12/22/04 Time: 3:45

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

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

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

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

RECEIVED BY: (Signature) _____ Date: 12/22/04 Time: 1515

RECEIVING LABORATORY: _____

ADDRESS: _____ STATE: _____ ZIP: _____

CONTACT: _____ PHONE: _____ DATE: 12/22/04 TIME: 1515

REMARKS: 402 Glass
-050C

ANALYSIS REQUEST
(Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTX 9020/602
<input checked="" type="checkbox"/>	MTR 8020/602
<input checked="" type="checkbox"/>	4181 4015 MOD 711005
<input checked="" type="checkbox"/>	PAH 8270
<input checked="" type="checkbox"/>	RCRA 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 Semic Volatiles
<input checked="" type="checkbox"/>	RCI
<input checked="" type="checkbox"/>	GCMS Vol. 8240/8280/824
<input checked="" type="checkbox"/>	GCMS Semic Vol. 8270/825
<input checked="" type="checkbox"/>	PCB's 8080/808
<input checked="" type="checkbox"/>	Post. 808/808
<input checked="" type="checkbox"/>	BOD, TSS, PH, TDS, Chloride
<input checked="" type="checkbox"/>	Gamma Spec.
<input checked="" type="checkbox"/>	Alpha Beta (Air)
<input checked="" type="checkbox"/>	PLM (Asbestos)

SAMPLED BY: (Print & Sign) Ike Tavaréz Date: 12/22/04 Time: 1:00

FEDEX AIRBILL # _____

HAND DELIVERED UPS OTHER: _____

HIGHLANDER CONTACT PERSON: Ike Tavaréz

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.

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

Client: Highlander Enviro

Date/Time: 12/22/04 15:15

Order #: 4L22017

Initials: JLH

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	No	-0.5 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	<input checked="" type="checkbox"/> Not present
Custody Seals intact on sample bottles?	Yes	No	<input checked="" type="checkbox"/> Not present
Chain of custody present?	<input checked="" type="checkbox"/> Yes	No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	No	
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	No	
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	No	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	No	
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	No	
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	No	
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	No	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No	
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable

Other observations:

Variance Documentation:

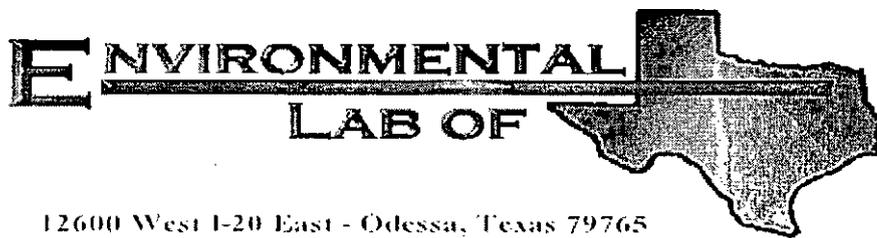
Contact Person: - _____ Date/Time: _____ Contacted by: _____

Regarding: _____

Corrective Action Taken:

Analytical Report

4/15/2005



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Pogo/ Amax 24 #8 TB

Project Number: 2277

Location: Eddy County, NM

Lab Order Number: 5D11011

Report Date: 04/15/05

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavaraz

Fax: (432) 682-3946
Reported:
04/15/05 07:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-5 (2.0'-2.5')	5D11011-01	Soil	04/08/05 10:00	04/11/05 14:50
AH-5 (3.0'-3.5')	5D11011-02	Soil	04/08/05 10:05	04/11/05 14:50
AH-6 (1.0'-1.5')	5D11011-06	Soil	04/08/05 11:35	04/11/05 14:50
AH-6 (2.0'-2.5')	5D11011-07	Soil	04/08/05 11:40	04/11/05 14:50

