

Soil Boring # 1; Soil Boring Log

QUAD THREE GROUP, INC.				SOIL BORING LOGS	
Project: Rosemergy's				Date Started: June 28, 2011	
Client: Bluestone Environmental / Woodloch				Date Finished: June 28, 2011	
Purpose: Phase II Assessment					
Contractor: GEA INC.				Boring Number: SB - 001	
Driller: James Strickland				Job Number: 10807.01	
Geologist: James Strickland				Sheet: 1	
Time Log	Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
	8:50 AM	9:10 AM	4 feet bgs		
Depth (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes
0	1		Recovered: 75% PID : 1383 ppm @ 4' bgs Strong odor	0.0 to 4.0 1' fill material, 2' gray fine sand	Sample obtained at 4'bgs at 9:20 AM
1					
2					
3					
4					
4	--				
5					
6					
7					
8					
8	--				
9					
10					
11					
12					
12	--				
13					
14					
15					
16					
16	--				
17					
18					
19					
20					

Soil Boring # 2; Soil Boring Log

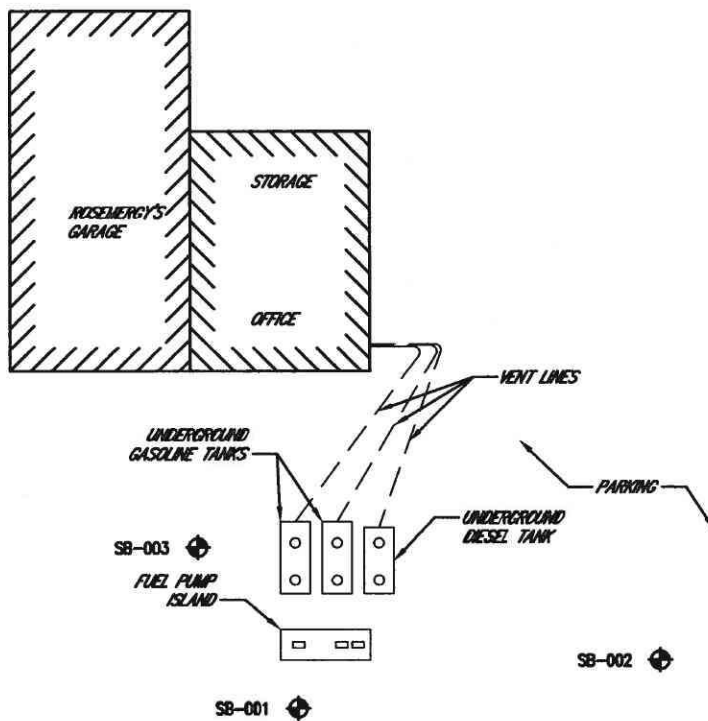
QUAD THREE GROUP, INC.				SOIL BORING LOGS		
Project: Rosemergy's				Date Started: June 28, 2011		
Client: Bluestone Environmental / Woodloch				Date Finished: June 28, 2011		
Purpose: Phase II Assessment						
Contractor: GEA INC.				Boring Number: SB - 002		
Driller: James Strickland				Job Number: 10807.01		
Geologist: James Strickland				Sheet: 1		
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		10:00 AM	10:30 AM	8 feet bgs		
Depth (feet)	Sample No's	Blow Counts	Visual Log Description		Lithologic Description	Notes
0	Sample Obtained at 4' bgs		Recovered: 90% PID : 34.9 ppm @ 4' bgs Slight odor		0.0 to 4.0 2.5' red fill, 1.25' gray silt with trace sand	Sampled obtained at 4' bgs Sample Time: 10:30 AM
1						
2						
3						
4	No Sample Obtained		Recovered: 100% PID: 1.6 ppm @ 5' bgs		4.0 to 8.0 2' saturated gray silt, 2' brown gravely silt with trace clay (native soil)	
4						
5						
6						
7	--					
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19	--					
20						

Soil Boring # 3; Soil Boring Log

QUAD THREE GROUP, INC.				SOIL BORING LOGS		
Project: Rosemergy's				Date Started: June 28, 2011		
Client: Bluestone Environmental / Woodloch				Date Finished: June 28, 2011		
Purpose: Phase II Assessment						
Contractor: GEA INC.				Boring Number: SB - 003		
Driller: James Strickland				Job Number: 10807.01		
Geologist: James Strickland				Sheet: 1		
Time Log		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		10:30 AM	10:40 AM	11.5 feet bgs		
Depth (feet)	Sample No's	Blow Counts	Visual Log Description	Lithologic Description	Notes	
0 1 2 3 4	No Sample obtained		Recovered: 80% PID : 0.0 ppm Slight odor	0.0 to 4.0 Gray silt		
4 5 6 7 8	Sample obtained at 8' bgs		Recovered: 75% PID: 1888 ppm @ 8' bgs Strong odor	4.0 to 8.0 1' Gray silt with trace gravel, 2' of brown gravely silt with trace clay	Sampled obtained at 8' bgs Sample Time: 11:00 AM	
8 9 10 11 12	--		Recovered: 75% PID: 1740ppm @ 11.5' bgs Strong odor	8.0 to 12.0 Wet brown gravely silt Refusal at 11.5'		
12 13 14 15 16	--					
16 17 18 19 20	--					



