

NM1-19 Monitoring Report 2013

Site Name: Gandy Marley Landfarm
Commercial Landfarm Permit NM-01-0019
Report Date: June 17, 2013
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June 17, 2013
New Mexico Energy, Minerals, & Natural Resources Dept.
Oil Conservation Division Environmental Bureau
Attn: Mr. Brad A. Jones
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

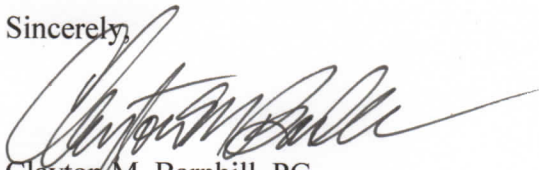
**Re: Submittal of First Quarterly Monitoring Report for Year 2013
Gandy Marley Inc., Commercial Landfarm
Gandy Marley Inc., Operator / PRP
SW/4 of Section 4, SE/4 of Section 5, NE/4 of Section 8, & NW/4 of Section 9,
T. 11 S., R.31 E., NMPM
Chaves County, New Mexico
Commercial Landfarm Permit (NM-01-0019)**

Dear Mr. Jones:

Clayton M. Barnhill, CMB Environmental and Geological Services Inc., on behalf of the owner/operator, Gandy Marley Inc., submit the attached Quarterly Monitoring Report for the above-mentioned site.

If you have any questions about the contents of the report, please do not hesitate to call me.
Thank you.

Sincerely,



Clayton M. Barnhill, PG
CMB Environmental & Geological Services, Inc.
PO Box 2304
Roswell, NM 88202-2304
Phone: (575) 622-2012 Phone Fax: (575) 625-0538
Cellular: (575) 626-1615
cmbenviro@gmail.com

Cc: Gandy Marley Inc.

Prepared by CMB Environmental and Geological Services Inc., Roswell, NM

Site Name: Gandy Marley Landfarm
Commercial Landfarm Permit NM-01-0019
Report Date: June 17, 2013
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QUARTERLY MONITORING REPORT

Please include the following information:

1. Site Name: **Gandy Marley Landfarm**
2. Responsible party: **Gandy Marley Inc.**
3. Responsible party mailing address (list contact person if different):

Gandy Marley Inc.
Attn: Mr. Larry Gandy, Vice President, Project Manager
PO Box 1658
Roswell, NM 88202-1658

4. Commercial Landfarm Permit Number: **NM-01-0019**
5. Address/legal description:

SW/4 of Section 4, SE/4 of Section 5, NE/4 of Section 8, & NW/4 of Section 9
T. 11 S. R. 31 E., NMPM
Chaves County, NM

6. Author/consulting company:

Clayton M. Barnhill, PG, CMB Environmental & Geological Services, Inc.

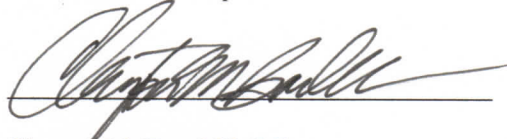
7. Date of report: **June 17, 2013**

Site Name: Gandy Marley Landfarm
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STATEMENT OF FAMILIARITY

I, the undersigned, am personally familiar with the information submitted in this report and the attached documents and attest that it is true and complete.

Signature:



Name:

Clayton M. Barnhill, PG

Affiliation:

CMB Environmental and Geological Services, Inc.

Title:

Sr. / Principal Geologist

Certified Scientist #:

State of Wyoming Professional Geologist 3072, exp. 12/31/13

Date:

06/17/2013

Prepared by CMB Environmental and Geological Services Inc., Roswell, NM

Site Name: Gandy Marley Landfarm
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I. INTRODUCTION

CMB Environmental and Geological Services Inc., on behalf of Gandy Marley Inc., the owner/operator of the Gandy Marley Inc., Landfarm located in the SW/4 of Section 4, SE/4 of Section 5, NE/4 of Section 8, & NW/4 of Section 9, Township 11 South, Range 31 East, Chaves County, New Mexico, has prepared this quarterly monitoring report in accordance with conditions set forth in Commercial Landfarm Permit Number NM-01-0019 (Gandy Marley Inc., approved by the New Mexico Energy, Minerals, & Natural Resources Department Oil Conservation Division (NMOCD) Environmental Bureau on January 17, 2006.

The Gandy Marley Inc, Commercial Landfarm is located approximately 33 miles northwest of Tatum, NM in Sections 4, 5, 8 & 9, T. 11 S. R. 31 E., Chaves County, New Mexico (Figure 1). In January of 2006, the New Mexico Energy, Minerals, & Natural Resources Department Oil Conservation Division (NMOCD) Environmental Bureau approved a Commercial Landfarm Permit NM-01-0019. The commercial landfarm is being managed in accordance with the NMOCD approved Commercial Landfarm Permit NM-01-0019. Received soils on the landfarm are deposited in bermed cells in six-inch lifts and disked on a regular basis to enhance aeration. Groundwater below the site is at a depth between 122.62' foot (MW-2) and 130.32' foot (MW-1) below the top of casing of both monitor wells. Groundwater beneath the site has a total dissolved solids concentration of approximately 8970 milligrams per liter.

A. Scope of Work

The approved scope of work for the first quarter of monitoring year 2013 consists of collecting confirmation soil samples beneath all site cells actively landfarmed or previously active, analyzing the subsurface soil samples for total petroleum hydrocarbons (TPH), and BTEX, and compiling and reporting data or analyses that demonstrate the media located in the remediation cell has been remediated to an acceptable level by the NMOCD Commercial Landfarm Permit NM-01-0019.

The soil sampling adequately monitored the vadose zone beneath the facility. Appendix 3 contains the complete analytical results for soils sampled in these Cells.

The sampling protocol for the monitoring activities can be found in Appendix 1. Appendix 2 contains field notes with GPS Coordinates of sample points for this monitoring event. Laboratory analysis reports of soil samples are in Appendix 3.

B. Quarter Highlights

First quarter 2013 soil sampling / monitoring was performed on May 29, 2013. This quarter's monitoring activities include the following:

- Collection of one Remediation Cell Soil samples from all active and previously active landfarm remediation cells for laboratory analysis of the parameters outlined in section (A) above.
- Gauging Leak Detection Monitors of Evaporation Pond # 1 with a Solinst Interface Probe.
- Preparation of this report.

Site Name: Gandy Marley Landfarm
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ACTIVITIES PERFORMED DURING THIS QUARTER

C. Monitoring Activities

Landfarm Remediation cell soil samples were collected beneath the remediation cells and submitted to Trace Analysis Laboratory, located in Lubbock Texas and were analyzed for TPH using EPA Method 418.1, BTEX using EPA Method 8021B.

The soil sampling adequately monitored the vadose zone beneath the facility. Laboratory analysis reports and chain of custody forms are in Appendix 3.

A Solinist interface probe was lowered down to total depth of the PVC piping of the leak detection in evaporation pond # 1. No fluids or leaks were detected by the interface probe.

