

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

**FORMER GROVE CITY LUMBERYARD
4035 BROADWAY AVENUE
GROVE CITY, FRANKLIN COUNTY, OHIO**

Report to:

**THE STONEHENGE COMPANY
GAHANNA, OHIO**

Prepared by:

**BBC&M ENGINEERING, INC.
ENVIRONMENTAL SERVICES
COLUMBUS, OHIO**

March 23, 2009





March 23, 2009
011-12161-E00

Ms. Nicci Crocker
The Stonehenge Company
147 North High Street
Gahanna, Ohio 43230

Re: Limited Phase II Environmental Site Assessment
Former Grove City Lumberyard – 4035 Broadway Avenue
Grove City, Franklin County, Ohio

Ms. Crocker:

In accordance with our proposal dated February 23, 2009 and authorization on March 6, 2009, BBC&M Engineering, Inc. (BBCM) has completed a Limited Phase II Environmental Site Assessment of the above-referenced Property. A report of our findings is herewith submitted.

We appreciate having the opportunity to be of service to you on this project. Please call us at (614) 793-2226 if you have questions about this report.

Respectfully submitted,

BBC&M ENGINEERING, INC.
Columbus, Ohio

A handwritten signature in blue ink that reads "Eric P. Slosser".

Eric P. Slosser
Project Environmental Scientist

A handwritten signature in blue ink that reads "Mary E. Sharrett".

Mary E. Sharrett, P.E., LEED® AP
Senior Engineer

Submitted: 2 hard copies; 1 electronic copy (.pdf)

EXECUTIVE SUMMARY

BBC&M Engineering, Inc. (BBCM) has conducted the Limited Phase II Environmental Site Assessment (ESA) for the Former Grove City Lumberyard addressed as 4035 Broadway Avenue in Grove City, Franklin County, Ohio the "Property." The Property is 3.67-acres in area and is developed with a two-story, 12,784 ft² office building occupied by the Grove City City Hall, and an associated parking lot. The building was constructed during 1989.

The Limited Phase II ESA was conducted to investigate the potential that the soil and/or groundwater at the Property has been impacted from two former adjacent gasoline filling stations.

Five direct-push borings were completed at the Property, three on the southeastern corner of the Property near the adjacent former gasoline filling station to the south and two on the northeastern corner of the Property to investigate the adjacent former gasoline filling station to the north. One soil sample from each boring (five total) was submitted to a laboratory for chemical analysis.

Chemicals of concern (COCs) included benzene, toluene, ethylbenzene, and xylenes (BTEX) plus Methyl Tertiary Butyl Ether (MTBE) and total petroleum hydrocarbons (TPH) Gasoline Range Organics (GRO) C6-C12. BTEX/MTBE and TPH GRO compounds were not detected in the soil samples analyzed from borings.

The executive summary has been prepared solely to provide a general overview. Do not rely on this executive summary for any purpose except for which it was prepared. Please refer to the full report for information about findings, recommendations, or other concerns.

TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	SCOPE OF WORK	1
3.0	METHODOLOGY	1
3.1	Soil Borings	1
3.2	Soil Sample Collection	2
3.3	Groundwater Sample Collection.....	2
3.4	Field Screening and Sample Selection Procedures	2
3.5	Analytical Methods	3
3.6	Quality Assurance/Quality Control (QA/QC)	3
4.0	RESULTS	4
4.1	Boring Log Descriptions	4
4.2	Analytical Results	4
5.0	CONCLUSIONS	4
6.0	LIMITATIONS	4

TABLE OF APPENDICES

Appendix A

Vicinity Map

Plan of Borings

Appendix B

Explanation of Symbols and Terms Used on Boring Logs

Boring Logs

Appendix C

Laboratory Data Sheets

Chain of Custody

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT
Former Grove City Lumberyard – 4035 Broadway Avenue
Grove City, Franklin County, Ohio

1.0 INTRODUCTION

BBC&M Engineering, Inc. (BBCM) has conducted a Limited Phase II Environmental Site Assessment (ESA) for the “Property” located at 4035 Broadway Avenue, in Grove City, Franklin County, Ohio. The Property is 3.67-acres in area and is developed with a two-story, 12,784 ft² office building occupied by the Grove City City Hall, and an associated parking lot. The building was constructed during 1989. The approximate location of the Property is indicated on the Vicinity Map (Appendix A) and Property features and the direct push boring locations are indicated on the Plan of Borings (Appendix A).

