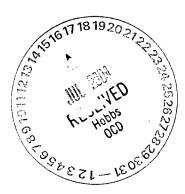


Midland, Texas

June 28, 2004

Mr. Larry Johnson Environmental Bureau New Mexico Oil Conservation Division 1625 N. French Drive P.O. Box 1980 Hobbs, New Mexico 88240



Subsurface Investigation and Work Plan for the Pogo Producing Company, E.C. Hill Re: "A, Band C" Tank Battery, Located in Section 27, Township 23 South, Range 37 East, Lea County New Mexico.

Dear Mr. Johnson:

Highlander Environmental Corp. (Highlander) has prepared a work plan for the E.C. Hill "A, B and C" Tank Battery in Lea County, New Mexico, Lea County New Mexico (Site) located in Section 27, Township 23 South, Range 37 East. The Site is shown in Figure 1. This facility is an sold battery, which has had numerous spills from previous operators. Prior to Pogo Producing Company, the tank battery was operated by Chevron and Midcontinent.

Previous Correspondence

A New Mexico Oil Conservation Division (NMOCD) response letter, dated August 14, 2003, approved the work plan with some requirements to defer the assessment work until the facility was inactive. Highlander submitted a revised work plan and responses, dated August 29, 2003, to the NMOCD in Hobbs, New Mexico. This work plan summarizes the NMOCD responses and the proposed activities to assess the soils.

Background

Under Pogo, several documented spills have occurred over older spills at the facility. The majority of the spills have occurred around production equipment and active underground lines. Several attempts have been made define the extents of the impact using a stainless steel bucket-type hand auger. A shallow, dense, caliche layer has been encountered from 6" to 1.0' below surface, which causes auger refusal. These spill areas are not accessible for equipment, such as a backhoe or drilling rig.

Initially, Pogo Producing Company had proposed to defer all inaccessible assessment and major cleanup activities until abandonment of the tank battery. Once inactive, Pogo had proposed to remove all production equipment and lines, perform an environmental assessment to vertically define the extents, and properly address the impacted soil at the facility. In November 2003, Pogo shut down all production to the tank battery and removed all tanks, vessels, equipment and lines making

1910 N. Big Spripg • Midland, Texas 79705 Al Celly - FPAC 0603838 730

incident - NPAC 06 03 83 88 49

• (432) 682-4559
• Fax (432) 682-3946

application - PPAC 0603 838937

the former tank battery location accessible to perform an assessment.

Groundwater and Regulatory

According to the New Mexico State Engineer Office W.A.T.E.R.S. database, Average Depth to Water Report, water wells are located in Section 9, 16 and 32, Township 23 South, Range 37 East, with an average depth to water of 100', 115' and 106', respectively. The well reports are shown in Appendix A. A static water level was collected from a windmill located in Section 34, Township 23 South, Range 37 East. The windmill showed a static water level of 82' below surface. Based on the water level and surface elevation, the depth of groundwater is projected to be around 95' to 100 below surface.

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 1,000 mg/kg.

SOIL ASSESSMENT

Once the facility was dismantled, the impacted soils were excavated in the areas of the tanks, vessels and lines. The soil was excavated to a depth of approximately 5.0' below surface. The excavation is shown in Figure 2. A total of 4,640 cubic yards of material was transported and disposed at Sundance Services Inc, located in Eunice, New Mexico.

Trench Installation and Results

On February 20, 2004, Highlander supervised the installation of 15 test trenches in the bottom of the excavation using a backhoe. Prior to the installation of the test trenches, the excavation was segregated into fifteen (15) areas for sampling. The trench locations are shown in Figure 2. Soil samples were collected at 2.0' foot intervals, placed into laboratory supplied containers and properly preserved during transport. Soil samples were analyzed for Total Petroleum Hydrocarbons (TPH) by method SW 846 8015B, selected samples for Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) by EPA method 602/8021B, and chloride by method SW 846 9253 in Area #1. The soil sample results are summarized in Table 1. The laboratory report and chain of custody are enclosed in Appendix B.

Referring to Table 1, areas #3, #6, # 10 and #13 were not vertically defined and showed a hydrocarbon impact to a depth of 9.0 below excavation bottom. Area #1 did not show any detectable hydrocarbon impact, however, did exhibit chloride concentrations of 2,280 mg/kg at 0-1' to 1,040 mg/kg at 9.0' below excavation bottom. Areas #4, #5 and #7 did show TPH concentrations decreasing with depth below 1,000 mg/kg at a depth of 3.0' and 5.0' below excavation bottom.

Based on the results, Highlander installed boreholes in the areas of #1, #3, #6, # 10 and #13 to attempt to define the vertical extents of soil impact.

Borehole Installation

On May 13, 2004, Highlander supervised the installation of eight (8) boreholes (BH-1 through BH-8). Boreholes were installed in the excavation in areas #1, #3, #6, # 10 and #13. Three (3) additional boreholes (BH-7, BH-8 and BH-9) were installed north of the excavation for horizontal extents. The borehole locations are shown in Figure 3.

Boreholes were installed using an air-rotary type drilling rig. Soil samples were collected at 5 and 10 foot intervals during rotary drilling operations using a split spoon sampler and core barrel sampler. During sample collection, a portion of each soil sample was placed into a clean plastic sample bag and sealed. After a short period of time at ambient temperature storage, the concentration of organic vapors in the headspace of the sample bag were measured with a Thermo Environmental Instruments, Model 580B, Organic Vapor Meter (OVM).

The splitspoon and core barrel samplers were washed between boreholes and sampling events using potable water and laboratory grade detergent. All down hole equipment (i.e., drill rods, drill bits, etc.) were thoroughly decontaminated between each use with a high-pressure hot water wash and rinse. Soil cuttings from drilling were stockpiled adjacent to the borehole. Following the completion of the drilling activities, all boreholes were grouted to surface.

Soil Analysis and Results

All of the samples were collected in laboratory supplied containers and properly preserved during transport. Soil samples from each borehole were submitted under chain-of-custody control and analyzed for Total Petroleum Hydrocarbons (TPH) by method SW 846 8015B, Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) by EPA method 602/8021B, and chloride by method SW 846 9253. The soil sample results are summarized in Table 2. The laboratory report and chain of custody are enclosed in Appendix B.

Referring to Table 2, the boreholes BH-1, BH-2, BH-3 and BH-4, installed in the bottom of the excavation, did not vertically define the hydrocarbon impact at the Site. The depths of the boreholes ranged from 30' to 80' below excavation bottom. The deepest borehole BH-2 showed increasing TPH concentrations depth and traces of BTEX at 80' below excavation bottom. BH-3 and BH-4 drilled to a total depth of 70' showed a slight TPH decrease with depth to 6,780 mg/kg (70') and 5,480 mg/kg (70'), respectively. The hydrocarbon impact in BH-5 was vertically defined with a TPH level of 432 mg/kg at 30' below excavation bottom. In addition, the chloride concentrations decreased with depth and does not appear to an environmental concern. The boreholes (BH-6, BH-7 and BH-8) were installed for additional horizontal extents to a depth of 30.0' below surface. The samples from BH-6 and BH-7 did show a hydrocarbon impact to a depth of 30' below surface. BH-8 did not showed TPH levels above 100 mg/kg.

Conclusions/Work Plan

Based on the soils assessment, the hydrocarbon impact appears to have migrated deep into the subsurface soils. Boreholes BH-1, BH-2, BH-3 and BH-4, installed in the bottom of the excavation, did not vertically define the hydrocarbon impact at the Site. The impacted soils are near groundwater depth, which is estimated at 95' to 100' below surface.



Due to the depth of the soil impact, Pogo proposes one (1) monitor well to be installed to check the groundwater qualities. Once the groundwater qualities have been evaluated, a work plan will be submitted to address the impacted subsurface soils. Based on the groundwater evaluation, additional monitor wells may be installed to further assess or define the extent of the groundwater plume.

Highlander will supervise the installation of one (1) groundwater monitoring well at the Site. The well will be installed in the excavated area. The monitor well will be drilled using air/water rotary drilling or hollow stem techniques, and constructed using two (2) inch diameter schedule 40 PVC threaded casing and factory slotted screen. The well will be constructed with approximately twenty (20) feet of well screen. The wells will be drilled to depths of approximately 115 to 120' feet below ground surface (BGS), and the well screen will be installed with about five (5) feet of screen above and fifteen (15) feet below the groundwater, to evaluate groundwater quality for light hydrocarbon compounds. The well screens will be surrounded with a graded silica sand to a depth approximately 2 feet above the screen. A layer of bentonite pellets, approximately 2-3 feet thick, will be placed in the borehole above the sand. The remainder of the borehole will be filled with cement and bentonite grout to about one (1) foot below ground. The well will be secured with locking steel protectors anchored in a concrete pad measuring approximately 3 feet by 3 feet. If more than well is installed, a land surveyor licensed in the State of New Mexico will survey the wells for location and elevation.

Following installation, the wells will be developed by bailing with a rig or hand bailer, or pumped with an electric submersible pump to remove fine grained sediment disturbed during drilling and to ensure collection of representative groundwater samples. Water removed from the wells will be placed in appropriate containers (i.e., 55-gallon drums, portable tank, etc.) and retained at the Sites until disposal is arranged. A groundwater sample will be collected following well development and analyzed for BTEX, anions, cations, and total dissolved solids (TDS). The well will be inspected for the presence of phase-separated hydrocarbons (PSH) and, if present, a sample will be collected and analyzed by gas chromatography (GC) to determine composition and origin. If PSH is detected, a groundwater sample will not be collected from that well. All samples will be delivered to the laboratory under chain of custody control.

