SITE INFORMATION

General Site Info	rmations,		A COMPANY			8.000
Site:		Amax 24 #8 Ta	nk Battery		· · · · ·	
Company:		Pogo Producin	ig Company			
Section, Township	and Range	Section 24, To	wnship 23S, Ran	ge 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		<u></u>		
Directions:		From Jal, New M	exico at the intersec	tion of 18 &	128, take 128 west for 35 miles	
		past Mile Marker	18. Take right on r	ed road and	travel 2.5 miles north. Tank	
		battery is on right	t hand side of the rc	ad.	·	
				·		
Release Data:						
Date Released:		12/13/2004				
Type Release:		Saltwater				
Source of Contamination: Water pump						
Fluid Released:		250 barrels salt	water			
Fluids Recovered:		240 barrels salt	water		······	
Official Commun	ilcation:					
Name:	Pat Ellis	e	Don Riggs	• • •	lke Tavarez 😤	
Company:	Pogo Producin	ig Company	Pogo Producing Co	ompany .	Highlander Environmental Corp.	
Address:	300 N. Marienf	ield St.	5 Greenway Plaza	Suite 2700	1910 N. Big Spring	. · ·
P.O. Box	Box 10340		-			
City:	Midland Texas	, 79701-7340	Houston, Texas 77	046	Midland, Texas	2
Phone number:	(432) 685-810(0	(713) 297-5045		(432) 692- 4559	×
Email:	EllisP@pogopr	roducing.com	riggsd@pogoprodu	cing.com	itavarez@hec-enviro.com	
·····						
Ranking Griteria						
Depth to Groundw	ater:		Ranking Score		Site Data	
<50 ft		!	20	·		
50-99 TI]				
2100 11.					U	

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 0 0 >1,000 ft.

Total Ranking Score:

AcceptableSo	il <mark>IRRAL (mg/kg</mark>)	
Benzene	Total BTEX	TPH
10	50	5,000

0

DEC I 2005

RECEIVED



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').

4 *I*. April 8, 2004 Assessment <u>& Sample Results</u>

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













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Sample ID	Date Sampled	Sample Depth (ft)	1 C6-C12	PH (mg/kg) C12-C35	Total	Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
Tank Bater	y Auger holes				2 - 5 - 5 - 5 - 7					
AH-1	12/17/04	0-1.0	158	3900	4060	<0.025	<0.025	<0.025	<0.025	6700
I-HA	12/17/04	1-1.5	4	, .		-	۰	-	-	74.4
I-HA	12/17/04	2-2.5	1	,	ı	1	•	-	1.	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	1	I	I	1	18500
AH-3	12/17/04	1-1.5	•	,		-	1	,	ı	6700
AH-3	12/17/04	2-2.5			I	l I	,	1	-	4890
AH-3	12/17/04	3-3.5		,	,	,	-	t	•	19000
AH-4	12/17/04	0-1.0	<10	<10	<10	1	1	-	1	4520
AH-4	12/17/04	I-1.5	'	 , 	•		1	1	•	<20
AH-4	12/17/04	2-2.5	1	 ,	,	,		ı	3	21.3
AH-4	12/17/04	3-3.5		 	, ,	1	1			42.5
AH-4	12/17/04	4-4.5	,	 			1	1		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			,	1	,	•	-	3970
AH-5	4/8/05	3-3.5		,	,		1	-	-	5600
AH-5	4/8/05	4-4.5	 	, ,			1		-	3290
AH-5	4/8/05	5-5.5		 ,	ı	,	1		•	19900
			}							
Off Site Au	ger-holes		* 2 7 7 8							
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		,		,	1	4	-	21300
AI-I-6	12/17/04	2-2.5			f		,	-	1	21200
9-HA	4/8/05	0-1-0	1	,	-	-	1	•	J	99.3
AH-6	4/8/05	3-3.5	1	 ,		,	-	1	-	1520
9-HA	4/8/05	4-4.5	,	, ,	1	ı	ſ	4	1	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	I	1	1	1	I	•	•	12000
AH-7	12/17/04	2-2.5	-	.,	-	-	-	-		<20
(-) Not (analyzed									

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Table 1 Pogo Producing Company

Amax 24 #8, Tank Battery Eddy County, New Mexico

Table 2Pogo Producing CompanyAmax 24 #8, Tank BatteryEddy County, New Mexico

Sample	Date	Sample	Chloride
ID	Sampled	Depth (ft)	(mg/kg)
Tank Battery Boreho	les 💒 👢		
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)	Date SampledSample Depth (ft) $9/7/2005$ $5'-6'$ $9/7/2005$ $10'-11'$ $9/7/2005$ $15'-16'$ $9/7/2005$ $20'-21'$ $9/7/2005$ $5'-6'$ $9/7/2005$ $10'-11'$ $9/7/2005$ $10'-11'$ $9/7/2005$ $10'-11'$ $9/7/2005$ $10'-11'$ $9/7/2005$ $10'-11'$ $9/7/2005$ $10'-11'$ $9/7/2005$ $20'-21'$ $9/7/2005$ $2-2.5'$ $9/7/2005$ $1-1.5'$ $9/7/2005$ $2-2.5'$ $9/7/2005$ $1-1.5'$ $9/7/2005$ $3-3.5'$	4450	
	9/7/2005	15'-16'	8.80
	9/7/2005	20'-21'	40.0
Off Site Auger holes	1		
All-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
АН-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
All-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
		1	

APPENDIX A

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- District I - (505) 393-6161 Sta P. O. Box 1980 Hobbs, NM 88241-1980 Energy Minerals	e of New N and Natural Res	lexico ources Depar	tment	Form C-141 Originated 2/13/97		
District II - (505) 748-1283 Oil 811 South First 2 Artesia, NM 88210 2 District III - (505) 334-6178 Sa 1000 Rio Brazos Road Artes, NM 87410 District IV - (505) 827-7131	Conservation D 240 South Pacheco S 142 Fe, New Mexico (505) 827-7131	ivision breet 87505		Submit 2 copies to Appropriate District Office in accordance with Rule 116 on back side of form		
30-015-27/62 Release N	otification and Cor	ective Action				
n MLB04350 49343	OPERATOR		Initial Repo	rt Final Report		
POGO PROJUCING CO.		Pat E	Ilis	<u></u>		
P.O. Box 10340 Midland T.Y	19702-7340	iephone No. 432	2-685-814	8		
AMAY 24.8 TANK BATTER	<u> </u>	TANK 4	BATTERY	<u></u>		
Suiface Owner Mine	al Owner		Lease No.			
BIM	BIM		I NM4	0455		
L	CATION OF RELE	ASE				
Unit Letter Socion Township Range Feet from the N 24 22 C 31 F 210	rth/South Line Feet from	he East/West Line	County	_		
FI 25 JIL 2160	-52 530	FWL	EDDY			
1	ATURE OF RELEA	SE				
solt where solt where n	Vo	2 ST	K/s 241	OBBIS		
Source of Release	Da	te and Hour of Occurrent	ce Date and Hot	er of Discovery		
WATER PUMP.		12/13/0	4 8:30	m. 12/13/04		
Was Immediate Notice Given?	ution president	RHCS, TO Whom?	·D linda A	La Isan		
By Wham? Date and Hour						
CIAT OSBORN		10:30 Am	2			
Was a Watercourse Acached?						
lf a Watercourse was impoceed. Describe Fully: (Artsch Additional Shee	(f Necessary)					
Describe Cause of Problem and Remodial Action Takon (Accoch Addicion TRANSFER PLOMP. Picked 4p	240 BB15 But	I" Pluc e. of Fire W	AME out or	F whten		
Describe Area Affected and Cleaning Action Taken. (Attach Additional Sh RHN ACROSS LOCATION. Picked Be Tosted And Impacted So	" I Removed.	SIDE FIRE	ELUMII, HA RUCIS, Soil	d 6-88815 1 will		
I hereby certify that the information given above is true and complete to the are required to report and/or file certain release notifications and perform to a C-141 report by the NMOCD marked as "Final Report" does not relieve it contamination that pose a threat to ground water, surface water, human hear operator of responsibility for compliance with any other federal, state, or	est of my knowledge and and reture actions for releases whis operator of liability should th h or the environment. In add Scal Jawa and/or regulations.	erstand that pursuant to ch may endanger public teix operations have faile tion, NMOCD acceptar	NMOCD rules and regulat bealth or the environment. ed to adequately investigate nee of a C-141 report does in	tens all operators The acceptance of and remediate of relieve the		
signame Clay Chance		OIL CON T. GUM	SERVATION DIVISION			
Printed Name: CIAN DSboRN	Approved by District Super	visor by MI.	Ke BRATCHES	e		
Tide Field FORFMAN	Approval Dar	= 12/15/04	Expiration Date:	15/05		
Dave: 12/13/04 Phone 432-6	1-0129 Canditions	of Approval:	Auache	4 🔀		
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Was a Watercourse Reached?