Site Name: Gandy Marley Landfarm
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II. SUMMARY AND CONCLUSIONS

A. Assessment of Remediation Activities:

Analyses from a soil sample of the vadose zone soils in all Landfarm Cells (with the exception of Cell 15) show the sampled vadose zone soils at three feet below ground surface in all cells to contain less than <0.0200 (Mg/Kg) BTEX, and TPH concentrations \leq 500 (Mg/Kg) TPH. Cell #15 had a TPH concentration of 3960 Mg/Kg, and Cell #12 had a TPH concentration of 335 (Mg/Kg). These were the only cells with strongly elevated TPH Concentrations. Elevated cell soil concentrations > 100 Mg/Kg TPH in the vadose zone three feet below ground surface need additional soil sampling to adequately test the soils in the cell treatment zone and to be in compliance with existing permit conditions and NMAC Rule 36.

A Solinst interface probe was lowered down to total depth of the PVC piping of the leak detection in evaporation pond # 1. No fluids or leaks were detected by the interface probe.

Perched groundwater below the site is at a depth of 122' feet to 130' feet below ground surface, and has a total dissolved solids concentration of approximately 8970 milligrams per liter.

Site Name: Gandy Marley Landfarm
Commercial Landfarm Permit NM-01-0019
Report Date: June 17, 2013

LIST OF FIGURES

Figure		Included	N/A
1	Site Map	X	
2	Topographic Map with sample locations plotted	X	

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Commercial Landfarm Permit NM-01-0019
Report Date: June 17, 2013

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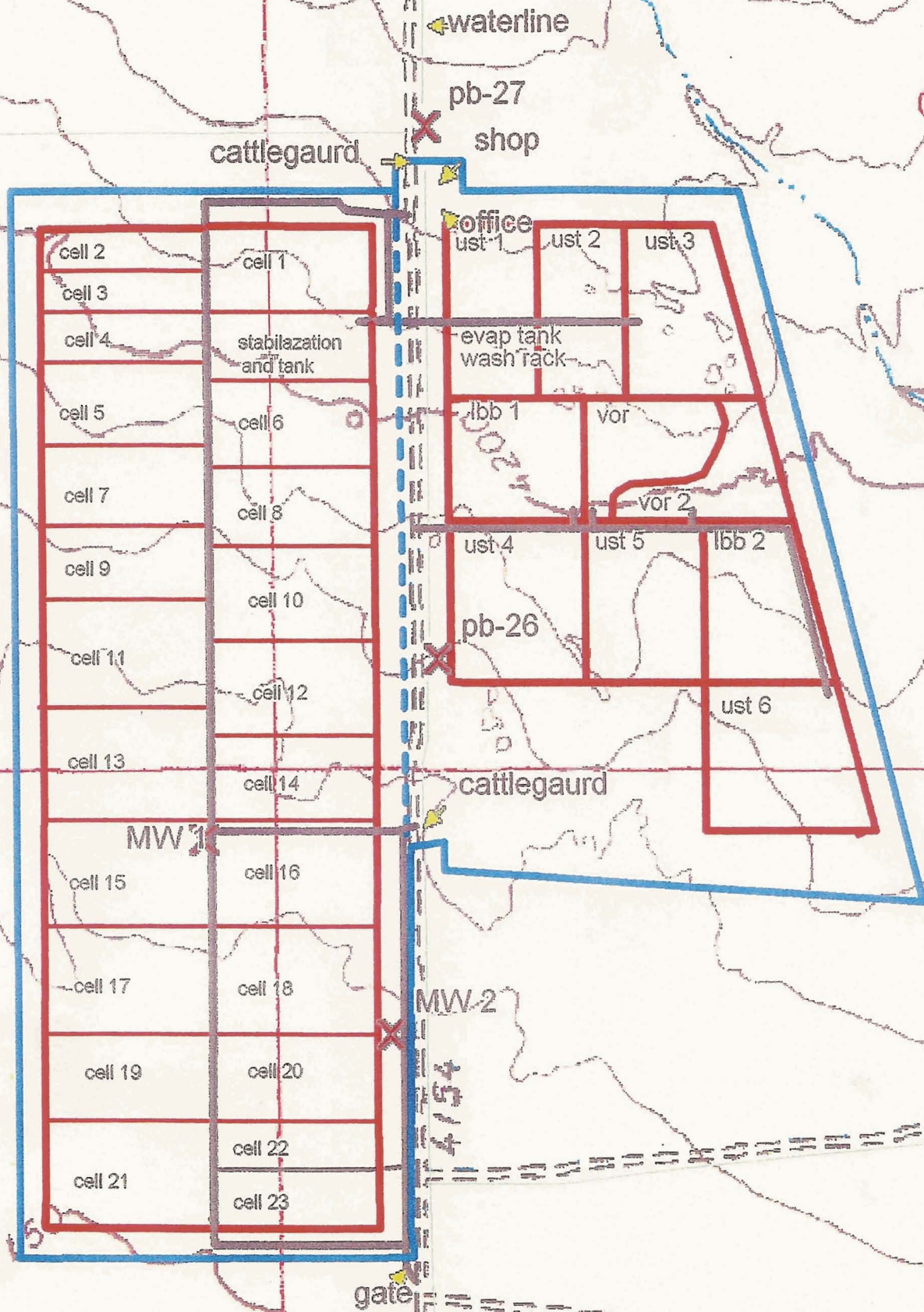
Table	Included	N/A
1 Lab Analysis Summary Reports of Cell Soil Samples	X	

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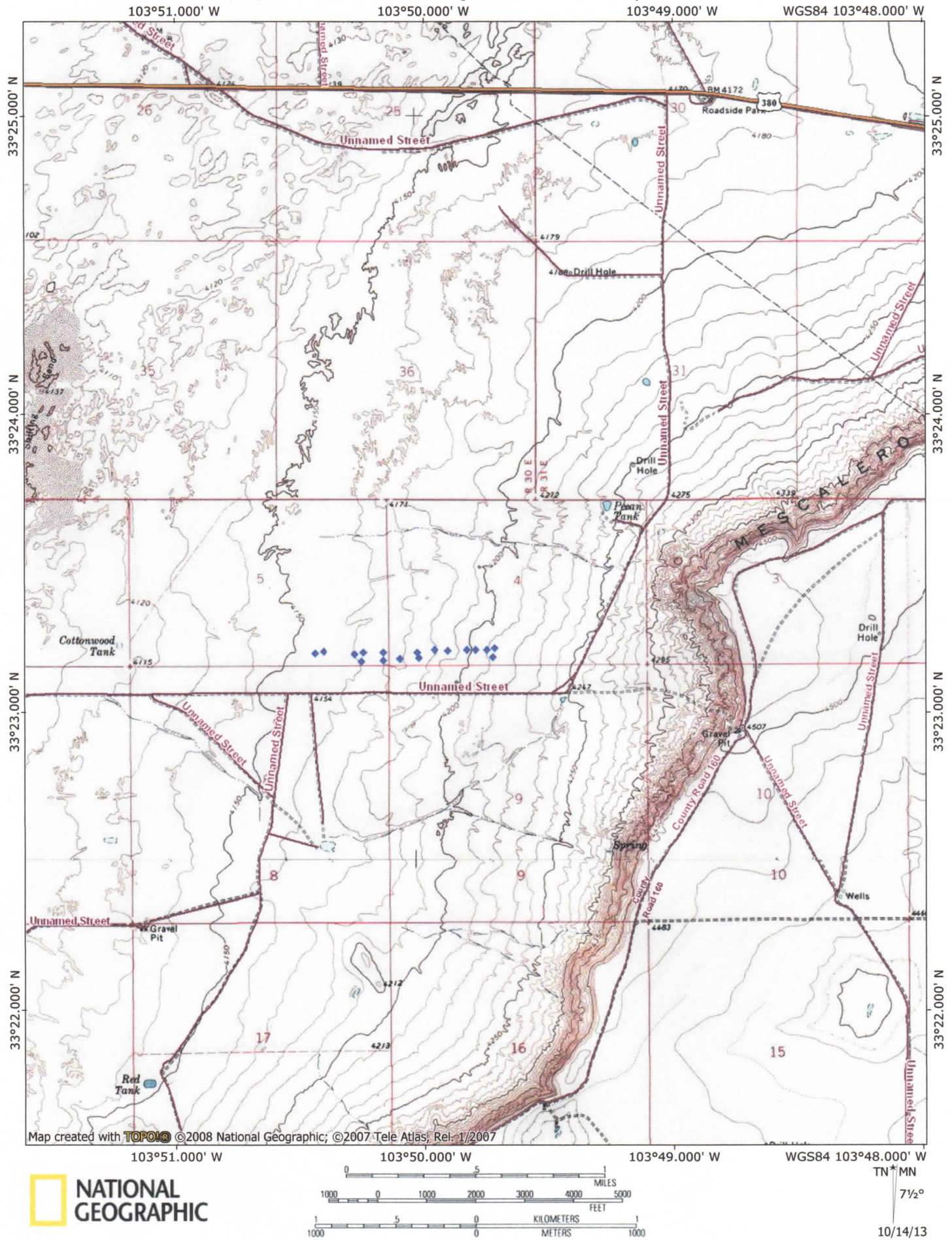
Appendix	Included	N/A
1 Sampling Protocol	X	
2 Field Notes /with GPS Coordinates of samples	X	
3 Laboratory Reports	X	

Site Name: Gandy Marley Landfarm
Commercial Landfarm Permit NM-01-0019
Report Date: June 17, 2013

Figures:



06/17/13 GMI Landfarm First Quarter 2013 Soil Sample Locations



Site Name: Gandy Marley Landfarm
Commercial Landfarm Permit NM-01-0019
Report Date: June 17, 2013

Tables:

Report Date: June 13, 2013

Work Order: 13053120

Page Number: 1 of 2

Summary Report

Bret Riley
Gandy Marley Inc.

Report Date: June 13, 2013

P. O. Box 1658
Roswell, NM 88202

Work Order: 13053120



Project Location: Sec. 4, 5, 8, 9, T11S-R31E, Chavez Co., NM
Project Name: GMI Landfarm
Project Number: 1st Quarter Soil Sampling 2013

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
330623	Cell 1	soil	2013-05-29	14:30	2013-05-31
330624	Cell 2	soil	2013-05-29	14:36	2013-05-31
330625	Cell 3	soil	2013-05-29	14:42	2013-05-31
330626	Cell 4	soil	2013-05-29	14:47	2013-05-31
330627	Cell 5	soil	2013-05-29	14:53	2013-05-31
330628	Cell 7	soil	2013-05-29	14:57	2013-05-31
330629	Cell 9	soil	2013-05-29	15:03	2013-05-31
330630	Cell 10	soil	2013-05-29	15:10	2013-05-31
330631	Cell 11	soil	2013-05-29	15:15	2013-05-31
330632	Cell 12	soil	2013-05-29	15:20	2013-05-31
330633	Cell 13	soil	2013-05-29	15:25	2013-05-31
330634	Cell 14	soil	2013-05-29	15:30	2013-05-31
330635	Cell 15	soil	2013-05-29	15:35	2013-05-31
330636	Cell 16	soil	2013-05-29	15:40	2013-05-31
330637	Cell 17	soil	2013-05-29	15:45	2013-05-31
330638	Cell 19	soil	2013-05-29	15:50	2013-05-31
330639	Cell 21	soil	2013-05-29	15:55	2013-05-31

Sample - Field Code	BTEX				MTBE	TPH 418.1
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	MTBE (mg/Kg)	TRPHC (mg/Kg)
330623 - Cell 1	<0.0200	<0.0200 Qs	<0.0200 Qs	<0.0200 Qs		<10.0
330624 - Cell 2	<0.0200	<0.0200 Qs	<0.0200 Qs	<0.0200 Qs		<10.0
330625 - Cell 3	<0.0200	<0.0200 Qs	<0.0200 Qs	<0.0200 Qs		<10.0
330626 - Cell 4	<0.0200	<0.0200 Qs	<0.0200 Qs	<0.0200 Qs		<10.0
330627 - Cell 5	<0.0200	<0.0200 Qs	<0.0200 Qs	<0.0200 Qs		17.5
330628 - Cell 7	<0.0200	<0.0200 Qs	<0.0200 Qs	<0.0200 Qs		33.1
330629 - Cell 9	<0.0200	<0.0200 Qs	<0.0200 Qs	<0.0200 Qs		<10.0

continued ...

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.

Report Date: June 13, 2013

Work Order: 13053120

Page Number: 2 of 2

... continued

Sample - Field Code	BTEX				MTBE MTBE (mg/Kg)	TPH 418.1 TRPHC (mg/Kg)
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)		
330630 - Cell 10	<0.0200	<0.0200 Q _s	<0.0200 Q _s	<0.0200 Q _s		113
330631 - Cell 11	<0.0200	<0.0200 Q _s	<0.0200 Q _s	<0.0200 Q _s		<10.0
330632 - Cell 12	<0.200 ¹	<0.200	<0.200	<0.200		335
330633 - Cell 13	<0.0200	<0.0200 Q _s	<0.0200 Q _s	<0.0200 Q _s		<10.0
330634 - Cell 14	<0.0200	<0.0200 Q _s	<0.0200 Q _s	<0.0200 Q _s		<10.0
330635 - Cell 15	<0.100 ²	<0.100 Q _s	<0.100 Q _s	<0.100 Q _s		3960
330636 - Cell 16	<0.0200	<0.0200 Q _s	<0.0200 Q _s	<0.0200 Q _s		<10.0
330637 - Cell 17	<0.0200	<0.0200 Q _s	<0.0200 Q _s	<0.0200 Q _s		<10.0
330638 - Cell 19	<0.0200	<0.0200 Q _s	<0.0200 Q _s	<0.0200 Q _s		<10.0
330639 - Cell 21	<0.0200	<0.0200 Q _s	<0.0200 Q _s	<0.0200 Q _s		<10.0

¹Dilution due to surfactants.²Dilution due to surfactants.

Appendix 1

Sampling Protocol

Appendix 1 Sampling Protocol

Site Remediation cells were checked for the presence of phase-separated hydrocarbons (PSH).

A Gandy Marley Inc. owned and operated front end loader dug down with the loader bucket 18” inches to 24” inches below the surface of the remediation cell. An 8” inch loader mounted drill auger was then used to create a soil boring below the exposed soil surface to a depth of 36” inches below the original ground surface of the remediation cell. An AMS 3” inch Stainless steel hand auger was then used by Clayton M. Barnhill, PG (CMB Environmental & Geological Services Inc.) to collect the soil samples beneath the remediation cells. The AMS stainless steel auger and the 8” inch drilling auger were de-contaminated between sample points by cleaning with a brush in an Alconox soap solution and then rinsing with potable water. New Nitrile gloves were changed at each sample point to avoid cross contamination. Borings were backfilled with impermeable bentonite pellets and hydrated.

Samples analyzed for TPH 418.1, BTEX 8021. Soil Samples were collected in one 4 ounce glass jar containing no preservative.

Samples were immediately placed on ice in an insulated cooler and were delivered to the Trace Analysis Laboratory, located in Lubbock, Texas, for analysis. Chain of custody documentation accompanied the samples at all times.

Appendix 2

Field Notes

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Location

SMI Land Army

Date 05/29/13

Project / Client

1st Quarter 2013 Soil Sampling
By: CMG Environmental

Cell #	GPS Coordinates	Remarks
Cell 1	33.23.188 103.49.722 C 14:30	Brown clayey well sorted sand - No odor or stain
Cell 2	33.23.216 103.49.714 C 14:36	" " "
Cell 3	33.23.210 103.49.717 C 14:42	Red clayey med gr. well sorted No odor or stain
Cell 4	33.23.211 103.49.722 C 14:47	Brown clayey No odor or stain
Cell 5	33.23.212 103.49.825 C 14:53	No odor or stain
Cell 7	33.23.208 103.49.902 C 14:57	" " "
Cell 9	33.23.209 103.49.956 C 15:03	Brown clayey sand well sorted med gr. No odor or stain
Cell 10	33.23.184 103.50.018 C 15:10	" " "
Cell 11	33.23.202 103.50.027 C 15:15	" " "
Cell 12	33.23.180 103.50.096 C 15:20	" " "

Location

SMI Land Army

Date

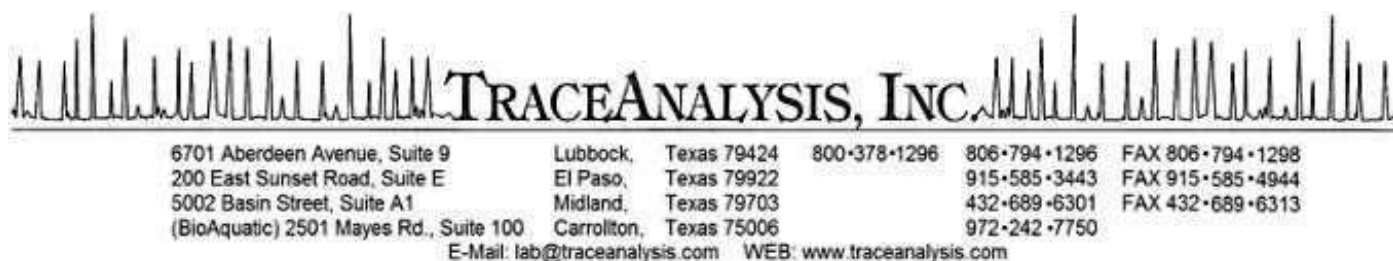
05/29/13

Project / Client

1st Qtr 2013 Soil Sampling
By: CMG Environmental

Cell #	GPS Coordinates	Remarks
Cell 13	33.23.203 103.50.112 C 15:25	Brown clayey med gr. well sorted sand No odor or stain
Cell 14	33.23.176 103.50.161 C 15:30	" " "
Cell 15	33.23.203 103.50.240 C 15:35	" " "
Cell 16	33.23.172 103.50.250 C 15:40	" " "
Cell 17	33.23.197 100.50.276 C 15:45	200 yds white corals
Cell 19	33.23.204 103.50.405 C 15:50	Red clayey sand No odor or stain
Cell 21	33.23.196 103.50.437 C 15:55	Tan brown fine gr. well sorted sand No odor or stain

Appendix 3



Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Bret Riley
Gandy Marley Inc.

Report Date: June 13, 2013

P. O. Box 1658
Roswell, NM, 88202

Work Order: 13053120



Project Location: Sec. 4, 5, 8, 9, T11S-R31E, Chavez Co., NM
Project Name: GMI Landfarm
Project Number: 1st Quarter Soil Sampling 2013

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
330623	Cell 1	soil	2013-05-29	14:30	2013-05-31
330624	Cell 2	soil	2013-05-29	14:36	2013-05-31
330625	Cell 3	soil	2013-05-29	14:42	2013-05-31
330626	Cell 4	soil	2013-05-29	14:47	2013-05-31
330627	Cell 5	soil	2013-05-29	14:53	2013-05-31
330628	Cell 7	soil	2013-05-29	14:57	2013-05-31
330629	Cell 9	soil	2013-05-29	15:03	2013-05-31
330630	Cell 10	soil	2013-05-29	15:10	2013-05-31
330631	Cell 11	soil	2013-05-29	15:15	2013-05-31
330632	Cell 12	soil	2013-05-29	15:20	2013-05-31
330633	Cell 13	soil	2013-05-29	15:25	2013-05-31
330634	Cell 14	soil	2013-05-29	15:30	2013-05-31
330635	Cell 15	soil	2013-05-29	15:35	2013-05-31
330636	Cell 16	soil	2013-05-29	15:40	2013-05-31
330637	Cell 17	soil	2013-05-29	15:45	2013-05-31
330638	Cell 19	soil	2013-05-29	15:50	2013-05-31
330639	Cell 21	soil	2013-05-29	15:55	2013-05-31

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 30 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive, flowing style.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

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Case Narrative

Samples for project GMI Landfarm were received by TraceAnalysis, Inc. on 2013-05-31 and assigned to work order 13053120. Samples for work order 13053120 were received intact at a temperature of 3.4 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	86349	2013-05-31 at 08:21	101914	2013-05-31 at 08:21
BTEX	S 8021B	86350	2013-05-31 at 08:21	101915	22013-05-31 at 08:21
BTEX	S 8021B	86620	2013-06-12 at 15:01	102234	2013-06-12 at 15:01
TPH 418.1	E 418.1	86538	2013-06-10 at 11:00	102141	2013-06-10 at 11:15

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 13053120 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

Report Date: June 13, 2013
1st Quarter Soil Sampling 2013

Work Order: 13053120
GMI Landfarm

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Analytical Report

Sample: 330623 - Cell 1

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 101914
Prep Batch: 86349

Analytical Method: S 8021B
Date Analyzed: 2013-05-31
Sample Preparation: 2013-05-31

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qs	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.04	mg/Kg	1	2.00	102	69.6 - 120
4-Bromofluorobenzene (4-BFB)			2.24	mg/Kg	1	2.00	112	69.2 - 120

Sample: 330623 - Cell 1

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 102141
Prep Batch: 86538

Analytical Method: E 418.1
Date Analyzed: 2013-06-10
Sample Preparation: 2013-06-10

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC			<10.0	mg/Kg	1	10.0

Sample: 330624 - Cell 2

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 101914
Prep Batch: 86349

Analytical Method: S 8021B
Date Analyzed: 2013-05-31
Sample Preparation: 2013-05-31

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

Report Date: June 13, 2013
1st Quarter Soil Sampling 2013

Work Order: 13053120
GMI Landfarm

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qs, U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qs, U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qs	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.98	mg/Kg	1	2.00	99	69.6 - 120
4-Bromofluorobenzene (4-BFB)			2.21	mg/Kg	1	2.00	110	69.2 - 120

Sample: 330624 - Cell 2

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 102141
Prep Batch: 86538

Analytical Method: E 418.1
Date Analyzed: 2013-06-10
Sample Preparation: 2013-06-10

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC			<10.0	mg/Kg	1	10.0

Sample: 330625 - Cell 3

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 101914
Prep Batch: 86349

Analytical Method: S 8021B
Date Analyzed: 2013-05-31
Sample Preparation: 2013-05-31

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qs, U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qs, U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qs	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.12	mg/Kg	1	2.00	106	69.6 - 120
4-Bromofluorobenzene (4-BFB)			2.24	mg/Kg	1	2.00	112	69.2 - 120

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Sample: 330625 - Cell 3

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 102141
Prep Batch: 86538

Analytical Method: E 418.1
Date Analyzed: 2013-06-10
Sample Preparation: 2013-06-10

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC			<10.0	mg/Kg	1	10.0

Sample: 330626 - Cell 4

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 101915
Prep Batch: 86350

Analytical Method: S 8021B
Date Analyzed: 22013-05-31
Sample Preparation: 2013-05-31

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qs, U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qs, U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Jb, Qs	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.03	mg/Kg	1	2.00	102	69.6 - 120
4-Bromofluorobenzene (4-BFB)			2.19	mg/Kg	1	2.00	110	69.2 - 120

Sample: 330626 - Cell 4

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 102141
Prep Batch: 86538

Analytical Method: E 418.1
Date Analyzed: 2013-06-10
Sample Preparation: 2013-06-10

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC			<10.0	mg/Kg	1	10.0

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Sample: 330627 - Cell 5

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 101914

Prep Batch: 86349

Analytical Method: S 8021B

Date Analyzed: 2013-05-31

Sample Preparation: 2013-05-31

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qs,U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.94	mg/Kg	1	2.00	97	69.6 - 120
4-Bromofluorobenzene (4-BFB)			2.14	mg/Kg	1	2.00	107	69.2 - 120

Sample: 330627 - Cell 5

Laboratory: Lubbock

Analysis: TPH 418.1

QC Batch: 102141

Prep Batch: 86538

Analytical Method: E 418.1

Date Analyzed: 2013-06-10

Sample Preparation: 2013-06-10

Prep Method: N/A

Analyzed By: DS

Prepared By: DS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC			17.5	mg/Kg	1	10.0

Sample: 330628 - Cell 7

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 101914

Prep Batch: 86349

Analytical Method: S 8021B

Date Analyzed: 2013-05-31

Sample Preparation: 2013-05-31

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qs	1	<0.0200	mg/Kg	1	0.0200

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.03	mg/Kg	1	2.00	102	69.6 - 120
4-Bromofluorobenzene (4-BFB)			2.22	mg/Kg	1	2.00	111	69.2 - 120

Sample: 330628 - Cell 7

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 102141
Prep Batch: 86538

Analytical Method: E 418.1
Date Analyzed: 2013-06-10
Sample Preparation: 2013-06-10

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC			33.1	mg/Kg	1	10.0

Sample: 330629 - Cell 9

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 101914
Prep Batch: 86349

Analytical Method: S 8021B
Date Analyzed: 2013-05-31
Sample Preparation: 2013-05-31

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qs,U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.02	mg/Kg	1	2.00	101	69.6 - 120
4-Bromofluorobenzene (4-BFB)			2.16	mg/Kg	1	2.00	108	69.2 - 120

Sample: 330629 - Cell 9

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 102141
Prep Batch: 86538

Analytical Method: E 418.1
Date Analyzed: 2013-06-10
Sample Preparation: 2013-06-10

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC	U		<10.0	mg/Kg	1	10.0

Sample: 330630 - Cell 10

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 101915
Prep Batch: 86350

Analytical Method: S 8021B
Date Analyzed: 22013-05-31
Sample Preparation: 2013-05-31

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Jb,Qs	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.09	mg/Kg	1	2.00	104	69.6 - 120
4-Bromofluorobenzene (4-BFB)			2.15	mg/Kg	1	2.00	108	69.2 - 120

Sample: 330630 - Cell 10

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 102141
Prep Batch: 86538

Analytical Method: E 418.1
Date Analyzed: 2013-06-10
Sample Preparation: 2013-06-10

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC			113	mg/Kg	1	10.0

Sample: 330631 - Cell 11

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 101915
Prep Batch: 86350

Analytical Method: S 8021B
Date Analyzed: 22013-05-31
Sample Preparation: 2013-05-31

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

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qs, U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qs, U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Jb, Qs	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.05	mg/Kg	1	2.00	102	69.6 - 120
4-Bromofluorobenzene (4-BFB)			2.15	mg/Kg	1	2.00	108	69.2 - 120

Sample: 330631 - Cell 11

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 102141
Prep Batch: 86538

Analytical Method: E 418.1
Date Analyzed: 2013-06-10
Sample Preparation: 2013-06-10

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC	U		<10.0	mg/Kg	1	10.0

Sample: 330632 - Cell 12

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 102234
Prep Batch: 86620

Analytical Method: S 8021B
Date Analyzed: 2013-06-12
Sample Preparation: 2013-06-12

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.200	mg/Kg	10	0.0200
Toluene	U	1	<0.200	mg/Kg	10	0.0200
Ethylbenzene	U	1	<0.200	mg/Kg	10	0.0200
Xylene	U	1	<0.200	mg/Kg	10	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			16.7	mg/Kg	10	20.0	84	79.9 - 120
4-Bromofluorobenzene (4-BFB)			18.0	mg/Kg	10	20.0	90	80 - 120

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Sample: 330632 - Cell 12

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 102141
Prep Batch: 86538

Analytical Method: E 418.1
Date Analyzed: 2013-06-10
Sample Preparation: 2013-06-10

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC			335	mg/Kg	1	10.0

Sample: 330633 - Cell 13

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 101915
Prep Batch: 86350

Analytical Method: S 8021B
Date Analyzed: 22013-05-31
Sample Preparation: 2013-05-31

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qs, U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qs, U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qs, U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.99	mg/Kg	1	2.00	100	69.6 - 120
4-Bromofluorobenzene (4-BFB)			2.17	mg/Kg	1	2.00	108	69.2 - 120

Sample: 330633 - Cell 13

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 102141
Prep Batch: 86538

Analytical Method: E 418.1
Date Analyzed: 2013-06-10
Sample Preparation: 2013-06-10

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC	U		<10.0	mg/Kg	1	10.0

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Sample: 330634 - Cell 14

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 101915

Prep Batch: 86350

Analytical Method: S 8021B

Date Analyzed: 22013-05-31

Sample Preparation: 2013-05-31

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qs,U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.99	mg/Kg	1	2.00	100	69.6 - 120
4-Bromofluorobenzene (4-BFB)			2.17	mg/Kg	1	2.00	108	69.2 - 120

Sample: 330634 - Cell 14

Laboratory: Lubbock

Analysis: TPH 418.1

QC Batch: 102141

Prep Batch: 86538

Analytical Method: E 418.1

Date Analyzed: 2013-06-10

Sample Preparation: 2013-06-10

Prep Method: N/A

Analyzed By: DS

Prepared By: DS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC	U		<10.0	mg/Kg	1	10.0

Sample: 330635 - Cell 15

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 101915

Prep Batch: 86350

Analytical Method: S 8021B

Date Analyzed: 22013-05-31

Sample Preparation: 2013-05-31

Prep Method: S 5035

Analyzed By: JS

Prepared By: JS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	2 U	1	<0.100	mg/Kg	5	0.0200
Toluene	Qs,U	1	<0.100	mg/Kg	5	0.0200
Ethylbenzene	Qs,U	1	<0.100	mg/Kg	5	0.0200
Xylene	Qs,U	1	<0.100	mg/Kg	5	0.0200

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			10.3	mg/Kg	5	10.0	103	69.6 - 120
4-Bromofluorobenzene (4-BFB)			9.50	mg/Kg	5	10.0	95	69.2 - 120

Sample: 330635 - Cell 15

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 102141
Prep Batch: 86538

Analytical Method: E 418.1
Date Analyzed: 2013-06-10
Sample Preparation: 2013-06-10

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC			3960	mg/Kg	5	10.0

Sample: 330636 - Cell 16

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 101915
Prep Batch: 86350

Analytical Method: S 8021B
Date Analyzed: 22013-05-31
Sample Preparation: 2013-05-31

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qs,U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.94	mg/Kg	1	2.00	97	69.6 - 120
4-Bromofluorobenzene (4-BFB)			2.13	mg/Kg	1	2.00	106	69.2 - 120

Sample: 330636 - Cell 16

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 102141
Prep Batch: 86538

Analytical Method: E 418.1
Date Analyzed: 2013-06-10
Sample Preparation: 2013-06-10

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC	U		<10.0	mg/Kg	1	10.0

Sample: 330637 - Cell 17

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 101915
Prep Batch: 86350

Analytical Method: S 8021B
Date Analyzed: 22013-05-31
Sample Preparation: 2013-05-31

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qs,U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.89	mg/Kg	1	2.00	94	69.6 - 120
4-Bromofluorobenzene (4-BFB)			2.07	mg/Kg	1	2.00	104	69.2 - 120

Sample: 330637 - Cell 17

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 102141
Prep Batch: 86538

Analytical Method: E 418.1
Date Analyzed: 2013-06-10
Sample Preparation: 2013-06-10

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC	U		<10.0	mg/Kg	1	10.0

Sample: 330638 - Cell 19

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 101915
Prep Batch: 86350

Analytical Method: S 8021B
Date Analyzed: 22013-05-31
Sample Preparation: 2013-05-31

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

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qs,U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.90	mg/Kg	1	2.00	95	69.6 - 120
4-Bromofluorobenzene (4-BFB)			2.05	mg/Kg	1	2.00	102	69.2 - 120

Sample: 330638 - Cell 19

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 102141
Prep Batch: 86538

Analytical Method: E 418.1
Date Analyzed: 2013-06-10
Sample Preparation: 2013-06-10

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC	U		<10.0	mg/Kg	1	10.0

Sample: 330639 - Cell 21

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 101915
Prep Batch: 86350

Analytical Method: S 8021B
Date Analyzed: 22013-05-31
Sample Preparation: 2013-05-31

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.0200	mg/Kg	1	0.0200
Toluene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qs,U	1	<0.0200	mg/Kg	1	0.0200
Xylene	Qs,U	1	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.96	mg/Kg	1	2.00	98	69.6 - 120
4-Bromofluorobenzene (4-BFB)			2.16	mg/Kg	1	2.00	108	69.2 - 120

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Sample: 330639 - Cell 21

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 102141
Prep Batch: 86538

Analytical Method: E 418.1
Date Analyzed: 2013-06-10
Sample Preparation: 2013-06-10

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
TRPHC	u		<10.0	mg/Kg	1	10.0

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Method Blanks

Method Blank (1) QC Batch: 101914

QC Batch: 101914
Prep Batch: 86349

Date Analyzed: 2013-05-31
QC Preparation: 2013-05-31

Analyzed By: JS
Prepared By: JS

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.00473	mg/Kg	0.02
Toluene		1	<0.00416	mg/Kg	0.02
Ethylbenzene		1	<0.00511	mg/Kg	0.02
Xylene		1	<0.00430	mg/Kg	0.02

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.00	mg/Kg	1	2.00	100	69.6 - 120
4-Bromofluorobenzene (4-BFB)			2.01	mg/Kg	1	2.00	100	69.2 - 120

Method Blank (1) QC Batch: 101915

QC Batch: 101915
Prep Batch: 86350

Date Analyzed: 22013-05-31
QC Preparation: 2013-05-31

Analyzed By: JS
Prepared By: JS

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.00473	mg/Kg	0.02
Toluene		1	<0.00416	mg/Kg	0.02
Ethylbenzene		1	<0.00511	mg/Kg	0.02
Xylene		1	0.00710	mg/Kg	0.02

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.92	mg/Kg	1	2.00	96	69.6 - 120
4-Bromofluorobenzene (4-BFB)			1.73	mg/Kg	1	2.00	86	69.2 - 120

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Method Blank (1) QC Batch: 102141

QC Batch: 102141
Prep Batch: 86538

Date Analyzed: 2013-06-10
QC Preparation: 2013-06-10

Analyzed By: DS
Prepared By: DS

Parameter	Flag	Cert	MDL Result	Units	RL
TRPHC			<5.72	mg/Kg	10

Method Blank (1) QC Batch: 102234

QC Batch: 102234
Prep Batch: 86620

Date Analyzed: 2013-06-12
QC Preparation: 2013-06-12

Analyzed By: JS
Prepared By: JS

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.00338	mg/Kg	0.02
Toluene		1	<0.00334	mg/Kg	0.02
Ethylbenzene		1	<0.00403	mg/Kg	0.02
Xylene		1	<0.00373	mg/Kg	0.02

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.66	mg/Kg	1	2.00	83	79.9 - 120
4-Bromofluorobenzene (4-BFB)			1.79	mg/Kg	1	2.00	90	80 - 120

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 101914
Prep Batch: 86349

Date Analyzed: 2013-05-31
QC Preparation: 2013-05-31

Analyzed By: JS
Prepared By: JS

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.91	mg/Kg	1	2.00	<0.00473	96	74.6 - 120
Toluene		1	2.00	mg/Kg	1	2.00	<0.00416	100	77.1 - 120
Ethylbenzene		1	2.02	mg/Kg	1	2.00	<0.00511	101	75 - 120
Xylene		1	6.20	mg/Kg	1	6.00	<0.00430	103	77 - 120

