

March 7, 2021

Mr. Mark Carpenter, P.E.
District 12 Environmental Engineer
5500 Transportation Blvd
Garfield Hts., Ohio 44125

Re: **CUY-BH-FY2023 Misc (PID 105909) Asbestos Survey**
CUY-480-7.920, Rocky River Drive over EB I-480 Ramp
SFN 1810332

Dear Mr. Carpenter,

EnviroScience, Inc. was contracted by the Ohio Department of Transportation to provide an asbestos survey of the CUY-480-7.920 bridge structure over EB Interstate 480 Ramp. The bridge location coordinates are 41.41929, -81.83085.

The 125-foot long three-span steel beam bridge with concrete deck and substructure will undergo replacement. Bridge inventory report information indicates the structure to have been originally built in 1980. A site location map is included in Appendix A.

Asbestos Regulations and Definitions

Prior to the demolition or renovation of a structure (including bridge structures), an asbestos inspection must be conducted by a licensed asbestos hazard evaluation specialist in accordance with National Emissions Standard for Hazardous Air Pollutants (NESHAP) Guidelines, EPA Regulation 40 CFR, Subpart M, Part 61 and OEPA asbestos regulations (OAC 3745-20). Further, the Occupational Safety and Health Administration's (OSHA's) Asbestos Standard for the Construction Industry (29 CFR 1926.1101) regulates all renovation and demolition work involving building materials which contain any amount of asbestos.

NESHAP, OEPA, and OSHA asbestos regulations define asbestos-containing material (ACM) as any material containing greater than one (1) percent asbestos as determined by polarized light microscopy. NESHAP regulations require that all materials suspected of containing asbestos be sampled to determine asbestos content or be assumed to be ACM and, therefore, treated as such. Materials that are determined or assumed to be ACMs shall be quantified and assessed by a licensed inspector. The materials then shall be characterized and assigned one of the following designations: Friable, Category I Non-friable, and Category II Non-friable.

Friable ACM is defined by the Asbestos NESHAP regulations as any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix E, Subpart E, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM), that, when dried, can be crumbled, pulverized, or reduced to powder by hand pressure.

Non-friable ACM is any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix E, Subpart E, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM), that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. Non-friable ACM can remain on the structure during renovation/demolition if it will not



5070 Stow Road
Stow, OH 44224

be sanded, grinded, cut, abraded, or made friable by any means. The two categories of non-friable ACM are described as follows:

- Category I Non-friable ACM - asbestos-containing packing, gaskets, resilient floor covering, and asphalt roofing products.
- Category II Non-friable ACM - any asbestos-containing material excluding Category I Non-friable ACM.

Regulated ACM (RACM) is defined as:

- Friable asbestos material.
- Category I Non-friable ACM that has become friable.
- Category I Non-friable ACM that has been or will be involved in sanding, grinding, cutting, or abrading.
- Category II Non-friable ACM that has a high probability of becoming crumbled, pulverized, or reduced to powder by forces expected to act on the material during renovation or demolition.

Asbestos Survey Summary

Bridge Plan Review - Prior to the field survey, EnviroScience performed a limited review of available bridge construction plans that were compiled by the department and placed on ODOT's FTP site. Based on our review of portions of CUY-480-7.920 plans, utilities are present under the structure. Ohio Bell and CEI conduit box outs are depicted in the backwall and two banks of ten (10) Ohio Bell Telephone conduits each were shown to be located beneath the west side of the structure. An additional bank of three (3) 4" CEI electric conduits are shown to be located beneath the east side of the bridge. The plans do not indicate the type of conduit material. Small diameter conduits of unknown composition are shown to be located within the parapets on both sides of the bridge for lighting. An East Ohio Gas Company line is shown to be located beneath the bridge on the west side with an outer diameter of 6 5/8" of unknown composition. Any of the conduits have the potential to be asbestos containing.

Asbestos Survey- An asbestos survey of the subject bridge structure was conducted on 01/13/21 by C.E. Kessler, Certified Asbestos Hazard Evaluation Specialist #ES34704 and Amy Wakefield, Certified Asbestos Hazard Evaluation Specialist #ES543881.