State of New Mexico Energy Minerals and Natural Resources

> **Oil Conservation Division** 1220 South St. Francis Dr.

Final Report

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

220 S. St. Fran	icis Dr., Sant	a re, NM 8750	<u> </u>	Sa	anta F	Fe, NM 875	505			- Sid
			Relo	ease Notifi	catio	n and Co	orrective A	ction	1	· · · · · · · · · · · · ·
						OPERA '	TOR		🗌 Initia	al Report 🔲 Fir
Name of Co	ompany: F	ogo Produc	ing Comp	bany		Contact: Pa	at Ellis		-	
Address: 3	00 North N	Aarienfeld, S	Suite 600,	Midland TX 79	9701	Telephone l	No. (432) 685-8	3100		
Facility Nat	me: Amax	24 #8				Facility Typ	pe: Tank Battery	/		
Surface Ow	ner BLM	[Mineral (Dwner	BLM			Lease N	No. NM40655
ı				LOCA	ATIC	N OF RE	LEASE			
Unit Letter L	Section\ 24	Township 23S	Range 31E	Feet from the	Nort	h/South Line	Feet from the	East/V	West Line	County Eddy
				NAT	TURE	E OF REL	EASE			
Type of Rele	ase Saltv	vater				Volume of	f Release 250 bar	Tels	Volume Recovered 240 barrels	
Source of Re	elease Wate	r transfer pun	np			Date and H 12/13/2004	Hour of Occurrent	ce	Date and 12/13/200	Hour of Discovery 04 8:30 am
Was Immedi	ate Notice (Given?]Yes	No 🗍 Not R	equired	If YES, To Linda Nels	o Whom? son / OCD-Artesi	a	<u></u>	
By Whom?	Clay Osbo	m				Date and H	Hour 12/13/2004	4 10:3	0 am	

If YES, Volume Impacting the Watercourse.

Describe Area Affected and Cleanup Action Taken.*

Describe Cause of Problem and Remedial Action Taken.*

If a Watercourse was Impacted, Describe Fully.*

🗌 Yes 🖾 No

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

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.

OIL CONSE	RVATION I	DIVISION
Approved by District Supervisor:		
Approval Date:	Expiration D	Date:
Conditions of Approval:		Attached
	OIL CONSE Approved by District Supervisor: Approval Date: Conditions of Approval:	OIL CONSERVATION

Attach Additional Sheets If Necessary

APPENDIX B

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Water Resources



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 **Output** formats Hydrologic Unit Code Table_of data_ Latitude 32°19'52", Longitude 103°40'08" NAD27 Land-surface elevation 3,648.00 feet above sea level NGVD29 <u>Tab-separated data</u> The depth of the well is 630 feet below land surface. Graph of data_ This well is completed in the SANTA ROSA SANDSTONE (231SNRS) local Reselect period aquifer. USGS 321952103400801 235,32E,03,311114 leve. 3230 Ground-Mater Level, in feet below surface sea 420 ◬ above 3225 feet 425 Level, in 3220 430 Hater 3215 435 f **Altitude** \mathbb{A} Δ డ చ 3210 \triangle 1976 1979 1982 1985 1988 1991 1994 1997 2600 2003 2006 Breaks in the plot represent a gap of at least one calendar year between two consecutive points. Download a presentation-quality graph

Questions about data <u>New Mexico NWISWeb Data Inquiries</u> Feedback on this website<u>New Mexico NWISWeb Maintainer</u> Ground water for New Mexico: Water Levels http://waterdata.usgs.gov/nm/nwis/gwlevels? <u>Top</u> Explanation of terms



							uepui	Mater In	reeu
Bsn	Tws	Rng Sec	Zone	х	Y	Wells	Min	Max	Avg
<u> </u>	23S	32E 21				1	400	400	400

Record Count: 1

----Township: 23S Range: 31E Sections: NAD27 X: Y: Zone: Search Radius: Basin: Number: Suffix: County: Owner Name: (First) (Last) Ì Non-Domestic Domestic O All Well://Surface:Data Report

Clear, Formal WATERS Menu

AVERAGE DEPTH OF WATER REPORT 11/17/2005 (Depth Water in Feet) Tws Rng Sec х Y Wells Bsn Zone Min Max Avg 23S 31E 05 354 С 1 354 354 23S 31E 06 С 1 85 85 85 Record Count: 2

New Mexico_Office_of the State Engineer Well Reports and Downloads

	Well Re	ports and Do	wnloads		
Township: 24	IS Range: 31E	Sections:		· •···· · · · · · · · · · · · ·	i
NAD27 X:	Y:	Zone:		Search Radius:	· · · · · · · · ·
County:	Basin:		Numb	er: Suffi	x:
Owner Name: (First)		ast) @All	<u>.</u> 2	© Non-Domestic	Domestic
Well (Surface Data Re	eport Av	g.Depth.to.Wa	ter-Report	Wäter-C	olumniReport
	Clear.Form	WATERS	<u>Menu</u>	Heip.	
		<i></i>			<u> </u>

		AVERA	4GE	DEPTH OF	WATER	REPORT	11/17/	/2005		
								(Deptl	n Water in	Feet)
Bsn	Tws	Rng	Sec	e Zone	Х	Y	Well	ls Min	Max	Avg
C	24S	31E	02					3 160	212	192
Reco	rd Co	ount:	3							

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New Mexico <u>Office</u> of the State Engineer Well Reports and Downloads

APPENDIX C

Analytical Report

12/30/2004

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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.Project: Pogo/ Amax 24 #8 TBFax: (432) 682-39461910 N. Big Spring St.Project Number: 2277Reported:Midland TX, 79705Project Manager: Ike Tavarez12/30/04 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	Soit	12/17/04 00:00	12/22/04 15:15
AH-2 (0-1.0')	41.22017-04	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

	Decide	Reporting	114/4-			_	•		
Analyte	Result	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	
Tolucne	ND	0.0250	"	н	17	n	H.	U	
Ethylbenzene	ND	0.0250		14	"	"	**	19	
Xylene (p/m)	ND	0.0250	n	"	-11	N	ч	19	
Xylene (o)	ND	0.0250	"	н	"	"	"	17	
Surrogate: a,a,a-Trifluorotoluene		96.1 %	80-	120	re	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	80-	120	11	"	"	"	
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	4	н	14	u	и	й	
Total Hydrocarbon C6-C35	4060	10.0	*1	н	14	u			
Surrogate: 1-Chlorooctane		113 %	70-	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		113 %	70-	130	"	"	и	"	
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	н.	**	11	H	п	ti	
Ethylbenzen¢	0.0621	0.0250	•			"	u	u	
Xylene (p/m)	0.145	0.0250	н	и	н	я	u	11	
Xylene (0)	0.0471	0.0250	14		в	u	*1	11	
Surrogate: a,a,a-Trifluorotoluene		109 %	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	80-	120	"	"	"	u –	
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	14	n	и .	et .	u	n	
Total Hydrocarbon C6-C35	111	10.0	ų	"	11	e	u	tt	
Surrogate: 1-Chlorooctane		106 %	70-	130	н	н	"	"	
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	"	. u	4	U	**	0	
Total Hydrocarbon C6-C35	ND	10.0	"	"	•1	и	"	11	
Surrogate: 1-Chlorooctane		108 %	70-	130	11	"	н	"	
Surrogate: 1-Chlorooctadecane		117 %	70-	130	"	"	. "	"	