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavaraz

Fax: (432) 682-3946

Reported:
04/15/05 07:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-5 (2.0'-2.5') (SD11011-01) Soil									
Chloride	3970	50.0	mg/kg	100	ED51409	04/14/05	04/14/05	EPA 300.0	
AH-5 (3.0'-3.5') (SD11011-02) Soil									
Chloride	5600	100	mg/kg	200	ED51409	04/14/05	04/14/05	EPA 300.0	
AH-6 (1.0'-1.5') (SD11011-06) Soil									
Chloride	268	10.0	mg/kg	20	ED51409	04/14/05	04/14/05	EPA 300.0	
AH-6 (2.0'-2.5') (SD11011-07) Soil									
Chloride	1180	50.0	mg/kg	100	ED51409	04/14/05	04/14/05	EPA 300.0	

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

Project: Pogo/ Amax 24 #8 TB
 Project Number: 2277
 Project Manager: Ike Tavarez

Fax: (432) 682-3946
 Reported:
 04/15/05 07:44

**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 ED51409 - Water Extraction										
Blank (ED51409-BLK1)				Prepared & Analyzed: 04/14/05						
Chloride	ND	0.500	mg/kg							
LCS (ED51409-BS1)				Prepared & Analyzed: 04/14/05						
Chloride	10.9		mg/L	10.0		109	80-120			
Calibration Check (ED51409-CCV1)				Prepared & Analyzed: 04/14/05						
Chloride	10.3		mg/L	10.0		103	80-120			
Duplicate (ED51409-DUP1)				Source: 5D11012-01		Prepared & Analyzed: 04/14/05				
Chloride	23.2	5.00	mg/kg		20.0			14.8	20	

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavaraz

Fax: (432) 682-3946

Reported:
04/15/05 07:44

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K Tuttle

Date:

4/15/2005

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

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

Page 4 of 4

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

Client: Highlander Env.

Date/Time: 04-11-05 @ 1450

Order #: 5D11011

Initials: Jmm

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	3.5	C
Shipping container/cooler in good condition?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Custody Seals intact on shipping container/cooler?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Not present	
Custody Seals intact on sample bottles?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Not present	
Chain of custody present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Chain of Custody signed when relinquished and received?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Chain of custody agrees with sample label(s)	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Container labels legible and intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Samples in proper container/bottle?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Samples properly preserved?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Sample bottles intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Preservations documented on Chain of Custody?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Containers documented on Chain of Custody?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Sufficient sample amount for indicated test?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
All samples received within sufficient hold time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
VOC samples have zero headspace?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Not Applicable	

Other observations:

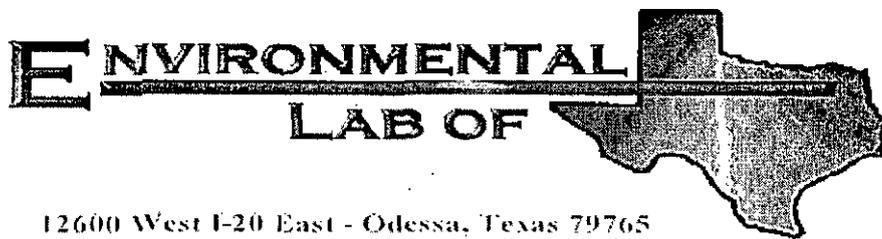
Variance Documentation:

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

Corrective Action Taken:

Analytical Report

4/28/2005



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavaraz

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Pogo/ Amax 24 #8 TB

Project Number: 2277

Location: Lea County, NM

Lab Order Number: 5D25007

Report Date: 04/28/05

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavarez

Fax: (432) 682-3946
Reported:
04/28/05 10:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-5 (4.0'-4.5')	5D25007-01	Soil	04/08/05 10:10	04/11/05 14:50
AH-5 (5.0'-5.5')	5D25007-02	Soil	04/08/05 10:15	04/11/05 14:50
AH-6 (0-1.0')	5D25007-03	Soil	04/08/05 11:30	04/11/05 14:50
AH-6 (3.0'-3.5')	5D25007-04	Soil	04/08/05 11:45	04/11/05 14:50
AH-6 (4.0'-4.5')	5D25007-05	Soil	04/08/05 11:50	04/11/05 14:50