A Phase I ESA was conducted on the Property (report dated January 22, 2009) by others. Historical research for the Phase I ESA indicated a BP gasoline station (4021 Broadway Avenue) was formerly located adjacent to the northeast portion of the Property and a Texaco gasoline station (3449 Grove City Road) was formerly located adjacent to the southeastern portion of the Property. The two former gasoline stations are included in the Leaking Underground Storage Tank (LUST) database and the status of both incidents was reported as “active.” The Phase I ESA recommended that a Phase II ESA be conducted to investigate the potential for soil and/or groundwater contamination from the two adjacent former gasoline filling stations.

2.0 SCOPE OF WORK

The purpose of the Limited Phase II ESA is to attempt to determine if the soil and/or groundwater at the Property have been impacted by petroleum constituents from the adjacent former gasoline filling stations.

BBCM had proposed six direct push borings on the Property (three on the southeastern and three on the northeastern portion of the Property). However, due to limited access on the northeastern portion of the Property, the scope was modified in the field to include two borings on the northeastern side of the Property (five total borings). Chemicals of concern (COCs) associated with the adjacent gasoline filling stations are benzene, toluene, ethylbenzene, and xylenes (BTEX) plus methyl tertiary butyl ether (MTBE) and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) C₆-C₁₂.

3.0 METHODOLOGY

3.1 Soil Borings

On March 11, 2009, five direct push borings (B-1 through B-5) were completed using a 6600 truck-mounted Geoprobe® unit. The following table summarizes the borings and locations.

SUMMARY OF BORING LOCATIONS FORMER GROVE CITY LUMBERYARD, FRANKLIN COUNTY, OHIO		
Boring ID	Depth (feet)	Location
B-1, B-2, and B-3	20	Southeast corner of the Property to investigate the potential for contamination from the adjacent former Texaco gasoline filling station.
B-4 and B-5	20	Northeast corner of the Property to investigate the potential for contamination from the adjacent former BP gasoline filling station.

The Geoprobe® collects soil samples by hydraulically “pushing” an approximately 2.625-inch inner-diameter by 3.25 inch outer diameter, 4-foot long stainless steel sampling rod into subsurface soils. As the barrel is advanced through the sample interval, the soil sample is captured in a new, disposable, plastic tube-liner inside the barrel. Prior to arrival at the Property and between uses, non-disposable down-hole sampling equipment was cleaned with potable water and detergent and rinsed with potable water. The borings were terminated at depths of 20 feet below the ground surface.

BBCM personnel observed drilling procedures, collected and preserved soil samples, and prepared a log of the borings. The approximate locations of the direct push borings are indicated on the Plan of Borings (Appendix A). The boring logs and an explanation of the symbols and terms are included in Appendix B.

3.2 Soil Sample Collection

One portion of each two-foot soil sample was placed in an air-tight plastic bag, and the other portion was placed in an air-tight glass jar with a Teflon-lined lid (jars supplied by the testing laboratory). The bag portion of each sample was set aside to “warm up” before being screened for the presence of volatile organics (refer to Section 3.4).

Each jar portion of the soil sample was placed on ice in a cooler to maintain an approximate temperature of four degrees Celsius. The jar portion of a selected sample was transported (on ice) to an analytical laboratory. New disposable Nitrile gloves were worn during each sample collection.

3.3 Groundwater Sample Collection

Groundwater was not encountered in the borings; therefore, groundwater samples were not collected.

3.4 Field Screening and Sample Selection Procedures

The bag portion of each sample was field screened by BBCM using a Thermo Model 580B photo-ionization detector (PID) equipped with a 10.6 electron-volt lamp. Each soil sample was screened by inserting the probe of the instrument into the “headspace” of the plastic bag and recording the peak reading for the sample. The following table summarizes the PID readings.

SUMMARY OF PID FIELD SCREENING READINGS FORMER GROVE CITY LUMBERYARD, FRANKLIN COUNTY, OHIO (all results in Parts Per Million (ppm))						
Sample	Depth (feet)	Boring ID				
		B-1	B-2	B-3	B-4	B-5
S-1	0-2	0	0	0	0	0
S-2	2-4	0	0	0	0	0
S-3	4-6	0	0*	0	0	0*
S-4	6-8	0	0	0	0	0
S-5	8-10	0	0	0	0*	0
S-6	10-12	0	0	0*	0	0
S-7	12-14	0	0	0	0	0
S-8	14-16	0	0	0	0	0
S-9	16-18	0	0	0	0	0
S-10	18-20	0*	0	0	0	0

* indicate a sample submitted for laboratory analysis.

