

Highlander Environmental Corp.

Midland, Texas

May 24, 2007

JUN 18 2007 OCD-ARTESIA

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

RE: Assessment and Closure Plan for a Spill at the Pogo Producing Company, Marine 19 Federal #1 Well, Located in Unit Letter E, Section 19, Township 25 South, Range 27 East, Eddy County, New Mexico.

Dear Mr. Bratcher:

Highlander Environmental Corp. (Highlander) was contacted by Pogo Producing Company (Pogo) to assess a spill at the Marine 19 Federal #1 Well, located in Unit Letter E Section 19, Township 25 South, Range 27 East, Eddy County, New Mexico (Site). The spill location coordinates are N 32° 07' 06" W 104° 14' 01". The State of New Mexico C-141 (Initial) is shown in Appendix C. The Site is shown on Figure 1.

Background

According to the State of New Mexico C-141 report, the spill occurred on March 21, 2007, when lighting struck a fiberglass water tank. The tank exploded releasing approximately 200 barrels of produced water inside a line tank battery facility. A portion of the berm washed out in the ensuing heavy rainfall allowing a produced water rainwater mixture to spill out onto the well pad. All free fluid was picked up with a vacuum truck. Due to the heavy volume of rainwater, a total of 780 barrels of fluid was picked up. The spill was confined to the well pad in a 200' x 270' area.

Groundwater and Regulatory

The New Mexico State Engineer's Office database does not show any wells in the vicinity of this facility. In order to evaluate the depth of water at this site, Highlander previously supervised the installation of a temporary well to a total depth of 80' below ground surface. After allowing the well to stand for approximately 8 days, the well was checked and found to be dry. 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). As the depth to water is greater than 80', but may be less than 100', the proposed RRAL for TPH is 1000 mg/kg.

Assessment and Results

On April 2, 2007, Highlander personnel inspected and sampled the spill area. A total of five (5) auger holes (AH-1 through AH-5) were installed using a stainless steel hand auger to assess the impacted soils. Soil samples were collected at 1 foot intervals and submitted for analysis of TPH by EPA method 8015 modified and chloride by EPA method 300.0. Selected samples were analyzed for BTEX by EPA method 8021B. Laboratory results indicated no TPH or BTEX impact at or above the RRAL and chloride was only found above 250 mg/kg in AH-2 at 0-1.0' (283 mg/kg) and 1.0'-1.5' (1050 mg/kg). Chloride concentrations declined to 236 mg/kg in the 2.0'-2.5' sample. Copies of the laboratory analysis and chain-of-custody documentation are included in Appendix B. The auger hole locations are shown on Figure 2. The laboratory results of the sampling are summarized in Table 2.

Based on the sample data, it appears that there is a relatively small area of residual chloride impact, confined to the well pad, which does not pose a potential future threat to groundwater. As such, Pogo requests closure of this site. A copy of the State of New Mexico Form C-141 (Final) is included in Appendix C.

If you require any additional information or have any questions or comments, please call.

Highlander Environmental Corp.

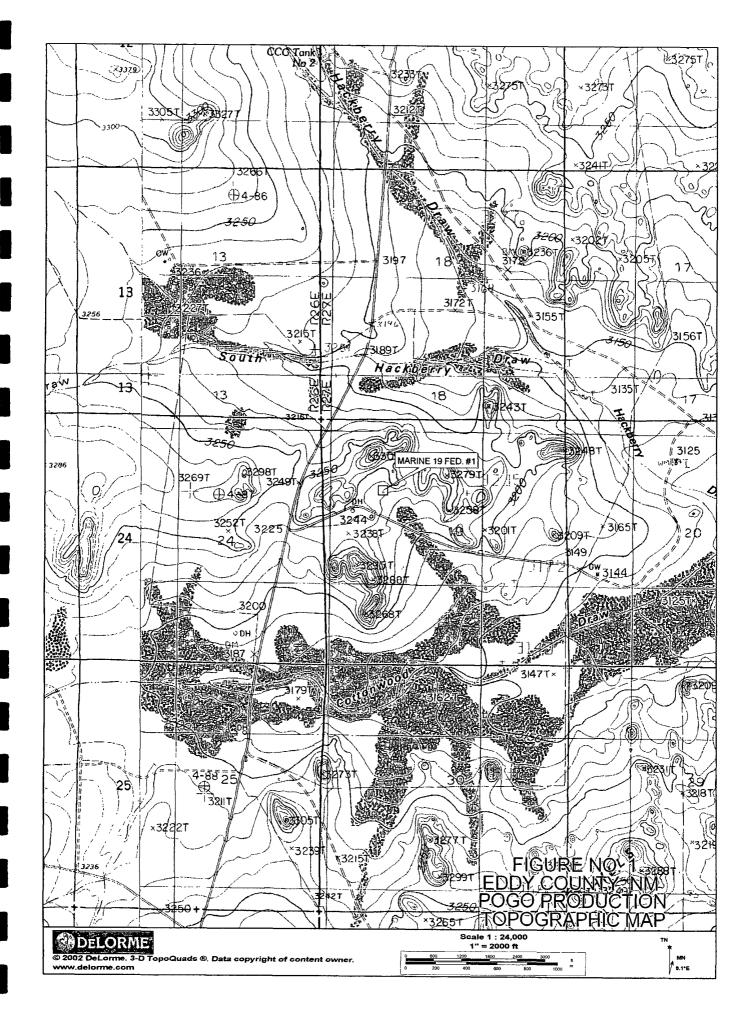
Timothy M. Reed, P.G.

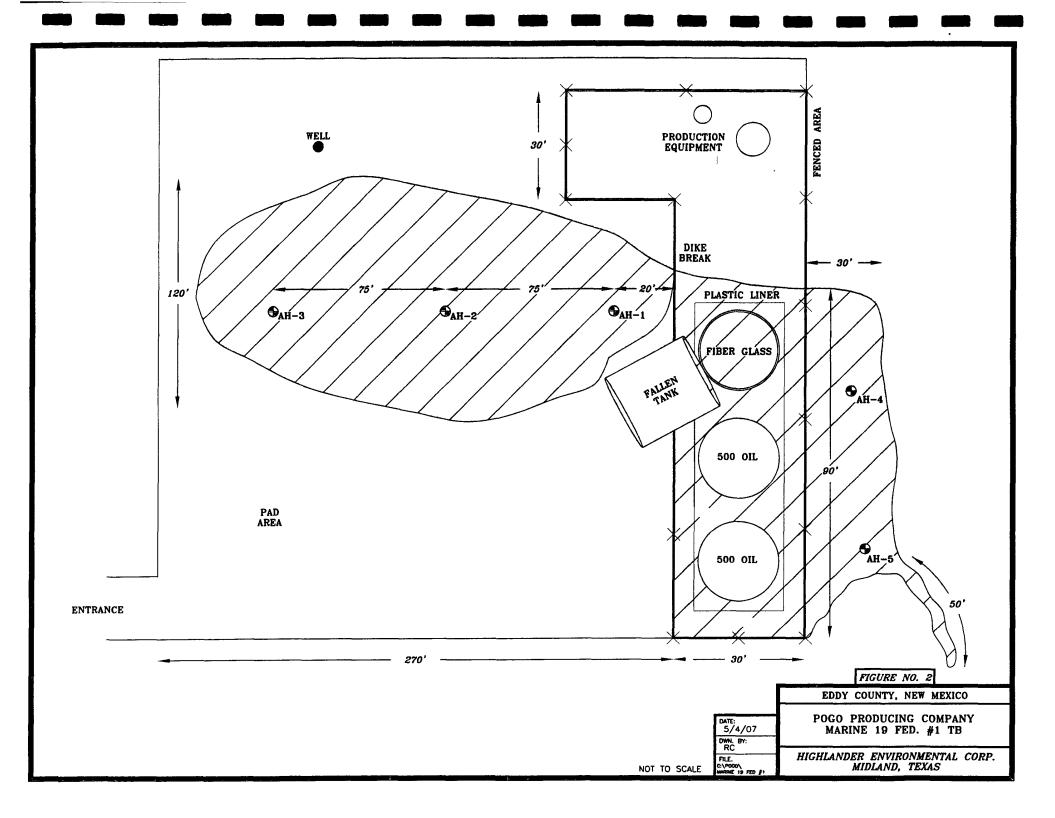
Vice President

cc:

Don Riggs – Pogo Producing Pat Ellis – Pogo Producing







POGO PRODUCING COMPANY

Marine 19 Fed. #1 Eddy County, NM

Sample	Date	େSample ୍ଷ		TPH (mg/kg		Benzene	Toluene	Ethlybenzene	Xylene	Chloride
\mathbf{D}	Sampled	Depth (ft)	C6-C12	C12-C35	Total	(mg/kg)	(mg/kg)	. * (mg/kg)	(mg/kg)	(mg/kg):
#1	4/2/2007	0-1	<1.00	< 50.0	<50.0					221
	4/2/2007	1-1.5	-	-	-					184
#2	4/2/2007	0-1	<1.00	<50.0	<50.0	< 0.0100	<0.0100	< 0.0100	< 0.0100	283
	4/2/2007	1-1.5	-	_	-					1,050
		2-2.5	-	-	-					236
#3	4/2/2007	0-1	<1.00	<50.0	<50.0		1			188
	4/2/2007	1-1.5	-	-	-					214
#4	4/2/2007	0-1	<1.00	<50.0	<50.0	< 0.0100	<0.0100	< 0.0100	< 0.0100	236.0
	4/2/2007	1-1.5	-	-	-				· · · · · · · · · · · · · · · · · · ·	<50.0
#5	4/2/2007	0-1	<1.00	<50.0	<50.0				· · · · · · · · · · · · · · · · · · ·	78
	4/2/2007	1-1.5	-	_	-					<50.0

^(-) not analyzed

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

Approval

State of New Mexico Energy Minerals and Natural Resources

For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe

Form C-144

June 1, 2004

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Pit or Below-Grade Tank Registration or Closure Is pit or below-grade tank covered by a "general plan"? Yes No X Type of action: Registration of a pit or below-grade tank \(\subseteq\) Closure of a pit or below-grade tank \(X\) Telephone: (432) 685-8100 Operator Latigo Petroleum, Inc. e-mail address: Pat Ellis (EllisP@pogoproducing.com) Address: 300 N. Marienfeld St., Box 103040, Midland Texas, 79701-7340 Facility or well name: Marine 19 Federal #1 API #: 30-01533981 U/L or Qtr/Qtr Lot 2 Sec 19, T25S, R27E Latitude 32°07' 06" Longitude 104° 14'01" NAD: 1927 [] 1983 [] County: Eddy Co. Surface Owner: Federal X State Private Indian Below-grade tank Type. Drilling X Production Disposal Volume: ____bbl Type of fluid: _____ Workover \square Emergency \square Construction material: Lined X Unlined Double-walled, with leak detection? Yes \(\square\) If not, explain why not. Liner type: Synthetic X Thickness 12 mil Clay Pit Volume 18M bbl Less than 50 feet (20 points) Depth to ground water (vertical distance from bottom of pit to seasonal 50 feet or more, but less than 100 feet X (10 points) 10 points high water elevation of ground water.) 100 feet or more (0 points) Yes (20 points) Wellhead protection area: (Less than 200 feet from a private domestic No X (0 points) water source, or less than 1000 feet from all other water sources.) Distance to surface water: (horizontal distance to all wetlands, playas, Less than 200 feet (20 points) irrigation canals, ditches, and perennial and ephemeral watercourses.) 200 feet or more, but less than 1000 feet (10 points) CORRONWOOD DRAW I MILE SOUTHEAST 1000 feet or more (0 points) 10 Ranking Score (Total Points) If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite X offsite I If offsite, name of facility . (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered. No X Yes 🗌 If yes, show depth below ground surface ______ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations. Additional Comments: On April 2, 2007, Highlander Environmental Corp. supervised the installation of (1) temporary monitor well on the well pad. The temporary well was installed to a total depth of 80.0' below surface. The construction log is attached. No groundwater was encountered during the installation of the well, On April 10, 2007, Highlander was onsite to measure the depth to groundwater in the temporary well. No groundwater was encountered in the well. The temporary well was dry. I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines X, a general permit \Box , or an (attached) alternative OCD-approved plan \Box . Printed Name/Title PATRICK L. Ellis Signature (Jalrus Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations

Printed Name/Title ______ Date: ______

APPENDIX B

Lab Analysis

Page Number: 1 of 1 Eddy County, NM

Summary Report

Ike Tavarez

Highlander Environmental Services

1910 N. Big Spring Street Midland, TX, 79705

Report Date: April 17, 2007

Work Order: 7040533

Project Location: Eddy County, NM

Project Name:

POGO-Marine 19 Fed. #1

Project Number:

			Date	\mathbf{Time}	Date
Sample	Description	Matrix	Taken	Taken	Received
120911	#2 0-1	soil	2007-04-02	00:00	2007-04-05
120916	#4 0-1	soil	2007-04-02	00:00	2007-04-05

		MTBE			
	Benzene	Toluene	Ethylbenzene	Xylene	MTBE
Sample - Field Code	(mg/Kg)	(mg/kg)	(mg/Kg)	(mg/Kg)	(mg/kg)
120911 - #2 0-1	< 0.0100	< 0.0100	< 0 0100	< 0 0100	
120916 - #4 0-1	< 0.0100	< 0.0100	< 0.0100	< 0 0100	



6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basın Street, Suite A1

6015 Harris Parkway, Suite 110

Lubbock, Texas 79424 El Paso, Texas 79922 Midland, Texas 79703 Ft Worth, Texas 76132

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806 • 794 • 1296 915 • 585 • 3443 432 • 689 • 6301 FAX 806 • 794 • 1298 FAX 915 • 585 • 4944 FAX 432 • 689 • 6313

817 • 201 • 5260

E-Mail lab@traceanalysis.com

Analytical and Quality Control Report

Ike Tavarez

Highlander Environmental Services

1910 N Big Spring Street Midland, TX, 79705

April 17, 2007 Report Date

Work Order. 7040533

Project Location: Eddy County, NM

Project Name·

POGO-Marine 19 Fed #1

Project Number

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
120911	#2 0-1	soil	2007-04-02	00:00	2007-04-05
120916	#4 0-1	soil	2007-04-02	00:00	2007-04-05

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

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

Dr Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project 'POGO-Marine 19 Fed. #1' were received by TraceAnalysis, Inc. on 2007-04-05 and assigned to work order 7040533. Samples for work order 7040533 were received intact without headspace and at a temperature of 4 deg C.

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

Test	Method
BTEX	S 8021B

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7040533 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are preformed with each preparation batch to ensure data integrity.