Highlander Environmental Corp.	Project: Pogo/ Amax 24 #8 TB Project Number: 2277							Fax: (432) 682-3946 Reported:		
Midland TX, 79705		Project Ma	mager: Ike	Tavarez				12/30/04 12:19		
· · · · · · · · · · · · · · · · · · ·		Or	ganics ł	y GC					_	
		Environn	nental L	ab of T	exas					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note	
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	D	u	IF	n	19	n		
Total Hydrocarbon C6-C35	ND	10.0	H	u	п	11	H	"		
Surrogate: 1-Chlorooctane		91.4 %	70	130	"	"	"	"		
Surrogate: 1-Chlorooctadecane		86.6 %	70	130	n	n	#	. "		
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	10	ti	н	u	P	н		
Total Hydrocarbon C6-C35	ND	10.0	*	и	*1	"	11	0		
Surrogate: 1-Chlorooctane		107 %	70-	130	"	"	"	"		
Surrogate: 1-Chlorooctadecane		116 %	70-	130	"	n	μ	"		
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	W	*1	14			н		
Ethylbenzene	ND	0.0250	11	U	11	u	11	11		
Xylene (p/m)	ND	0.0250	*1	0	*1	U	11	11		
Xylene (o)	ND	0.0250	n	v	u		11	н		
Surrogate: a.a.a-Trifluorotoluene		97.5 %	80-	120	"	"	"	"		
Surrogate: 4-Bromofluorobenzene		88.0 %	80-	120	"	11	"	"		
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	ì	EL42220	12/22/04	12/23/04	EPA 8015M		
Diesel Range Organics >C12-C35	ND	10.0	R		1+	4	u	*		
Total Hydrocarbon C6-C35	ND	10.0	"	н	11	a	0	U		
Surrogate: 1-Chlorooctane		102 %		130	"	v	a	té		
Surrogate: 1-Chlorooctadecane		108 %	70-	130	"	"	n	"		
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	19	v	п	· "	n	41		
Ethylbenzene	ND	0.0250	14	**	и	*	. н	u		
Xylene (p/m)	ND	0.0250	**	11	"	11	n	и		
Xylene (0)	ND	0.0250	*1	*1	п	n	I	14		
Surrogate: a,a,a-Trifluorotoluene		101 %	80-	120	#	"	"	·····		
Surrogate: 4-Bromofluorobenzene		90.2 %	80-	120	"	"	н	"		
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	17	n	н	n	**	H		
Total Hydrocarbon C6-C35	ND	10.0	и	и	п	14	9 7	*		
Environmental Lab of Texas			The r	esults in th	is report an	aly to the sam	nles analyzed	in accordance with	the sample	

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

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

Organics by GC

Enviro	nmental	Lab	01	I exas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-7 (0-1.0') (4L22017-19) Soil				·					
Surrogate: 1-Chlorooctane		95.6 %	70-1	30	 EL42220	12/22/04	12/23/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		101 %	70-1	30	"	"	**	"	

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Gen	ieral Cher	nistry Para	meters b	y EPA	/ Stand	lard Met	hods		
		Environ	mental L	ab of T	lexas				
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 ·	ÉL42307	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		%	I	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	

Gen	General Chemistry Parameters by EPA / Standard Methods										
		Environn	iental L	ab of T	exas						
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) Soit								<u> </u>			
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				<u> </u>							
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			

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Highlander Environmental Corp. 1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ Amax 24 #8 TB Project Number: 2277 Project Manager: Ike Tavarez

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		

Environmental Lab of Texas

Organics by GC - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EL42220 - Solvent Extraction	(GC)					····	•			<u> </u>
Blank (EL42220-BLK1)				Prepared:	12/22/04	Analyzed	: 12/23/04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet						<u> </u>	
Diesel Range Organics >C12-C35	ND	10.0								
Total Hydrocarbon C6-C35	ND	10.0	11							
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	0.01	mg/kg wet	500		89.4	75-125			
Diesel Range Organics >C12-C35	500	10.0	+1	500		100	75-125			
Total Hydrocarbon C6-C35	.947	10.0	•1	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		u	500·		105	80-120			
Total Hydrocarbon C6-C35	1070		u	1000		107	80-120		•	
Surrogate: 1-Chlorooctane	55.5		"	50.0		Ш	70-130			
Surrogate: 1-Chlorooctadecane	50.8		"	50.0		102	70-130			
Matrix Spike (EL42220-MS1)	Sou	rce: 4L220	15-02	Prepared	. 12/22/04	Analyzed	1: 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	U	519	146	107 .	75-125			
Total Hydrocarbon C6-C35	1240	10.0	н	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)	Sou	rce: 4L220	15-02	Prepared	: 12/22/04	Analyzed	l: 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	۳	519	146	103	75-125	2.90	20	
Total Hydrocarbon C6-C35	1240	10.0	н	1040	166	103	75-125	0.00	20	
Surrogate: 1-Chlorooctane	54.0		mg/kg	50.0		108	70-130		· · ·	<i></i>
Surrogate: 1-Chlorooctadecane	47:6		"	50.0		95.2	70-130	•		

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Organics by GC - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL42704 - EPA 5030C (GC)										
Blank (EL42704-BLK1)		· · · · ·		Prepared	& Analyze	ed: 12/23/0)4			
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250								
Ethylbenzene	ND	0.0250	n							
Xylene (p/m)	ND	0.0250	n							
Xylene (0)	ND	0.0250	11							
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	& Analyz	ed: 12/23/	04			
Benzene	89.8		ug/kg	100	·	89.8	80-120			
Toluene	92.9		н	100		92.9	80-120			
Ethylbenzene	108		19	100		108	80-120			
Xylene (p/m)	240		lu.	200		120	80-120			
Xylene (0)	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	I: 12/27/04			
Benzene	100		ug/kg	100		100	80-120			
Toluene	98.1		н	100		98.1	80-120			
Ethylbenzene	98.1		и	100		98.1	80-120			
Xylene (p/m)	214			200		107	80-120			
Xylene (0)	105		14	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)	So	urce: 4L220)17-16	Prepared	: 12/23/04	Analyzed	l: 12/27/04			-
Benzenc	96.2		ug/kg	100	ND	96.2	80-120			
Toluene	97.7		*	100	ND	97.7	80-120			
Ethylbenzene	100		u	100	ND	100	80-120			
Xylene (p/m)	221		U	200	ND	110	80-120			
Xylene (0)	103		U	100	ND	103	80-120			
Surrogate: a,a,a-Trifluorotoluene	116		"	100	· _ ·	116	80-120			
Surrogate: 4-Bromofluorobenzene	107		"	100		107	80-120		•	

Environmental Lab of Texas

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 EL42704 - EPA 5030C (GC)										
Matrix Spike Dup (EL42704-MSD1)		urce: 4L220	17-16	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		u	100	ND	95.2	80-120	2,59	20	
Ethylbenzene	96.6		н	100	ND	96.6	80-120	3.46	20	
Xylene (p/m)	214		н	· 200	ND	107	80-120	2.76	20	
Xylene (o)	101		и	100	ND	101	80-120	1.96	20	
Surrogate: a,a,a-Trifluorotoluene	115		"	100		115	80-120			
Surrogate: 4-Bromofluorobenzene	113		a	100		113	80-120			
Batch EL42906 - EPA 5030C (GC)	<u> </u>		<u> </u>							
Blank (EL42906-BLK1)				Prepared	& Analyze	ed: 12/28/	04			
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	*1							
Xylene (p/m)	ND	0.0250								
Xylene (0)	ND	0,0250	н							
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	& Analyz	ed: 12/28/	04			
Benzene	95.4		ug/kg	100		95.4	80-120			
Toluene	96.4		*	100		96.4	80-120			
Ethylbenzene	103		*1	100		103	80-120			
Xylene (p/m)	231		*1	200		116	80-120			
Xylene (0)	110		н	100		110	80-120			
Surrogate: a,a,a-Trifluorotoluene	114		"	100		114	80-120			
Surrogate: 4-Bromofluorobenzene	119		"	100		119	80-120			