One soil sample from each boring (five total) exhibiting the highest PID reading above the water table was submitted for laboratory analysis. When soil samples had similar PID readings, other factors such as odors, depth at which impacts were anticipated, and groundwater depth were used to select samples for laboratory analysis.

3.5 Analytical Methods

The selected soil samples were delivered in a cooler with ice to Advanced Analytics Laboratories, Inc. in Columbus, Ohio. A summary of the chemical analysis performed on the soil samples is provided in the following table.

SUMMARY OF ANALYSIS FORMER GROVE CITY LUMBERYARD, FRANKLIN COUNTY, OHIO	
Boring ID	Analysis
B-1 through B-5	BTEX & MTBE and TPH C6-C12
BTEX – Benzene, Toluene, Ethylbenzene, and Xylenes using EPA Method 8260	
MTBE – Methyl Tertiary Butyl Ether using EPA Method 8260	
TPH C6-C12 – Total Petroleum Hydrocarbons – Gasoline Range Organics using EPA Method 8015	

3.6 Quality Assurance/Quality Control (QA/QC)

Decontamination Procedures

Down-hole equipment (augers, rods, etc.) used for drilling were decontaminated before arrival at the Property. At the Property, non-dedicated soil sampling equipment was cleaned before each use with potable water and detergent and rinsed with potable water.

Chain of Custody

A chain-of-custody form accompanied the samples to the laboratory and a copy is included in Appendix C.

Analytical Laboratory QA/QC

Standard laboratory QA/QC procedures were conducted by the analytical laboratory. Advanced Analytics Labs attests that all analytical methods were performed using acceptable methods, and that the QA/QC procedures stipulated in these methods were followed. The surrogate recovery was outside the acceptance limit for one surrogate recovery.

4.0 RESULTS

4.1 Boring Log Descriptions

In general, the borings encountered two to six inches of topsoil over cohesive soil with some granular seams to depths of 20.0 feet. Seepage was encountered in Borings B-2 and B-5; however, groundwater was not encountered. Borings B-1, B-3, and B-4 were “dry” during drilling. Petroleum odors were not noted in the soil samples.

4.2 Analytical Results

Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX) and Methyl Tert-Butyl Ether (MTBE) - Soil

One soil sample from each boring (five total) were analyzed for the BTEX and MTBE. BTEX and MTBE were not detected in the samples analyzed.

Total Petroleum Hydrocarbons (TPH) Gasoline Range Organics (GRO) C6-C12 - Soil

One soil sample from each borings (five total) were analyzed for TPH-GRO C6-C12. TPH-GRO constituents were not detected in samples analyzed.

5.0 CONCLUSIONS

Findings

COCs were not detected above the laboratory detection limits in the five soil samples analyzed.

Conclusions

Based on the laboratory analysis and field observations, no additional investigation is recommended into the two adjacent former gasoline filling stations.