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
04/28/05 10:47

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-5 (4.0'-4.5') (SD25007-01) Soil									
Chloride	3290	50.0	mg/kg	100	ED52805	04/27/05	04/27/05	EPA 300.0	
AH-5 (5.0'-5.5') (SD25007-02) Soil									
Chloride	19900	2000	mg/kg	4000	ED52805	04/27/05	04/27/05	EPA 300.0	
AH-6 (0-1.0') (SD25007-03) Soil									
Chloride	99.3	5.00	mg/kg	10	ED52805	04/27/05	04/27/05	EPA 300.0	
AH-6 (3.0'-3.5') (SD25007-04) Soil									
Chloride	1520	50.0	mg/kg	100	ED52805	04/27/05	04/27/05	EPA 300.0	
AH-6 (4.0'-4.5') (SD25007-05) Soil									
Chloride	20.0	5.00	mg/kg	10	ED52805	04/27/05	04/27/05	EPA 300.0	

Environmental Lab of Texas

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Page 2 of 4

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
04/28/05 10:47

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 ED52805 - Water Extraction										
Blank (ED52805-BLK1) Prepared & Analyzed: 04/27/05										
Chloride	ND	0.500	mg/kg							
LCS (ED52805-BS1) Prepared & Analyzed: 04/27/05										
Chloride	9.79		mg/l.	10.0		97.9	80-120			
Calibration Check (ED52805-CCV1) Prepared & Analyzed: 04/27/05										
Chloride	10.1		mg/L	10.0		101	80-120			
Duplicate (ED52805-DUP1) Source: 5D25005-01 Prepared & Analyzed: 04/27/05										
Chloride	3690	50.0	mg/kg		3530			4.43	20	

Environmental Lab of Texas

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

Page 3 of 4

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavarez

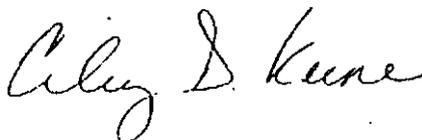
Fax: (432) 682-3946

Reported:
04/28/05 10:47

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date:

4/28/2005

Raland K. Tuttle, Lab Manager
Caley D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

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
 Variance / Corrective Action Report - Sample Log-In

Client: Highlander Env.

Date/Time: 04-11-05 @ 1450

COPY

Order #: ~~5D11011~~ 5D25007

Initials: Jmm

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3,5	C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Custody Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not present	
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not present	
Chain of custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	

Other observations:

Variance Documentation:

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

Corrective Action Taken:

Jeanne McMurrey

From: "Ike T" <itavarez@hec-enviro.com>
To: "Jeanne McMurrey" <jeanne@elabtxas.com>
Sent: Monday, April 25, 2005 11:26 AM
Subject: FW: Additional Analysis

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

From: Ike T [mailto:itavarez@hec-enviro.com]
Sent: Monday, April 25, 2005 11:26 AM
To: Jeanne - enviro lab (jeanne@elabtxas.com)
Subject: Additional Analysis

Jeanne,

Run the additional analysis for the Sites below. Call me if you have any questions, Thanks:

Pogo/Stewart TB, Lea County, NM - Project # 2326
Sample Date: 4/6/05
Lab order Number - 5D11008

Run: Chloride T-1 (2.0') BEB, AH-2

Pogo/Amax 24 #8, Eddy County, NM - Project # 2277
Sample Date: 4/8/05
Lab order # 5D11011

Run Chlorides: AH-5 (4-4.5')
 AH-5 (5-5.5')

 AH-6 (0-1')
 AH-6 (3-3.5')
 AH-6 (4-4.5')

Pogo/Plains Knight TB, Lea County, NM - Project # 1469
Sample Date: 4/7/05
Lab order # 5D11010

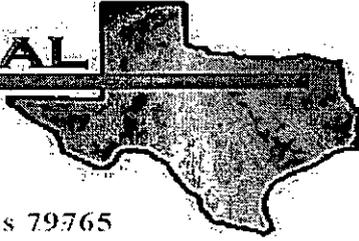
Run: Chlorides: Area 2 (8.0') BEB
 Area 5 (6.0') BEB

--
This message has been scanned for viruses and dangerous content by MailScanner at BasinBroadBand.com, and is believed to be clean.