Environmental Lab of Texas

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Unițs	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			
Totuene	96.4		"	100		96.4	80-120			
Ethylbenzene	99.4		u	100		99.4	80-120			
Xylene (p/m)	219		n	200		110	80-120			
Xylene (o)	106		н н	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)	So	urce: 4L270()2-05	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		U	100	ND	101	80-120		•	
Xylene (p/m)	226		н	200	ND	113	80-120			
Xylene (o)	109		н	100	ND	109	80-120			
Surrogate: a,a,a-Trifluorotoluene	112	· · · · ·	11	100		112	80-120			
Surrogate: 4-Bromofluorobenzene	115		"	100		115	80-120			
Matrix Spike Dup (EL42906-MSD1)	So	urce: 4L270(02-05	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		n	100	ND	93.2	80-120	2.50	20	
Ethylbenzene	101		н	100	ND	101	80-120	0.00	20	
Xylene (p/m)	226		н	200	ND	113	80-120	0.00	20	
Xylene (o)	108		н	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			

Environmental Lab of Texas

Highlander Environmental Corp.	Project: Pogo/ Amax 24 #8 TB								Fax: (432) 682-3946		
1910 N. Big Spring St.	Project Number: 2277								Reported:		
Midland TX, 79705	_	Project Mana	nger: Ike	Tavarez				12/30/04 12:19			
General Chen	nistry Param	eters by]	EPA / S	Standar	d Meth	ods - Q	uality C	ontro	1		
	Ē	nvironme	ental L	ab of T	exas						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch EL42219 - General Preparat	ion (Prep)										
Blank (EL42219-BLK1)				Prepared:	12/22/04	Analyzed:	12/23/04				
% Moisture	0.003		%								
Duplicate (EL42219-DUP1)	Sou	rce: 4L22004	4-01	Prepared:	12/22/04	Analyzed:	12/23/04				
% Moisture	8.7		%		9.0			3.39	20		
Batch EL42307 - Water Extraction									_		
Blank (EL42307-BLK1)				Prepared	& Analyze	ed: 12/23/0	14				
Chloride	ND	20.0 n	ng/kg Wet		<u>-</u>						
Blank (EL42307-BLK2)				Prepared	& Analyze	ed: 12/23/0	4				
Chloride	ND	20.0 n	ng/kg Wet	<u></u>							
Matrix Spike (EL42307-MS1)	Sou	rce: 4L2201	7-02	Prepared	& Analyz	ed: 12/23/0)4 ·				
Chloride	500	20.0 n	ng/kg Wet	500	74.4	85.1	80-120				
Matrix Spike (EL42307-MS2)	Sou	rce: 4L2201	7-21	Prepared	& Analyze	ed: 12/23/0)4				
Chloride	436	20.0 n	ng/kg Wet	500	0.00	87.2	80-120				
Matrix Spike Dup (EL42307-MSD1)	Sou	rce: 4L2201	7-02	Prepared	& Analyz	ed: 12/23/0)4				
Chloride	489	20.0 m	ng/kg Wet	500	74,4	82.9	80-120	2.22	20		
Matrix Spike Dup (EL42307-MSD2)	Sou	rce: 4L2201	7-21	Prepared	& Analyz	ed: 12/23/0)4				
Chloride	· 447	20.0 n	ng/kg Wet	500	0.00	89.4	80-120	2.49	20		

mg/kg

5000

Reference (EL42307-SRM1) Chloride

5000

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.

Prepared & Analyzed: 12/23/04

100

80-120

Highlander Environmental Corp.	Project: Pogo/ Amax 24 #8 TB	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2277	Reported:
Midland TX, 79705	Project Manager: Ike Tavarez	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	& Analyz	ed: 12/23/	04			
Chloride	5000		mg/kg	5000		100	80-120			
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Environmental Lab of Texas

Highlander Environmental Corp.		Project:	Pogo/ Amax 24 #8 TB	Fax: (432) 682-3946
1910 N. Big Spring St.	•	Project Number:	2277	Reported:
Midland TX, 79705		Project Manager:	Ike Tavarez	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:

Raland K. Tuttle, Lab Manager U 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.

Date:

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Cline

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

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 14 of 14

rd PAGE: / OF: 3	(Circle or Specify Method No.)		300 DC	946 R R R R		108 108 108 108 108 108 108 108	PLAN (Asbes) PLAN (Asbes) Genning Spe Genning Spe PPOD, TSS, p Pod, Bold, Send Pest, 608/6 Pest, 608/6 Pest, 608/6 Pest, 808/6 Pest, 808/6 <td< th=""><th>X X X X X</th><th>X</th><th>X</th><th>X X X X X</th><th>X X X X</th><th></th><th></th><th>X</th><th>X X X </th><th>X</th><th>AMPLED BY: (Print & Sun) (0.716.710) Jersen frank Mine: 1.20</th><th>SAMPLE SHIPPED BY: (Circle) FEDRY BUS AIRBUL A</th><th>HAND DELYVERED UPS OTHER:</th><th>HUGHLANDER CONTACT PERSON: RUSH CANTer</th><th>7 Ile The Vertez Authorizadi</th><th>BTEX ON the 3 highest TPH'S for AH-1 thrown</th></td<>	X X X X X	X	X	X X X X X	X X X X			X	X X X	X	AMPLED BY: (Print & Sun) (0.716.710) Jersen frank Mine: 1.20	SAMPLE SHIPPED BY: (Circle) FEDRY BUS AIRBUL A	HAND DELYVERED UPS OTHER:	HUGHLANDER CONTACT PERSON: RUSH CANTer	7 Ile The Vertez Authorizadi	BTEX ON the 3 highest TPH'S for AH-1 thrown
dy Reco	aavy	CURF.		x (432) 682-39	R PRESE	//n) Conta	HUOG HCT LILLELED (J KITLELED (J											Date: Time:	Date: Time:	N Pretei -		THR: 15:13	Id REMARK
and Chain of Custo	ITUINITATIA	ENVIRUNMENIAL	N. Big Spring St.		SITE MANAGER: I/Le TAMIEZ	Anax 24 #8 TB	ENDY LOUNTY, NM SAMPLE IDENTIFICATION	1-1 10-1.0'1	-1 11.0'-1.5'	- / / 2.0' - 2.5']	-2 10-1.0'1	- 3 [0-1.0']	- 3 (1.0' -1.5')	-3 (2.0'-2.5')	- 7 [7.0'-3.5']	-4 [0-1.0]	1.5.1-,011 h-	LT 105 LY RECEIVED BY: (Signature)	RECEIVED BY: (Signature)	RECEIVED BY, (Signature)	RECEIVED AN (SUBJOUR)	poller internet	MATRIX: W-Tatar A-Air SID-Sou (<u>9-Sail</u> SIL-Sudge 0-Otha
alysis Request		HIGHLANDER	1910 I Midley	2) 682-4559	AME: POGO	NO.: 2277 PROJECT NAME	DATE COMP. MATRIX BA BA BA BA BA BA BA BA BA BA BA BA BA	217764 S X HH	1 X X X	- HH X X HH-	- HAX S	- HAX S	5 X 4H-	- HH X S	- ## X X	-HHX $ X HH$	-HAM 2 - VAH-	D. Els. (Signalura) Date:	D BY: (Signation) Date:	D BY: (Signature) Date:	ABORATORY:	STATE: PHONE:	DITION THEN RECEIVED:
Ana				(432)	CLIENT NA	PROJECT N	LAB I.D. NUMBER	101	8	- 63	19-	ý	20,	10-	90 1 1	ş	-10	EL INQUESTION	CELINO UTSHED	KI INQUISHED	ECEIVING 14	DDRESS:	AMPLE COND