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	1.87	mg/Kg	1	2.00	<0.00473	94	74.6 - 120	2	20
Toluene		1	1.96	mg/Kg	1	2.00	<0.00416	98	77.1 - 120	2	20
Ethylbenzene		1	1.98	mg/Kg	1	2.00	<0.00511	99	75 - 120	2	20
Xylene		1	6.07	mg/Kg	1	6.00	<0.00430	101	77 - 120	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.91	1.96	mg/Kg	1	2.00	96	98	69.6 - 120
4-Bromofluorobenzene (4-BFB)	2.10	1.99	mg/Kg	1	2.00	105	100	69.2 - 120

Laboratory Control Spike (LCS-1)

QC Batch: 101915
Prep Batch: 86350

Date Analyzed: 22013-05-31
QC Preparation: 2013-05-31

Analyzed By: JS
Prepared By: JS

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.93	mg/Kg	1	2.00	<0.00473	96	74.6 - 120
Toluene		1	2.02	mg/Kg	1	2.00	<0.00416	101	77.1 - 120
Ethylbenzene		1	2.06	mg/Kg	1	2.00	<0.00511	103	75 - 120
Xylene		1	6.32	mg/Kg	1	6.00	0.0071	105	77 - 120

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

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Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	1.78	mg/Kg	1	2.00	<0.00473	89	74.6 - 120	8	20
Toluene		1	1.87	mg/Kg	1	2.00	<0.00416	94	77.1 - 120	8	20
Ethylbenzene		1	1.92	mg/Kg	1	2.00	<0.00511	96	75 - 120	7	20
Xylene		1	5.85	mg/Kg	1	6.00	0.0071	98	77 - 120	8	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.86	1.89	mg/Kg	1	2.00	93	94	69.6 - 120
4-Bromofluorobenzene (4-BFB)	2.05	1.75	mg/Kg	1	2.00	102	88	69.2 - 120

Laboratory Control Spike (LCS-1)

QC Batch: 102141
Prep Batch: 86538

Date Analyzed: 2013-06-10
QC Preparation: 2013-06-10

Analyzed By: DS
Prepared By: DS

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC			286	mg/Kg	1	250	<5.72	114	80 - 120

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
TRPHC			265	mg/Kg	1	250	<5.72	106	80 - 120	8	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: 102234
Prep Batch: 86620

Date Analyzed: 2013-06-12
QC Preparation: 2013-06-12

Analyzed By: JS
Prepared By: JS

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.73	mg/Kg	1	2.00	<0.00338	86	78.1 - 120
Toluene		1	1.79	mg/Kg	1	2.00	<0.00334	90	78.7 - 120
Ethylbenzene		1	1.81	mg/Kg	1	2.00	<0.00403	90	79.4 - 120
Xylene		1	5.42	mg/Kg	1	6.00	<0.00373	90	78.6 - 120

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

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Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	1.72	mg/Kg	1	2.00	<0.00338	86	78.1 - 120	1	20
Toluene		1	1.78	mg/Kg	1	2.00	<0.00334	89	78.7 - 120	1	20
Ethylbenzene		1	1.81	mg/Kg	1	2.00	<0.00403	90	79.4 - 120	0	20
Xylene		1	5.41	mg/Kg	1	6.00	<0.00373	90	78.6 - 120	0	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.65	1.64	mg/Kg	1	2.00	82	82	79.9 - 120
4-Bromofluorobenzene (4-BFB)	1.73	1.74	mg/Kg	1	2.00	86	87	80 - 120

Matrix Spike (MS-1) Spiked Sample: 330625

QC Batch: 101914
Prep Batch: 86349

Date Analyzed: 2013-05-31
QC Preparation: 2013-05-31

Analyzed By: JS
Prepared By: JS

Param			MS			Spike	Matrix		Rec.	
	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	
Benzene			1	2.27	mg/Kg	1	2.00	<0.00473	114	68.8 - 120
Toluene	Qs	Qs	1	2.53	mg/Kg	1	2.00	<0.00416	126	71.8 - 122
Ethylbenzene	Qs	Qs	1	2.68	mg/Kg	1	2.00	<0.00511	134	75 - 130
Xylene	Qs	Qs	1	8.19	mg/Kg	1	6.00	0.0055	136	75.4 - 129

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

Param			MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit	
	F	C	Result	Units								
Benzene			1	2.28	mg/Kg	1	2.00	<0.00473	114	68.8 - 120	0	20
Toluene	Qs	Qs	1	2.58	mg/Kg	1	2.00	<0.00416	129	71.8 - 122	2	20
Ethylbenzene	Qs	Qs	1	2.74	mg/Kg	1	2.00	<0.00511	137	75 - 130	2	20
Xylene	Qs	Qs	1	8.40	mg/Kg	1	6.00	0.0055	140	75.4 - 129	2	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.06	2.02	mg/Kg	1	2	103	101	69.6 - 120
4-Bromofluorobenzene (4-BFB)	2.27	2.25	mg/Kg	1	2	114	112	69.2 - 120

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Matrix Spike (MS-1) Spiked Sample: 330626

QC Batch: 101915
Prep Batch: 86350

Date Analyzed: 22013-05-31
QC Preparation: 2013-05-31

Analyzed By: JS
Prepared By: JS

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene			1	2.19	mg/Kg	1	2.00	<0.00473	110 68.8 - 120
Toluene	Qs	Qs	1	2.48	mg/Kg	1	2.00	<0.00416	124 71.8 - 122
Ethylbenzene	Qs	Qs	1	2.63	mg/Kg	1	2.00	<0.00511	132 75 - 130
Xylene	Qs	Qs	1	8.10	mg/Kg	1	6.00	0.0064	135 75.4 - 129

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene			1	2.28	mg/Kg	1	2.00	<0.00473	114 68.8 - 120	4	20
Toluene	Qs	Qs	1	2.57	mg/Kg	1	2.00	<0.00416	128 71.8 - 122	4	20
Ethylbenzene	Qs	Qs	1	2.76	mg/Kg	1	2.00	<0.00511	138 75 - 130	5	20
Xylene	Qs	Qs	1	8.46	mg/Kg	1	6.00	0.0064	141 75.4 - 129	4	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.10	2.05	mg/Kg	1	2	105	102	69.6 - 120
4-Bromofluorobenzene (4-BFB)	2.21	2.26	mg/Kg	1	2	110	113	69.2 - 120

Matrix Spike (MS-1) Spiked Sample: 330623

QC Batch: 102141
Prep Batch: 86538

Date Analyzed: 2013-06-10
QC Preparation: 2013-06-10

Analyzed By: DS
Prepared By: DS

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC				238	mg/Kg	1	250	7.14	92 80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
TRPHC				250	mg/Kg	1	250	7.14	97 80 - 120	5	20

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

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Calibration Standards

Standard (CCV-1)