6.0 LIMITATIONS

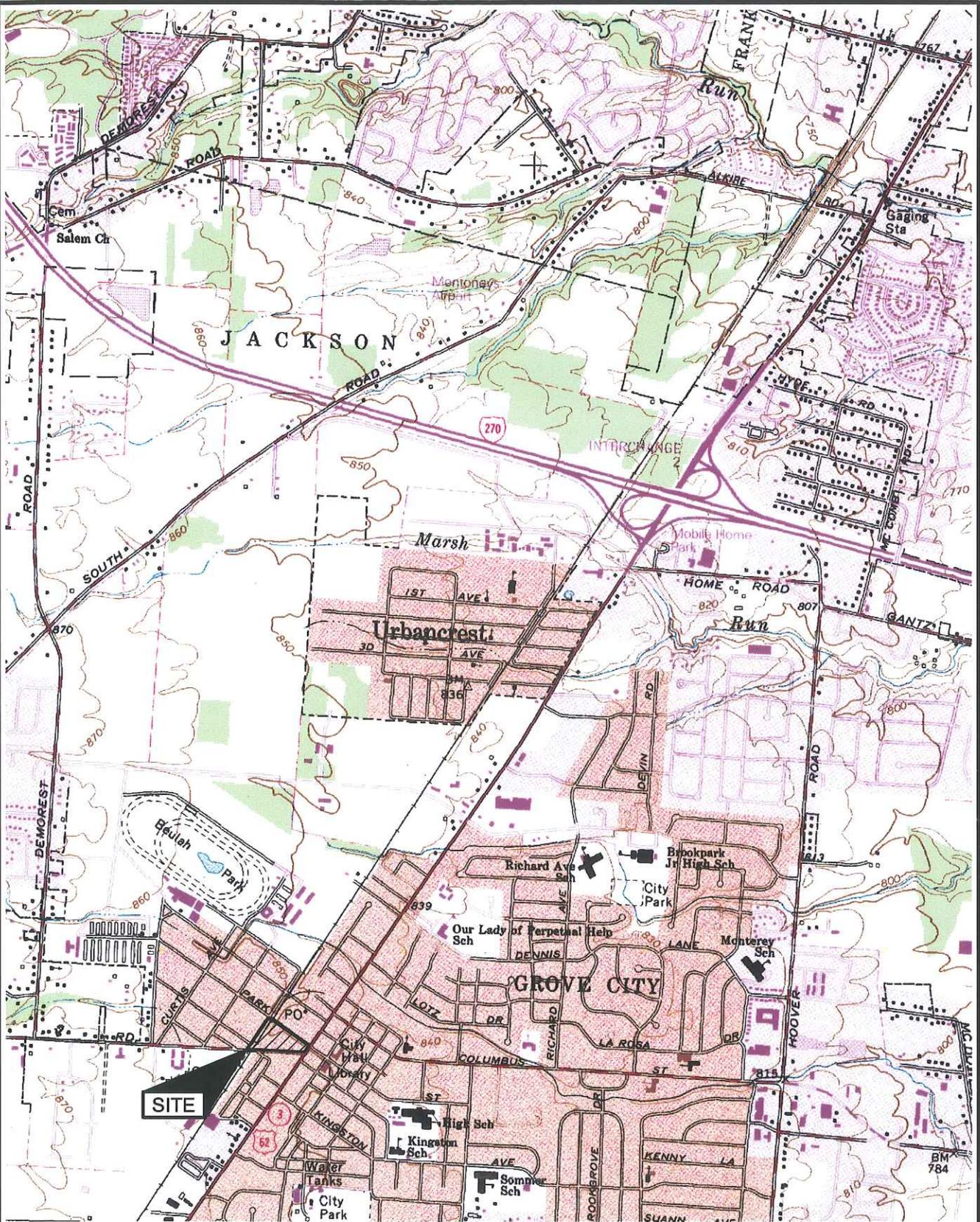
This Limited Phase II ESA is limited in scope to the specific terms of the Agreement previously entered into between BBCM and The Stonehenge Company. BBCM shall not be liable for any damage, consequential or otherwise, caused by or resulting from information and/or conclusions contained herein, except for damage resulting from negligence of BBCM.

The information contained in this report pertains only to the portion of the Property that was investigated during the Limited Phase II ESA. Furthermore, since this investigation pertained only to potential BTEX plus MTBE and TPH GRO compounds, it should not be assumed that other contaminants or contaminant sources are not present at the Property. This report represents the Property conditions as of the date issued. BBCM has no responsibility for updating the information herein; therefore, it should not be assumed that any information contained herein continues to be accurate subsequent to the date of this report.

This report is intended solely for the use of The Stonehenge Company and may not be relied upon or disseminated to any third person or entity without the express written permission of BBCM.

APPENDIX A

Images: ~Galloway Ohio Quad Map.tif ~Southwest Columbus Ohio Quad Map.tif
 Xrefs:
 File Last Updated: Mar 23, 2009
 Plot Info: 3-23-2009 @ 9:13am By: nberndt
 BBC&M Filename: I:\DEPT\CADD\Drawings\Projects\011-12161-E00V-Map.dwg Layout: V-Map



USGS Mapping:
 Southwest Columbus Quad

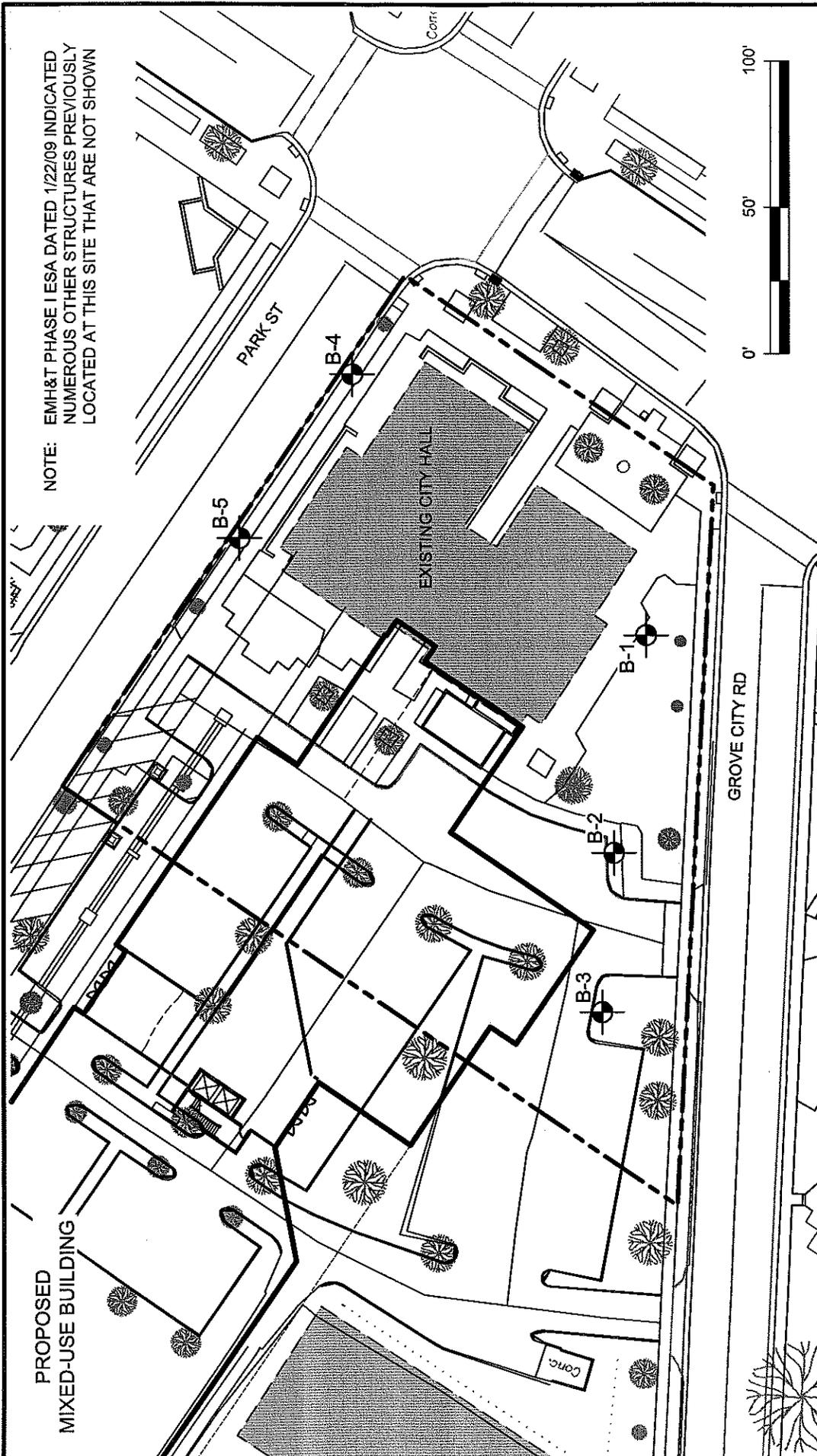


VICINITY MAP		
GROVE CITY LUMBERYARD GROVE CITY, OHIO		
Project: 011-12161-E00	Drawn By: NWB	 Columbus (614) 793-2226 Cleveland (216) 901-1000 Cincinnati (513) 771-8471 Dayton (937) 424-1011
Drawing Date: 3-4-2009	Approved By: HJH	
Last Updated: 3-23-2009	Scale: 1" = 2000'	

Images: ~2009-02-03 Color Utility Exhibit.jpg
 Xrefs:
 File Last Updated: Mar 23, 2009
 Plot Info: 3-23-2009 @ 12:34pm By: nberndt
 BSC&M Filename: I:\DEPT\SCADD\Drawings\Projects\011-12161-E00\Bases.dwg Layout POB

**PROPOSED
 MIXED-USE BUILDING**

**NOTE: EMH&T PHASE I ESA DATED 1/22/09 INDICATED
 NUMEROUS OTHER STRUCTURES PREVIOUSLY
 LOCATED AT THIS SITE THAT ARE NOT SHOWN**



PLAN OF BORINGS

FORMER GROVE CITY LUMBERYARD GROVE CITY, OHIO	
Project: 011-12161-E00	Drawn By: NWB
Drawing Date: 3-23-2009	Approved By: EPS
Last Updated: 3-23-2009	Scale: 1" = 50'

BBCM
 SOLUTIONS TO BUILD ON

Columbus (614) 793-2226
 Cleveland (216) 301-1000
 Cincinnati (513) 771-8471
 Dayton (937) 424-1011

LEGEND

-  STRUCTURES FROM 2007
FRANKLIN COUNTY AUDITOR
(FOR REFERENCE ONLY)
-  SITE BOUNDARY
-  B-1
GEOPROBE BORING
NUMBER AND LOCATION
-  PROPOSED BUILDINGS

APPENDIX B

EXPLANATION OF SYMBOLS AND TERMS USED ON DIRECT-PUSH BORING LOGS FOR SAMPLING AND DESCRIPTION OF SOIL

SAMPLING DATA

-  - Blocked-in "SAMPLES" column indicates sample was attempted and recovered within this depth interval.
-  - Sample was attempted within this interval but not recovered.
- R - Refusal of sampler in very-hard or dense soil, or on a resistant surface.
- * - Indicates sample submitted for laboratory analysis.

PID - Photoionization Detector Reading

The GeoProbe® collects soil samples by hydraulically "pushing" a 2-inch diameter, 4-foot long, stainless steel sampling barrel into subsurface soils. As the barrel is advanced through the sample interval, the soil sample is captured in a new, disposable, plastic tube-liner inside the barrel.

SOIL DESCRIPTIONS

All soils have been classified basically in accordance with the Unified Soil Classification System, but this system has been augmented by the use of special adjectives to designate the approximate percentages of minor components as follows:

<u>Adjective</u>	<u>Percent by Weight</u>
trace	1 to 10
little	11 to 20
some	21 to 35
"and"	36 to 50

**LOG OF BORING NO. B-1
FORMER GROVE CITY LUMBERYARD
GROVE CITY, OHIO**



DEPTH, FEET	SAMPLE NO.	SAMPLES SAMPLING EFFORT	HAND PENE- TROMETER	MOISTURE CONTENT	LIQUID LIMIT	PLASTIC LIMIT	TYPE: <u>Geoprobe 6600</u>	LOCATION: <u>As shown on plan</u>	COMPLETION DEPTH: <u>20.0'</u>	ELEVATION: <u>850.0</u>	DATE: <u>3/11/09</u>	DESCRIPTION
0												TOPSOIL - 3 INCHES
	1						0.0					Brown mottled with gray clayey silt, some fine to coarse sand, trace fine gravel.
	2						0.0					
	3						0.0					
5												
	4						0.0					
	5						0.0					
10												
	6						0.0					
	7						0.0					Gray clayey silt, some fine to coarse sand, trace fine gravel.
	8						0.0					
15												
	9						0.0					
	10 *						0.0					
20												
												* Sample submitted for laboratory analysis.

P1P1D+ 112161E00 GFJ BBCM.GDT 3/13/09

WATER LEVEL: ▽ "Dry" ▽ ▽ ▽ ▽ ▽

WATER NOTE: _____

DATE: 3/11/09

**LOG OF BORING NO. B-2
FORMER GROVE CITY LUMBERYARD
GROVE CITY, OHIO**



DEPTH, FEET	SAMPLE NO.	SAMPLES SAMPLING EFFORT	HAND PENE- TROMETER	MOISTURE CONTENT	LIQUID LIMIT	PLASTIC LIMIT	TYPE: <u>Geoprobe 6600</u>	LOCATION: <u>As shown on plan</u>	COMPLETION DEPTH: <u>20.0'</u>	ELEVATION: <u>850.0</u>	DATE: <u>3/11/09</u>	PID-ppm	DESCRIPTION
													tsf
0													TOPSOIL/MULCH - 2 INCHES
1												0.0	FILL: Fine to coarse gravel, some fine to coarse sand, little silty clay. Gray mottled with brown clayey silt, some fine to coarse sand, trace fine gravel.
2												0.0	
5	3*											0.0	
4												0.0	Brown fine to coarse sand, some fine gravel, little silt.
5												0.0	
10	6											0.0	Gray silty clay, some fine to coarse sand, trace fine gravel.
7												0.0	
8												0.0	
15												0.0	
9												0.0	
10												0.0	
20												0.0	

- Encountered seepage at 5.8' to 8.5'.
* Sample submitted for laboratory analysis.

WATER LEVEL: ▽ "Dry" ▽ ▽ ▽ ▽ ▽

WATER NOTE: _____

DATE: 3/11/09

**LOG OF BORING NO. B-5
FORMER GROVE CITY LUMBERYARD
GROVE CITY, OHIO**



DEPTH, FEET	SAMPLE NO.	SAMPLES SAMPLING EFFORT	HAND PENE- TROMETER	MOISTURE CONTENT	LIQUID LIMIT	PLASTIC LIMIT	TYPE: <u>Geoprobe 6600</u>		LOCATION: <u>As shown on plan</u>	
							tsf	%	%	%
0										
1							0.0	TOPSOIL - 3 INCHES		
2							0.0	Brown mottled with gray clayey silt, some fine to coarse sand, trace fine gravel.		
3*							0.0	Brown fine to coarse sand, some fine gravel, little silt.		
4							0.0	Gray clayey silt, some fine to coarse sand, trace fine gravel.		
5							0.0			
6							0.0			
7							0.0			
8							0.0			
9							0.0			
10							0.0			
20							0.0			
25							0.0			

- Encountered seepage at 5.8' to 6.7'.
* Sample submitted for laboratory analysis.