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or: 3	ST hođ No.)			Cep	Line Line Line Line Line Line Line Line	eo; (۲۳۰) ۲۰۵ 80	Реесі. 608/6 ВОD, TSZ, р Селпис Зре Аїрће Веіса Раба Азреяба	X	X	X	X	X		X	X	X		Date: //////// Time: //:00		OTHER:	Romite by:	Authorized:		
PAGE: 2	ANALYSIS REQUE (Circle or Specify Met		BH Pa BH 9a BH 9a	22 C2- C2-	510/68 90/65 99 C4 99 C4 89 C4	099 Aoi: 9 Aoi: 9 A	ЬСВ, ⁸ 8080 ³ СС. Ж. 8080 ³ СС. Ж. 89701 КСТБ 2010 КСТБ 2010 КСТ 2010 ССС 2010 С				×							SAMPLED BY: (Print & Sum)	SAMPLE SHIPPED BY: (Circle)	HAND DELIVERED UPS	HIGHLANDER CONTACT PERSON:	The Taurer	1455	
V Record		CUKP.		(432) 682-3946	PRESERVATIVE	eos 	USER BOSO ICE HUOG HCT LILLENED (A LILLENED (A	X 1		X 	X 	X	X			X X X 11	Х	Date: Time:	Date:	Date:	71000	151	REMARKS: 402 (
hain of Custod		YUNMENTAL	as 79705	Fax	AGER: I'LE TUNNEZ	4#8TD	17 COUNTY, NM IDENTIFICATION	0'-2.5')	0 3.5']	0'-4.5')	-1.0'	· - /· 5 ·]	-/.0')	, -1.5')	12.5')	-/.0')	1, -1.51	Z RECEIVED BY: (Signature)	RECEIVED BY: (Signature)	RECEIVED BY: (Signature)	RECEIVED BY (Sugnature)		- Vatyr (7	-Sall) II-Sudge 0-Other
ninest and Ch		VDER ENVIR	Midland, Texa		SITE MAN	POCO/AME ax 21	Edd COMP.	X AH -4 12	X ## -4 13	H) H-HV	NAH-5 10	XAH-5 11.0	NAH-6 10	XAH-6 11.0	X #H - 6 (2.0	0 1 1-HAN	XAH-7 11.0	Date: 12/22/5 Time: 7 v 5	Date:	Date:	71me:	TR: ZIP:		<u></u>
Anglycic Roc	ANT STEATDIN	HIGHLAN		(432) 682-4559	CLIENT NAME: PO60	PROJECT NO.: 2277	LAB I.D. DATE TIME K	-11 12/17/64	-12 5	- 13	> 14	- 15	-14		31-	2	S A Ca-	RELINGUISTED BY: (Bigmature)	RELINQUISHED BY: (Signature)	RELINQUISHED BY: (Signature)	RECEIVING LABORATORY:	ADDRESS: STAT	SAMPLE CONDITION WHEN RECEIVED	

PAGE: 3 OF: 3 ANALYSIS REQUEST	(Circle or Specify Method No.)			Pd Qd	۲۵ ۲۵ ۲۵ ۲۵ ۲۵	200/62 270/62 270/62 860/62	(20) (-(-(-)) (-(-(-)) (-(-))) (-(-)) (-(-)))((-(-)))) (-(-)))((-(-)))((-(PLM (Asbest PLM (Asbest Pest, 808/6 Pest, 808/6 Pest, 808/6 Pest, 808/6 RCLP Semi RCI RCI RCI RCI RCI RCI RCI RCI RCI RCI							LED BY: (Brint & Sign) Date: 12/22/07 Right for 20	IR SHIPPED BY: (Circie) X BUS ARBIL #	DELAVERED UPS OTHER	LANDER CONTACT PERSON: RUSH Charges	FL / U UN C - Authorizad:	
			9001	DKL		10 m 91	1 90 808 1 90	81 5 X 8050/ 19195 8050/ 1919					-		SAME -	SAUF	HAM		+ 	2 Gless
y Record	aav	UNF.			(432) 682-3946	PRESERVATIVE	/N)	NONE ICE HNO3 HIO3 HCT LILLENRD (J	X						Date: Time:	Date: Time:	Bato:	A.	ne: 15: 15	REMARKS: 40
Chain of Custod	I A THAT A A A A A A A A A A A A A A A A	VIRUNNMENIAL (lig Spring St.	Texas 79705	Fax (E MANAGER: IKE TUVATE	24#87B	Eddy County, NM AMPLE IDENTIFICATION	12.0'-2.5')						1210 RECEIVED BY: (Signature)	RECEIVED BY: (Signature)	RECEIVED BY: (Signature)	RECEIVED AN. (Sugarthane)	mail 12/22/04	D: F-Tater A-Air 2D-Saild (S-Sail) 31-Saild
sis Request and		THLANDER EN	1910 N. B	Midland,	2-4559	P060 am	277 PROJECT PANE:	E COMP: TAVINIX	64 S X AH - 7						(Signature) Date: 10,6	(Signature) Date: Time:	(Signature) Date:	ORY:	STATE: ZIP:	WHEN RECEIVED: MATH
Analys	111	HI((432) 68	CLIENT NAME:	PROJECT NO.: 7	LAB I.D. NUMBER VL22017	-21 12/17					 C.	RELINGUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:	RECEIVING LABORAT	CUTY:	SAMPLE CONDITION

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

Client: Highlander Enviro	
Date/Time: 12/22/04 15:15	
Order #: <u> 山レンスの17</u>	

TUH

Initials:

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	-0,5 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not-present
Custody Seals intact on sample bottles?	Yes	No	(Not present)
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	(Yes)	No	
Container labels legible and intact?	YES	No	
Sample Matrix and properties same as on chain of custody?	(Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	(res)	No	
Preservations documented on Chain of Custody?	(res)	No	
Containers documented on Chain of Custody?	(res)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Tes)	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

Variance Documentation: Contact Person: -____ Date/Time: _____ Contacted by: _____ Regarding: Corrective Action Taken:

•

Analytical Report

.

•

4/15/2005



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.	Project	Pogo/ Amax 24 #8 TB	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number	2277	Reported:
Midland TX, 79705	Project Manager	ike Tavarez	04/15/05 07:44
4			

.

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
All-5 (2.0'-2.5')	5D11011-01	Soil	04/08/05 10:00	04/11/05 14:50
A11-5 (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 Tavarez

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') (5D11011-01) Soit	, 		_						
Chloride	3970	50.0	mg/kg	100	ED51409	04/14/05	04/14/05	EPA 300.0	
A11-5 (3.0°-3.5°) (5D11011-02) Soil									
Chloride	5600	100	mg/kg	200	ED51409	04/14/05	. 04/14/05	EPA 300.0	
AH-6 (1.0'-1.5') (5D11011-06) Soil	_								
Chloride	268	10.0	mg/kg	20	ED51409	04/14/05	04/14/05	EPA 300.0	
ATI-6 (2.0'-2.5') (5D11011-07) Soil									
Chloride	1180	50.0	mg/kg	100	ED51409	04/14/05	04/14/05	EPA 300.0	

Environmental Lab of Texas

Highlander Envirønmental Corp.	Project: Pogo/ Amax 24 #8 TB	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2277	Reported:
Midland TX, 79705	Project Manager: Ike Tavarez	04/15/05 07:44

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spîke	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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 8	Analyzed:	04/14/05				
Chloride	10.9		mg/L	10.0		109	80-120			
Calibration Check (ED51409-CCV1)				Prepared 8	E Analyzed:	04/14/05				
Chloride	10.3		mg/L	10.0		103	80-120			
Duplicate (ED51409-DUP1)	Sou	rce: 5D11012	-01	Prepared 8	Analyzed:	04/14/05				
Chloride	23.2	5.00	mgЛg		20.0			14.8	20	

Environmental Lab of Texas

Highlander	Environmental Corp.	Project:	Pogo/ Amax 24 #8 TB	Fax: (432) 682-3946		
1910 N. Bi	g Spring St.	Project Number.	2277	Reported:		
Midland T	X, 79705	Project Manager:	lke Tavarez	04/15/05 07:44		
		Notes and De	finitions			
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 Itals

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.