Analytical Report

10/31/2005

E NVIRONMENTAL
LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Pogo/ Amax 24 #8 TB

Project Number: 2277

Location: Eddy Co., NM

Lab Order Number: 5113014

Report Date: 10/31/05

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Reported:
10/31/05 12:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 (5-6)	5I13014-01	Soil	09/07/05 00:00	09/13/05 16:00
BH-1 (10-11)	5I13014-02	Soil	09/07/05 00:00	09/13/05 16:00
BH-1 (15-16)	5I13014-03	Soil	09/07/05 00:00	09/13/05 16:00
BH-1 (20-21)	5I13014-04	Soil	09/07/05 00:00	09/13/05 16:00
BH-2 (5-6)	5I13014-05	Soil	09/07/05 00:00	09/13/05 16:00
BH-2 (10-11)	5I13014-06	Soil	09/07/05 00:00	09/13/05 16:00
BH-2 (15-16)	5I13014-07	Soil	09/07/05 00:00	09/13/05 16:00
BH-2 (20-21)	5I13014-08	Soil	09/07/05 00:00	09/13/05 16:00
#1 (0-1')	5I13014-09	Soil	09/07/05 00:00	09/13/05 16:00
#1 (1-1.5')	5I13014-10	Soil	09/07/05 00:00	09/13/05 16:00
#1 (2-2.5')	5I13014-11	Soil	09/07/05 00:00	09/13/05 16:00
#1 (3-3.5')	5I13014-12	Soil	09/07/05 00:00	09/13/05 16:00
#1 (4-4.5')	5I13014-13	Soil	09/07/05 00:00	09/13/05 16:00
#2 (0-1')	5I13014-14	Soil	09/07/05 00:00	09/13/05 16:00
#2 (1-1.5')	5I13014-15	Soil	09/07/05 00:00	09/13/05 16:00
#2 (2-2.5')	5I13014-16	Soil	09/07/05 00:00	09/13/05 16:00
#2 (3-3.5')	5I13014-17	Soil	09/07/05 00:00	09/13/05 16:00
#2 (4-4.5')	5I13014-18	Soil	09/07/05 00:00	09/13/05 16:00
#3 (0-1')	5I13014-19	Soil	09/07/05 00:00	09/13/05 16:00
#3 (1-1.5')	5I13014-20	Soil	09/07/05 00:00	09/13/05 16:00
#3 (2-2.5')	5I13014-21	Soil	09/07/05 00:00	09/13/05 16:00
#3 (3-3.5')	5I13014-22	Soil	09/07/05 00:00	09/13/05 16:00
#3 (4-4.5')	5I13014-23	Soil	09/07/05 00:00	09/13/05 16:00