QC Batch: 101914

Date Analyzed: 2013-05-31

Analyzed By: JS

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0961	96	80 - 120	2013-05-31
Toluene		1	mg/kg	0.100	0.101	101	80 - 120	2013-05-31
Ethylbenzene		1	mg/kg	0.100	0.102	102	80 - 120	2013-05-31
Xylene		1	mg/kg	0.300	0.310	103	80 - 120	2013-05-31

Standard (CCV-2)

QC Batch: 101914

Date Analyzed: 2013-05-31

Analyzed By: JS

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0970	97	80 - 120	2013-05-31
Toluene		1	mg/kg	0.100	0.103	103	80 - 120	2013-05-31
Ethylbenzene		1	mg/kg	0.100	0.102	102	80 - 120	2013-05-31
Xylene		1	mg/kg	0.300	0.312	104	80 - 120	2013-05-31

Standard (CCV-3)

QC Batch: 101914

Date Analyzed: 2013-05-31

Analyzed By: JS

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0902	90	80 - 120	2013-05-31
Toluene		1	mg/kg	0.100	0.0935	94	80 - 120	2013-05-31
Ethylbenzene		1	mg/kg	0.100	0.0952	95	80 - 120	2013-05-31
Xylene		1	mg/kg	0.300	0.290	97	80 - 120	2013-05-31

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Standard (CCV-1)

QC Batch: 101915

Date Analyzed: 22013-05-31

Analyzed By: JS

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0927	93	80 - 120	22013-05-31
Toluene		1	mg/kg	0.100	0.0974	97	80 - 120	22013-05-31
Ethylbenzene		1	mg/kg	0.100	0.0990	99	80 - 120	22013-05-31
Xylene		1	mg/kg	0.300	0.301	100	80 - 120	22013-05-31

Standard (CCV-2)

QC Batch: 101915

Date Analyzed: 22013-05-31

Analyzed By: JS

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0962	96	80 - 120	22013-05-31
Toluene		1	mg/kg	0.100	0.101	101	80 - 120	22013-05-31
Ethylbenzene		1	mg/kg	0.100	0.102	102	80 - 120	22013-05-31
Xylene		1	mg/kg	0.300	0.311	104	80 - 120	22013-05-31

Standard (CCV-3)

QC Batch: 101915

Date Analyzed: 22013-05-31

Analyzed By: JS

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0909	91	80 - 120	22013-05-31
Toluene		1	mg/kg	0.100	0.0941	94	80 - 120	22013-05-31
Ethylbenzene		1	mg/kg	0.100	0.0954	95	80 - 120	22013-05-31
Xylene		1	mg/kg	0.300	0.290	97	80 - 120	22013-05-31

Standard (CCV-1)

QC Batch: 102141

Date Analyzed: 2013-06-10

Analyzed By: DS

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Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	87.0	87	80 - 120	2013-06-10

Standard (CCV-2)

QC Batch: 102141

Date Analyzed: 2013-06-10

Analyzed By: DS

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	86.3	86	80 - 120	2013-06-10

Standard (CCV-3)

QC Batch: 102141

Date Analyzed: 2013-06-10

Analyzed By: DS

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	87.8	88	80 - 120	2013-06-10

Standard (CCV-4)

QC Batch: 102141

Date Analyzed: 2013-06-10

Analyzed By: DS

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC			mg/Kg	100	97.8	98	80 - 120	2013-06-10

Standard (CCV-1)

QC Batch: 102234

Date Analyzed: 2013-06-12

Analyzed By: JS

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Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0873	87	80 - 120	2013-06-12
Toluene		1	mg/kg	0.100	0.0900	90	80 - 120	2013-06-12
Ethylbenzene		1	mg/kg	0.100	0.0915	92	80 - 120	2013-06-12
Xylene		1	mg/kg	0.300	0.272	91	80 - 120	2013-06-12

Standard (CCV-2)

QC Batch: 102234

Date Analyzed: 2013-06-12

Analyzed By: JS

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.0840	84	80 - 120	2013-06-12
Toluene		1	mg/kg	0.100	0.0871	87	80 - 120	2013-06-12
Ethylbenzene		1	mg/kg	0.100	0.0907	91	80 - 120	2013-06-12
Xylene		1	mg/kg	0.300	0.266	89	80 - 120	2013-06-12

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Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-13-9	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Result Comments

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- 1 Dilution due to surfactants.
- 2 Dilution due to surfactants.

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

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Project Name: GML Land Farm

Sampler Signature: [Signature]

Project Location (including state):

Box 1658 Roswell, NM 88202

Box 4, 5, 8, 9 T.I.S. R.31E. New Mexico

Company Name:

Bandy Marley Inc.

Address: (Street, City, Zip)

Box 1658 Roswell, NM 88202

Contact Person:

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Project #:

131

Project Location (including state):

Box 4, 5, 8, 9 T.I.S. R.31E. New Mexico

Project Name:

GML Land Farm

Sampler Signature:

[Signature]

Project Location (including state):

Box 4, 5, 8, 9 T.I.S. R.31E. New Mexico

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Box 4, 5, 8, 9 T.I.S. R.31E. New Mexico

Box 4, 5, 8, 9 T.I.S. R.31E. New Mexico

Box 4, 5, 8, 9 T.I.S. R.31E. New Mexico

Box 4, 5, 8, 9 T.I.S. R.31E. New Mexico

Box 4, 5, 8, 9 T.I.S. R.31E. New Mexico

Box 4, 5, 8, 9 T.I.S. R.31E. New Mexico

Box 4, 5, 8, 9 T.I.S. R.31E. New Mexico

Box 4, 5, 8, 9 T.I.S. R.31E. New Mexico

Box 4, 5, 8, 9 T.I.S. R.31E. New Mexico

Box 4, 5, 8, 9 T.I.S. R.31E. New Mexico

Box 4, 5, 8, 9 T.I.S. R.31E. New Mexico

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ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB #	FIELD CODE	# CONTAINERS	VOLUME / AMOUNT	MATRIX	PRESERVATIVE METHOD	SAMPLING	DATE	TIME	MTBE	BTEX	TPH	PAH	Total Metals	TCLP	TCLP	TCLP	TCLP	GC/MS	GC/MS	PCBs	Pesticides	BOD	Moisture	CI, FI, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC	Turn Around Time
330623	Cell 1	1	400L	WATER	SOIL	AIR	SLUDGE																			
624	Cell 2																									
625	Cell 3																									
626	Cell 4																									
627	Cell 5																									
628	Cell 7																									
629	Cell 9																									
630	Cell 10																									
631	Cell 11																									
632	Cell 12																									
633	Cell 13																									

LAB USE ONLY	REMARKS:
Inst <input checked="" type="checkbox"/> N Headspace <input checked="" type="checkbox"/> N Log-in-Review <input checked="" type="checkbox"/>	Please Send Copy of Results Asap To: Cimbenvine cable one.net

Carrier # 7998 0638 6576

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 537519

CONDITIONS

Operator: GANDY MARLEY INC PO Box 1658 Roswell, NM 88202	OGRID: 195280
	Action Number: 537519
	Action Type: [C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS

Created By	Condition	Condition Date
joseph.kennedy	Records retention only	12/24/2025