Upon receipt of analytical data from the laboratory, Highlander will prepare a report/work plan that discusses the field investigations and remedial activities for the Site. Please call me at (432) 682-4559 if you have questions.

Respectfully submitted, Highlander Environmental Corp.

Ike Tavarez by rup

Project Manager/Geologist

cc:

Rex Jasper - Pogo Don Riggs - Pogo

Sent: Mon 12/5/2005 8:12 AM

Johnson, Larry, EMNRD

From:

Ike T [itavarez@hec-enviro.com]

To:

Johnson, Larry, EMNRD

Cc:

Pat Ellis

Subject:

Notification - Soil Capping of the Pogo, E.C. Hill Tank Battery

Attachments:

Pogo Producing Company (Arch Petroleum)

E.C. Hill A and B Tank Battery

Section 27, T23S, R37E

Lea County, New Mexico

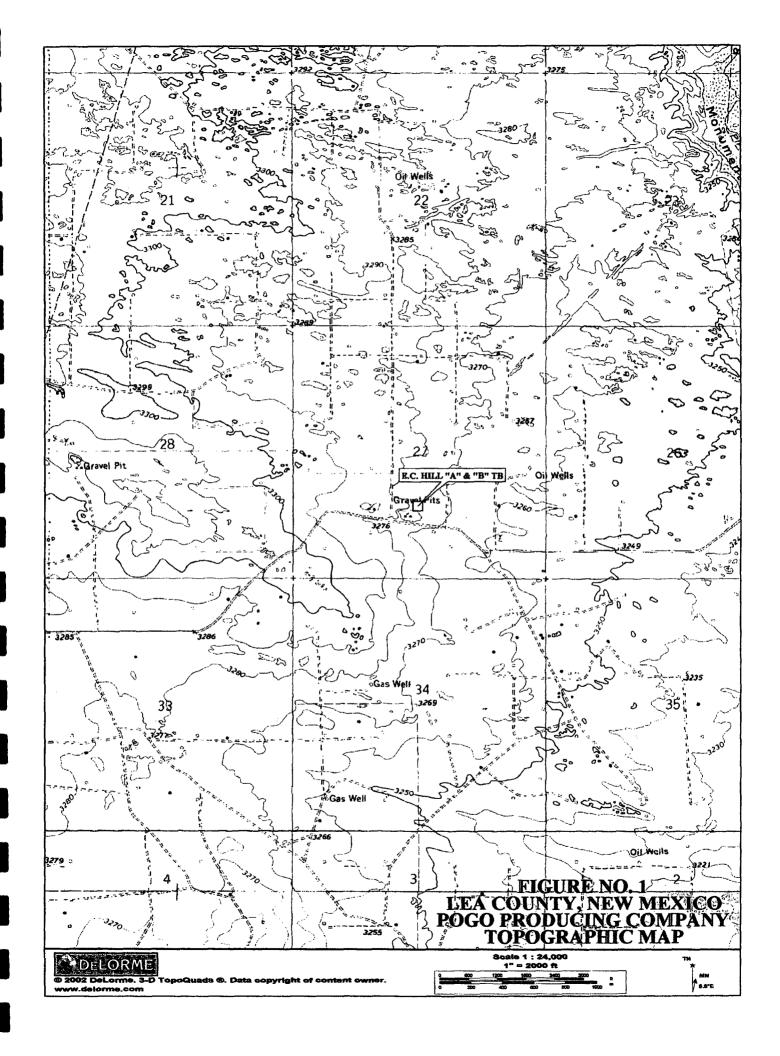
We are scheduled to cap the Site on Wednesday (12/7/05). As approved by NMOCD in Santa Fe, NM, the Site has been prepared for the installation of a 40 mil liner (cap). Once the cap is installed, the excavation will be backfilled with clean fill material to grade. If you need additional information please call me, Thanks.

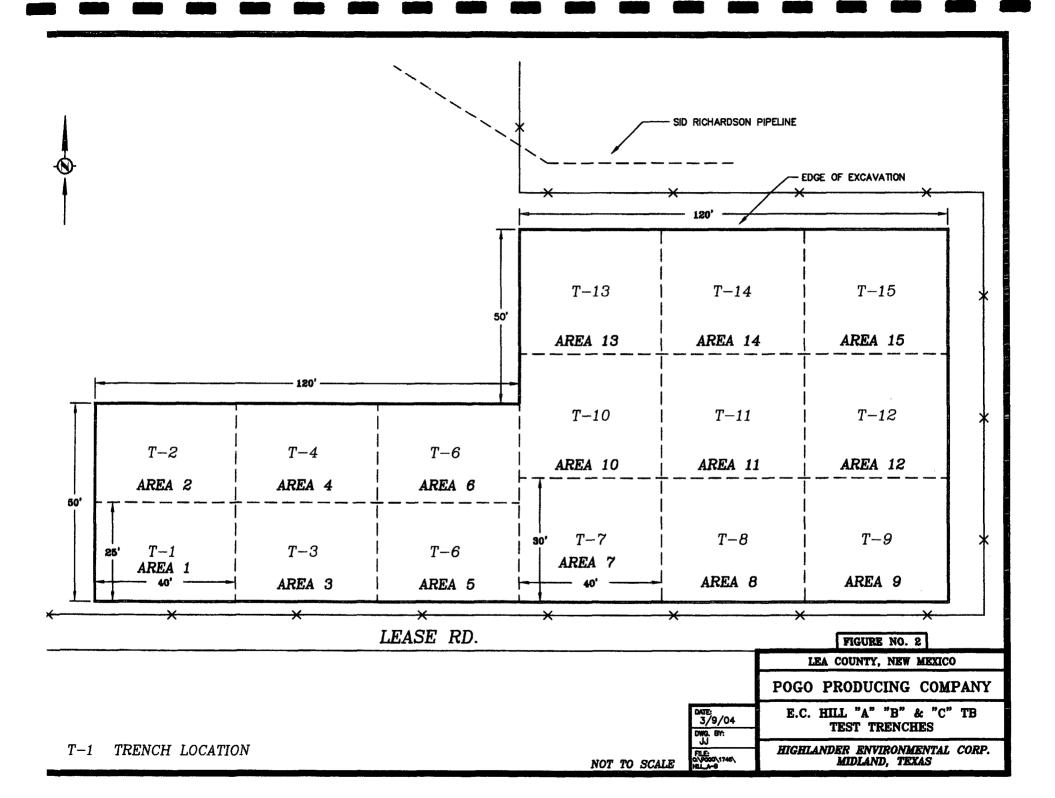
Highlander Environmental Corp.

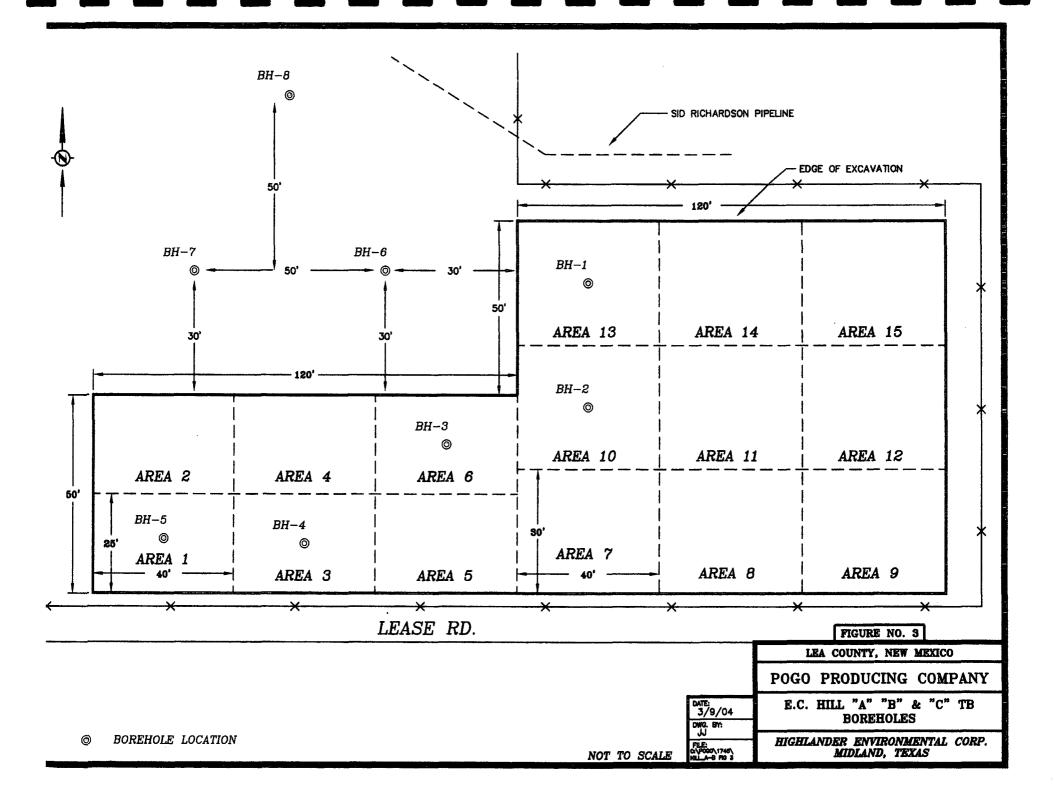
Ike Tavarez, PG

Senior Geologist

FIGURES







TABLES

TABLE NO. 1

Pogo Producing Company E.C. Hill A & B TANK BATTERY Lea County, New Mexico

ANALYTICAL DATA

O&G/1746/Table 1

Sample	Sample	Sample	,	ΓΡΗ (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Chloride
Date	ID	Depth (ft)	C6-C-12	C12-C35	Total	(mg/kg)	(mg/kg)	(mg/kg	(mg/kg)	(mg/kg)
2/20/2004	T-1	0'-1'	<10.0	19.9	19.9	-	-	-	-	2280
	T-1	3.0'	-	-	-	-	-	-	-	2550
	T-1	7.0'	-	-	,	-	-	-	-	2020
	T-1	9.0'	-	-	-	-	-	-	•	1040
2/20/2004	T-2	0'-1'	<10.0	17.1	17.1	-	-	-	-	71
2/20/2004	T-3	0'-1'	356	1,730	2,090	-	_	-	-	142
	T-3	3.0'	2,570	7,470	10,000	•	-	-		-
	T-3	5.0'	1,500	4,090	5,600	-	-	-	-	-
	T-3	7.0'	1,540	3,770	5,310	-	-	-	-	-
	T-3	9.0'	1,520	3,970	5,490	-	-	-	-	-
2/20/2004	T-4	0'-1'	201	3480	3860	-	-	-	-	142
	T-4	3.0'	<10.0	80.9	80.9		-	-	-	-
2/20/2004	T-5	0'-1'	249	2,010	2,260		-		-	298
	T-5	3.0'	<10.0	10.4	10.4		-	-	-	-
2/20/2004	T-6	0'-1'	1,540	8,410	9,950	0.569	0.271	1.91	6.27	404
	T-6	3.0'	1,430	8,150	9,580	-	-	-	•	-
	T-6	5.0'	1,800	8,830	10,600	-	-	-	-	-
	T-6	7.0'	916	4,070	4,980	-	-	-	-	-
	T-6	9.0'	1,350	6,000	7,350	-	-	-	-	-
								_		
2/20/2004	T-7	0'-1'	148	4,430	4,580	-	-	-	-	383
	T-7	3.0'	85.2_	3,860	3,950	-	-	-	-	-
	T-7	5.0'	<10.0	779	779	-	-	-	-	-
2/20/2004	T-8	0'-1'	<10.0	16.8	16.8	-	-	•	-	99

TABLE NO. 1

Pogo Producing Company E.C. Hill A & B TANK BATTERY Lea County, New Mexico

ANALYTICAL DATA

0&G/1746/Table 1

Sample	Sample	Sample		ΓΡΗ (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Chloride
Date	ID	Depth (ft)	C6-C-12	C12-C35	Total	(mg/kg)	(mg/kg)	(mg/kg	(mg/kg)	(mg/kg)
2/20/2004	T-9	0'-1'	<10.0	<10.0	<10.0	•	•	-	•	234
2/20/2004										356
2/20/2004	T-10	0'-1'	1,180	3,500	4,680	0.173	0.635	2.28	7.39	276
	T-10	3.0'	1,390	4,060	5,450	-		-	_	-
	T-10	5.0'	2,150	6,880	9,030	-	-	-	-	<u>-</u>
	T-10	7.0'	943	3,410	4,350	-	-	-	•	-
	T-10	9.0'	795	3,080	3,880	-	-	-		-
2/20/2004	77. 1.1			100				<u> </u>		140
2/20/2004	T-11	0'-1'	<10.0	<10.0	<10.0	-			<u>-</u>	142
2/20/2004	T-12	0'-1'	<10.0	11.1	11.1	-	-	-	-	99
2/20/2004	T 10		1.170		((00			105	2.20	
2/20/2004	T-13	0'-1'	1,170	5,520	6,690	0.285	0.607	1.35	3.28	213
	T-13	3.0'	1,320	5,030	6,350	-	-	-	-	-
	T-13	5.0'	1,850	6,290	8,140	-		-	-	-
	T-13	7.0'	1,410	4,440	5,850	-	-	-	-	-
	T-13	9.0'	1,740	4,880	6,620	-	_	-		-
2/20/2004		ļ	100							
2/20/2004	T-14	0'-1'	<10.0	84.3	84.3	-	-	-	596	
2/20/2004	T-15	0'-1'	<10.0	36.8	36.8	-	-	-	574	

(-) = Not Analyzed

T = Trench

Sample Depth = below excavation bottom

Table 2
Pogo Producing Company
E. C. Hill A&B Tank Battery
Lea County, New Mexico

Date	Sample	Depth	OVM		TPH (mg/kg)		Benzene	Toluene	Ethylbenzene	Xylene	Chloride
Sampled	ID	(ft)	(ppm)	C6-C12	C12-C35	Total	(mg/kg)**	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
5/13/2004	BH-1 (T-13)	5-6	270	-	-	-	-	-	_	_	•
5/13/2004		10-11	439	-	-	-	-	-	-	•	-
5/13/2004		15-16	606	1,100	3,490	4,590	-	-	-	_	-
5/13/2004		20-21	658	-		-	-	-	-	-	-
5/13/2004		25-26	613	-	-	-	•	-	-	-	-
5/13/2004		30-31	902	872	3,420	4,290	-	•	-	-	-
5/13/2004		35-36	897		-			-	-	•	-
5/13/2004		40-41	942	-	-	-	-	•	-	-	_
5/13/2004		45-46	728	_	-	-	-	-	•	-	-
5/13/2004		50-51	925	7,730	14,100	21,800	5.1	20.8	15.7	48.1	
				· · · · · · · · · · · · · · · · · · ·							
5/13/2004	BH-2 (T-10)	5-6	142		-		-	-	- ·	-	-
5/13/2004		10-11	167	-	-	-	-		-	-	_
5/13/2004		15-16	320	432	2,230	2,660	-	-	-	-	•
5/13/2004		20-21	447	-	-	•	-		-	-	-
5/13/2004		30-31	618	516	1,560	2,080	-	-	-	-	-
5/13/2004		40-41	847	-	-	**	-	-	-	-	-
5/13/2004		50-51	861	779	2,440	3,220	-	•	_	T -	-
5/13/2004		60-61	147	•	-	-	-	•	_	-	-
5/13/2004		70-71	725	-	-	•	-	•	_	-	-
5/13/2004		80-81	405	1,670	4,770	6,440	0.157	0.227	1.307	1.367	-

^(-) Not Analyzed

Table 2
Pogo Producing Company
E. C. Hill A&B Tank Battery
Borehole Installation
Lea County, New Mexico

Date	Sample	Depth	OVM)	PH (mg/kg)	Benzene	Toluene	Ethylbenzene	Xylene	Chloride
Sampled	ID	(ft)	(ppm)	C6-C12	C12-C35	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
5/14/2004	BH-3 (T-6)	5-6	260	-	-	-	-	-	u-	•	-
5/14/2004		10-11	541	-	-	-	-	-	-	-	
5/14/2004		15-16	720	2,020	7,250	9,270	-	•	_	-	-
5/14/2004		20-21	836	-	-	-	-	-	-	-	-
5/14/2004		30-31	561	623	3,140	3,760	-	•	-	-	-
5/14/2004		40-41	1022	-	-	•	-	-	•	-	•
5/14/2004		50-51	450	1,010	5,290	6,300	-	•	•	-	
5/14/2004		60-61	567	-	-	-	-	-	-	-	-
5/14/2004		70-71	554	1,280	5,500	6,780	0.110	1.05	1.54	6.77	-
5/14/2004	BH-4 (T-3)	5-6	1800	-	_	-	-	-	•	-	-
5/14/2004		10-11	1811	-	-	-	-	-	-		_
5/14/2004		15-16	2100	2,710	5,460	8,170	1.94	22.50	23.20	62.80	-
5/14/2004		20-21	1941	-	-	-	-	-	-	-	_
5/14/2004		30-31	2131	1,490	3,340	4,830	-	•	•	•	-
5/14/2004		50-51	1395		-	-	-	-	-	-	-
5/14/2004		70-71	960	1,090	4,390	5,480	•		-	•	
5/14/2004	BH-5 (T-1)	10-11	400	644	2,800	3,440	-	-	<u> </u>	_	2,760
5/14/2004		15-16	200	586	3,020	3,610	< 0.025	0.0616	0.0705	0.4776	744
5/14/2004		20-21	340	-	-	<u>-</u>	•	-	-	-	723
5/14/2004		30-31	39	36.8	386	423	-		•	•	304

^(-) Not Analyzed

Table 2
Pogo Producing Company
E. C. Hill A&B Tank Battery
Borehole Installation
Lea County, New Mexico

Date	Sample	Depth	OVM	To a second	PH (mg/kg)	Benzene	Toluene	Ethylbenzene	Xylene	Chloride
Sampled	ID	(ft)	(ppm)	C6-C12	C12-C35	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
5/14/2004	BH-6	5-6	500	1,610	4,420	6,030	-	•	•	•	-
5/14/2004		10-11	962	1,870	3,490	5,360	-	-	-	-	-
5/14/2004		20-21	1081	-	-	•	-	-	_	-	-
5/14/2004		30-31	1131	3,220	6,770	9,990	0.0386	5.09	5.32	20.6	-
5/17/2004	BH-7	5-6	5	<10.0	2,070	2,070	_	-	_	-	-
5/17/2004		10-11	390	521	1,760	2,280		•	-	•	•
5/17/2004		20-21	659	-	-	_	-	-	4	•	-
5/17/2004		30-31	556	843	2,530	3,370	<0.025	0.194	0.116	3.33	•
5/17/2004	BH-8	5-6	2	<10.0	42.5	42.5	_	-	<u>-</u>		-
5/17/2004		10-11	2	<10.0	<10.0	<10.0	-		-	-	-
5/17/2004		20-21	1	•	-	-	-	_	-	•	-
5/17/2004		30-31	1	-	-	-	-	-	-	-	-

(-) Not Analyzed

APPENDIX A

Well Report

New Mexico Office of the State Engineer Well Reports and Downloads

Towr	nship: 23S	Range: 37E	Sections:		
NAD27	X:	Y:	Zone:	Search F	Radius:
County:	5413 B	asin:	jet N Nobel	Number:	Suffix:
Owner Name: (l	First)	(La	st) • All	○Non-D	Oomestic O Domestic
	Well / Surl	face Data Report Wate	er Column Repo		Report

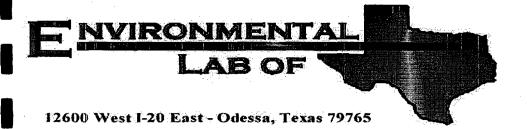
AVERAGE DEPTH OF WATER REPORT 06/28/2004

							(Depth	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	X	Y	Wells	Min	Max	Avg
CP	23S	37E 09				1	100	100	100
CP	23S	37E 16				1	115	115	115
CP	23\$	37E 32				1	106	106	106

Record Count: 3

APPENDIX B

Analytical Report



Analytical Report

Prepared for:

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

Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746 Location: Lea Co. NM

Lab Order Number: 4E21002

Report Date: 05/27/04

1910 N. Big Spring St. Midland TX, 79705

Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 05/27/04 11:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 (15-16')	4E21002-02	Soil	05/13/04 00:00	05/20/04 17:20
BH-1 (30-31')	4E21002-05	Soil	05/13/04 00:00	05/20/04 17:20
BH-1 (50-51')	4E21002-09	Soil	05/13/04 00:00	05/20/04 17:20
BH-2 (15-16')	4E21002-11	Soil	05/13/04 00:00	05/20/04 17:20
BH-2 (30-31')	4E21002-13	Soil	05/13/04 00:00	05/20/04 17:20
BH-2 (50-51')	4E21002-15	Soil	05/13/04 00:00	05/20/04 17:20
BH-2 (80-81')	4E21002-18	Soil	05/13/04 00:00	05/20/04 17:20
BH-3 (15-16')	4E21002-19	Soil	05/14/04 00:00	05/20/04 17:20
BH-3 (30-31')	4E21002-21	Soil	05/14/04 00:00	05/20/04 17:20
BH-3 (50-51')	4E21002-23	Soil	05/14/04 00:00	05/20/04 17:20
BH-3 (70-71')	4E21002-25	Soil	05/14/04 00:00	05/20/04 17:20
BH-4 (15-16')	4E21002-26	Soil	05/14/04 00:00	05/20/04 17:20
BH-4 (30-31')	4E21002-28	Soil	05/14/04 00:00	05/20/04 17:20
BH-4 (70-71')	4E21002-30	Soil	05/14/04 00:00	05/20/04 17:20
BH-5 (10-11')	4E21002-31	Soil	05/14/04 00:00	05/20/04 17:20
BH-5 (15-16')	4E21002-32	Soil	05/14/04 00:00	05/20/04 17:20
BH-5 (20-21')	4E21002-33	Soil	05/14/04 00:00	05/20/04 17:20
BH-5 (30-31')	4E21002-34	Soil	05/14/04 00:00	05/20/04 17:20
BH-6 (5-6')	4E21002-35	Soil	05/14/04 00:00	05/20/04 17:20
BH-6 (10-11')	4E21002-36	Soil	05/14/04 00:00	05/20/04 17:20
BH-6 (30-31')	4E21002-38	Soil	05/14/04 00:00	05/20/04 17:20
BH-7 (5-6')	4E21002-39	Soil	05/17/04 00:00	05/20/04 17:20
BH-7 (10-11')	4E21002-40	Soil	05/17/04 00:00	05/20/04 17:20
BH-7 (30-31')	4E21002-42	Soil	05/17/04 00:00	05/20/04 17:20
BH-8 (5-6')	4E21002-43	Soil	05/17/04 00:00	05/20/04 17:20
BH-8 (10-11')	4E21002-44	Soil	05/17/04 00:00	05/20/04 17:20

1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 05/27/04 11:42

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (15-16') (4E21002-02) Soil									
Gasoline Range Organics C6-C12	1100	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	3490	10.0	**	"	н	n	"	п	
Total Hydrocarbon C6-C35	4590	10.0	11	n	Ħ	Ħ	n	Ħ	
Surrogate: 1-Chlorooctane	****	111 %	70-1	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		115 %	70-1	130	"	"	"	"	
BH-1 (30-31') (4E21002-05) Soil									
Gasoline Range Organics C6-C12	872	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	3420	10.0	**	11	n	n	n	H	
Total Hydrocarbon C6-C35	4290	10.0	Ħ	*	n	11	Ħ	"	
Surrogate: 1-Chlorooctane		112 %	70-1	130	"	".	n	**	,
Surrogate: 1-Chlorooctadecane		119 %	70-1	130	n	"	"	"	
BH-1 (50-51') (4E21002-09) Soil									
Benzene	5.14	0.0250	mg/kg dry	25	EE42701	05/25/04	05/26/04	EPA 8021B	
Toluene	20.8	0.0250	n	n	17	#	n	e e	
Ethylbenzene	15.7	0.0250	n	н	*	n	"	**	
Xylene (p/m)	31.2	0.0250	**	"		**	**	**	
Xylene (o)	16.9	0.0250	**	99	"	"	**	н	
Surrogate: a,a,a-Trifluorotoluene		1150 %	80-	120	n	"	"	н	S-04
Surrogate: 4-Bromofluorobenzene		85.5 %	80-1	120	"	"	"	<i>"</i>	
Gasoline Range Organics C6-C12	7730	50.0	mg/kg dry	5	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	14100	50.0	**	11	"	H	n	n	
Total Hydrocarbon C6-C35	21800	50.0	•	n	"	**	11	n	
Surrogate: 1-Chlorooctane		25.2 %	70-	130	"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		38.4 %	70-1	130	"	"	"	"	S-06

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Quality Assurance Review

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1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 05/27/04 11:42

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
BH-2 (15-16') (4E21002-11) Soil	<u></u>								
Gasoline Range Organics C6-C12	432	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	2230	10.0	11	.	n	**	"	Ħ	
Total Hydrocarbon C6-C35	2660	10.0	n	17		11	u	н	
Surrogate: 1-Chlorooctane	-	91.4 %	70-1	30	"	"	"	,,	
Surrogate: 1-Chlorooctadecane		109 %	70-1	30	"	"	"	"	
BH-2 (30-31') (4E21002-13) Soil									
Gasoline Range Organics C6-C12	516	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	1560	10.0	н	**	n	11	*	**	
Total Hydrocarbon C6-C35	2080	10.0	н	"	n	**	"	n	
Surrogate: 1-Chlorooctane		125 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		113 %	70-1	30	"	**	"	"	
BH-2 (50-51') (4E21002-15) Soil									
Gasoline Range Organics C6-C12	779	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	2440	10.0	u	n	w	n	n	Ħ	
Total Hydrocarbon C6-C35	3220	10.0	н	**	n	n	19	n	
Surrogate: 1-Chlorooctane		112 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		123 %	70-1	30	"	**	"	n	
BH-2 (80-81') (4E21002-18) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE42701	05/25/04	05/26/04	EPA 8021B	
Toluene	0.157	0.0250	H	"	11	11	11	**	
Ethylbenzene	0.227	0.0250	n	n	n	н	"	*	
Xylene (p/m)	0.822	0.0250	n	*	**	Ħ	*	*	
Xylene (o)	0.485	0.0250	"	н	*	н	**	Ħ	
Surrogate: a,a,a-Trifluorotoluene	· · · · · · · · · · · · · · · · · · ·	97.5 %	80-1	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		99.4 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	1670	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	4770	10.0	D	**		**	11	**	
Total Hydrocarbon C6-C35	6440	10.0	**	n	*	11	**	"	
Surrogate: 1-Chlorooctane		125 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		126 %	70-1	130	"	"	"	"	

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Quality Assurance Review

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

Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported:
05/27/04 11:42

Organics by GC Environmental Lab of Texas

		LIMVITORI	nomen r	140 OI 1	UAMB				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
BH-3 (15-16') (4E21002-19) Soil									
Gasoline Range Organics C6-C12	2020	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	7250	10.0	n	n	n	n	•	· #	
Total Hydrocarbon C6-C35	9270	10.0	."	*	n	11	n	n	
Surrogate: 1-Chlorooctane		120 %	70-	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		126 %	70-	130	"	"	"	"	
BH-3 (30-31') (4E21002-21) Soil									
Gasoline Range Organics C6-C12	623	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	3140	10.0	*	n	**	11	н	"	
Total Hydrocarbon C6-C35	3760	10.0	11	*		11	n	11	
Surrogate: 1-Chlorooctane		112 %	70	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		128 %	70-	130	"	'n	"	"	
BH-3 (50-51') (4E21002-23) Soil									
Gasoline Range Organics C6-C12	1010	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	5290	10.0	10	n	н	n	**	п	
Total Hydrocarbon C6-C35	6300	10.0	"	**	"	II .	H	· ·	
Surrogate: 1-Chlorooctane		127 %	70-	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		126 %	70-	130	"	"	"	"	
BH-3 (70-71') (4E21002-25) Soil									
Benzene	0.110	0.0250	mg/kg dry	25	EE42701	05/25/04	05/26/04	EPA 8021B	
Toluene	1.05	0.0250	n	n	11	n	11	н	
Ethylbenzene	1.54	0.0250	"	**	•	H	**	н	
Xylene (p/m)	4.38	0.0250		Ħ	"	**	"	*	
Xylene (o)	2.39	0.0250	**	n	н	**	**	n	
Surrogate: a,a,a-Trifluorotoluene		153 %	80-	120	"	"	"	"	S-0
Surrogate: 4-Bromofluorobenzene		111 %	80-	120	"	"	"	"	
Gasoline Range Organics C6-C12	1280	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	5500	10.0	**	Ħ	•	"	"	n	
Total Hydrocarbon C6-C35	6780	10.0	11	**	11	11	n	Ħ	
Surrogate: 1-Chlorooctane		100 %	70-	130	"	"	"	"	
Commenter 1 Children 1		125.0/	70	120					

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Surrogate: 1-Chlorooctadecane

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Quality Assurance Review

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70-130

125 %

Project: Pogo/ E.C. Hill A & B TB

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Project Number: 1746
Project Manager: Ike Tavarez

Reported: 05/27/04 11:42

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-4 (15-16') (4E21002-26) Soil	· · · · · · · · · · · · · · · · · · ·								
Benzene	1.94	0.100	mg/kg dry	100	EE42701	05/25/04	05/26/04	EPA 8021B	
Toluene	22.5	0.100	*	11	**	*	"	**	
Ethylbenzene	23.2	0.100	**	"	•	"		n	
Xylene (p/m)	46.2	0.100	11	**	**	**	н	**	
Xylene (o)	16.6	0.100	n	**			**	"	
Surrogate: a,a,a-Trifluorotoluene		362 %	80-1	20	"	"	"	n	S-04
Surrogate: 4-Bromofluorobenzene		95.1 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	2710	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	5460	10.0	"	**	н	п	н	н	
Total Hydrocarbon C6-C35	8170	10.0	11	•	n	n	u	Ħ	
Surrogate: 1-Chlorooctane		139 %	70-1	30	"	"	"	n n	S-06
Surrogate: 1-Chlorooctadecane		152 %	70-1	30	"	"	"	n	S-06
BH-4 (30-31') (4E21002-28) Soil									
Gasoline Range Organics C6-C12	1490	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	3340	10.0	**	n	**	*	n	**	
Total Hydrocarbon C6-C35	4830	10.0	**	**	**	H	**	*	
Surrogate: 1-Chlorooctane		110 %	70-1	30	"	"	"	n	
Surrogate: 1-Chlorooctadecane		128 %	70-1	30	n	"	"	ø.	
BH-4 (70-71') (4E21002-30) Soil									
Gasoline Range Organics C6-C12	1090	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	4390	10.0	*	•	n	н	n	H	
Total Hydrocarbon C6-C35	5480	10.0	н	**	**	н	"	H	
Surrogate: 1-Chlorooctane		125 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		127 %	70-1	30	"	,,	,,	"	

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1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 05/27/04 11:42

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Note
BH-5 (10-11') (4E21002-31) Soil					·				
Gasoline Range Organics C6-C12	644	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	2800	10.0	**		11	Ħ	n	u	
Total Hydrocarbon C6-C35	3440	10.0	11	u	"	11	n	•	
Surrogate: 1-Chlorooctane	···	116 %	70-	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		125 %	7 0 -	130	n	"	"	n	
BH-5 (15-16') (4E21002-32) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE42701	05/25/04	05/26/04	EPA 8021B	
Toluene	0.0616	0.0250		"	"	*	**	*	
Ethylbenzene	0.0705	0.0250	**		*		"	n	
Xylene (p/m)	0.397	0.0250	н		**		**	н	
Xylene (o)	0.0806	0.0250	**	11	"	*	"	H	
Surrogate: a,a,a-Trifluorotoluene		101 %	80	120	"	n	11	"	
Surrogate: 4-Bromofluorobenzene		114 %	80-	120	"	n	"	"	
Gasoline Range Organics C6-C12	586	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	3020	10.0	**	11	H	n	,,	"	
Total Hydrocarbon C6-C35	3610	10.0	**	N	H	17	н	"	
Surrogate: 1-Chlorooctane	·	122 %	70-	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		124 %	70-	130	"	"	"	n	
BH-5 (30-31') (4E21002-34) Soil								•	
Gasoline Range Organics C6-C12	36.8	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	386	10.0		11	11	n	Ħ	n	
Total Hydrocarbon C6-C35	423	10.0	"		ı	**	**	#	
Surrogate: 1-Chlorooctane		88.6 %	70-	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		92.8 %	7 0	130	"	"	"	"	

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Highlander Environmental Corp. 1910 N. Big Spring St.

Project: Pogo/ E.C. Hill A & B TB

Fax: (432) 682-3946

Midland TX, 79705

Project Number: 1746
Project Manager: Ike Tavarez

Reported: 05/27/04 11:42

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-6 (5-6') (4E21002-35) Soil								· · · · · · · · · · · · · · · · · · ·	
Gasoline Range Organics C6-C12	1610	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	4420	10.0	н	"	н	n	н	•	
Total Hydrocarbon C6-C35	6030	10.0	H	"	11	n	н	11	
Surrogate: 1-Chlorooctane		95.8 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		123 %	70-1	30	"	"	"	**	
BH-6 (10-11') (4E21002-36) Soil									
Gasoline Range Organics C6-C12	1870	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	3490	10.0	Ħ	**	*	**	**	q	
Total Hydrocarbon C6-C35	5360	10.0	Ħ	n	"	"	"	11	
Surrogate: 1-Chlorooctane		112 %	70-1	30	"	"	,,	н	
Surrogate: 1-Chlorooctadecane		121 %	70-1	30	"	"	"	"	
BH-6 (30-31') (4E21002-38) Soil									
Benzene	0.386	0.0250	mg/kg dry	25	EE42701	05/25/04	05/26/04	EPA 8021B	
Toluene	5.09	0.0250	17	11	н	11	**	n	
Ethylbenzene	5.32	0.0250	**	"	n	*	n	"	
Xylene (p/m)	13.5	0.0250	**	"		н	**	•	
Xylene (o)	7.10	0.0250	"	17	n	Ħ	. н	*	
Surrogate: a,a,a-Trifluorotoluene		362 %	80-1	120	"	11	"	"	S-04
Surrogate: 4-Bromofluorobenzene		92.0 %	80-1	20	"	"	"	*	
Gasoline Range Organics C6-C12	3220	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	6770	10.0	**	"	"	н	11	•	
Total Hydrocarbon C6-C35	9990	10.0	**	**	•	11	n	"	
Surrogate: 1-Chlorooctane		114 %	70-1	130	n	"	"	"	
Surrogate: 1-Chlorooctadecane		125 %	70-1	130	"	"	"	,,	

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1910 N. Big Spring St. Midland TX, 79705

Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 05/27/04 11:42

Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
BH-7 (5-6') (4E21002-39) Soil									
Gasoline Range Organics C6-C12	J [9.53]	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	2070	10.0	*	n	*	n	**	*	
Total Hydrocarbon C6-C35	2070	10.0	"	n	0	н	Ħ	•	
Surrogate: 1-Chlorooctane		99.0 %	70-1	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		108 %	70-1	130	"	"	"	"	
BH-7 (10-11') (4E21002-40) Soil									
Gasoline Range Organics C6-C12	521	10.0	mg/kg dry	ı	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	1760	10.0	n	**	**	**	н	n	
Total Hydrocarbon C6-C35	2280	10.0	11	"	n	n	Ħ	н	
Surrogate: 1-Chlorooctane		126 %	70-1	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		116 %	70-1	130	"	"	"	n	
BH-7 (30-31') (4E21002-42) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE42701	05/25/04	05/26/04	EPA 8021B	
Toluene	0.194	0.0250	•	"	"	**	n	"	
Ethylbenzene	0.116	0.0250	н	"		**	"		
Xylene (p/m)	2.32	0.0250	n	н	*	"	n	**	
Xylene (o)	1.01	0.0250	n	**		**	Ħ	H	
Surrogate: a,a,a-Trifluorotoluene		107 %	80-1	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	80-1	120	"	"	"	"	
Gasoline Range Organics C6-C12	843	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	2530	10.0	#	**	"	n	n	н	
Total Hydrocarbon C6-C35	3370	10.0	**	17	"	**	**	*	
Surrogate: 1-Chlorooctane		121 %	70-1	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		128 %	70-1	130	Ħ	"	"	"	

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Quality Assurance Review

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1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 05/27/04 11:42

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
BH-8 (5-6') (4E21002-43) Soil						· · · · · · · · · · · · · · · · · · ·			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	42.5	10.0	n	н	**	**	n	16	
Total Hydrocarbon C6-C35	42.5	10.0	n	н	**	n	H	**	
Surrogate: 1-Chlorooctane		93.2 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		99.2 %	70-1	30	"	"	"	<i>n</i>	
BH-8 (10-11') (4E21002-44) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	n	11	n	n	11	n	
Total Hydrocarbon C6-C35	ND	10.0	n	н	н	**	•	**	
Surrogate: 1-Chlorooctane		96.0 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		100 %	70-1	30	"	"	"	n	

Environmental Lab of Texas

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Quality Assurance Review

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1910 N. Big Spring St. Midland TX, 79705

Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746 Project Manager: Ike Tavarez Fax: (432) 682-3946 Reported:

05/27/04 11:42

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

Analyte	Result	Reporting Limit	Units	D.1				> 4 .1 .1	NY .
BH-1 (15-16') (4E21002-02) Soil		Lint	Omis	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.0		%	I	EE42402	05/21/04	05/21/04	% calculation	
BH-1 (30-31') (4E21002-05) Soil									
% Solids	96.0		%	1	EE42402	05/21/04	05/21/04	% calculation	<u> </u>
BH-1 (50-51') (4E21002-09) Soil									
% Solids	89.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-2 (15-16') (4E21002-11) Soil									
% Solids	94.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-2 (30-31') (4E21002-13) Soil									
% Solids	96.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-2 (50-51') (4E21002-15) Soil									
% Solids	93.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-2 (80-81') (4E21002-18) Soil									
% Solids	93.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-3 (15-16') (4E21002-19) Soil									
% Solids	93.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-3 (30-31') (4E21002-21) Soil						,			
% Solids	92.0		%	1	EE42402	05/21/04	05/21/04	% calculation	