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Reported:
10/31/05 12:01

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (5-6) (5I13014-01) Soil									
Chloride	3930	50.0	mg/kg	100	E151507	09/14/05	09/14/05	EPA 300.0	
BH-1 (10-11) (5I13014-02) Soil									
Chloride	4880	500	mg/kg	1000	E151507	09/14/05	09/14/05	EPA 300.0	
BH-1 (15-16) (5I13014-03) Soil									
Chloride	1640	25.0	mg/kg	50	E151507	09/14/05	09/14/05	EPA 300.0	
BH-1 (20-21) (5I13014-04) Soil									
Chloride	9.28	5.00	mg/kg	10	E151507	09/14/05	09/14/05	EPA 300.0	
BH-2 (5-6) (5I13014-05) Soil									
Chloride	3070	50.0	mg/kg	100	E151507	09/14/05	09/14/05	EPA 300.0	
BH-2 (10-11) (5I13014-06) Soil									
Chloride	4450	50.0	mg/kg	100	E151507	09/14/05	09/14/05	EPA 300.0	
BH-2 (15-16) (5I13014-07) Soil									
Chloride	8.80	5.00	mg/kg	10	E151508	09/15/05	09/15/05	EPA 300.0	
BH-2 (20-21) (5I13014-08) Soil									
Chloride	40.0	5.00	mg/kg	10	E151508	09/15/05	09/15/05	EPA 300.0	
#1 (0-1') (5I13014-09) Soil									
Chloride	271	5.00	mg/kg	10	E151508	09/15/05	09/15/05	EPA 300.0	
#1 (1-1.5') (5I13014-10) Soil									
Chloride	278	5.00	mg/kg	10	E151508	09/15/05	09/15/05	EPA 300.0	

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
10/31/05 12:01

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 (2-2.5') (5113014-11) Soil									
Chloride	1360	20.0	mg/kg	40	E151508	09/15/05	09/15/05	EPA 300.0	
#1 (3-3.5') (5113014-12) Soil									
Chloride	3990	50.0	mg/kg	100	E151508	09/15/05	09/15/05	EPA 300.0	
#1 (4-4.5') (5113014-13) Soil									
Chloride	833	10.0	mg/kg	20	E151508	09/15/05	09/15/05	EPA 300.0	
#2 (0-1') (5113014-14) Soil									
Chloride	432	5.00	mg/kg	10	E151508	09/15/05	09/15/05	EPA 300.0	
#2 (1-1.5') (5113014-15) Soil									
Chloride	2070	25.0	mg/kg	50	E151508	09/15/05	09/15/05	EPA 300.0	
#2 (2-2.5') (5113014-16) Soil									
Chloride	8600	100	mg/kg	200	E151508	09/15/05	09/15/05	EPA 300.0	
#2 (3-3.5') (5113014-17) Soil									
Chloride	2850	50.0	mg/kg	100	E151508	09/15/05	09/15/05	EPA 300.0	
#2 (4-4.5') (5113014-18) Soil									
Chloride	106	5.00	mg/kg	10	E151508	09/15/05	09/15/05	EPA 300.0	
#3 (0-1') (5113014-19) Soil									
Chloride	527	10.0	mg/kg	20	E151508	09/15/05	09/15/05	EPA 300.0	
#3 (1-1.5') (5113014-20) Soil									
Chloride	1220	20.0	mg/kg	40	E151508	09/15/05	09/15/05	EPA 300.0	

Environmental Lab of Texas

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

Page 3 of 6

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
10/31/05 12:01

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#3 (2-2.5') (5113014-21) Soil									
Chloride	6760	100	mg/kg	200	E151508	09/15/05	09/15/05	EPA 300.0	
#3 (3-3.5') (5113014-22) Soil									
Chloride	2460	50.0	mg/kg	100	E151508	09/15/05	09/15/05	EPA 300.0	
#3 (4-4.5') (5113014-23) Soil									
Chloride	57.5	5.00	mg/kg	10	E151508	09/15/05	09/15/05	EPA 300.0	