SITE



PENNSYLVANIA ROUTE 590

CHECK GRAPHIC SCALE BEFORE USING

SCALE IN FEET



Architecture
Engineering
Environmental
Services
phone 570.829.4300
fax 570.829.1302
web www.quad3.com

SOIL
BORINGS

ROSEMERGY'S
GARAGE

PENNSYLVANIA ROUTE 590
HAWLAY, LACKAWAXEN TOWNSHIP
PIKE COUNTY, PA 18428

SCALE: 1" = 20'
DRAWN BY: RAY
ARCH/ENG: DN
DATE: 09/02/2011
JOB NUMBER: 10807.01
DRAWING NO.
SB-1

FAIRWAY LABORATORIES
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Quad 3	Project: ROSEMERGY'S	
72 Glenmaura National Rd	Project Number: [none]	Reported:
Moosic PA, 18507	Collector: DN	07/05/11 14:50
Project Manager: Dan Nealon	Number of Containers: 17	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-001 4'	1F29011-01	Soil	06/28/11 09:20	06/29/11 10:40
SB-002 4'	1F29011-02	Soil	06/28/11 10:30	06/29/11 10:40
SB-003 8'	1F29011-03	Soil	06/28/11 11:00	06/29/11 10:40
SB-001	1F29011-04	Water	06/28/11 09:15	06/29/11 10:40

No analysis checked on COC. CB

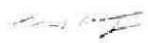
Client contacted, analysis given via phone. CB/ACC 6/29/11 11:38

06/30/11 Per client unable to filter water sample. Ok to run total lead. acc.

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Reviewed and Submitted by:



Michael P. Tyler
Laboratory Director

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Quad 3	Project: ROSEMERGY'S	
72 Glenmaura National Rd	Project Number: [none]	Reported:
Moosic PA, 18507	Collector: DN	07/05/11 14:50
Project Manager: Dan Nealon	Number of Containers: 17	

Client Sample ID: SB-001 4' Date/Time Sampled: 06/28/11 09:20
 Laboratory Sample ID: 1F29011-01 (Soil)

Analyte	Result	Laboratory Reporting		Date / Time		Method	Analyst	Note
		Limit	Units	Analyzed				

Metals by EPA 6000/7000 Series Methods

Lead	20.2	1.16	mg/kg dry wt.	07/01/11 07:04	EPA 6010B	rb	
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	55.0	4.28	mg/kg dry	07/01/11 18:23	EPA 8260B	mf	V8
1,2,4-Trimethylbenzene	230	42.8	mg/kg dry	07/01/11 19:01	EPA 8260B	mf	
Benzene	18.9	1.71	mg/kg dry	07/01/11 18:23	EPA 8260B	mf	
Toluene	208	42.8	mg/kg dry	07/01/11 19:01	EPA 8260B	mf	
Ethylbenzene	70.4	4.28	mg/kg dry	07/01/11 18:23	EPA 8260B	mf	
Xylenes (total)	463	85.6	mg/kg dry	07/01/11 19:01	EPA 8260B	mf	
Isopropylbenzene	20.8	4.28	mg/kg dry	07/01/11 18:23	EPA 8260B	mf	V8
Methyl tert-butyl ether	<0.43	0.43	mg/kg dry	06/30/11 15:21	EPA 8260B	mf	V8
Naphthalene	22.2	4.28	mg/kg dry	07/01/11 18:23	EPA 8260B	mf	
1,2-Dibromoethane (EDB)	<0.17	0.17	mg/kg dry	06/30/11 15:21	EPA 8260B	mf	
1,2-Dichloroethane	<0.17	0.17	mg/kg dry	06/30/11 15:21	EPA 8260B	mf	V8
Surrogate: 4-Bromofluorobenzene	170 %	70-130		06/30/11 15:21	EPA 8260B	mf	SR
Surrogate: 1,2-Dichloroethane-d4	68 %	70-130		06/30/11 15:21	EPA 8260B	mf	SR
Surrogate: Fluorobenzene	70 %	70-130		06/30/11 15:21	EPA 8260B	mf	SR

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	75.6	0.0100	%	06/29/11 16:30	SM 2540G	RH
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Quad 3	Project: ROSEMERGY'S	
72 Glenmaura National Rd	Project Number: [none]	Reported:
Moosic PA, 18507	Collector: DN	07/05/11 14:50
Project Manager: Dan Nealon	Number of Containers: 17	

Client Sample ID: SB-002 4' Date/Time Sampled: 06/28/11 10:30
 Laboratory Sample ID: 1F29011-02 (Soil)

Analyte	Result	Laboratory Reporting		Date / Time		Method	Analyst	Note
		Limit	Units	Analyzed				

Metals by EPA 6000/7000 Series Methods

Lead	19.3	1.17	mg/kg dry wt.	07/01/11 07:15	EPA 6010B	rb	
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Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	<0.46	0.46	mg/kg dry	06/30/11 16:00	EPA 8260B	mf	V8
1,2,4-Trimethylbenzene	1.08	0.46	mg/kg dry	06/30/11 16:00	EPA 8260B	mf	
Benzene	<0.18	0.18	mg/kg dry	06/30/11 16:00	EPA 8260B	mf	
Toluene	<0.46	0.46	mg/kg dry	06/30/11 16:00	EPA 8260B	mf	
Ethylbenzene	<0.46	0.46	mg/kg dry	06/30/11 16:00	EPA 8260B	mf	
Xylenes (total)	1.24	0.92	mg/kg dry	06/30/11 16:00	EPA 8260B	mf	
Isopropylbenzene	<0.46	0.46	mg/kg dry	06/30/11 16:00	EPA 8260B	mf	V8
Methyl tert-butyl ether	<0.46	0.46	mg/kg dry	06/30/11 16:00	EPA 8260B	mf	V8
Naphthalene	<0.46	0.46	mg/kg dry	06/30/11 16:00	EPA 8260B	mf	
1,2-Dibromoethane (EDB)	<0.18	0.18	mg/kg dry	06/30/11 16:00	EPA 8260B	mf	
1,2-Dichloroethane	<0.18	0.18	mg/kg dry	06/30/11 16:00	EPA 8260B	mf	V8
Surrogate: 4-Bromofluorobenzene	100 %	70-130		06/30/11 16:00	EPA 8260B	mf	
Surrogate: 1,2-Dichloroethane-d4	56 %	70-130		06/30/11 16:00	EPA 8260B	mf	SR
Surrogate: Fluorobenzene	67 %	70-130		06/30/11 16:00	EPA 8260B	mf	SR

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	74.3	0.0100	%	06/29/11 16:30	SM 2540G	RH	
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Quad 3	Project: ROSEMERGY'S	
72 Glenmaura National Rd	Project Number: [none]	Reported:
Moosic PA, 18507	Collector: DN	07/05/11 14:50
Project Manager: Dan Nealon	Number of Containers: 17	

Client Sample ID: SB-003 8' Date/Time Sampled: 06/28/11 11:00

Laboratory Sample ID: 1F29011-03 (Soil)

Analyte	Result	Laboratory Reporting		Date / Time		Method	Analyst	Note
		Limit	Units	Analyzed				

Metals by EPA 6000/7000 Series Methods

Lead	8.36	0.965	mg/kg dry wt.	07/01/11 07:26	EPA 6010B	rb	
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Volatile Organic Compounds by EPA Method 8260B

							L10, V6
1,3,5-Trimethylbenzene	17.6	3.41	mg/kg dry	07/01/11 19:40	EPA 8260B	mf	V8
1,2,4-Trimethylbenzene	57.9	3.41	mg/kg dry	07/01/11 19:40	EPA 8260B	mf	
Benzene	11.9	1.36	mg/kg dry	07/01/11 19:40	EPA 8260B	mf	
Toluene	78.3	34.1	mg/kg dry	07/01/11 20:20	EPA 8260B	mf	
Ethylbenzene	26.1	3.41	mg/kg dry	07/01/11 19:40	EPA 8260B	mf	
Xylenes (total)	129	6.82	mg/kg dry	07/01/11 19:40	EPA 8260B	mf	
Isopropylbenzene	7.89	3.41	mg/kg dry	07/01/11 19:40	EPA 8260B	mf	V8
Methyl tert-butyl ether	<0.34	0.34	mg/kg dry	06/30/11 16:39	EPA 8260B	mf	V8
Naphthalene	8.01	3.41	mg/kg dry	07/01/11 19:40	EPA 8260B	mf	
1,2-Dibromoethane (EDB)	<0.14	0.14	mg/kg dry	06/30/11 16:39	EPA 8260B	mf	
1,2-Dichloroethane	<0.14	0.14	mg/kg dry	06/30/11 16:39	EPA 8260B	mf	V8
Surrogate: 4-Bromofluorobenzene	139 %	70-130		06/30/11 16:39	EPA 8260B	mf	SR
Surrogate: 1,2-Dichloroethane-d4	64 %	70-130		06/30/11 16:39	EPA 8260B	mf	SR
Surrogate: Fluorobenzene	78 %	70-130		06/30/11 16:39	EPA 8260B	mf	