Environmental Lab of Texas

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Quality Assurance Review

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Project: Pogo/ E.C. Hill A & B TB

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Project Number: 1746
Project Manager: Ike Tavarez

Reported: 05/27/04 11:42

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-3 (50-51') (4E21002-23) Soil	100011		-	Dilution	Daten	Frepared	Allalyzed	Memod	Notes
% Solids	92.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-3 (70-71') (4E21002-25) Soil									
% Solids	95.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-4 (15-16') (4E21002-26) Soil									
% Solids	92.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-4 (30-31') (4E21002-28) Soil									
% Solids	96.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-4 (70-71') (4E21002-30) Soil									
% Solids	96.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-5 (10-11') (4E21002-31) Soil									
Chloride	2760	20.0 n	ng/kg Wet	2	EE42405	05/21/04	05/22/04	SW 846 9253	
% Solids	92.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-5 (15-16') (4E21002-32) Soil								*	
Chloride	744	20.0 n	ng/kg Wet	2	EE42405	05/21/04	05/22/04	SW 846 9253	
% Solids	95.0		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-5 (20-21') (4E21002-33) Soil									
Chloride	723	20.0 m	ng/kg Wet	2	EE42405	05/21/04	05/22/04	SW 846 9253	

Environmental Lab of Texas

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Quality Assurance Review

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1910 N. Big Spring St. Midland TX, 79705

Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 05/27/04 11:42

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

Analyte	Result	Reporting Limit Un	its Dilutio	n Batch	Drawarad	Analyzed	Method	Notes
BH-5 (30-31') (4E21002-34) Soil		- Dime Of	- Dituto	n Batch	Prepared	Analyzed	Method	Notes
Chloride	304	20.0 mg/kg	Wet 2	EE42405	05/21/04	05/22/04	SW 846 9253	
% Solids	96.0	9		EE42402	05/21/04	05/21/04	% calculation	
BH-6 (5-6') (4E21002-35) Soil								
% Solids	94.0	9/	6 1	EE42402	05/21/04	05/21/04	% calculation	
BH-6 (10-11') (4E21002-36) Soil								
% Solids	93.0	9	6 I	EE42402	05/21/04	05/21/04	% calculation	
BH-6 (30-31') (4E21002-38) Soil								
% Solids	98.0	9/	6 <u>1</u>	EE42402	05/21/04	05/21/04	% calculation	
BH-7 (5-6') (4E21002-39) Soil								
% Solids	93.0	9	6 1	EE42402	05/21/04	05/21/04	% calculation	
BH-7 (10-11') (4E21002-40) Soil								
% Solids	94.0	9	6 1	EE42402	05/21/04	05/21/04	% calculation	
BH-7 (30-31') (4E21002-42) Soil								
% Solids	97.0	9,	6 1	EE42402	05/21/04	05/21/04	% calculation	
BH-8 (5-6') (4E21002-43) Soil								
% Solids	90.0	9	6 1	EE42402	05/21/04	05/21/04	% calculation	
BH-8 (10-11') (4E21002-44) Soil								
% Solids	94.0	9	6 1	EE42402	05/21/04	05/21/04	% calculation	

Environmental Lab of Texas

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Quality Assurance Review

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1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 05/27/04 11:42

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 EE42101 - Solvent Extracti	on (GC)									
Blank (EE42101-BLK1)				Prepared:	05/21/04	Analyzed	1: 05/22/04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							·
Diesel Range Organics >C12-C35	ND	10.0	n							
Total Hydrocarbon C6-C35	ND	10.0	n							
Surrogate: 1-Chlorooctane	36.2		mg/kg	50.0		72.4	70-130			
Surrogate: 1-Chlorooctadecane	40.0		"	50.0		80.0	70-1 30			
Blank (EE42101-BLK2)				Prepared:	05/21/04	Analyzed	1: 05/22/04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet			·····				
Diesel Range Organics >C12-C35	ND	10.0	H							
Total Hydrocarbon C6-C35	ND	10.0	*							
Surrogate: I-Chlorooctane	38.6	 -	mg/kg	50.0		77.2	70-130			
Surrogate: 1-Chlorooctadecane	37.8		"	50.0		75.6	70-130			
LCS (EE42101-BS1)				Prepared:	05/21/04	Analyzed	1: 05/22/04			
Gasoline Range Organics C6-C12	408	10.0	mg/kg wet	500		81.6	75-125		, ,-	
Diesel Range Organics >C12-C35	482	10.0	n	500		96.4	75-125			
Total Hydrocarbon C6-C35	890	10.0	11	1000		89.0	75-125			
Surrogate: 1-Chlorooctane	46.8		mg/kg	50.0		93.6	70-130			-
Surrogate: 1-Chlorooctadecane	36.3		"	50.0		72.6	70-130			
LCS (EE42101-BS2)			,	Prepared:	05/21/04	Analyzed	1: 05/22/04			
Gasoline Range Organics C6-C12	406	10.0	mg/kg wet	500		81.2	75-125			
Diesel Range Organics >C12-C35	478	10.0		500		95.6	75-125			
Total Hydrocarbon C6-C35	884	10.0	**	1000		88.4	75-125			
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0		97.6	70-130			
Surrogate: 1-Chlorooctadecane	36.2		"	50.0		72.4	70-130			
LCS Dup (EE42101-BSD1)				Prepared:	05/21/04	Analyzed	I: 05/22/04			
Gasoline Range Organics C6-C12	408	10.0	mg/kg wet	500		81.6	75-125	0.00	20	,
Diesel Range Organics >C12-C35	494	10.0	#	500		98.8	75-125	2.46	20	
Total Hydrocarbon C6-C35	902	10.0	**	1000		90.2	75-125	1.34	20	
Surrogate: 1-Chlorooctane	46.5		mg/kg	50.0		93.0	70-130			
Surrogate: 1-Chlorooctadecane	37.7		"	50.0		75.4	70-130			

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1910 N. Big Spring St. Midland TX, 79705

Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 05/27/04 11:42

Organics by GC - Quality Control Environmental Lab of Texas

		Environm	ental L	ab of T	exas				_	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Note
Batch EE42101 - Solvent Extraction (GC)									_
Calibration Check (EE42101-CCV1)				Prepared:	05/21/04	Analyzed	1: 05/22/04	· -		
Gasoline Range Organics C6-C12	420		mg/kg	500		84.0	80-120			
Diesel Range Organics >C12-C35	482		n	500		96.4	80-120			
Total Hydrocarbon C6-C35	902		n	1000		90.2	80-120			
Surrogate: 1-Chlorooctane	52.6		<i>y</i>	50.0		105	70-130			
Surrogate: 1-Chlorooctadecane	45.0		"	50.0		90.0	70-130			
Matrix Spike (EE42101-MS2)	So	urce: 4E210	02-44	Prepared:	05/21/04	Analyzed	1: 05/22/04			
Gasoline Range Organics C6-C12	467	10.0	mg/kg dry	532	ND	87.8	75-125			
Diesel Range Organics >C12-C35	532	10.0		532	ND	100	75-125			
Total Hydrocarbon C6-C35	999	10.0	11	1060	ND	94.2	75-125			
Surrogate: 1-Chlorooctane	59.0		mg/kg	50.0		118	70-130			
Surrogate: 1-Chlorooctadecane	46.4		"	50.0		92.8	70-130			
Matrix Spike Dup (EE42101-MSD2)	So	urce: 4E210	02-44	Prepared:	05/21/04	Analyzed	1: 05/22/04			
Gasoline Range Organics C6-C12	500	10.0	mg/kg dry	532	ND	94.0	75-125	6.83	20	
Diesel Range Organics >C12-C35	555	10.0	n	532	ND	104	75-125	4.23	20	
Total Hydrocarbon C6-C35	1060	10.0	"	1060	ND	100	75-125	5.93	20	
Surrogate: 1-Chlorooctane	62.2		mg/kg	50.0		124	70-130			
Surrogate: 1-Chlorooctadecane	47.9		"	50.0		95.8	70-130			
Batch EE42701 - EPA 5030C (GC)										
Blank (EE42701-BLK1)				Prepared	& Analyz	ed: 05/25/	04			
Benzene	ND	0.0250	mg/kg wet							****
Toluene	ND	0.0250	**							
Ethylbenzene	ND	0.0250	#							
Xylene (p/m)	ND	0.0250	11							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	102		ug/kg	100		102	80-120			
Surrogate: 4-Bromofluorobenzene	104		,,	100		104	80-120			

Environmental Lab of Texas

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1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 05/27/04 11:42