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
10/31/05 12:01

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 EI51507 - Water Extraction

Blank (EI51507-BLK1) Prepared & Analyzed: 09/14/05

Chloride ND 0.500 mg/kg

LCS (EI51507-BS1) Prepared & Analyzed: 09/14/05

Chloride 8.62 mg/L 10.0 86.2 80-120

Calibration Check (EI51507-CCV1) Prepared & Analyzed: 09/14/05

Chloride 9.06 mg/L 10.0 90.6 80-120

Duplicate (EI51507-DUP1) Source: 5I09001-01 Prepared & Analyzed: 09/14/05

Chloride 801 10.0 mg/kg 796 0.626 20

Batch EI51508 - Water Extraction

Blank (EI51508-BLK1) Prepared & Analyzed: 09/15/05

Chloride ND 0.500 mg/kg

LCS (EI51508-BS1) Prepared & Analyzed: 09/15/05

Chloride 8.41 mg/L 10.0 84.1 80-120

Calibration Check (EI51508-CCV1) Prepared & Analyzed: 09/15/05

Chloride 8.45 mg/L 10.0 84.5 80-120

Duplicate (EI51508-DUP1) Source: 5I13014-07 Prepared & Analyzed: 09/15/05

Chloride 8.74 5.00 mg/kg 8.80 0.684 20

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

Project: Pogo/ Amax 24 #8 TB
Project Number: 2277
Project Manager: Ike Tavaraz

Fax: (432) 682-3946

Reported:
10/31/05 12:01

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Coley D. Keene

Date:

10/31/05

Raland K. Tuttle, Lab Manager
Coley D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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.

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 Producing SITE MANAGER: Re Parker

PROJECT NO.: 2277 PROJECT NAME: Pogo May 24 # 8
Study co. run

SAMPLE IDENTIFICATION

LAB I.D. NUMBER: 513014

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB
-21	9/7/05		S		#3 (2.2.5')
-22	9/7/05		S		#5 (3-3.5)
-23	9/7/05		S		#3 (4-4.5')

NUMBER OF CONTAINERS

FILTERED (Y/N)

PRESERVATIVE METHOD

HCL
HNOS
ICE
NONE

PAGE: 3 OF: 5
ANALYSIS REQUEST
(Circle or Specify Method No.)

BTEX 8020/808	
MTH 8020/808	
TPH 418.1 8015 MOD. TX1005	
PAH 8270	
RCA Metals Ag As Ba Cd Cr Pb Hg Se	
TCP Metals Ag As Ba Cd Cr Pb Hg Se	
TCP Volatiles	
TCP Scent Volatiles	
RCI	
GCMS Vol. 8240/8280/824	
GCMS Scent Vol. 8270/825	
PCB's 8080/808	
Pest. 808/808	
BOD, TSS, PH, TDS, Chloride	
Gamma Spec.	
Alpha Beta (Air)	
PLM (Asbestos)	

SAMPLED BY: (Print & Sign) Re Parker Date: _____ Time: _____
 SAMPLE SHIPPED BY: (Circle) BUS AIRBILL # _____
 FEDEX
 HAND DELIVERED UPS OTHER: _____
 HIGHLANDER CONTACT PERSON: Re Parker
 Results by: _____
 RUSH Charges Authorized: Yes _____ No _____

RELINQUISHED BY: (Signature) [Signature] Date: 9/13/05 Time: 16:00
 RECEIVED BY: (Signature) _____ Date: _____ Time: _____
 RELINQUISHED BY: (Signature) _____ Date: _____ Time: _____
 RECEIVED BY: (Signature) _____ Date: _____ Time: _____
 RECEIVED BY: (Signature) _____ Date: _____ Time: _____
 RECEIVING LABORATORY: Lab 154 STATE: _____ ZIP: _____
 ADDRESS: _____ PHONE: _____
 CITY: _____

REMARKS: _____
 MATRIX: W-Water A-Air SD-Solid S-Soil SL-Sludge O-Other
 SAMPLE CONDITION WHEN RECEIVED: 310C 4oz glass on 11.41 lab 154 seals
Seal on cooler
 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: 9/13/05 16:00

Order #: 5I 13014

Initials: CK

Sample Receipt Checklist

Temperatura of container/cooler?	Yes	No	3.6 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Custody Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not present
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not present
Chain of custody present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Container labels legible and intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Samples in proper container/bottle?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Samples properly preserved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Sample bottles intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VOC samples have zero headspace?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Applicable

Other observations:

Variance Documentation:

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

Corrective Action Taken:
