Asbestos and Hazardous Materials Inspection

Commercial Property
Former Brookview Swim Club
2480 Periwinkle Drive
Bellbrook, Ohio

ATC Project No. 241BS00470

Prepared For:

Bellbrook Sugar Creek Park District
2751 Washington Mill Road
Bellbrook, Ohio 45305

Prepared By:

ATC Group Services LLC
11121 Canal Road
Cincinnati, OH 45241

January 30, 2020

PROJECT RESPONSIBILITY

This report has been prepared; consistent with good customary practices and satisfies the intents and requirements of the National Emissions Standards for Hazardous Air Pollutants regulations as well as the Revised Ohio Administrative Code for the inspection and characterization of asbestos materials at sites slated for demolition or renovation activities. ATC Group Services, LLC (ATC) makes no determinations or warrants no conclusions beyond those stated herein. Further, ATC submits this report to Bellbrook Sugar Creek Park District for their exclusive use.

The findings of the report are based on conditions observed and ATC's ability to access and evaluate all parts of the subject space outlined as part of this work scope.

This report has been prepared by:

David Gregory
Project Manager
Ohio Asbestos Hazard Evaluation Specialist

Mike Bryson
Ohio Asbestos Hazard Evaluation Specialist

This report has been reviewed by:

Gerald H. Beaudion
Building Sciences Manager

SUMMARY

ATC Group Services LLC (ATC) state-licensed, Asbestos Hazard Evaluation Specialist (AHES) performed a pre-demolition inspection on behalf of Bellbrook Sugar Creek Park District to confirm or nullify the presence of asbestos-containing building materials at the commercial property located at 2480 Periwinkle Drive, in Bellbrook, Ohio.

The inspection was performed on January 24, 2020 and was conducted in accordance with ATC Proposal 241-2020-0032, dated January 20, 2020. The purpose of the inspection was to identify materials that could possibly impact the environment or subsequently cause unnecessary exposure as a result of demolition activities.

Building materials suspected to contain asbestos were sampled by the ATC inspector to satisfy provisions of the Environmental Protection Agency's National Emissions Standards for Hazardous Air Pollutants (NESHAPs) regulations.

The following provides a summary of the total amount of asbestos-containing building materials identified during the limited asbestos inspection. Refer to the **Functional Space Assessment Forms** located within this report for specific information on the individual assessed areas:

Homogeneous Number	Asbestos-Containing Material	Quantity
No ACM was Identified		

In accordance with the EPA, materials that are considered to be asbestos-containing may need to be removed prior to renovation or demolition activities, in the event these activities have the potential to damage or render them friable.

ATC also performed an inspection to identify the presence of hazardous or otherwise regulated materials at the property. The inspection focused on building materials that included but were not limited to: suspect PCB-containing light ballasts, fluorescent light tubes, potential chlorofluorocarbon-containing materials, radiological hazards, various types of batteries and mercury-containing building components. Such materials were identified in the building as summarized in **Table 1**. These materials should be properly handled, disposed of or recycled according to all appropriate State and Federal guidelines for such materials.

Material Type	Quantity
Fluorescent Lamps (mercury-containing)	10
Light Ballasts (possible PCB-containing)	2
High-Intensity Discharge Lamps (possible heavy-metal containing)	24
AC/HVAC Units/Cooler (CFC-containing)	1
Fire Extinguishers (compressed gasses)	2

Material Type	Quantity
Propane Tanks (compressed gasses)	3
Sulphuric Acid	20 Gallons
Diatomic Filter Media	4 Bags
Paint Thinner	3 Gallons
Paints, Cleaners, Chemicals	Numerous

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1 INTRODUCTION

ATC of Cincinnati, Ohio performed a pre-demolition inspection to determine the presence or absence of asbestos-containing materials (ACMs) as well as any hazardous, or otherwise regulated materials at the commercial property located at 2480 Periwinkle Drive, in Bellbrook, Ohio (hereafter referred to as the "site"). The inspection was performed on behalf of Bellbrook Sugar Creek Park District of Bellbrook, Ohio, on January 24, 2020.