Date:

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Environmental Lab of Texas

SE: 1 OF: 1	scify Method No.)		(up) Ste	20/0/23 89/0/23	(50) (-14) (50) (50) (60) (60) (60) (70) (50) (50) (50) (50) (50) (50) (50) (5	104 EM.20 2015 2012 2016 2012 2016 2012 2017 2017 2018 2017 2017 2017 2017 2017 2017 2017 2017						ا ا ا ا ا ا ا ا ا ا	X			11) Dato: 4-//-)	trale) Affaild, /	UPS OTHER. Consider the	CRSON: RUSS CONTEN	Authorizand: Fish No	5 001c/	ipy – Accounting receives Cold copy.
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y Record	aav	URF.	432) 682-3946	PRESERVATIVE	(k//	RORE ICE HRO3 HCT LIEREN (L ROBER OR	×	X	×	X	>	X	×	X	X	Date: Timo:	Date: 712no:	Data: Time:		a: 1450	REMARKS: HOZ	s Enviromentel Corp Pr
and Chain of Custody	J I MILLEVELV CULLEVI	EIV VIKUIVMEIVIAL C N. Big. Spring St.	ALLU, ICAGE (STUU) Fax (4	SITE MANAGER: IKE TUNUEZ	4max 24# 8 70	Eddy y courty, MAY courty, MAY SAMPLER DENTIFICATION	11 1. 5. 0. 25 1	1 1.5 3. 0 3. 5.1	1,5.H- ,0.H KJ-1	1-5150-5.51	1.0.1 - 0.1.		2.0' -2.5'	H. 0. 7.5'	- + + · · · + · 2	 H-11-05 RECEIVED BY: (Signature)	RECEIVED BY: (Signature)	RECEIVED BY: (Signature)	11 Dot 17 (201 HERRYED BY. (Superium)	22: 04:11-05 TH	<u>KATRDX W-Yatar A-Air</u> 2D-Saild <u>3-Soil</u> 21-22adge 0-0ther	ne rellow oopy Return original copy to Highlander
Analysis Request	CLUIN IIIVIII	HIGHLANDER 1910	(452) 682-4559	CLIENT NAVE: P060	PROJECT NO.: 2277 PROJECT INU	LAB LD. NUTHER DATE THE COMP.	-ci 14-8-05/ 10:00 × 1/2/	-uz 1 10:05 X AFH	· 03 10:10 5 XCTH	- un 10:155 & # ##	-05 111:305 (X 4H	-oc 11:355 X A.H.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-00 111:402 474	-11:20% XTH-	RELINGUEREN AN (STRUCTURO) Date: .	REINQUISHED 37; (Signature) Date: The:	attivequisting) BY: (Signeture) Date:	RECEIVING LABORATORY: EASTON THEAT AT 1	COTY O (17/14 STATE 7/	SAMPLE CONDITION THEN RECEIVED: 3.5 °C	Please Pill out all copies - laboratory retain

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

Client:	righta	<u>5</u> d	<u>er Er</u>	<u>~~</u>	J
Date/Time:	<u>04-</u>	(1	-05	0	1450

Order #: 5011011

Initials: Jmm

7.1

Sample Receipt Checklist

Temperature of container/cooler?	CRES	No	3,5 C
Shipping container/cooler in good condition?	CD	No	
Custody Seals intact on shipping container/cooler?	1200	No	Not present
Custody Seals intact on sample bottles?	(res)	No	Not present
Chain of custody present?	Pres 1	No	
Sample Instructions complete on Chain of Custody?	Tres	No	
Chain of Custody signed when relinquished and received?	res	Na	
Chain of custody agrees with sample label(s)	(ED)	No	
Container labels legible and intact?	(es)	No	
Sample Matrix and properties same as on chain of custody?	(Ves)	No	
Samples in proper container/bottle?	Tes	No	
Samples properly preserved?	(res)	Ne	
Sample bottles intact?	(res)	No	
Preservations documented on Chain of Custody?	(res)	No	
Containers documented on Chain of Custody?	(Ves)	No	
Sufficient sample amount for indicated test?	(Ves)	No	
All samples received within sufficient hold time?	(6)	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: Regarding:	Date/Time:	Contacted by:
Corrective Action Taken:		مند به و منه منه به منه به منه به منه به منه به منه به منه منه منه منه منه منه منه منه منه من
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Analytical Report

4/28/2005



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: Lea County, NM

Lab Order Number: 5D25007

Report Date: 04/28/05

Highlander Environmental Corp.	Project: Pogo/ Amax 24 #8 TB	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2277	Reported:
Midland TX, 79705	Project Manager: Ike Tavarez	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')	51025007-05	Soil	04/08/05 11:50	04/11/05 14:50

Highlander Environmental Corp.	Project: Po	'одо/ Amax 24 #8 ТВ	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 22	277	Reported:
Midland TX, 79705	Project Manager: Ik	ke Tavarez	04/28/05 10:47

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

······································		Reporting		-					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-5 (4.0'-4.5') (5D25007-01) Soil			· · · · ·						
Chloride	3290	50.0	mg/kg	100	ED52805	04/27/05	04/27/05	EPA 300.0	
AH-5 (5.0'-5.5') (51725007-02) Soil									
Chłoride	19900	2000	mg/kg	4000	ED52805	04/27/05	04/27/05	EPA 300.0	
AH-6 (0-1.0') (5D25007-03) Soil									
Chloride	99.3	5.00	mg/kg	10	ED52805	04/27/05	04/27/05	ÉPA 300 0	
AH-6 (3.0'-3.5') (5D25007-04) Soil									
Chloride	1520	50.0	mg/kg	100	ED52805	04/27/05	04/27/05	EPA 300 0	
AH-6 (4.0'-4.5') (5D25007-05) Soil							•		
Chloride	20.0	5.00	mg/kg	10	ED52805	04/27/05	04/27/05	EPA 300.0	

Environmental Lab of Texas

Highlander Environn	ental Corp.	Project:	Pogo/ Amax 24 #8 TB	Fax: (432) 682-3946
1910 N. Big Spring S	l.	Project Number:	2277	Reported:
Midland TX, 79705		Project Manager:	Ike Tavarez	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 8	2 Analyzed:	04/27/05				
Chloride	ND	0.500	mg/kg							
LCS (ED52805-BS1)				Prepared &	Analyzed:	04/27/05				
Chloride	9.79		mg/1.	10.0		97.9	80-120			
Calibration Check (ED52805-CCV1)				Prepared &	k Analyzed:	04/27/05				
Chłoride	10.1		mg/t,	10.0		101	80-120			
Duplicate (ED52805-DUP1)	Sou	rce: 5D25005-	-01	Prepared 8	k Analyzed:	04/27/05				
Chloride	3690	50.0	mg/kg		3530			4.43	20	

Environmental Lab of Texas

Highlander 1910 N. Big Midland TX	Environmental Corp. Spring St. 7, 79705	Project: Project Number: Project Manager:	Pogo/ Amax 24 #8 TB 2277 Ike Tavarez	Fax: (432) 682-3946 Reported: 04/28/05 10:47
		Notes and De	finitions	
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:

Ciling D. Kune Date:

4/28/2005

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

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

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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W	idland, Texas 79705		i pai - i qai - suxu
-4559	Fax (432) 082-3940	
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Ngnature)	Date: 11-11-05 RECEIVED BY: (Signature) Time: 2-0.10	Date: Time:	SAMPLED BY, (Pring & Jun
Signature)	Date: There: RECEIVED BY: (Signature)	Date: Time:	SAMPLE SHIPPED BY: (Curols reduced au
Signature)	Date: RECEIVED BY: (Signature)	Dato: Time:	AND DELIVERED UP
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* Add Or as per automore erman oursense

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

Client:	Highlander Env.

Date/Time:	04-11-05	<u>E1450</u>
Order #:	517-1-0-11	5 D25007

COPY

Order #: JMM

Initials:

Sample Receipt Checklist

Temperature of container/cooler?	1 (TES) NO	<u>3,5 °</u>
Shipping container/cooler in good condition?	1 CED! NO	:
Custody Seals intact on shipping container/cooler?	REP! NO	1 Not present
Custody Seals intact on sample bottles?	(res) No	1 Not present
Chain of custody present?	Ares, No	
Sample Instructions complete on Chain of Custody?	(Tes) No	<u>}</u>
Chain of Custody signed when relinquished and received?	(res) No	
Chain of custody acrees with sample label(s)	I (as) No	1
Container labels legible and intact?	(Yes) No	Į
Sample Matrix and properties same as on chain of custody?	(Ves) No	i
Samples in proper container/bottle?	1 MEST NO	1
Samples procerly preserved?	I (YES) No	:
Sample cottles intact?	(es) No	i
Preservations documented on Chain of Custody?	((as) No	
Containers documented on Chain of Custody?	(FES) NO	
Sufficient sample amount for indicated test?	(VES) NC	
Ail semples received within sufficient hold time?	MED No	:
VOC samples have zero headspace?	XES'L NO	Not Applicacie