WATER LEVEL: ∇ "Dry" ∇ ∇ ∇ ∇ ∇ ∇

WATER NOTE: _____

DATE: 3/11/09

P:\P\12161E00.GPJ BBCM.GDT 3/13/09

APPENDIX C



ADVANCED ANALYTICS LABORATORIES, INC.
 1025 CONCORD AVENUE
 COLUMBUS, OHIO 43212
 (614) 299-9922 FAX (614) 299-4002
Analysis & Testing - Quality Control Programs - Research & Development

BBC&M Engineering, Inc.
 6190 Enterprise Court
 Dublin, OH 43016-7297

Date Reported: 3/16/09

Project: 011-12161-E00
 P.O. Number: 011-12161-E00
 Project Manager: Eric P. Slosser

BBCM
 MAR 20 2009

RECEIVED

ANALYTICAL RESULTS

Client Sample ID.: B-1 /S-10
 AAL Sample ID.: 0903046-01 (Soil)

Date Received: 3/11/09
 Date Collected: 3/11/09

Analyte	Result	Units	Reporting Limit	Method	Notes
8260 BTEX+MTBE Date Analyzed: 3/12/09					
Surrogate: 1,2-Dichloroethane-d4	116 %		80-120		
Surrogate: Toluene-d8	93.1 %		80-120		
Surrogate: 4-Bromofluorobenzene	114 %		80-120		
Methyl tert-butyl ether	ND	mg/kg	0.005	EPA 8260	
Benzene	ND	mg/kg	0.005	EPA 8260	
Toluene	ND	mg/kg	0.005	EPA 8260	
Ethylbenzene	ND	mg/kg	0.005	EPA 8260	
Xylenes (total)	ND	mg/kg	0.005	EPA 8260	

Gasoline Range Organics (GRO) C6 to C12 Date Analyzed: 3/12/09

Surrogate: a,a,a-Trifluorotoluene	86.0 %		70-130		
Gasoline Range Hydrocarbons	ND	mg/kg	1.00	EPA 8015M	

Advanced Analytics Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

L. Eve Karnitis, President



ADVANCED ANALYTICS LABORATORIES, INC.
1025 CONCORD AVENUE
COLUMBUS, OHIO 43212
(614) 299-9922 FAX (614) 299-4002
Analysis & Testing - Quality Control Programs - Research & Development

BBC&M Engineering, Inc.
6190 Enterprise Court
Dublin, OH 43016-7297

Date Reported: 3/16/09

Project: 011-12161-E00
P.O. Number: 011-12161-E00
Project Manager: Eric P. Slosser

ANALYTICAL RESULTS

Client Sample ID.: B-2/S-3
AALI Sample ID.: 0903046-02 (Soil)

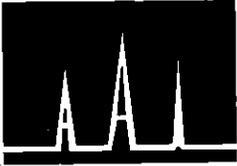
Date Received: 3/11/09
Date Collected: 3/11/09

Analyte	Result	Units	Reporting Limit	Method	Notes
8260 BTEX+MTBE Date Analyzed: 3/12/09					
Surrogate: 1,2-Dichloroethane-d4	119 %		80-120		
Surrogate: Toluene-d8	97.0 %		80-120		
Surrogate: 4-Bromofluorobenzene	99.4 %		80-120		
Methyl tert-butyl ether	ND	mg/kg	0.005	EPA 8260	
Benzene	ND	mg/kg	0.005	EPA 8260	
Toluene	ND	mg/kg	0.005	EPA 8260	
Ethylbenzene	ND	mg/kg	0.005	EPA 8260	
Xylenes (total)	ND	mg/kg	0.005	EPA 8260	
Gasoline Range Organics (GRO) C6 to C12 Date Analyzed: 3/12/09					
Surrogate: a,a,a-Trifluorotoluene	72.0 %		70-130		
Gasoline Range Hydrocarbons	ND	mg/kg	1.00	EPA 8015M	

Advanced Analytics Laboratories, Inc.