The purpose of the asbestos inspection was to identify ACM in the subject building to satisfy appropriate federal, state, and local regulations. Accordingly, the scope of study consisted of: an inspection of the spaces to identify those materials that may contain asbestos, the collection and analysis of bulk material samples in accordance with the Ohio Administrative Code and EPA guidelines, the compilation of an inventory of ACM present, the locations and quantities of bulk material and the completion of a summary of findings report.

ATC conducted its inspection activities in accordance with all State and Federal regulations as well as with current industry protocols. Our inspection process included a room by room progression, proper typing of materials as well as collection of appropriate samples. Bulk materials sampled were analyzed by the ATC, National Voluntary Laboratory Accreditation Program (NVLAP) Laboratory in Cincinnati, Ohio.

Further, ATC categorized the materials identified during the inspection according to the NESHAP categories of friability (NESHAP; 40 CFR 61). The EPA places non-friable ACM into two categories: Category I non-friable ACM which contains, gaskets, resilient floor coverings, and asphalt roofing products and Category II, non-friable ACM which include any material excluding Category I non-friable ACM, such as Transite® or cement board material. Friable asbestos-containing materials are identified as regulated asbestos-containing materials (RACM). The category of material may have requirements for additional handling and disposal and will be outlined further in this report (as applicable).

ATC also performed an inspection for hazardous or otherwise regulated materials concurrent with the asbestos inspection. The State of Ohio and the Environmental Protection Agency regulate materials based on their use or intended use including household hazardous materials, materials considered universal wastes as well as substances that have been determined to cause unreasonable risk to public health and the environment. The scope of the study consisted of an inspection of the spaces to identify those materials categorized above and quantify them.

2 INSPECTION METHODOLOGY

Mr. Mike Bryson of ATC, Ohio-Certified, Asbestos Hazard Evaluation Specialist (certification number ES32232), conducted the pre-demolition asbestos and hazardous material inspection of the site. Copies of the inspector's certification documentation is provided in **Appendix A** of this report.

2.1 Site Information

Site Description	Physical Characteristics
Property Address	2480 Periwinkle Drive Bellbrook, Ohio 45305
Property Owner	Board of Park Commissioners of Bellbrook Sugar Creek Park District
Owner Telephone	937-848-3535
Estimated Construction Date	1961 per Greene County Auditor's Website
Building Type	Commercial
Construction Type	Block/Wood

2.2 Asbestos Inspection

Upon arrival at the site, the inspector conducted a visual inspection of each room. A site map is located in the Figures section of this report. Accessible areas were visually inspected for the presence of suspect asbestos-containing building materials. During the inspection, the inspectors evaluated building components such as pipes, tanks, ceilings, flooring, walls, etc. Suspect materials were physically examined to determine their friability.

The EPA defines friable materials as those materials that when dry, may be crumbled, pulverized, or reduced to powder by hand pressure. Upon inspection, suspect materials were classified into homogeneous areas. A homogeneous area is defined by the U.S. Environmental Protection Agency (EPA) as an area of surfacing material, thermal system insulation, or miscellaneous material that is uniform in color, application, and texture (Asbestos Hazard Emergency Response Act [AHERA] 40 CFR 763 Subpart E). Homogeneous materials were appropriately typed, quantities of suspect materials were estimated and sampling locations and sample amounts were determined on a square or linear foot basis for each homogeneous area. Inspection activities followed a room by room progression (Reference **Appendix B**, Field Inspection Forms).

2.2.1 Asbestos Bulk Sample Collection

During the building inspection, samples of suspect materials were collected in accordance with the Ohio Administrative Code Chapter 3701-34-06 and AHERA Section 763.86. For friable surfacing materials, three or more bulk samples were collected for each homogeneous area less than or equal to 1,000 square feet. If the homogeneous area was greater than 1,000 square feet but less than 5,000 square feet, five or more bulk samples were collected. For homogeneous areas that were greater than 5,000 square feet, seven bulk samples were collected. Sample locations for each

homogeneous area of suspect surfacing material were randomly determined by the inspector during the initial visual inspections.

Three or more samples are typically collected from homogeneous areas of thermal system insulation such as pipe or duct insulation. Miscellaneous materials such as floor tile or ceiling tile were sampled in a manner sufficient to determine whether the material in question contained asbestos.

To avoid disturbing the material more than necessary and potentially causing the release of asbestos fibers, bulk sampling of suspect materials was conducted in accordance with the generally accepted procedures outlined in current EPA Guidance Documents and in EPA-approved asbestos building inspector certification course manuals. Each sample was collected with a clean sampling tool and placed in a clean, sealable container and labeled with a unique sample identification number. This sample number was recorded on the sample container allowing for easy sample identification. Supplemental information was also recorded, including date of inspection, name of the inspector, the building name (or number), a brief description and location of the sample, and type of material sampled (e.g., thermal insulation, ceiling tiles, acoustical plaster, etc.).

A total of 16 bulk material samples were collected from eight (8) homogeneous areas during the inspection (see **Appendix B**, Field Inspection Forms).

2.2.2 Asbestos Laboratory Analysis

Bulk material samples of suspect ACM were submitted to EMSL's Analytical Laboratory NVLAP-accredited asbestos laboratory (NVLAP #-200188-0) in Indianapolis, Indiana, for analysis by polarized-light microscopy (PLM, visual estimation method). Test analysis was performed in accordance with the prescribed EPA Test Method (EPA/600/R-93/116), "Method for the Determination of Asbestos in Bulk Building Materials," 40 CFR Part 763, [Appendix A to Subpart F]. The PLM method (visual estimation), which the EPA currently accepts for the determination of asbestos in bulk samples, is used for the qualitative identification of six morphologically different types of asbestos fibers (i.e., chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite asbestos). The method specifies that the asbestos content in a bulk sample shall be determined by visual estimation and reported as a finite percentage (rounded to the nearest percent) within the range of 0 to 100. Minute quantities of asbestos in bulk samples may be reported as "trace" (tr), or less than one percent. The EPA and the Occupational Safety and Health Administration (OSHA) define ACM as any material that contains more than one percent asbestos. OSHA has also specified certain worker protection requirements for other building materials that have an asbestos content less than or equal to 1%.

Bulk sample analyses results were reported in a standard written laboratory report. This written report includes the client name, the laboratory identification numbers assigned to each bulk sample upon receipt by the laboratory sample custodian, and the field number assigned to each bulk sample during the building inspection. The composition of the bulk sample was reported in percentage of asbestos (i.e., chrysotile, amosite, crocidolite, or other) and non-asbestos (i.e., cellulose, fiberglass, synthetic, or other) components.

2.2.3 Survey Results

All 16 material samples collected from the site during this inspection were analyzed; four additional materials were separated by the laboratory from the 16 samples originally collected. None of the samples were found to contain greater than one percent asbestos. The PLM Laboratory Reports and

Chain-of-Custody forms are provided in **Appendix C**. A summary of the asbestos bulk sampling results is provided in **Appendix D**.

2.3 Hazardous Materials

Concurrently with the ACM inspection, ATC performed an inspection to identify the presence or absence of hazardous or otherwise regulated materials within or around the project building. The State of Ohio and the Environmental Protection Agency regulate materials based on their use or intended use. These materials; including household hazardous materials, materials considered universal wastes as well as substances that have been determined to cause an unreasonable risk to public health and the environment.