Other observations:

Variance Documentation:

 Variance Documentation:

 Contact Ferson: -_____ Cate/Time: ______ Contacted by: ______
 Regarding: Corrective Action Taken:

Jeanne McMurrey

From: To: Sent: Subj e ct:	"Ike T' <itavarez@he "Jeanne McMurrey" Monday, April 25, 20 FW: Additional Analy</itavarez@he 	ec-enviro.com> <jeanne@elabtexas.com> 105 11:26 AM ysis</jeanne@elabtexas.com>
Original From: Ike T Sent: Mond To: Jeanne Subject: Ac	Message " [mailto:itavarez@hec ay, April 25, 2005 11:7 - enviro lab (jeanne@e Iditional Analysis	:-enviro.com] 26 AM elabtexas.com)
Jeanne,		
Run the add	litional analysis for the	Sites below. Call me if you have any questions, Thanks:
Pogo/Stewa Sample Date Lab order N	a rt TB, Lea County, N e:4/6/05 umber – 5D11008	IM - Project # 2326
Run: Chloric	le T-1	1 (2.0') BEB, AH-2
Pogo/Amax Sample Dat Lab order #	t 24 #8, Eddy County , e: 4/8/05 ! 5D11011	, NM - Project # 2277
Run Chlorid	es: AH AH-	I-5 (4-4.5') 5 (5-5.5')
	AH- A AH-	6 (0-1') H-6 (3-3.5') 6 (4-4.5')
Pogo/Plain: Sample Dat Lab order #	s Knight TB, Lea Cou e: 4/7/05 5D11010	inty, NM - Project # 1469
Run: Chlorid	ies: Are Are	ea 2 (8.0') BEB a 5 (6.0') BEB
This mess dangerous believed t	sage has been sca s content by Mails to be clean.	nned for viruses and Scanner at <u>BasinBroadBand.com,</u> and is

4/25/2005

Analytical Report

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10/31/2005



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 Tavarez 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)	5[13014-01	Soil	09/07/05 00:00	09/13/05 16:00
BH-1 (10-11)	5[130]4-02	Soil	09/07/05 00:00	09/13/05 16:00
. BH-1 (15-16)	5113014-03	Soil	09/07/05 00:00	09/13/05 16:00
BH-1 (20-21)	5113014-04	Soil	09/07/05 00:00	09/13/05 16:00
BH-2 (5-6)	5113014-05	Soil	09/07/05 00:00	09/13/05 16:00
BH-2 (10-11)	5113014-06	Soil	09/07/05 00:00	09/13/05 16:00
BH-2 (15-16)	5113014-07	Soil	09/07/05 00:00	09/13/05 16:00
BH-2 (20-21)	5113014-08	Soil	09/07/05 00:00	09/13/05 16:00
#1 (0-1')	5113014-09	Soil	09/07/05 00:00	09/13/05 16:00
#1 (1-1.5')	5113014-10	Soil	09/07/05 00:00	09/13/05 16:00
#1 (2-2.5')	5113014-11	Soil	09/07/05 00:00	09/13/05 16:00
#1 (3-3.5')	5113014-12	Soil	09/07/05 00:00	09/13/05 16:00
#1 (4-4.5')	5113014-13	Soil	09/07/05 00:00	09/13/05 16:00
#2 (0-1')	5113014-14	Soil	09/07/05 00:00	09/13/05 16:00
#2 (1-1.5')	5113014-15	Soil	09/07/05 00:00	09/13/05 16:00
#2 (2-2.5')	5113014-16	Soil	09/07/05 00:00	09/13/05 16:00
#2 (3-3.5')	5113014-17	Soil	09/07/05 00:00	09/13/05 16:00
#2 (4-4.5')	5113014-18	Soil	09/07/05 00:00	09/13/05 16:00
#3 (0-1')	5113014-19	Soil	09/07/05 00:00	09/13/05 16:00
#3 (1-1.5')	5113014-20	Soil	09/07/05 00:00	09/13/05 16:00
#3 (2-2.5')	5113014-21	Soil	09/07/05 00:00	09/13/05 16:00
#3 (3-3.5')	5113014-22	Soil	09/07/05 00:00	09/13/05 16:00
#3 (4-4.5')	5113014-23	Soil	09/07/05 00:00	09/13/05 16:00

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Environmental Lab of Texas									
Analyte	Result	. Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
BH-1 (5-6) (5113014-01) Soil									
Chloride	3930	50.0	mg/kg	100	EI51507	09/14/05	09/14/05	EPA 300.0	
BH-1 (10-11) (5113014-02) Soil									
Chloride	4880	500	mg/kg	1000	EI51507	09/14/05	09/14/05	EPA 300.0	
BH-1 (15-16) (5113014-03) Soil									
Chloride	1640	25.0	mg/kg	50	EI51507	09/14/05	09/14/05	EPA 300.0	
BH-1 (20-21) (5113014-04) Soil									
Chloride	9.28	5.00	mg/kg	10	EI51507	09/14/05	09/14/05	EPA 300.0	
BH-2 (5-6) (5113014-05) Soil									
Chloride	3070	50.0	mg/kg	100	EI51507	09/14/05	09/14/05	EPA 300.0	
BH-2 (10-11) (5113014-06) Soil									
Chloride	4450	50.0	mg/kg	100	E151507	09/14/05	09/14/05	EPA 300.0	
BH-2 (15-16) (5113014-07) Soil			<u>.</u>						
Chloride	8.80	5.00	mg/kg	10	E151508	09/15/05	09/15/05	EPA 300.0	
BH-2 (20-21) (5113014-08) Soil									
Chloride	40.0	5.00	mg/kg	10	E151508	09/15/05	09/15/05	EPA 300.0	
#1 (0-1') (5113014-09) Soil									
Chloride	271	5.00	mg/kg	10	EI51508	09/15/05	09/15/05	EPA 300.0	
#1 (1-1.5') (5113014-10) Soil				_					
Chloride	278	5.00	mg/kg	10	E151509	00/15/05	00/15/05	EPA 300.0	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

	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	EI51508	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	EI51508	09/15/05	09/1 5/ 05	EPA 300.0	
#2 (0-1') (5113014-14) Soil									
Chloride	432	5.00	mg/kg	10	EI51508	09/15/05	09/15/05	EPA 300.0	
#2 (1-1.5') (5113014-15) Soil									
Chloride	2070	25.0	mg/kg	50	EI51508	09/15/05	09/15/05	EPA 300.0	
#2 (2-2.5') (5113014-16) Soil									
Chloride	8600	100	mg/kg	200	EI51508	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	EI51508	09/15/05	09/15/05	EPA 300.0	
#3 (1-1.5') (5113014-20) Soil							<u></u>		
Chloride	1220	20.0	mg/kg	40	EI51508	09/15/05	09/15/05	EPA 300,0	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

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

10/31/05 12:01

G	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	EI51508	09/15/05	09/15/05	EPA 300.0		
#3 (3-3.5') (5113014-22) Soil										
Chloride	2460	50.0	mg/kg	100	EI51508	09/15/05	09/15/05	EPA 300.0		
#3 (4-4.5') (5113014-23) Soil								·		
Chloride	57.5	5.00	mg/kg	10	EI51508	09/15/05	09/15/05	EPA 300.0		

Environmental Lab of Texas

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Deporting	-	Cailea	Couroo		0/DEC	•	חחח	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch E151507 - Water Extraction										
Baten E191907 - Water Extraction				•						
Blank (E151507-BLK1)				Prepared	& Analyze	ed: 09/14/0	05			
Chloride	ND	0.500	mg/kg							
LCS (E151507-BS1)				Prepared	& Analyze	ed: 09/14/	05			
Chloride	8.62		mg/L	10.0		86.2	80-120			
Calibration Check (EI51507-CCV1)				Prepared	& Analyze	ed: 09/14/0	05			
Chloride	9.06		mg/L	10.0		90.6	80-120			
Duplicate (EI51507-DUP1)	So	urce: 510900	1-01	Prepared	& Analyze	ed: 09/14/	05			
Chloride	801	10.0	mg/kg		796			0.626	20	
Batch EI51508 - Water Extraction										
Blank (EI51508-BLK1)				Prepared	& Analyz	ed: 09/15/	05			
Chloride	ND	0.500	mg/kg						<u> </u>	
LCS (EI51508-BS1)				Prepared	& Analyz	ed: 09/15/	05			
Chloride	8.41		mg/L	10.0		84.1	80-120			· · · · · · · · · · · · · · · · · · ·
Calibration Check (EI51508-CCV1)				Prepared	& Analyz	ed: 09/15/	05			
Chloride	8.45		mg/L	10.0	· · · · ·	84.5	80-120	······································	<u> </u>	
Duniicate (EJ51508-DUP1)	So	urce: 511301	4-07	Prepared	& Analyz	ed: 09/15/	05			
Chloride	8.74	5.00	mg/kg	. <u> </u>	8.80			0.684	20	