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 EE42701 - EPA 5030C (GC)										
LCS (EE42701-BS1)				Prepared	& Analyze	d: 05/25/0	04			
Benzene	89.2		ug/kg	100		89.2	80-120	7400		
Toluene	86.9		Ħ	100		86.9	80-120			
Ethylbenzene	86.3		n	100		86.3	80-120			
Xylene (p/m)	170		**	200		85.0	80-120			
Xylene (o)	85.6		**	100		85.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	106		"	100		106	80-120			
Surrogate: 4-Bromofluorobenzene	110		"	100		110	80-120			
Calibration Check (EE42701-CCV1)				Prepared:	05/25/04	Analyzed	1: 05/26/04			
Benzene	84.9		ug/kg	100		84.9	80-120			
Toluene	82.9		11	100		82.9	80-120			
Ethylbenzene	82.4		"	100		82.4	80-120			
Xylene (p/m)	163		**	200		81.5	80-120			
Xylene (o)	81.9		11	100		81.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	103			100		103	80-120			
Surrogate: 4-Bromofluorobenzene	99.8		r	100		99.8	80-120			
Matrix Spike (EE42701-MS1)	So	urce: 4 E210 1	10-04	Prepared:	05/25/04	Analyzed	1: 05/26/04			
Benzene	87.4		ug/kg	100	ND	87.4	80-120			
Toluene	86.1		19	100	ND	86.1	80-120			
Ethylbenzene	88.0		11	100	ND	88.0	80-120			
Xylene (p/m)	175		**	200	ND	87.5	80-120			
Xylene (o)	85.0		11	100	ND	85.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	110		n	100		110	80-120			
Surrogate: 4-Bromofluorobenzene	107		"	100		107	80-120			
Matrix Spike Dup (EE42701-MSD1)	So	urce: 4 E210 1	10-04	Prepared:	05/25/04	Analyzed	l: 05/26/04			
Benzene	80.3		ug/kg	100	ND	80.3	80-120	8.47	20	
Toluene	80.3		17	100	ND	80.3	80-120	6.97	20	
Ethylbenzene	82.1		n	100	ND	82.1	80-120	6.94	20	
Xylene (p/m)	163		"	200	ND	81.5	80-120	7.10	20	
Xylene (o)	82.0		9	100	ND	82.0	80-120	3.59	20	
Surrogate: a,a,a-Trifluorotoluene	92.3		,,	100		92.3	80-120			
Surrogate: 4-Bromofluorobenzene	<i>97.0</i>		"	100		97.0	80-120			

Environmental Lab of Texas

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Quality Assurance Review

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Project: Pogo/ E.C. Hill A & B TB

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Project Number: 1746

Project Manager: Ike Tavarez

Reported: 05/27/04 11:42

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 EE42402 - General Preparation										
Blank (EE42402-BLK1)			*	Prepared	& Analyz	ed: 05/21/0)4			
% Solids	100		%							
Duplicate (EE42402-DUP1)	So	urce: 4E2100	1-01	Prepared	& Analyz	ed: 05/21/0)4			
% Solids	86.0		%		86.0			0.00	20	
Batch EE42405 - Water Extraction Blank (EE42405-BLK1)	····		· · · · · · · · · · · · · · · · · · ·	Prenared	05/21/04	Analyzed	· 05/22/04			
Chloride	ND	20.0	mg/kg Wet			7 11.017 200	. 02/22/01		,	
Matrix Spike (EE42405-MS1)	Sor	urce: 4E2000	2-42	Prepared:	05/21/04	Analyzed	: 05/22/04			
Chloride	1360	20.0	mg/kg Wet	500	936	84.8	80-120			
Matrix Spike Dup (EE42405-MSD1)	So	urce: 4E2000	12-42	Prepared:	05/21/04	Analyzed	: 05/22/04			
Chloride	1380	20.0	mg/kg Wet	500	936	88.8	80-120	1.46	20	
Reference (EE42405-SRM1)				Prepared	05/21/04	Analyzed	: 05/22/04			
Chloride	5000		mg/kg	5000		100	80-120			

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Quality Assurance Review

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Project: Pogo/ E.C. Hill A & B TB

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Project Number: 1746

Project Manager: Ike Tavarez

Reported:

05/27/04 11:42

Notes and Definitions

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

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

Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

J

Sample results reported on a dry weight basis dry

Relative Percent Difference **RPD**

Environmental Lab of Texas

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Quality Assurance Review

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Ana	llysi	s Re	eq	ue	25	st and Ch	ain of (Custod	ly	I	Re	co	rc	l	-					Δ		PAGI YSIS	s: Re		<u> </u>		OF	<u>: 5</u>	<u>; </u>		
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CLIENT NA	ME)	Pro		15		SITE MANA	SER.			Ė		RESI		TIVE	7		GOIS MOD.	;	8 8			7697	20/02			Chloride					
PROJECT		46	PI	ROM		T NAME HILL	A. B. Ion	h Battey	CONTAINERS	()(X)					209,	808			Ag As Bo		Volatiles	900/ 0700	Vol. 82	909/		108.	(<u>A</u> F)	tos)	"		1.
LAB I.D. NUMBER 16.260;2	DATE	TIME		COMP.			CU. KAP DENTIFICATION		NUMBER OF	FILTERED (Y/N)	нсг	HNO3	ICE	NONE	BTEX 8020/802	MTBE 8080/808	(FF) 418.1	PAH 6270	MCKA Betals Ag	TCLP Volatiles	TCLP Semi	RCI	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/808	BOD, TSS, pH.	Germma op-	PLM (Asbestos)	Monde	rem	
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04			5	7	7	BH-1 (25-6	26)		1				1										T								
05			5	1	1	84-1 (30-3	 31)		1				1				X														
06			5	7	7	BH-1 35-	<i>36')</i>		,				1															П	T		
07			3	7	1	BH-1 (40			1				7																T		
08			5	7		BH-1 (45-		-	J				/														T				
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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.

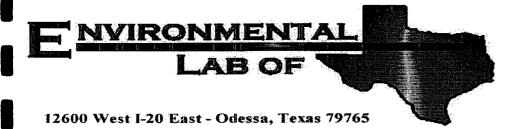
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Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting receives Gold copy.

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Analytical Report

Prepared for:

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

Project: Pogo/ E.C. Hill A & B TB
Project Number: 1746
Location: Lea Co. NM.

Lab Order Number: 4C09001

Report Date: 03/17/04

1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 03/17/04 09:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T-1 (9.0)	4C09001-04	Soil	02/20/04 00:00	02/24/04 16:50

1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 03/17/04 09:12

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
T-1 (9.0) (4C09001-04)					•				
Chloride	1040	20.0 1	mg/kg Wet	2	EC41502	03/15/04	03/16/04	SW 846 9253	

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.

1910 N. Big Spring St. Midland TX, 79705

Project: Pogo/ E.C. Hill A & B TB

Fax: (432) 682-3946

Project Number: 1746

Project Manager: Ike Tavarez

Reported: 03/17/04 09:12

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 EC41502 - Water Extraction										
Blank (EC41502-BLK1)				Prepared:	03/15/04	Analyzed	l: 03/16/04			
Chloride	ND	20.0	mg/kg Wet				,			· Aire
Matrix Spike (EC41502-MS3)	So	urce: 4C1201	17-18	Prepared:	03/15/04	Analyzed	l: 03/16/04			
Chloride	. 510	20.0	mg/kg Wet	500	0.00	102	80-120			
Matrix Spike Dup (EC41502-MSD3)	So	urce: 4C1201	17-18	Prepared:	03/15/04	Analyzed	1: 03/16/04			
Chloride	500	20.0	mg/kg Wet	500	0.00	100	80-120	1.98	20	
Reference (EC41502-SRM1)				Prepared:	03/15/04	Analyzed	1: 03/16/04			
Chloride	5050		mg/kg	5000		101	80-120			

Environmental Lab of Texas

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

Page 3 of 4

u C

Project: Pogo/ E.C. Hill A & B TB

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Project Number: 1746

Project Manager: Ike Tavarez

Reported: 03/17/04 09:12

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

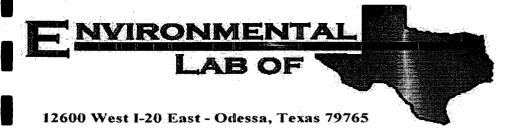
RPD Relative Percent Difference

Environmental Lab of Texas

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Quality Assurance Review

Page 4 of 4



Analytical Report

Prepared for:

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

Project: Pogo/ E.C. Hill A & B TB
Project Number: 1746
Location: Lea Co. NM.

Lab Order Number: 4C09001

Report Date: 03/11/04

1910 N. Big Spring St. Midland TX, 79705

Project: Pogo/ E.C. Hill A & B TB

Fax: (432) 682-3946

Project Number: 1746 Project Manager: Ike Tavarez

Reported: 03/11/04 16:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T-1 (3.0')	4C09001-01	Soil	02/20/04 00:00	02/24/04 16:50
T-1 (7.0°)	4C09001-02	Soil	02/20/04 00:00	02/24/04 16:50
T-9 (0-1')	4C09001-03	Soil	02/20/04 00:00	02/24/04 16:50

1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746 Project Manager: Ike Tavarez Fax: (432) 682-3946

Reported: 03/11/04 16:56

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
T-9 (0-1') (4C09001-03)					····				
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC40903	03/09/04	03/09/04	EPA 8015M	1-02
Diesel Range Organics > C12-C35	ND	10.0	**	**		n	n	и	1-02
Total Hydrocarbon C6-C35	ND	10.0	**	**	"	•	**	и	I-02
Surrogate: 1-Chlorooctane		97.2 %	70-1	130	<i>n</i>	"	,,	"	<i>I-02</i>
Surrogate: 1-Chlorooctadecane		94.6 %	70-i	130	"	"	"	"	I-02

Environmental Lab of Texas

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Quality Assurance Review

Page 2 of 7

1910 N. Big Spring St. Midland TX, 79705

Project: Pogo/ E.C. Hill A & B TB

Fax: (432) 682-3946

Project Number: 1746 Project Manager: Ike Tavarez Reported:

03/11/04 16:56

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
T-1 (3.0') (4C09001-01)									
Chloride	2550	20.0	mg/kg Wet	2	EC41101	03/09/04	03/11/04	SW 846 9253	
T-1 (7.0') (4C09001-02)									
Chloride	2020	20.0	mg/kg Wet	2	EC41101	03/09/04	03/11/04	SW 846 9253	
T-9 (0-1') (4C09001-03)									
Chloride	234	20.0	mg/kg Wet	2	EC41101	03/09/04	03/11/04	SW 846 9253	
% Solids	89.0		%	1	EC41004	03/09/04	03/10/04	% calculation	