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L. Eve Karnitis, President



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Analysis & Testing - Quality Control Programs - Research & Development

BBC&M Engineering, Inc.
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Date Reported: 3/16/09

Project: 011-12161-E00
P.O. Number: 011-12161-E00
Project Manager: Eric P. Slosser

ANALYTICAL RESULTS

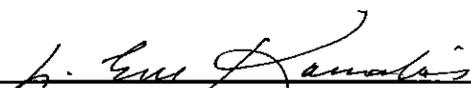
Client Sample ID.: B-3 /S-6
AALI Sample ID.: 0903046-03 (Soil)

Date Received: 3/11/09
Date Collected: 3/11/09

Analyte	Result	Units	Reporting Limit	Method	Notes
8260 BTEX+MTBE Date Analyzed: 3/12/09					
Surrogate: 1,2-Dichloroethane-d4	119 %		80-120		
Surrogate: Toluene-d8	98.3 %		80-120		
Surrogate: 4-Bromofluorobenzene	101 %		80-120		
Methyl tert-butyl ether	ND	mg/kg	0.005	EPA 8260	
Benzene	ND	mg/kg	0.005	EPA 8260	
Toluene	ND	mg/kg	0.005	EPA 8260	
Ethylbenzene	ND	mg/kg	0.005	EPA 8260	
Xylenes (total)	ND	mg/kg	0.005	EPA 8260	
Gasoline Range Organics (GRO) C6 to C12 Date Analyzed: 3/13/09					
Surrogate: a,a,a-Trifluorotoluene	88.0 %		70-130		
Gasoline Range Hydrocarbons	ND	mg/kg	1.00	EPA 8015M	

Advanced Analytics Laboratories, Inc.

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L. Eve Karnitis, President



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Date Reported: 3/16/09

Project: 011-12161-E00
P.O. Number: 011-12161-E00
Project Manager: Eric P. Slosser

ANALYTICAL RESULTS

Client Sample ID.: B-4 /S-5
AALI Sample ID.: 0903046-04 (Soil)

Date Received: 3/11/09
Date Collected: 3/11/09

Analyte	Result	Units	Reporting Limit	Method	Notes
8260 BTEX+MTBE Date Analyzed: 3/12/09					
Surrogate: 1,2-Dichloroethane-d4	120 %		80-120		
Surrogate: Toluene-d8	101 %		80-120		
Surrogate: 4-Bromofluorobenzene	93.4 %		80-120		
Methyl tert-butyl ether	ND	mg/kg	0.005	EPA 8260	
Benzene	ND	mg/kg	0.005	EPA 8260	
Toluene	ND	mg/kg	0.005	EPA 8260	
Ethylbenzene	ND	mg/kg	0.005	EPA 8260	
Xylenes (total)	ND	mg/kg	0.005	EPA 8260	

Gasoline Range Organics (GRO) C6 to C12 Date Analyzed: 3/12/09

Surrogate: a,a,a-Trifluorotoluene	76.8 %		70-130		
Gasoline Range Hydrocarbons	ND	mg/kg	1.00	EPA 8015M	

Advanced Analytics Laboratories, Inc.

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L. Eve Karnitis, President



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Analysis & Testing - Quality Control Programs - Research & Development

BBC&M Engineering, Inc.
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Dublin, OH 43016-7297

Date Reported: 3/16/09

Project: 011-12161-E00
P.O. Number: 011-12161-E00
Project Manager: Eric P. Slosser

ANALYTICAL RESULTS

Client Sample ID.: B-5 /S-3
AALI Sample ID.: 0903046-05 (Soil)

Date Received: 3/11/09
Date Collected: 3/11/09

Analyte	Result	Units	Reporting Limit	Method	Notes
8260 BTEX+MTBE Date Analyzed: 3/12/09					
Surrogate: 1,2-Dichloroethane-d4	114 %		80-120		
Surrogate: Toluene-d8	92.8 %		80-120		
Surrogate: 4-Bromofluorobenzene	104 %		80-120		
Methyl tert-butyl ether	ND	mg/kg	0.005	EPA 8260	
Benzene	ND	mg/kg	0.005	EPA 8260	
Toluene	ND	mg/kg	0.005	EPA 8260	
Ethylbenzene	ND	mg/kg	0.005	EPA 8260	
Xylenes (total)	ND	mg/kg	0.005	EPA 8260	
Gasoline Range Organics (GRO) C6 to C12 Date Analyzed: 3/12/09					
Surrogate: a,a,a-Trifluorotoluene	70.8 %		70-130		
Gasoline Range Hydrocarbons	ND	mg/kg	1.00	EPA 8015M	

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

Advanced Analytics Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


L. Eve Karnitis, President