The scope of the study consisted of an inspection of the building to identify those materials categorized above and to quantify them. Materials were identified and quantified for the building during the room by room progression of the inspection. Upon completion, it was noted that hazardous or otherwise regulated materials exist on the site. The type of material and their quantities within the building are summarized below:

Material Type	Quantity
Fluorescent Lamps (mercury-containing)	10
Light Ballasts (possible PCB-containing)	2
High-Intensity Discharge Lamps (possible heavy-metal containing)	24
AC/HVAC Units/Cooler (CFC-containing)	1
Fire Extinguishers (compressed gasses)	2
Propane Tanks (compressed gasses)	3
Sulphuric Acid	20 Gallons
Diatomic Filter Media	4 Bags
Paint Thinner	3 Gallons
Paints, Cleaners, Chemicals	Numerous

The location of such hazardous materials is identified on **Table 1**.

3 CONCLUSIONS AND RECOMMENDATIONS

3.1 Asbestos

ACMs were not identified within the designated assessment areas.

NESHAP regulations require that ACM that may be affected by renovation/demolition activities be abated prior to events that would make them friable. Abatement work should be performed by individuals and companies that are licensed and certified in the State of Ohio. Abatement activities are regulated by the Ohio EPA, DOT and OSHA asbestos regulations. NESHAP regulations require written notifications be submitted to the respective agencies 10 days prior to beginning removal of RACM (in excess of threshold quantities) and prior to any building demolition or renovation.

Per NESHAP, each owner or operator of a demolition or renovation activity in Greene County shall notify the local NESHAP enforcement agency at least ten working days in advance of proposed activities on the form prescribed by the EPA. This would be necessary if work involving ACM, including asbestos stripping, removal work or any other activity that would dislodge or similarly disturb ACM if the combined amount of ACM is equal to or above 50 linear or 50 square feet.

ATC made significant effort to inspect accessible areas that may contain asbestos. ATC's inspection was limited to accessible areas. Should any additional suspect ACM be discovered during the course of demolition activities, work should be stopped, the affected area restricted, and an EPA Certified Asbestos Hazard Evaluation Specialist should evaluate these areas for potential ACM impact to the site.

3.2 Hazardous Materials

A variety of other hazardous or otherwise-regulated materials were identified during the site inspection, as summarized in **Table 1**. Hazardous or otherwise regulated materials identified during the inspection should be handled and transported in accordance with applicable regulations or recycled or reused if appropriate.

Table 1

Hazardous Material Inventory

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TABLE 1
HAZARDOUS MATERIAL INSPECTION
FIELD FORM

Project No.: 241BS00470	Project Name: 2480 Periwinkle Drive, Bellbrook, Ohio	Inspector: M. Bryson
Client Name: Bellbrook Sugar Creek Park District	Client Address: 2751 Washington Mill Road, Bellbrook, Ohio	Date: 1/24/20

Functional Space No.	Function Space Description	Hazardous/Regulated Materials							
		PCB Ballasts	Fluorescent Lamps	HID Bulbs	Mercury Switches/ T-stats	Drinking Water Fountain	AC Units	Smoke Detectors	Miscellaneous
1	Foyer/Hallway	NO	1 Compact	NO	NO	NO	NO	NO	NO
2	Closet	NO	NO	NO	NO	NO	NO	NO	3-5 Gal. Propane Tanks Various Paints, Cleaners, Chemicals
3	Women's Locker/Showers	NO	4 Compact	NO	NO	NO	NO	NO	NO
4	Storage	NO	1 Compact	NO	NO	NO	NO	NO	1 Gal. Paint
5	Men's Locker/Showers	NO	NO	NO	NO	NO	NO	NO	NO
6	Electrical Closet	NO	NO	NO	NO	NO	NO	NO	NO
7	Office	NO	NO	NO	NO	NO	NO	NO	1 Fire Extinguisher
8	Concessions	2	4-4'	NO	NO	NO	1 window unit	NO	1 Fire Extinguisher
9	Pool Room	NO	NO	NO	NO	NO	NO	NO	20 Gals. Sulphuric Acid 4 Bags Diatomic Filter Media
	Shelter	NO	NO	2	NO	NO	NO	NO	NO
	Garage	NO	NO	2	NO	NO	NO	NO	3 Gals. Paint 3 Gals. Paint Thinner
	Exterior	NO	NO	20	NO	NO	NO	NO	NO