Environmental Lab of Texas

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
ł	RPD	Relative Percent Difference
ļ	LCS	Laboratory Control Spike
	MS	Matrix Spike
ļ	Dup	Duplicate

Report Approved By:

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Date: 10/31/05

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

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Environmental Lab of Texas

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hain of Custody Record	RONMENTAL CORP	Spring St.	Fax (432) 682-394	WIGER: NUCH 2 RESERV	CY # J.	ICE HINOJ HITILIEU MINUER OF MINUER OF	· (P) · ~ ~ (P)	10-11/10	11-16/1. J. 1.	· · · · · · · · · · · · · · · · · · ·	5.6)	· /// · · · · · · · · · · · · · · · · ·	1 ()/~)/ · / · / · · · · · · · · · · · · · ·	(/2-9			RECEIVED BY: (Signature) Date:	RECEIVED BY: (Signature) Date:	RKCEIVED BY: (Signature) Date:	RECEIVED BY: (Squature)	DATE: 9-13-05 TURE: 1600	T-Tatar A-Air 3D-Saild RRMARS: 3-8ail 2121adas 0-0ther
alysis Request and Cl	HICHLANDER ENVI	S and Professional	32) 682-4559, MIUIAIIU, 154	1 Den Vraducing SITE LA	NO: 277 PROJECT NAMEY	DATE THE SAMPLE	2/1/15 5 PH-1 (5	1, 1, K, K, K, K, I, ()	1/4/05 - SIGa Mp. 10/ 0	2)11111121/15/	1 2 1/2 100 100 100 100 100 100 100 100 100 10	1 2.112 1) 2/12/, 1	5 2.H.Z (21	1-0) 17 1 2	5/-/)/* 6	Rap BY: (Signature) Date: 4-12-5	IED BY: (Signature) Date:	IED BY: (Signature) Date:	IABORATORY: Z CAT	97MTS: ZIP: PHONE	NDTTON WHEN RECEIVED: WATTON

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PAGE: CALINEL REQUES	(Circle or Specify Meth	₹ ₹ ₹	₿ <u>н</u> Ра Вн ча 900 DCL	52 5 5 7 7 7 7	280/85 580/85 580 85 58 Cq 58 Cq 512 R0D	809 909/0 90/00000000	ьны вово сс. жа вово сс. жа аст сс. жа аст цсть аст цсть менен ьен евоо тын евоо ты											SAMPLED TY (Print & Sign)		HAND DELIVERED UPS	HIGHLANDER CONTACT PERSON:	- / KE lawerer	
ody Record	aavy	, UUNF.		ax (432) 682-3946	PRESERVATIVE	k/n} . conty	NONE ICE HIO3 HCT MOTHES (1		~	· · ·			2	j j				Date: Time:	Date: Time:	Date: Time:		TUR: 1600	beir REWARKS: Der
nd Chain of Custo	I A THING I A THING I A THING	UNVIRUNMENTAL	. Big Spring St. d. Texas 79705	F.	SITE MANAGER.	mare set # 8	Eloly Gu HIM - SAMPLE IDENTIFICATION	2.25)	(3-3.5)	(4/-4,5)	(1-0)	(212)	(5.2.2)	((1-45)	(1-0)	(1-1.5')	RECEIVED BY: (Elgnature)	RECEIVED BY: (Signature)	RECEIVED BY: (Sugnature)	RECEIVED BY: (Signature)	20-13-05	MATRUX: W-Vator A-Air 310-5 8-Soil 31-5104ge 0-01
nalysis Request an		HIGHLANDER E	1910 N. Midland	(432) 682-4559	Pogo Paduere, au	ECT NO. 277 PROJECT NAME:	I.D. DATE THE RY BER DATE THE RY Solid Science (1994)	1/4 20/00			2 ₁ /-	2//-) 2 5-	2,	2,1			United Ar. (Signature) Date: 1	UISHED BY: (Signature) Date:	UISHKD BY: (Signature) Date:	ING LABORATORY: & CST . THIN.	STATE: STATE: 1	A CONDITION WHEN RECEIVED: CONDITION WHEN RECEIVED: A O'C HOPPIS + SCOIS A O'C HOPPIS + SCOIS

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PAGE: 7 OF: 7 ANALYSIS REQUEST (Circle or Specify Method No.)	900 DXL (0	3' CPJ0L 85' CPJ0L 9500(95 9500(95 950(95 95 950(95 95 95 95 95 97 95 97 97 97 97 97 97 97 97 97 97 97 97 97	MTHE 6020/602 MTHE 602/602 MUPL FLOID MELLIN MUPL FLOID MELLIN MUP							SAMPLED BY. (Print & Sign) Date:	SAMPLE SHIPPED BY: (Circle) AIRBILL (HAND DELIVERED UPS OTHER. Results by	PUGHLARNEK CONTACT FARBOW	/ All of Marine Authorized	
Analysis Request and Chain of Custody Record	HIGHLANDER ENVIRONMENTAL CORP. 1910 N. Big Spring St. Midland, Texas 79705 Fax (432) 682-3946 Fax (432) 682-3946	CLIENT NAME: CLIEN	PROJECT NO.: PROJECT NO.: PROJECT NO.: PROJECT NAME: NOVE PROJECT NO.: PROJECT NO.:	-21 9/2 hor 5 = 2 (2.2.5')	-22 - 0/1/4 - 5 - 3 - 3 - 5 - 3 - 3 - 5 - 1 - 1	-23 a/2/ar 5 22 (cf- cf. cf. f.) 1 1 -				RELINGUISHED HY: (Signature) Date: 1/1/10 RECEIVED BY: (Signature) Date:	RELINQUINHED BY: (Signature) Date:RECEIVED BY: (Signature) Date: Time:	RELINQUISHEED BY: (Signature) Date:	RECEIVED BY: (Signature)	CATTO: STATE: ZEP: 0 CATTO: PHONE: ZEP: DATE: 9-13-05 TIME: 16-01)	SAMPLE CONDITION THEN RECEIVED: 11, W/ TRIX: W-Tator A-AIT SD-Solid REMARKS: 3, O'C la by SP SP SP SP S-Soli SL-SP SOLI SL-SP SOLI SL-SP SP S

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

Client: <u>Highlander</u>
Date/Time: 9/19/05 16:00
Order #: 51 130 14
Initials:

Sample Receipt Checklist

Temperature of container/cooler?	<u> Yes </u>	No	3,6 01
Shipping container/cooler in good condition?	1831	No	}
Custody Seals intact on shipping container/cooler?	X=5-1	No	Not present
Custody Seals intact on sample bottles?	1 Yes	No	Not present
Chain of custody present?	YES	No	
Sample Instructions complete on Chain of Custody?	YES	No_	
Chain of Custody signed when relinquished and received?	(Tes)	No	
Chain of custody agrees with sample label(s)	(Feg	No	
Container labels legible and intact?	LES	No	
Sample Matrix and properties same as on chain of custody?	123	No	
Samples in procer container/bottle?	YES	No	
Samples procerly preserved?	No I	No	[i
Sample bottles intact?	XES	No	
Preservations documented on Chain of Custody?		No	
Containers documented on Chain of Custody?		No	
Sufficient sample amount for indicated test?	1 Jan	Na	
All samples received within sufficient hold time?		No	
VOC samples have zero headspace?	YES	No	Not Applicable

Other observations:

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Contact Person: Regarding:	Variance Documentation: Date/Time:	Contacted by:	,
Corrective Action Taken:			

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