Environmental Lab of Texas

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Page 3 of 7

1910 N. Big Spring St. Midland TX, 79705 Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 03/11/04 16:56

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 EC40903 - Solvent Extraction	(GC)									
Blank (EC40903-BLK1)	•		•	Prepared of	& Analyze	d: 03/09/	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	n							
Surrogate: 1-Chlorooctane	38.9		mg/kg	50.0		77.8	70-130			- 4-
Surrogate: 1-Chlorooctadecane	38.4		"	50.0		7 6 .8	70-130			
Blank (EC40903-BLK2)				Prepared:	03/09/04	Analyzed	1: 03/10/04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet			F-M-14.				
Diesel Range Organics >C12-C35	ND	10.0	н							
Total Hydrocarbon C6-C35	ND	10.0	H							
Surrogate: 1-Chlorooctane	40.4		mg/kg	50.0		80.8	70-130			
Surrogate: 1-Chlorooctadecane	42.8		"	50.0		85.6	70-130			
LCS (EC40903-BS1)				Prepared:	03/09/04	Analyzed	l: 03/10/04			
Gasoline Range Organics C6-C12	396		mg/kg	500		79.2	75-125			
Diesel Range Organics >C12-C35	504		"	500		101	75-125			
Total Hydrocarbon C6-C35	900		**	1000		90.0	75-125			
Surrogate: 1-Chlorooctane	53.8		"	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	44.2		"	50.0		88.4	70-130			
LCS (EC40903-BS2)				Prepared:	03/09/04	Analyzed	1: 03/10/04			
Gasoline Range Organics C6-C12	408	10.0	mg/kg wet	500		81.6	75-125			
Diesel Range Organics >C12-C35	473	10.0	н	500		94.6	75-125			
Total Hydrocarbon C6-C35	881	10.0	n	1000		88.1	75-125			
Surrogate: 1-Chlorooctane	54.7		mg/kg	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane	44.6		**	50.0		89.2	70-130			
Calibration Check (EC40903-CCV1)				Prepared	& Analyze	ed: 03/09/	04			
Gasoline Range Organics C6-C12	443		mg/kg	500		88.6	80-120			
Diesel Range Organics >C12-C35	519		**	500		104	80-120			
Total Hydrocarbon C6-C35	962		**	1000		96.2	80-120			
Surrogate: 1-Chlorooctane	59.8		n	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	48.1		n	50.0		96.2	70-130			

Environmental Lab of Texas

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1910 N. Big Spring St. Midland TX, 79705

Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported: 03/11/04 16:56

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
		THILL	OHIG	LCVCI	Acoust	/UNEC	Lunits	W.D	Luiiit	11016
Batch EC40903 - Solvent Extraction ((GC)						-			
Calibration Check (EC40903-CCV2)				_	& Analyz	ed: 03/09/0				
Gasoline Range Organics C6-C12	437		mg/kg	500		87.4	80-120			
Diesel Range Organics >C12-C35	527		"	500		105	80-120			
Total Hydrocarbon C6-C35	964		11	1000		96.4	80-120			
Surrogate: 1-Chlorooctane	59.2		,	50.0		118	70-130			
Surrogate: 1-Chlorooctadecane	48.4		"	50.0		96.8	70-130			
Matrix Spike (EC40903-MS1)	So	urce: 4C0900	01-03	Prepared:	03/09/04	Analyzed	: 03/10/04			
Gasoline Range Organics C6-C12	496		mg/kg	500	ND	99.2	75-125			
Diesel Range Organics >C12-C35	518		n	500	ND	104	75-125			
Total Hydrocarbon C6-C35	1010		н	1000	ND	101	75-125			
Surrogate: 1-Chlorooctane	55.2			50.0		110	70-130			
Surrogate: 1-Chlorooctadecane	49.9		n	50.0		99.8	70-130			
Matrix Spike (EC40903-MS2)	So	urce: 4C090		_	03/09/04	Analyzed	1: 03/10/04			
Gasoline Range Organics C6-C12	527	10.0	mg/kg dry	538	ND	98.0	75-125			
Diesel Range Organics >C12-C35	774	10.0	11	538	203	106	75-125			
Total Hydrocarbon C6-C35	1300	10.0	11	1080	203	102	75-125			
Surrogate: 1-Chlorooctane	57.6		mg/kg	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	50.2		"	50.0		100	70-130			
Matrix Spike Dup (EC40903-MSD1)	So	urce: 4C090	01-03	Prepared:	03/09/04	Analyzed	1: 03/10/04			
Gasoline Range Organics C6-C12	476		mg/kg	500	ND	95.2	75-125	4.12	20	
Diesel Range Organics >C12-C35	537		"	500	ND	107	75-125	3.60	20	
Total Hydrocarbon C6-C35	1010		n	1000	ND	101	75-125	0.00	20	
Surrogate: 1-Chlorooctane	55.2		"	50.0		110	70-130	*		
Surrogate: 1-Chlorooctadecane	49.9		"	50.0		99.8	70-130			
Matrix Spike Dup (EC40903-MSD2)	So	urce: 4C090	08-01	Prepared:	03/09/04	Analyzed	1: 03/10/04			
Gasoline Range Organics C6-C12	522	10.0	mg/kg dry	538	ND	97.0	75-125	0.953	20	
Diesel Range Organics >C12-C35	777	10.0	*	538	203	107	75-125	0.387	20	
Total Hydrocarbon C6-C35	1300	10.0		1080	203	102	75-125	0.00	20	
Surrogate: 1-Chlorooctane	57.0		mg/kg	50.0		114	70-130			,
Surrogate: 1-Chlorooctadecane	50.2		"	50.0	1	100	70-130			

Environmental Lab of Texas

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Quality Assurance Review

Page 5 of 7

Project: Pogo/ E.C. Hill A & B TB

Fax: (432) 682-3946

1910 N. Big Spring St.

Project Number: 1746

Reported:

Midland TX, 79705

Project Manager: Ike Tavarez

03/11/04 16:56

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

		Reporting		Spike	Source		%REC	_	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC41004 - % Solids										
Blank (EC41004-BLK1)				Prepared:	03/09/04	Analyzed	1: 03/10/04			
% Solids	100		%							
Duplicate (EC41004-DUP1)	So	urce: 4C08007-	03	Prepared:	03/09/04	Analyzed	1: 03/10/04			
% Solids	90.0		%		90.0			0.00	20	
Batch EC41101 - Water Extraction										
Blank (EC41101-BLK1)				Prepared:	03/09/04	Analyzed	I: 03/11/04			
Chloride	ND	20.0 mg	/kg Wet							
Matrix Spike (EC41101-MS1)	So	urce: 4C09001-	01	Prepared:	03/09/04	Analyzed	I: 03/11/04			
Chloride	3010	20.0 mg	/kg Wet	500	2550	92.0	80-120			
Matrix Spike Dup (EC41101-MSD1)	So	urce: 4C09001-	-01	Prepared:	03/09/04	Analyzed	1: 03/11/04			
Chloride	3020	20.0 mg	/kg Wet	500	2550	94.0	80-120	0.332	20	

Environmental Lab of Texas

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Project: Pogo/ E.C. Hill A & B TB

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705

Project Number: 1746

Project Manager: Ike Tavarez

Reported: 03/11/04 16:56

Notes and Definitions

I-02 This result was analyzed outside of the EPA recommended holding time.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

Environmental Lab of Texas

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CLIENT NAME: Producing	SITE MAYAG	Paurer	NEEKS	F	PRESER METH			8015 May	3	4 Ba Cd		N29/092	8270/625		Chlorida			
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Analysis Request and Chain of Custody Record HIGHLANDER ENVIRONMENTAL CORP. 1910 N. Big Spring St. Midland, Texas 79705 (915) 682-4559 Fax (915) 682-3946 CHEET NAME: PROJECT NO.: PR	<i>/</i>	三	_	OF:		2	$\mathcal{I}_{\mathcal{I}}$			PAG										<u>- 1</u>	· ^	20	F	Дv	and Chain of Custo	guest and Ch	<u></u>	200	e P	lvei	Ans	Γ
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SAMPLE CONDITION WHEN RECEIVED: MATRIX: V-Vater A-Air SD-Solid S-Soli SL-Sludge O-Other Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp Project Manager retains pink copy - Accounting receives Gold	· · · · · · · · · · · · · · · · · · ·				·					_		1 1000					\			2	URK	RE		ld r	MATRIX: W-Water A-Air SD-Soli S-Soli SL-Sludge O-Other	ED: MATRIX: W-V.	D:	EIVED			CPLE COND	-

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	CLIENT NAME: Producing Cu. SITE MANAGER	CONTAINERS		F		ERV.	ATIVE			8015 MOD.		2 2	Be Co		5	769/ 0860	8970/000	פנילמ		S. Chloride						ļ.,
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- - - Prefs

Highlander Environmental Corp.

Midland, Texas

FAX

DATE:

3-8-04

TO:

Jeanne

WITH:

Environmental Lab of Texas

FAX:

1-(432) 563-1713

FROM:

lke Tavarez

WITH:

Highlander Environmental Corp.

Midland, Texas

PAGES:

(including Fax cover)

Description:

Request additional analysis: Lab. Order # 4B25003

Pogo Producing Company – (1746) E.C. Hill Tank Battery, Lea County, New Mexico

Run:

T-9 (0-1') - TPH and chloride

Run:

T-1 (3.0') - chloride

T-1 (7.0') - chloride

Please call me if you have any questions, Thanks

HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(432) 682-4559

e-mail: itavarez@hee-enviro.com