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

Work Order 7040533

POGO-Marine 19 Fed. #1

Page Number: 3 of 5 Eddy County, NM

Analytical Report

Sample: 120911 - #2 0-1

Analysis: BTEX QC Batch: 36283 Prep Batch: 31610

Analytical Method: S 8021B Date Analyzed 2007-04-09 Sample Preparation: 2007-04-13

Prep Method: S 5035 Analyzed By-Prepared By:

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Benzene		< 0.0100	mg/Kg	1.	0.0100
Toluene		< 0.0100	mg/Kg	1	0.0100
Ethylbenzene		< 0.0100	mg/Kg	1	0.0100
Xylene		< 0.0100	mg/Kg	1	0.0100

					$_{ m Spike}$	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.845	mg/Kg	1	1.00	84	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.956	${ m mg/Kg}$	1	1.00	96	51.1 - 119.1

Sample: 120916 - #4 0-1

Analysis: BTEXQC Batch 36283 Prep Batch: 31610

Analytical Method: S 8021B Date Analyzed: 2007-04-09 Sample Preparation: 2007-04-13 Prep Method: S 5035 Analyzed By Prepared By. ss

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Benzene		< 0.0100	mg/Kg	1	0 0100
Toluene		< 0.0100	m mg/Kg	1	0.0100
Ethylbenzene		< 0.0100	mg/Kg	1	0.0100
Xylene		< 0.0100	mg/Kg	1	0.0100

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.841	mg/Kg	1	1.00	84	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.956	mg/Kg	1	1.00	96	51.1 - 119.1

Method Blank (1)

QC Batch: 36283

QC Batch: 36283 Prep Batch: 31610

2007-04-09 Date Analyzed: QC Preparation: 2007-04-13 Analyzed By: ss Prepared By: ss

		MDL		
Parameter	Flag	Result	$\mathbf{U}\mathbf{nits}$	RL
Benzene		< 0.00110	mg/Kg	0.01
Toluene		< 0.00150	m mg/Kg	0.01
Ethylbenzene		< 0.00160	m mg/Kg	0.01
Xylene		< 0.00410	mg/Kg	0.01

2962

Work Order: 7040533 POGO-Marine 19 Fed. #1 Page Number: 4 of 5 Eddy County, NM

Surrogate	Flag	Result	Units	Dilution	$\begin{array}{c} {\rm Spike} \\ {\rm Amount} \end{array}$	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.819	mg/Kg	1	1.00	82	62.6 - 117.6
4-Bromofluorobenzene (4-BFB)		0.784	mg/Kg	1	1.00	78	53.9 - 125.1

Laboratory Control Spike (LCS-1)

QC Batch: 36283 Prep Batch: 31610

2007-04-09 Date Analyzed: QC Preparation: 2007-04-13

Analyzed By. ss Prepared By: ss

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec	Limit
Benzene	0.912	mg/Kg	1	1.00	< 0.00110	91	68.6 - 123.4
Toluene	0.938	mg/Kg	1	ا 1.00	< 0.00150	94	74.6 - 119.3
Ethylbenzene	0.953	mg/Kg	1	1.00	< 0.00160	95	72.3 - 126.2
Xylene	2.90	mg/Kg	1	3.00	< 0.00410	97	76.5 - 121.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	0.904	mg/Kg	1	1.00	< 0.00110	90	68.6 - 123.4	1	20
Toluene	0.934	mg/Kg	1	1.00	< 0.00150	93	74.6 - 119.3	0	20
Ethylbenzene	0.955	mg/Kg	1	1.00	< 0.00160	96	72.3 - 126.2	0	20
Xylene	2.90	${ m mg/Kg}$	1	3.00	< 0.00410	97	76 5 - 121.6	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD	~~ .		Spike	LCS	LCSD	Rec
Surrogate	Result	Result	$_{ m Units}$	Dil	Amount	${ m Rec}$.	Rec	$_{ m Limit}$
Trifluorotoluene (TFT)	0.792	0.778	mg/Kg	1	1.00	79	78	64.1 - 118.2
4-Bromofluorobenzene (4-BFB)	0.908	0.905	${ m mg/Kg}$	1	1.00	91	90	68.7 - 125.8

Matrix Spike (MS-1) Spiked Sample: 120933

QC Batch: 36283 Prep Batch 31610 Date Analyzed: 2007-04-09 2007-04-13 QC Preparation:

Analyzed By ss Prepared By: ss

	MS			Spike	Matrix		Rec
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene	0.975	mg/Kg	1	1.00	< 0.00110	98	64 4 - 115.7
Toluene	1.03	mg/Kg	1	1.00	< 0.00150	103	57.8 - 124.4
Ethylbenzene	1.07	mg/Kg	1	1.00	< 0.00160	107	64.8 - 125.8
Xylene	3.30	mg/Kg	1	3.00	< 0.00410	110	65.2 - 121.8

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil	Spike Amount	Matrix Result	Rec	Rec. Limit	RPD	RPD Limit
Benzene	0.902	mg/Kg	1	1.00	< 0.00110	90	64.4 - 115.7	8	20
Toluene	0.940	mg/Kg	1	1.00	< 0.00150	94	57.8 - 124.4	9	20
Ethylbenzene	0.969	mg/Kg	1	1.00	< 0.00160	97	64.8 - 125.8	10	20

continued ...

Report Date: April 17, 2007 2962

Work Order: 7040533 POGO-Marine 19 Fed #1 Page Number. 5 of 5 Eddy County, NM

 $matrix\ spikes\ continued\ \dots$

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Xylene	2.98	mg/Kg	1	3.00	< 0.00410	99	65.2 - 121.8	10	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	Rec
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.769	0.782	mg/Kg	1	1	77	78	52.8 - 121.7
4-Bromofluorobenzene (4-BFB)	0.962	0.956	$_{ m mg/Kg}$	1	1	96	96	66.7 - 131.9

Standard (ICV-1)

QC Batch: 36283

Date Analyzed: 2007-04-09

Analyzed By: ss

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	${ m Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0919	92	85 - 115	2007-04-09
Toluene		mg/Kg	0.100	0.0955	96	85 - 115	2007-04-09
Ethylbenzene		${ m mg/Kg}$	0.100	0.0984	98	85 - 115	2007-04-09
Xylene		mg/Kg	0.300	0.301	100	85 - 115	2007-04-09

Standard (CCV-1)

QC Batch: 36283

Date Analyzed: 2007-04-09

Analyzed By· ss

Param	Flag	Units	CCVs True Conc	CCVs Found Conc	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0909	91	85 - 115	2007-04-09
Toluene		mg/Kg	0.100	0.0938	94	85 - 115	2007-04-09
Ethylbenzene		${ m mg/Kg}$	0.100	0.0896	90	85 - 115	2007-04-09
Xylene		mg/Kg	0.300	0.278	93	85 - 115	2007-04-09

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SAMPLE CONDITION WHEN RECEIVED: MATRIX: W-Fator A-Air S-Soil SL-Sludge	SD—Solid O—Other		R	EMAR	KS:				-					•	-								
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Work Order: 7040533 POGO-Marine 19 Fed. #1 Page Number: 1 of 2 Eddy County, NM

Summary Report

Ike Tavarez

Highlander Environmental Services

1910 N. Big Spring Street

Midland, TX, 79705

Report Date: April 10, 2007

Work Order: 7040533

Project Location: Eddy County, NM

Project Name: POGO-Marine 19 Fed. #1

Project Number: 2962

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
120909	#1 0-1	soil	2007-04-02	00:00	2007-04-05
120910	#1 1-1.5	soil	2007-04-02	00:00	2007-04-05
120911	#2 0-1	soil	2007-04-02	00:00	2007-04-05
120912	#2 1-1.5	soil	2007-04-02	00:00	2007-04-05
120913	#2 2-2.5	soil	2007-04-02	00:00	2007-04-05
120914	#3 0-1	soil	2007-04-02	00:00	2007-04-05
120915	#3 1-1.5	soil	2007-04-02	00:00	2007-04-05
120916	#4 0-1	soil	2007-04-02	00:00	2007-04-05
120917	#4 1-1.5	soil	2007-04-02	00:00	2007-04-05
120918	#5 O-1	soil	2007-04-02	00:00	2007-04-05
120919	#5 1-1.5	soil	2007-04-02	00:00	2007-04-05