NO = None Observed

Figure

Site Diagram

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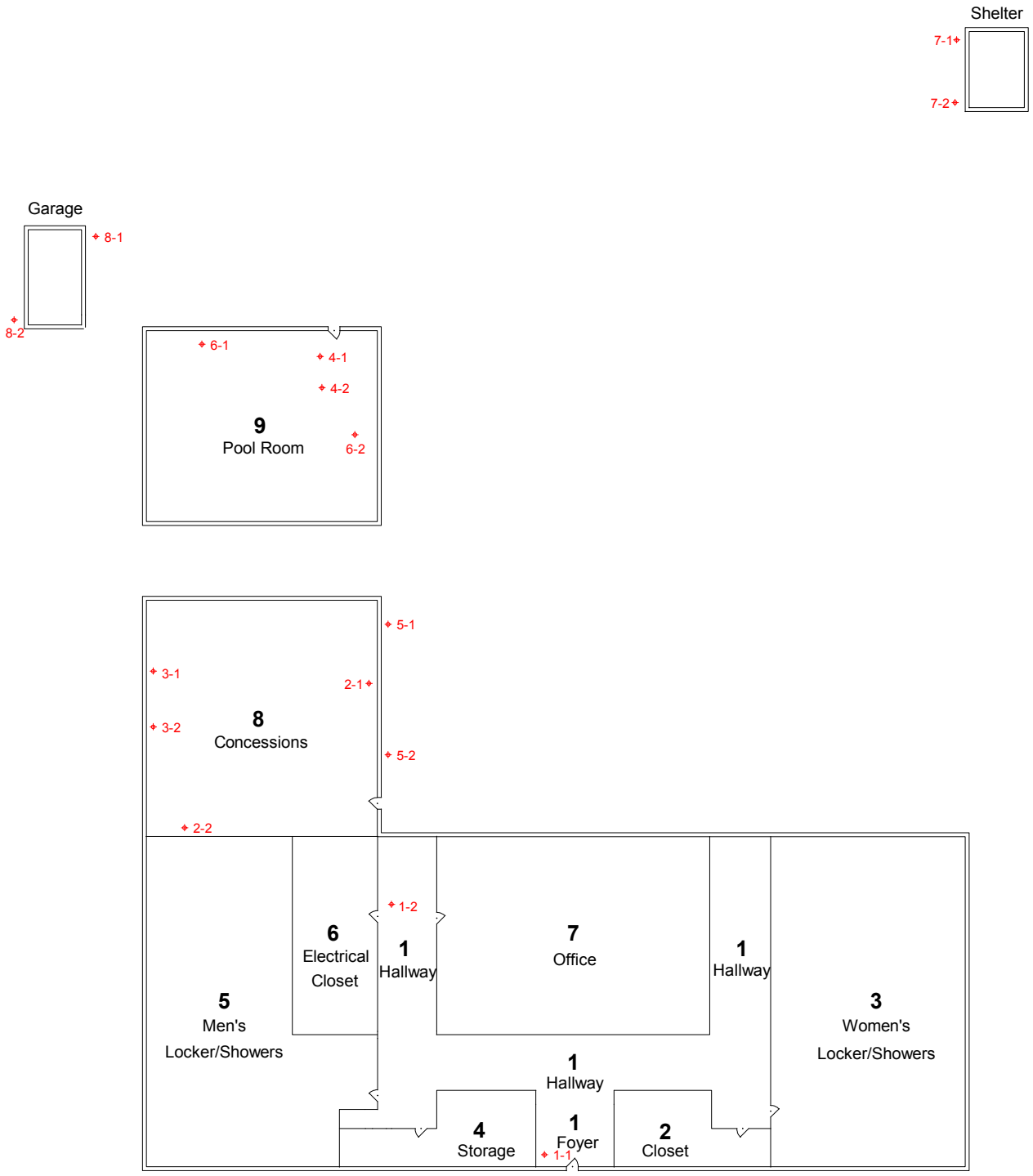
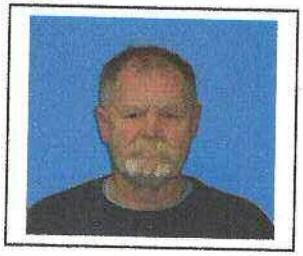