Conventional Chemistry Parameters by SM/EPA Methods

% Solids	90.4	0.0100	%	06/29/11 16:30	SM 2540G	RH
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Quad 3	Project: ROSEMERGY'S	
72 Glenmaura National Rd	Project Number: [none]	Reported:
Moosic PA, 18507	Collector: DN	07/05/11 14:50
Project Manager: Dan Nealon	Number of Containers: 17	

Client Sample ID: SB-001 **Date/Time Sampled:** 06/28/11 09:15
Laboratory Sample ID: 1F29011-04 (Water)

Analyte	Result	Laboratory Reporting Limit	Units	Date / Time		Method	Analyst	Note
				Analyzed				

Metals by EPA 200 Series Methods

Lead	0.492	0.0500	mg/l	07/02/11 00:03	EPA 200.7	rb
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EDB by EPA Method 504.1

1,2-Dibromoethane (EDB)	0.0606	0.0200	ug/l	07/01/11 19:02	EPA 504.1	bw	D1, E2
<i>Surrogate: 1-Chloro-2-fluorobenzene</i>	105 %	70-130		07/01/11 19:02	EPA 504.1	bw	

Volatile Organic Compounds by EPA Method 8260B

1,3,5-Trimethylbenzene	576	10.0	ug/l	06/29/11 18:03	EPA 8260B	wm
1,2,4-Trimethylbenzene	3110	100	ug/l	06/30/11 14:47	EPA 8260B	wm
Benzene	31900	500	ug/l	06/30/11 14:08	EPA 8260B	wm
Toluene	43000	500	ug/l	06/30/11 14:08	EPA 8260B	wm
Ethylbenzene	3880	100	ug/l	06/30/11 14:47	EPA 8260B	wm
Xylenes (total)	18800	200	ug/l	06/30/11 14:47	EPA 8260B	wm
Isopropylbenzene	324	10.0	ug/l	06/29/11 18:03	EPA 8260B	wm
Methyl tert-butyl ether	<10.0	10.0	ug/l	06/29/11 18:03	EPA 8260B	wm
Naphthalene	591	10.0	ug/l	06/29/11 18:03	EPA 8260B	wm
1,2-Dichloroethane	<10.0	10.0	ug/l	06/29/11 18:03	EPA 8260B	wm
<i>Surrogate: 4-Bromofluorobenzene</i>	95.9 %	70-130		06/29/11 18:03	EPA 8260B	wm
<i>Surrogate: 1,2-Dichloroethane-d4</i>	109 %	70-130		06/29/11 18:03	EPA 8260B	wm
<i>Surrogate: Fluorobenzene</i>	104 %	70-130		06/29/11 18:03	EPA 8260B	wm

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Quad 3

72 Glenmaura National Rd

Moosic PA, 18507

Project Manager: Dan Nealon

Project: ROSEMERGY'S

Project Number: [none]

Collector: DN

Number of Containers: 17

Reported:

07/05/11 14:50

Notes

- V8 LCS value was outside the QC range. Data accepted based on acceptable check standard.
- V6 VOC vial contained more than the EPA recommended amount of soil.
- SR The surrogate recovery was outside the established control limits. The data was accepted based on acceptable batch QC.
- L10 This sample was analyzed at a dilution due to the matrix. Reporting limits were adjusted accordingly.
- E2 Sample preparation for this analysis was completed on:
7-1-11 @ 11:57
- D1 The RPD result exceeded the QC control limits for the duplicate sample analyzed.

Please print. See back of COC for instructions/terms and conditions.



Phone: (814) 946-4306
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Page 1 of 1

Page 7 of 8

White Original - FLI File Canary - Customer Mailing/Report Pink - Customer Receipt Copy

Page of

U.S.

Lab # 1F29011-u

Intact? 2

COC/Labels on bottles agree?

☐ * Correct containers for all the analysis requested?

☐ * Matrix: WATER / SOLID

[illegible]

☐ * Any "NO" Client to be contacted: 02/11/18
Client contacted by: EMR Date/Time: 11:56
Discussion and Outcome: _____

Name of Client spoken to: John

NO ANALYSIS CHECKED ON LOC

musis checked on cc