	TPH DRO	TPH GRO
	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)
120909 - #1 0-1	<50.0	<1.00
120911 - #2 0-1	< 50.0	<1.00
120914 - #3 0-1	< 50.0	<1 00
120916 - #4 0-1	< 50.0	<1.00
120918 - #5 0-1	< 50.0	< 1.00

Sample: 120909 - #1 0-1

Param	Flag	Result	Units	RL
Chloride		221	mg/Kg	2.00

Sample: 120910 - #1 1-1.5

Param	Flag	Result	Units	RL
Chloride		184	mg/Kg	2.00

Report Date: April 10, 2007 2962		Work Order: 7040533 POGO-Marine 19 Fed. #1		Page Number: 2 of 2 Eddy County, NM
Sample: 120911 -	#2 0-1			
Param	Flag	Result	Units	RL
Chloride	<u> </u>	283	mg/Kg	2.00
Sample: 120912 -	#2 1-1.5			
Param	Flag	Result	Units	RL
Chloride		1050	mg/Kg	2.00
Sample: 120913 -	#2 2-2.5			
Param	Flag	Result	Units	RL
Chloride	- 100	236	mg/Kg	2.00
Sample: 120914 -	#3 0-1			
Param	Flag	Result	Units	m RL
Chloride		188	mg/Kg	2.00
Sample: 120915 - Param Chloride	#3 1-1.5 Flag	Result 214	Units mg/Kg	RL 2.00
0 1 100010	W 4 0 7			
Sample: 120916 -		70 - V	T7	n.
Param Chloride	Flag	Result 236	Units mg/Kg	RL 2.00
Sample: 120917 -	#4 1-1.5			
Param	Flag	Result	Units	RL
Chloride		<50.0	mg/Kg	2.00
Sample: 120918 -	#5 0-1			
Param	Flag	Result	Units	RL
Chloride		77.8	mg/Kg	2.00
Sample: 120919 -	#5 1-1.5			
Param	Flag	Result	Units	RL
Chloride	<u>~</u>	< 50.0	mg/Kg	2.00

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296

This is only a summary Please, refer to the complete report package for quality control data.

6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1

6015 Harris Parkway, Suite 110

Lubbock, Texas 79424 El Paso, Texas 79922 Midland, Texas 79703 Ft Worth, Texas 76132

800 • 378 • 1296 888 • 588 • 3443 806 • 794 • 1296 915 • 585 • 3443 432 • 689 • 6301 FAX 806 • 794 • 1298 FAX 915 • 585 • 4944 FAX 432 • 689 • 6313

817 • 201 • 5260

E-Mail lab@traceanalysis.com

Analytical and Quality Control Report

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

Report Date: April 10, 2007

Work Order 7040533

Project Location: Eddy County, NM

Project Name: POGO-Marine 19 Fed #1

Project Number: 2962

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
120909	#1 0-1	soil	2007-04-02	00:00	2007-04-05
120910	#1 1-1.5	soil	2007-04-02	00:00	2007-04-05
120911	#2 0-1	soil	2007-04-02	00:00	2007-04-05
120912	#2 1-1.5	soil	2007-04-02	00:00	2007-04-05
120913	#2 2-2.5	soil	2007-04-02	00:00	2007-04-05
120914	#3 0-1	soil	2007-04-02	00:00	2007-04-05
120915	#3 1-1.5	soil	2007-04-02	00:00	2007-04-05
120916	#4 0-1	soil	2007-04-02	00:00	2007-04-05
120917	#4 1-1.5	soil	2007-04-02	00:00	2007-04-05
120918	#5 0-1	soil	2007-04-02	00:00	2007-04-05
120919	#5 1-1.5	soil	2007-04-02	00:00	2007-04-05

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

This report consists of a total of 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich Director

Standard Flags

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

Case Narrative

Samples for project 'POGO-Marine 19 Fed. #1' were received by TraceAnalysis, Inc. on 2007-04-05 and assigned to work order 7040533. Samples for work order 7040533 were received intact without headspace and at a temperature of 4 deg C.

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

Test	Method
Chloride (Titration)	SM 4500-Cl B
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occuring, however, it may not pertain to the samples for work order 7040533 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are preformed with each preparation batch to ensure data integrity.

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

Work Order: 7040533 POGO-Marine 19 Fed. #1 Page Number: 3 of 13 Eddy County, NM

Analytical Report

Sample: 120909 - #1 0-1

Analysis: Chloride (Titration)

QC Batch: 36264 Prep Batch: 31466 Analytical Method: Date Analyzed Sample Preparation. SM 4500-Cl B 2007-04-06

Prep Method: N/A Analyzed By: ARPrepared By:

		\mathbf{n}			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		221	mg/Kg	1	2.00

Sample: 120909 - #1 0-1

Analysis: TPH DRO QC Batch: 36327 Prep Batch: 31488

Analytical Method: Mod. 8015B 2007-04-09 Date Analyzed: Sample Preparation: 2007-04-09

Prep Method: N/A Analyzed By: AGPrepared By: AG

RL

Parameter	Flag	Result	Units	Dilution	RL
DRO		< 50.0	mg/Kg	1	50.0

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		160	${ m mg/Kg}$	1	150	107	32.9 - 167

Sample: 120909 - #1 0-1

TPH GRO Analysis: QC Batch: 36282 Prep Batch: 31480

S 8015B Analytical Method: 2007-04-09 Date Analyzed: Sample Preparation: 2007-04-07

Prep Method: S 5035 Analyzed By: Prepared By:

RLParameter Flag Result Units Dilution RLGRO < 1.00 mg/Kg 1.00

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.824	mg/Kg	1	1.00	82	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.04	mg/Kg	1	1.00	104	67.5 - 140.3

Sample: 120910 - #1 1-1.5

Chloride (Titration) Analysis: QC Batch 36264 Prep Batch: 31466

Analytical Method: SM 4500-Cl B 2007-04-06 Date Analyzed Sample Preparation:

Prep Method: N/A Analyzed By-ARPrepared By-AR

RLRLFlag Result Units Dilution Parameter Chloride 184 2.00 mg/Kg

Report Date: April 10, 2007 Work Order: 7040533 Page Number. 4 of 13 2962 POGO-Marine 19 Fed. #1 Eddy County, NM Sample: 120911 - #2 0-1 SM 4500-Cl B Prep Method: N/A Analysis Chloride (Titration) Analytical Method: ARQC Batch 36264 Date Analyzed: 2007-04-06 Analyzed By: Prepared By: Sample Preparation: Prep Batch 31466 RLRLUnits Dilution Parameter Flag Result 2.00 Chloride 283 mg/Kg Sample: 120911 - #2 0-1 Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A QC Batch: 36327 2007-04-09 Analyzed By: AGDate Analyzed: Prep Batch: 31488 Sample Preparation: 2007-04-09 Prepared By: AG RLParameter Flag Result Units Dilution RLDRO < 50.0 mg/Kg 50.0 Spike Percent Recovery Units Dilution Amount Recovery Limits Surrogate Flag Result 32.9 - 167 185 150 123 n-Triacontane mg/Kg Sample: 120911 - #20-1Analysis: TPH GRO Analytical Method: S 8015BPrep Method: S 5035 QC Batch: 36282 Date Analyzed: 2007-04-09 Analyzed By:

		RL					
Parameter Fla	ıg	Result		Units		Dilution	RL
GRO		<1.00		m mg/Kg		1	1.00
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.814	m mg/Kg	1	1.00	81	52.4 - 123.7
4-Bromofluorobenzene (4-BFI	3)	1.02	mg/Kg	1	1.00	102	67.5 - 140.3

2007-04-07

Prepared By:

Sample Preparation:

Sample: 120912 - #2 1-1.5

31480

Prep Batch:

Analys QC Ba Prep B	•	on) Analytical Method: Date Analyzed: Sample Preparation	SM 4500-Cl B 2007-04-06	Prep Method: Analyzed By: Prepared By:	,
D	Elo a	RL Dlt	1140	Dilution	DΙ

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		1050	mg/Kg	25	2.00

Report Date: April 10, 2007 Work Order: 7040533 Page Number: 5 of 13 2962 POGO-Marine 19 Fed. #1

Sample: 120913 - #2 2-2.5

Analytical Method: SM 4500-Cl B Prep Method: N/A Analysis: Chloride (Titration) 2007-04-06 QC Batch: 36264 Analyzed By: ARDate Analyzed: Prepared By: AR

Eddy County, NM

Sample Preparation: Prep Batch 31466

RLParameter Flag Result Units Dilution RLChloride 236 2.00 mg/Kg 25

Sample: 120914 - #3 0-1

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A QC Batch: 36264 Date Analyzed. 2007-04-06 Analyzed By-ARPrepared By-AR

Prep Batch: 31466 Sample Preparation:

RLParameter Units Dilution RLFlag Result Chloride 188 mg/Kg 25 2.00

Sample: 120914 - #3 0-1

TPH DRO Mod. 8015B Analysis. Analytical Method: Prep Method: N/A QC Batch: 36327 2007-04-09 Analyzed By Date Analyzed: AGPrepared By-AG

Prep Batch: 31488 Sample Preparation: 2007-04-09

RLParameter Flag Result Units Dilution RLDRO < 50.0 50.0 mg/Kg

Percent Spike Recovery Dilution Surrogate Flag Result Units Amount Recovery Limits n-Triacontane 208 150 139 32.9 - 167 mg/Kg 1

Sample: 120914 - #3 0-1

TPH GRO S 8015B Prep Method: \$ 5035 Analysis: Analytical Method: QC Batch: 36282 Date Analyzed: 2007-04-09 Analyzed By: SS Prep Batch. 31480 Sample Preparation: 2007-04-07 Prepared By:

RLFlag Dilution RLParameter Result Units GRO <1.00 mg/Kg 1.00 1

Spike Percent Recovery Surrogate Flag Result Units Dilution Amount Recovery Limits Trifluorotoluene (TFT) 0.821 mg/Kg 1 1.00 82 52.4 - 123.7 4-Bromofluorobenzene (4-BFB) 1.02 mg/Kg 1 1.00 102 67.5 - 140.3

Report Date: April 10, 2007 2962			Work Order: 'POGO-Marine 1	Page Number: 6 of 1 Eddy County, NN			
Sample: 12	0915 - #3 1-1.5						
Analysis: QC Batch: Prep Batch:	Chloride (Titrati 36264 31466	ion)	Analytical Method Date Analyzed: Sample Preparatio	2007-04-06	Prep Method: Analyzed By. Prepared By	N/A AR AR	
	T 1		RL	* ** **	Dil et	T) T	
Parameter Chloride	Flag	<u> </u>	Result 214	Units mg/Kg	Dilution 25	$\frac{RL}{200}$	
				0/0			
Sample: 12	0916 - #4 0-1		•				
_		ion)	Analytical Mathyd	i: SM 4500-Cl B	Prep Method:	N/A	
Analysis: QC Batch:	Chloride (Titrati 36264	1011)	Analytical Method Date Analyzed:	2007-04-06	Analyzed By:	AR	
Prep Batch:	31466		Sample Preparation		Prepared By:	AR	
			RL				
Parameter	Flag	5	Result	Units	Dilution	RL	
Chloride Sample: 12	0916 - #4 0-1		236	mg/Kg	25	2.00	
Sample: 12 Analysis: QC Batch:	0916 - #4 0-1 TPH DRO 36327 31488		Analytical Method: Date Analyzed. Sample Preparation	mg/Kg Mod. 8015B 2007-04-09 2007-04-09	25 Prep Method: Analyzed By: Prepared By:		
Sample: 12 Analysis: QC Batch:	TPH DRO 36327		Analytical Method: Date Analyzed.	Mod. 8015B 2007-04-09	Prep Method: Analyzed By:	N/A AG	
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter	TPH DRO 36327	y 5	Analytical Method: Date Analyzed. Sample Preparation [.] RL Result	Mod. 8015B 2007-04-09 2007-04-09 Units	Prep Method: Analyzed By: Prepared By: Dilution	N/A AG AG RL	
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter	TPH DRO 36327 31488	5	Analytical Method: Date Analyzed. Sample Preparation [.] RL	Mod. 8015B 2007-04-09 2007-04-09	Prep Method: Analyzed By: Prepared By:	N/A AG AG RL	
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter DRO	TPH DRO 36327 31488 Flag		Analytical Method: Date Analyzed. Sample Preparation: RL Result <50.0	Mod. 8015B 2007-04-09 2007-04-09 Units mg/Kg	Prep Method: Analyzed By: Prepared By: Dilution 1	N/A AG AG RL 50.0	
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate	TPH DRO 36327 31488 Flag	Result	Analytical Method: Date Analyzed. Sample Preparation: RL Result <50.0 Units Dilu	Mod. 8015B 2007-04-09 2007-04-09 Units mg/Kg Spike tion Amount	Prep Method: Analyzed By: Prepared By: Dilution 1 Percent Re Recovery I	AG AG RL 50.0 covery imits	
	TPH DRO 36327 31488 Flag		Analytical Method: Date Analyzed. Sample Preparation: RL Result <50.0	Mod. 8015B 2007-04-09 2007-04-09 Units mg/Kg Spike tion Amount	Prep Method: Analyzed By: Prepared By: Dilution 1 Percent Re Recovery I	N/A AG AG RL 50.0	
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan	TPH DRO 36327 31488 Flag	Result	Analytical Method: Date Analyzed. Sample Preparation: RL Result <50.0 Units Dilu	Mod. 8015B 2007-04-09 2007-04-09 Units mg/Kg Spike tion Amount	Prep Method: Analyzed By: Prepared By: Dilution 1 Percent Re Recovery I	N/A AG AG RL 50.0 covery imits	
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 12	TPH DRO 36327 31488 Flag Flag	Result	Analytical Method: Date Analyzed. Sample Preparation: RL Result <50.0 Units Dilu mg/Kg 1	Mod. 8015B 2007-04-09 2007-04-09 Units mg/Kg Spike tion Amount	Prep Method: Analyzed By: Prepared By: Dilution 1 Percent Re Recovery I	N/A AG AG RL 50.0 covery imits 9 - 167	
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 12 Analysis: QC Batch:	TPH DRO 36327 31488 Flag Flag e 0916 - #4 0-1 TPH GRO 36282	Result	Analytical Method: Date Analyzed. Sample Preparation: RL Result <50.0 Units Dilu mg/Kg 1 Analytical Method: Date Analyzed:	Mod. 8015B 2007-04-09 2007-04-09 Units mg/Kg Spike tion Amount 150 S 8015B 2007-04-09	Prep Method: Analyzed By: Prepared By: Dilution 1 Percent Re Recovery I 126 32 Prep Method: Analyzed By:	N/A AG AG RL 50.0 covery imits 9 - 167	
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 12 Analysis: QC Batch:	TPH DRO 36327 31488 Flag Flag e 0916 - #4 0-1 TPH GRO	Result	Analytical Method: Date Analyzed. Sample Preparation: RL Result <50.0 Units Dilu mg/Kg 1	Mod. 8015B 2007-04-09 2007-04-09 Units mg/Kg Spike tion Amount 150	Prep Method: Analyzed By: Prepared By: Dilution 1 Percent Re Recovery I 126 32	N/A AG AG RL 50.0 covery imits 9 - 167	
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan Sample: 12 Analysis: QC Batch: Prep Batch:	TPH DRO 36327 31488 Flag Flag e 0916 - #4 0-1 TPH GRO 36282 31480	Result 189	Analytical Method: Date Analyzed. Sample Preparation: RL Result <50.0 Units Dilu mg/Kg 1 Analytical Method: Date Analyzed: Sample Preparation: RL	Mod. 8015B 2007-04-09 2007-04-09 Units mg/Kg Spike tion Amount 150 S 8015B 2007-04-09 2007-04-07	Prep Method: Analyzed By: Prepared By: Dilution 1 Percent Re Recovery I 126 32 Prep Method: Analyzed By: Prepared By:	N/A AG AG RL 50.0 covery imits 9 - 167	
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter DRO Surrogate n-Triacontan	TPH DRO 36327 31488 Flag Flag e 0916 - #4 0-1 TPH GRO 36282	Result 189	Analytical Method: Date Analyzed. Sample Preparation: RL Result <50.0 Units Dilu mg/Kg 1 Analytical Method: Date Analyzed: Sample Preparation:	Mod. 8015B 2007-04-09 2007-04-09 Units mg/Kg Spike tion Amount 150 S 8015B 2007-04-09	Prep Method: Analyzed By: Prepared By: Dilution 1 Percent Re Recovery I 126 32 Prep Method: Analyzed By:	N/A AG AG RL 50.0 covery imits 9 - 167	

Surrogate
Trifluorotoluene (TFT)
4-Bromofluorobenzene (4-BFB)

Flag

Result

0.818 1.02 Units

mg/Kg mg/Kg Dilution

1

1

Spike

Amount

1.00 1.00 Percent

Recovery

82

102

Recovery

Limits 52.4 - 123.7 67.5 - 140.3

Work Order: 7040533 Page Number: 7 of 13 Report Date: April 10, 2007 2962 POGO-Marine 19 Fed #1 Eddy County, NM Sample: 120917 - #4 1-1.5 SM 4500-Cl B Analysis: Chloride (Titration) Analytical Method: Prep Method: N/A 2007-04-06 QC Batch: 36264 Date Analyzed: Analyzed By: ARPrep Batch: 31466 Sample Preparation: Prepared By: ARRLDilution Parameter Result Units RLFlag Chloride < 50.0 mg/Kg 25 2.00 Sample: 120918 - #5 0-1 SM 4500-Cl B Analysis: Chloride (Titration) Analytical Method: Prep Method: N/A QC Batch: 36264 Date Analyzed: 2007-04-06 Analyzed By: ARPrep Batch: 31466 Sample Preparation Prepared By: AR RLParameter Flag Result Units Dilution RLChloride 77.8 mg/Kg 25 2.00 Sample: 120918 - #5 0-1 Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A QC Batch: 36327 Date Analyzed: 2007-04-09 Analyzed By. AG 2007-04-09 Prepared By: Prep Batch: 31488 Sample Preparation: AG RLParameter Units Dilution RLFlag Result DRO < 50.0 mg/Kg 50.0 Percent Spike Recovery Dilution Units Amount Recovery Limits Surrogate Flag Result 32.9 - 167 200 150 133 n-Triacontane mg/Kg 1

Sample: 120918 - #5 0-1

TPH GRO Analysis: QC Batch: 36282 Prep Batch: 31480

S 8015B Analytical Method: 2007-04-09 Date Analyzed: Sample Preparation: 2007-04-07

Prep Method: S 5035 Analyzed By: SS Prepared By:

Parameter Fla	lag		Result		\mathbf{Units}		Dilution		
GRO			<1.00		mg/Kg		1	1.00	
Surrogate	F	'lag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotoluene (TFT)			0.826	mg/Kg	1	1.00	83	52.4 - 123.7	
4-Bromofluorobenzene (4-BF	B)		1.02	mg/Kg	1	1.00	102	67 5 - 140.3	

RL

Work Order: 7040533 POGO-Marine 19 Fed. #1 Page Number: 8 of 13 Eddy County, NM

Sample: 120919 - #5 1-1.5

Analysis: Chloride (Titration)

QC Batch: 36268 Prep Batch: 31470

SM 4500-Cl B Analytical Method: 2007-04-06 Date Analyzed:

Sample Preparation:

Prep Method: N/A Analyzed By ARAR

Prepared By:

RL

Dilution RLParameter Flag Result Units Chloride < 50.0 mg/Kg 25 2.00

Method Blank (1) QC Batch: 36264

31466

QC Batch: 36264

Prep Batch:

Date Analyzed:

2007-04-06

Analyzed By ARPrepared By: AR

QC Preparation: 2007-04-06

MDL

Flag Parameter Result Units RLChloride < 0.500 mg/Kg 2

Method Blank (1)

QC Batch: 36268

QC Batch: 36268 Prep Batch: 31470

Date Analyzed: 2007-04-06 QC Preparation: 2007-04-06 Analyzed By: AR

Prepared By AR

MDL

Parameter Flag Result Units RLChloride < 0.500 mg/Kg 2

Method Blank (1)

QC Batch: 36282

QC Batch: 36282 Prep Batch: 31480

2007-04-09 Date Analyzed: QC Preparation: 2007-04-09 Analyzed By: ss Prepared By: ss

MDL

Parameter Flag Result Units RLGRO < 0.739 mg/Kg

Spike Percent Recovery Dilution Flag Recovery Surrogate Result Units Amount Limits Trifluorotoluene (TFT) 0.889 1.00 89 52.4 - 123.7 mg/Kg 1 mg/Kg83 4-Bromofluorobenzene (4-BFB) 0.828 1 1.00 67 5 - 140.3

Method Blank (1)

QC Batch: 36327

QC Batch: 36327 Prep Batch: 31488 Date Analyzed: 2007-04-09 QC Preparation: 2007-04-09 Analyzed By: AG Prepared By: AG

2962

Work Order: 7040533 POGO-Marine 19 Fed. #1 Page Number: 9 of 13 Eddy County, NM

MDL RLParameter Flag Result Units DRO 15.5mg/Kg 50 Spike Percent Recovery Surrogate Flag Result Units Dilution Amount Recovery Limits 92 44.7 - 133.6 n-Triacontane 138 mg/Kg 150

Laboratory Control Spike (LCS-1)

QC Batch: 36264 Prep Batch: 31466 Date Analyzed: 2007-04-06 QC Preparation: 2007-04-06 Analyzed By: AR Prepared By: AR

LCS Spike Matrix Rec Param Units Dil. Result Rec. Limit Result Amount 85 - 115 Chloride 98.9 mg/Kg 1 100 < 0.500 99

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec	Limit	RPD	Limit
Chloride	97.9	mg/Kg	1	100	< 0.500	98	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 36268 Prep Batch: 31470 Date Analyzed: 2007-04-06 QC Preparation: 2007-04-06 Analyzed By: AR Prepared By: AR

LCS Spike Matrix Rec Result Param Result Units Dil. Amount Rec. Limit Chloride 97.8 mg/Kg 1 100 < 0.500 98 85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	98.6	mg/Kg	1	100	< 0.500	98	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 36282 Prep Batch: 31480 Date Analyzed: 2007-04-09 QC Preparation: 2007-04-09 Analyzed By: ss Prepared By: ss

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	7.37	mg/Kg	1	10.0	< 0.739	74	57.7 - 102.5

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result

2962

Work Order: 7040533 POGO-Marine 19 Fed #1

RPD LCSD Spike Matrix Rec. Limit RPD Dil. Result Rec. Param Result Units Amount Limit GRO 7.48 10.0 < 0.739 75 57.7 - 102.5 20 mg/Kg 2 1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil	Amount	Rec.	Rec	Limit
Trifluorotoluene (TFT)	1.14	1.14	mg/Kg	1	1.00	114	114	36.8 - 152.5
4-Bromofluorobenzene (4-BFB)	0.948	0.952	$_{ m mg/Kg}$	1	1.00	95	95	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 36327 Prep Batch: 31488 Date Analyzed: 2007-04-09 QC Preparation: 2007-04-09 Analyzed By: AG Prepared By: AG

Page Number: 10 of 13

Eddy County, NM

	LCS			Spike	Matrix		Rec
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	248	mg/Kg	1	250	<14.6	99	47.5 - 144.1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil	Amount	Result	Rec.	Limit	RPD	Limit
DRO	239	mg/Kg	1	250	<14.6	96	47.5 - 144.1	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	152	153	mg/Kg	I	150	101	102	57.3 - 131.6

Matrix Spike (MS-1) Spiked Sample: 120918

QC Batch: 36264 Prep Batch: 31466 Date Analyzed: 2007-04-06 QC Preparation: 2007-04-06 Analyzed By: AR Prepared By: AR

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	$_{ m Limit}$
Chloride	2460	mg/Kg	25	2500	77.757	95	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
Chloride	2500	mg/Kg	25	2500	77.757	97	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 120928

QC Batch: 36268 Prep Batch: 31470 Date Analyzed: 2007-04-06 QC Preparation: 2007-04-06

Analyzed By AR Prepared By AR

Surrogate n-Triacontane

Result

181

Result

160

Units

mg/Kg

Dil.

1

Work Order 7040533

Page Number 11 of 13 POGO-Marine 19 Fed. #1Eddy County, NM

Param Chloride	MS Resu 3690	lt	Units mg/Kg	Dil. 25	Ar	pike nount 2500	R	latrix esult 20.76	Rec 95		Rec Limit 85 - 115
Percent recovery is based on the											00 - 110
rereent recovery is based on the		KFD IS	based c			orke dup	meate	resuit.			
	MSD			Spike		latrix	_		lec.		RPD
Param	Result	Units	Dil.			esult	Rec. 97		imit	RPD	Limit 20
Chloride Percent recovery is based on the	3750 spike result.	mg/Kg RPD is		2500 on the spik		320.76 pike dup			- 115	2	20
Matrix Spike (MS-1) Spike	ed Sample:										
QC Batch 36282	<u></u>	Date A	nalvzec	i· 2007-	N4 <u>-</u> N9				Δn	alyzed	By: ss
Prep Batch: 31480		QC Pro								pared	-
	MS				St	oike	Ma	ıtrix			Rec.
Param	Resu	lt	Units	Dil.	_	ount		sult	Rec.		Limit
GRO	6.37		ng/Kg	1		0.0		.739	64	1	0 - 141.5
Percent recovery is based on the				on the spik	e and s	oike dur	licate	result.			
, and the second				Spike		atrix					RPD
Param	MSD $ Result$	Units	Dil.	Amoun			Rec.		ec mit	RPD	Limit
GRO	6.56	mg/Kg		10.0		0.739	66		141.5	3	20
Percent recovery is based on the							licate				
-	MS	M	CD.	_		Spike	2	MS	MSD		Rec.
Surrogate	Resul		sult	Units	Dil.	Amou		Rec.	Rec.		Limit
Trifluorotoluene (TFT)	0.746			mg/Kg	1	1		75	75		- 125.3
4-Bromofluorobenzene (4-BFB)	1.06			mg/Kg	1	1		106	108		7 - 144.5
Matrix Spike (MS-1) Spike QC Batch: 36327 Prep Batch: 31488	ed Sample: 12	0909 Date Ai QC Pre								yzed B ared B	
	MS				Sp		Mat				Rec.
Param	Resul		Units	Dil.	Amo		Res		Rec.		Limit
DRO	297		ng/Kg	1 .1	28		<14		119	11.	7 - 152.3
Percent recovery is based on the	spike result.	KPD is	based o	on the spik	e and s	pike duj	oncate	result	•		
	MSD			Spike		trix			ec.		RPD
Param	Result	Units	Dil.	Amoun			Rec.		mit	RPD	Limit
DRO		mg/Kg	1	250		···········	108		152.3	10	20_
Percent recovery is based on the	spike result.	RPD is	based o	on the spik	e and s	pike du _l	olicate	result	•		
MS	MSD				S	pike	\mathbb{N}	I S	MSD		Rec.
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Amount

150

Rec.

121

Rec.

107

Limit

17 - 163.1

Report Date: April 10, 2007 Work Order: 7040533 Page Number: 12 of 13 2962 POGO-Marine 19 Fed #1 Eddy County, NM

Standard (ICV-1)

QC Batch: 36264 Date Analyzed: 2007-04-06 Analyzed By: AR

ICVs ICVs ICVs Percent True Found Percent Recovery Date Param Flag Units Conc. Conc. Recovery Limits Analyzed 100 Chloride mg/Kg 100 100 85 - 115 2007-04-06

Standard (CCV-1)

QC Batch: 36264 Date Analyzed: 2007-04-06 Analyzed By: AR

CCVs CCVs CCVsPercent True Found Percent Recovery Date Param Flag Units Conc. Conc. Recovery Limits Analyzed Chloride mg/Kg 100 99.9 100 85 - 115 2007-04-06

Standard (ICV-1)

QC Batch: 36268 Date Analyzed: 2007-04-06 Analyzed By: AR

ICVs ICVs ICVs Percent Found Recovery Date True Percent Param Flag Units Conc. Conc. Recovery Limits Analyzed Chloride 100 85 - 115 2007-04-06 mg/Kg 100 100

Standard (CCV-1)

QC Batch: 36268 Date Analyzed: 2007-04-06 Analyzed By: AR

CCVs CCVs CCVsPercent Found Percent Recovery True Date Recovery Param Flag Units Conc. Limits Analyzed Conc. Chloride 100 100 100 85 - 115 2007-04-06 mg/Kg

Standard (ICV-1)

QC Batch: 36282 Date Analyzed: 2007-04-09 Analyzed By· ss

ICVs ICVs ICVs Percent True Found Percent Recovery Date Conc. Param Flag Units Conc. Recovery Limits Analyzed GRO 85 - 115 2007-04-09 0.946 95 mg/Kg 1.00

Standard (CCV-1)

QC Batch: 36282 Date Analyzed: 2007-04-09 Analyzed By: ss

Work Order: 7040533 POGO-Marine 19 Fed. #1 Page Number: 13 of 13 Eddy County, NM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.847	85	85 - 115	2007-04-09

Standard (ICV-1)

QC Batch: 36327

Date Analyzed: 2007-04-09

Analyzed By: AG

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	269	108	85 - 115	2007-04-09

Standard (CCV-1)

QC Batch: 36327

Date Analyzed: 2007-04-09

Analyzed By: AG

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	263	105	85 - 115	2007-04-09

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Midland, Texas 79705									TX1 005		Hg	7									İ		
(432) 682-4559 Fax	14:	マツィ	۱ 6	27 '	3 Ω1	6			B	İ	4	- E						1,	ト				
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CLIENT NAME: SITE MANAGER: AUCOX	NKRS		F		ERV. STH	ATIVE DD			8015 MOD		Ba C	20 20			80/62	8270/825		Chlorida	$ \mathcal{V} $				
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SAMPLE CONDITION WHEN RECEIVED: MATRIX: MATRIX: ST. Salid			R	EMAR	KS:	al	1 -	\	J	<u>.</u>	_	$\overline{\mathbb{M}}$	il	تملأ	\sim	1							
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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.

District I 1625 N French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised October 10, 2003 Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

side of form

			Rele	ease Notific	eation	and Co	orrective A	ction			
						OPERA'			ial Report	☐ Final	Report
Name of Co	mpany L	atigo Peti	ro leum	, INC TEXAS 797		Contact /	PATRICK E.	llis			
Facility Nan). <u>Box 10</u> ne Mà⊬∴	340 Mia	d #	<u>, IEXAS 197</u> I	02	Facility Tyr	No. 432 68. De TANK B	3-8/48 3a Herv			
		<u> </u>		1.61.6					· · · · · · · · · · · · · · · · · · ·		
Surface Ow	ner			Mineral C	wner			Lease	No. NM-	109756	
						OFRE			T		
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Line	County		1
	19	255	27E	1480	No	Rth	1130	West	Edd	<i>Y</i>	
			La	titude <u>32°07</u>	06	' Longitud	le 104° 14	2'01"		00 1	11.1
						– OF RELI				PROduced RAIN WA	
Type of Relea	ase Pan	duced h	laten	INAI	UKE			BBLS Volume	Recovered 7		
Source of Re	lease Fibe	erglass W	Ater 1	TANK		Date and H	lour of Occurrenc	e Date and	Hour of Disc		
Was Immedia	ite Notice C	liven?		No 🗌 Not Re	quired	If YES, To	Whom? 3-2; oice messag	1-07 10:00 E Mike BR. TAMMY	PM atcheR	060	
	PATRIC		5			Date and H	our 5:00 pr	1 3-22-6	7		
Was a Watero	course Reac	hed?	Yes 🔽	No		If YES, Vo	lume Impacting ti	he Watercourse.			
If a Watercou	rce was Im										
II a Watercou	ise was im	pacted, 1903011	oo r uny.								
N/A											
										·	
Describe Cau	se of Proble	m and Remed	lial Action	Taken.* £:beralacs	FAN	k The	tank e	x ploded	releasi	'Na	
LIGHTN	ing si	ORM ST	ruck duced	water	which	h Mixe	ed with	exploded heavy h	AIN FALL	,~)	
200 2	7023	, ,,,,,,	4 g v.		,.,	, ,,,,,,,	<i>3</i>	,, ,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Describe Area	Affected a	nd Cleanup A	ction Tak	en.*)			/	(// /		/ / /	
Release	OCCU	rred in	A	ined tac	ility	r. A p	ORTION OF	the ber	M WASI	hea out	
DICKER	g WATE	Hiahlani	vre t der F	o reach	the	Well	pha. All	free fluevaluate 5	oill Are	13° ⊿	
I hereby certif	v that the in	formation giv	en above	is true and compl	ete to the	e best of my	cnowledge and un	derstand that purs	uant to NMO	CD rules and	
regulations all	operators a	ire required to	report an	d/or file certain re	leaše no	tifications an	d perform correct	ive actions for rela	eases which m	ay endanger	
public health of	or the environers	onment. The	acceptanc dequately	e of a C-141 report investigate and re	t by the	NMOCD ma	rked as "Final Re	port" does not reli at to ground water	eve the operat	tor of liability	lth
or the environ	ment. In ac	ldition, NMO	CD accept	tance of a C-141 r	eport do	es not relieve	the operator of re	esponsibility for co	, surrace wate ompliance wit	h any other	
federal, state,	or local law	s and/or regul	ations.	, , , , , , , , , , , ,	; 	· · · · · · · · · · · · · · · · · · ·	OH GOM	IDDXX A CONT	D11 11 (11 (1)		
Signature:	D# .	1 2 0	00.	Sar.	}		OIL CONS	ERVATION	DIVISION	<u> </u>	
Signature: 6	alrus	3 2. 8	Cus								
Printed Name	PATRIC	K L. E	11;5	, ,	A	pproved by I	District Supervisor	r: 			
Title: EH	rs 5.	perviso	R		A	pproval Date	:	Expiration I	Date:		
E-mail Addres	ss: ellis	pe pogop	Roduci	ing. Com (432) 685-81	c	onditions of	Approval:		Attached		
Date: 4	5-07	· • • • • • • • • • • • • • • • • • • •	Phone.	432) 685-814	18						
Attach Additi	onal Chast	o If Magaza									

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division Santa Fe, NM 87505

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

Form C-141 Revised October 10, 2003

1220 South St. Francis Dr. side of form

Release Notificatio	on and Co	rrective A	ction	
	OPERA	ГOR	Initia	al Report 🛛 Final Report
Name of Company Latigo Petroleum, Inc Address P.O. Box 10340 Midland, TX 79702	Contact Pat		1 / 0	
Facility Name Marine 19 Federal #1		No. (432) 685-8 be Tank Battery	140	
Surface Owner Mineral Owner			Lease N	No. NM – 109756
				10. 1111 107/30
Unit Letter Section Township Range Feet from the North	h/South Line	Feet from the	East/West Line	County
E 19 25S 27E 1480 North	h	1130	West	Eddy
Latitude 32° 07' 06	5" Longitud	le 104° 14' 01"		<u> </u>
	E OF REL			
Type of Release Produced Water		Release 200 BB		Recovered 780 BBLS
Source of Release Fiberglass Water Tank	Date and F	Hour of Occurrenc		d Water / Rain Water) Hour of Discovery 3-21-07
			10:00 PM	
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required	If YES, To) Whom? message Mike Bi	ratcher – OCD	
By Whom? Patrick Ellis			– BLM	
Was a Watercourse Reached?		olume Impacting t		
☐ Yes ☒ No				
If a Watercourse was Impacted, Describe Fully.* N/A				
Describe Cause of Problem and Remedial Action Taken.* Lightning storm struck fiberglass tank. The tank exploded releasing 200	DDIC of mrod	hand water which	mived with hearn	waimfall
Lightning storm struck noergiass tank. The tank exploded releasing 200	DDLS of prod	iucea water willen	mixed with heavy	Tantian.
1				
Describe Area Affected and Cleanup Action Taken.*	11		11 J A11 C	- G -: 1: 1 1
Release occurred in a lined facility. A portion of the berm washed out al Highlander Environmental Corp. evaluated spill area for closure.	nowing water i	nixture to reach th	ie well pad. All fre	e fluid was picked up.
	.1 1	1 11 1	1 1 1	W M CORD 1
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release	notifications a	ind perform correc	tive actions for rel	leases which may endanger
public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remedi	the NMOCD n	narked as "Final R	eport" does not rel	ieve the operator of liability
or the environment. In addition, NMOCD acceptance of a C-141 report				
federal, state, or local laws and/or regulations.	T	OIL CON	SERVATION	DIVISION
Signature: Catrif 2. Elle		OID COIT	OLKVIIIOIV	DIVIDION
Signature: Calruf L. Elley	Approved by	District Supervis	or:	
Printed Name: Patrick L. Elllis				
Title: EH&S Supervisor	Approval Da	ite:	Expiration	Date:
E-mail Address: ellisp@pogoproducing.com	Conditions of	of Approval:		Attached
Date: Phone: (432) 685-8148 * Attach Additional Sheets If Necessary				