CLIENT NAME: Bellbrook Sugar Creek Park District 2751 Washington Mill Road Bellbrook, Ohio 45305	SITE LOCATION MAP Site Diagram		LEGEND: ## Room Designations #-# Sample Numbers and Locations
	Project Name: ACM/Hazmat Inspection	Project Number: 241BS00470	
File Name: 2480 Periwinkle Drive	Map Generated By: D. Gregory	Date: 1/30/20	Drawing Not to Scale

Appendix A

Inspector Certifications



THE ENVIRONMENTAL Training Center

2300 East Kemper, Suite 14A • Cincinnati, Ohio 45241
513-821-7772
www.environmentaltraining.com

CERTIFIES THAT

Michael Bryson
SSN xxx-xx-8206

has successfully completed
The EPA-APPROVED AHERA ANNUAL REFRESHER COURSE for
BUILDING INSPECTOR / MANAGEMENT PLANNER
and has passed the required examinations in each discipline

This course complies with the requisite training for asbestos accreditation under
Toxic Substances Control Act (TSCA) Title II and State of Indiana requirements
Under 326 IAC 18-2

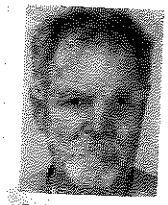
Course date	12/02/2019
No. of hours	4 / 4
Exam date	12/02/2019
Certificate No.	CR120219-03 / CR120219-04
Expires	12/02/2020

Authorized Signature

Training Location: 2300 East Kemper, Suite 14A
Cincinnati, OH 45241

State of Ohio
Environmental Protection Agency
Asbestos Program

Asbestos Hazard Evaluation Specialist



Michael L Bryson
ATC Services Group LLC
11121 Canal Rd
Cincinnati OH 45241

Ohio Environmental Protection Agency

DOB: 03/09/1949

Certification Number
ES32232

Expiration Date
02/24/2020

This certification is issued pursuant to Revised Code Chapter 3710 and Administrative Code Chapter 3745-22.

This card is not valid if altered.

Appendix B

Field Inspection Forms

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ASBESTOS INSPECTION
HOMOGENEOUS AREAS

Project No.: 241BS00470	**Project Name: 2480 Periwinkle Drive, Bellbrook, Ohio**	**Inspector: M. Bryson**
Client Name: Bellbrook Sugar Creek Park District	**Client Address: 2751 Washington Mill Road, Bellbrook, Ohio**	**Date: 1/24/20**

HOMOGENEOUS NUMBER	HOMOGENEOUS MATERIAL DESCRIPTION
1	Ceramic Tile Grout
2	Drywall/Joint Compound
3	Black Covebase/Mastic
4	Pool Bag Filter Material
5	Roof Shingles (Brown)
6	Black Tar Roof (Pool Building)
7	Black Roof Shingles (Shelter)
8	Black Roof Shingles (Garage)

FUNCTIONAL SPACE ASSESSMENT FORM

Project Number: 241BS00470				Project Name: 2480 Periwinkle Drive, Bellbrook, Ohio							Inspector: M. Bryson	
Client Name: Bellbrook Sugar Creek Park District				Client Address: 2751 Washington Mill Road, Bellbrook, Ohio							Date: 1/24/20	
Functional Space Number and Description		Homogeneous Number	Material Description	Sample Number	Condition Assessment					Quantity (LF/SF)	Asbestos Containing (Y,N)
					Damage (L,M,H)	Potential for Contact (L,M,H)	Visual Debris (Y,N)	Friable (Y, N)	Potential for Erosion (L,M,H)		
1	Foyer/Hallway	1	Ceramic Tile Grout	1-1,1-2	L	L	N	N	L		N
2	Closet	No Suspect ACM									
3	Women's Locker/Showers	1	Ceramic Tile Grout		L	L	N	N	L		N
4	Storage	No Suspect ACM									
5	Men's Locker/Showers	1	Ceramic Tile Grout		L	L	N	N	L		N
6	Electrical Closet	No Suspect ACM									
7	Office	1	Ceramic Tile Grout		L	L	N	N	L		N
8	Concessions	1	Ceramic Tile Grout		L	L	N	N	L		N
		2	Drywall/Joint Compound	2-1,2-2	L	L	N	N	L		N
		3	Black Covebase/Mastic	3-1,3-2	L	L	N	N	L		N
		5	Roof Shingles (Brown)	5-1,5-2	L	L	N	N	L		N
9	Pool Room	4	Pool Bag Filter Material	4-1,4-2	L	L	N	N	L		N
	Exterior	6	Black Tar Roof (Pool Building)	6-1,6-2	L	L	N	N	L		N
	Shelter	7	Black Roof Shingles (Shelter)	7-1,7-2	L	L	N	N	L		N
	Garage	8	Black Roof Shingles (Garage)	8-1,8-2	L	L	N	N	L		N

Appendix C

PLM Analytical Report and Chain-of-Custody Forms

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EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

http://www.EMSL.com / indianapolislab@emsl.com

EMSL Order:	162001690
Customer ID:	ATCA51
Customer PO:	
Project ID:	

Attention:	Dave Gregory ATC Group Services LLC 11121 Canal Road Cincinnati, OH 45241	**Phone:**	(513) 771-2112
		Fax:	(513) 782-6908
		Received Date:	01/27/2020 9:35 AM
		Analysis Date:	01/29/2020
		Collected Date:	01/24/2020
Project:	2480 Periwinkle		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1-1 *162001690-0001*	Ceramic Tile grout, FS1	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
1-2 *162001690-0002*	Ceramic Tile grout, FS1	Gray Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (Other)	None Detected
2-1-Drywall *162001690-0003*	Drywall / Joint Compound FS8	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (Other)	None Detected
2-1-Joint Compound *162001690-0003A*	Drywall / Joint Compound FS8	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-2-Drywall *162001690-0004*	Drywall / Joint Compound FS8	Brown/White Fibrous Heterogeneous	15% Cellulose 3% Glass	80% Gypsum 2% Non-fibrous (Other)	None Detected
2-2-Joint Compound *162001690-0004A*	Drywall / Joint Compound FS8	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-1-Cove Base *162001690-0005*	Black Cove Base & Mastic FS8	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-1-Mastic *162001690-0005A*	Black Cove Base & Mastic FS8	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-2-Cove Base *162001690-0006*	Black Cove Base & Mastic FS8	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-2-Mastic *162001690-0006A*	Black Cove Base & Mastic FS8	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4-1 *162001690-0007*	Pool Filter Bag Material FS9	Tan Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
4-2 *162001690-0008*	Pool Filter Bag Material FS9	Beige Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
5-1 *162001690-0009*	Brown Roof Shingles FS8	Brown/Tan/Black Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
5-2 *162001690-0010*	Brown Roof Shingles FS8	Brown/Black Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
6-1 *162001690-0011*	Black Tar Roof FS8	Black Fibrous Heterogeneous	40% Glass	60% Non-fibrous (Other)	None Detected
6-2 *162001690-0012*	Black Tar Roof FS8	Black/Silver Fibrous Homogeneous	50% Glass	50% Non-fibrous (Other)	None Detected

Initial report from: 01/29/2020 09:51:51

EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

http://www.EMSL.com / indianapolislab@emsl.com

EMSL Order:	162001690
Customer ID:	ATCA51
Customer PO:	
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
7-1 *162001690-0013*	Roof Shingles Shelter	Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
7-2 *162001690-0014*	Roof Shingles Shelter	Black Fibrous Heterogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
8-1 *162001690-0015*	Roof Shingles Garage	Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
8-2 *162001690-0016*	Roof Shingles Garage	Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected

Analyst(s)

Crystal Oshurak (10)

Ross Matlock (10)

Richard Harding, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from: 01/29/2020 09:51:51

OrderID: 162001690

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 162001690

PHONE:
FAX:

Company Name: atc group services		**EMSL Customer ID:**	
Street: 11121 Canal rd		**City:** Cincinnati	**State/Province:** Ohio
Zip/Postal Code: 45241	**Country:** USA	**Telephone #:** 513-771-2112	**Fax #:**
Report To (Name): David Gregory		**Please Provide Results:** ☐ Fax ☑ Email	
Email Address: david.gregory@atcgs.com		**Purchase Order:**	
Project Name/Number: 2480 Periwinkle		**EMSL Project ID** *(Internal Use Only)*:	
U.S. State Samples Taken:		**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

EMSL-Bill to: ☐ Same ☐ Different - If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour	☐ 6 Hour	☐ 24 Hour	☒ 48 Hour	☐ 72 Hour	☐ 96 Hour	☒ 1 Week	☐ 2 Week

**For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air ☐ Check if samples are from NY
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☑ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NYS 198.8 SOF-V
☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT (AHERA only)**
☐ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
☐ PLM EPA 600/R-93/116 with milling prep (<1%)
☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)
☐ TEM Qualitative via Filtration Prep
☐ TEM Qualitative via Drop Mount Prep
☐ Cincinnati Method EPA 600/R-04/004 – PLM/TEM (BC only)

Other:
☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Filter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm

Samplers Name: Mike Bryson **Samplers Signature:** Mike Bryson

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1-1	ceramic tile grout, FS 1		1/24/2020
1-2	ceramic tile grout, FS 1		1/24/2020
2-1	Drywall/jointcompound FS 8		1/24/2020
2-2	Drywall/jointcompound FS 8		1/24/2020
3-1	Black cove base and mastic, FS 8		1/24/2020

Client Sample # (s): - **Total # of Samples:** 16

Relinquished (Client): Mike Bryson **Date:** 1/24/20 **Time:** 2pm

Received (Lab): **Date:** **Time:**

Comments/Special Instructions:

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2 of 2

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Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 1690

PHONE:
FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
3-2	Black cove base and mastic, FS 8		1/24/2020
4-1	Pool filter bag material FS 9		1/24/2020
4-2	Pool filter bag material FS 9		1/24/2020
5-1	Brown roof shingles FS 8		1/24/2020
5-2	Brown roof shingles FS 8		1/24/2020
6-1	Black tar roof FS 8		1/24/2020
6-2	Black tar roof FS 8		1/24/2020
7-1	Roof shingles, Shelter		1/24/2020
7-2	Roof shingles, Shelter		1/24/2020
8-1	Roof shingles, Garage		1/24/2020
8-2	Roof shingles, Garage		1/24/2020
			1/24/2020

***Comments/Special Instructions:**

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Appendix D

Summary of Bulk Sampling Results

ATC
—AN ATLAS COMPANY—

Asbestos Survey - Bulk Sample Analytical Results Former Brookview Swim Club 2480 Periwinkle Drive, Bellbrook, Ohio January 24, 2020			
Homogeneous Sample No.	**Material Description**	**Sample Location(s)**	**Asbestos Analytical Results**
1-1,1-2	Ceramic Tile Grout	Foyer/Hallway	None Detected
2-1,2-2	Drywall/Joint Compound	Concessions	None Detected
3-1,3-2	Black Covebase/Mastic	Concessions	None Detected
4-1,4-2	Pool Bag Filter Material	Pool Room	None Detected
5-1,5-2	Roof Shingles (Brown)	Concessions	None Detected
6-1,6-2	Black Tar Roof (Pool Building)	Exterior	None Detected
7-1,7-2	Black Roof Shingles (Shelter)	Shelter	None Detected
8-1,8-2	Black Roof Shingles (Garage)	Garage	None Detected