All accessible portions of the CUY-480-7.920 bridge were field investigated for the presence of suspected ACMs. A visual inspection of the top and bottom sides of the structure including the deck, parapets, beams, abutments, and vandal fencing were conducted. Affixed utilities consisted of 2 side-by-side banks of eight (8) 4" PVC conduits on the underside of the structure which are non-asbestos containing. A bank of three (3) electrical conduits was identified as 5" Johns-Manville Transite conduits. Transite is historically known to contain asbestos and was therefore assumed to be ACM. A 6 5/8" OD gas line was identified and found to be encased in an insulative wrap.

The following table summarizes the samples that were collected:

Table 1 – Sample Summary – CUY-480-7.920 Bridge SFN 1810332				
Sample	Homogeneous Area	Category	Location of Sample	Positive for Asbestos?
Rock-1	Mastic Packing	Misc	6" Gas Line Casing	No
Rock-2	Gas Line Pipe Wrap	Misc	6" Gas Line	No
Rock-3	Gas Line Pipe Wrap	Misc	6" Gas Line	No
Rock-4	Caulking	Misc	Vandal Fence Mounting Bracket	No
Rock-5	Caulking	Misc	Vandal Fence Mounting Bracket	No
Rock-6	Caulking	Misc	Parapet	No
Rock-7	Caulking	Misc	Parapet	No
N/A	5" Transite Conduits (3)	Category II	Underside cross bracing	Assumed Yes

All bulk samples collected were submitted to International Asbestos Testing Laboratories (IATL) of Mount Laurel, New Jersey, for analysis of asbestos content by polarized light microscopy (PLM) using the Environmental Protection Agency (EPA) Method 600/R-93/116. Appendix B includes an IATL laboratory Chain of Custody, sampling log, and laboratory analysis report. A bridge diagram indicating sample locations and a photo log is provided in Appendix C.

Conclusion and Recommendations

Johns-Manville "Transite" has historically been confirmed to be an asbestos containing material. Accordingly, the bank of three (3) 5" Transite conduits was assumed to be ACM. The Transite conduits exhibit substantial damage near the couplers coming from the backwall and therefore would be considered to be friable. Further, it can be assumed that the non-damaged portions of these conduits have a high probability of becoming crumbled, pulverized, or reduced to powder by forces expected to act on them during renovation/demolition such as sanding, cutting, grinding, abrading, etc.

Lab analysis of bulk samples taken from the CUY-480-7.920 structure indicate that no asbestos containing material was found in the caulking, mastic, and pipe wrap material sampled.

Table 2 – Assumed ACM – CUY-480-7.920 Bridge SFN 1810332				
Homogeneous Area	Category	Location of Sample	Positive for Asbestos?	Quantity ACM
5" Transite Conduit	Class II friable	Cross bracing on underside of structure	Assumed Yes	Estimated 375 LF

If suspect ACMs are revealed during demolition or renovation activities that were not identified during this survey it is recommended that work activities cease until a Certified Asbestos Hazard Evaluation Specialist can evaluate the new material(s). Any removal and subsequent disposal of the asbestos containing material during demolition operations must comply with the Ohio Administrative code, the occupational Safety and Health Administration (OSHA) regulations and

the National Emission Standard for Hazardous Air pollutants (NESHAP). Reference the Ohio Environmental Protection Agency adopted chapters 3745-20-03 & 3745-20-04 of the Ohio Administrative Code. This implements the NESHAP standards for asbestos and its removal.

Notification

An OEPA Notification of Demolition and Renovation form must be submitted ten (10) working days prior to work activities. Appendix D contains the OEPA form of which Section 1 - General Information 1, 2, 3, 4, and 5; and Section 2 - Project Address Specific Information A, B, C, and D have been completed.

Once the Contractor has been selected for the project, the remaining sections of the form shall be completed (as applicable) and the notification form submitted with the proper remittance to the following address at least 10 working days prior to starting work:

Ohio EPA, DAPC Asbestos
P.O. Box 1049
Columbus, Ohio 43216-1049

The form may also be completed/submitted via on-line at <https://epa.ohio.gov/dapc/atu/asbestos>

AHES Signature



Charles E. Kessler, AICP, CAHES, CEP
Asbestos Hazard Evaluation Specialist #ES34704

Attachments

Path: C:\Users\Anna_Giordano\Desktop\GIS_CUY-480-7.920\Map1_Location.mxd
Date: 1/26/2021

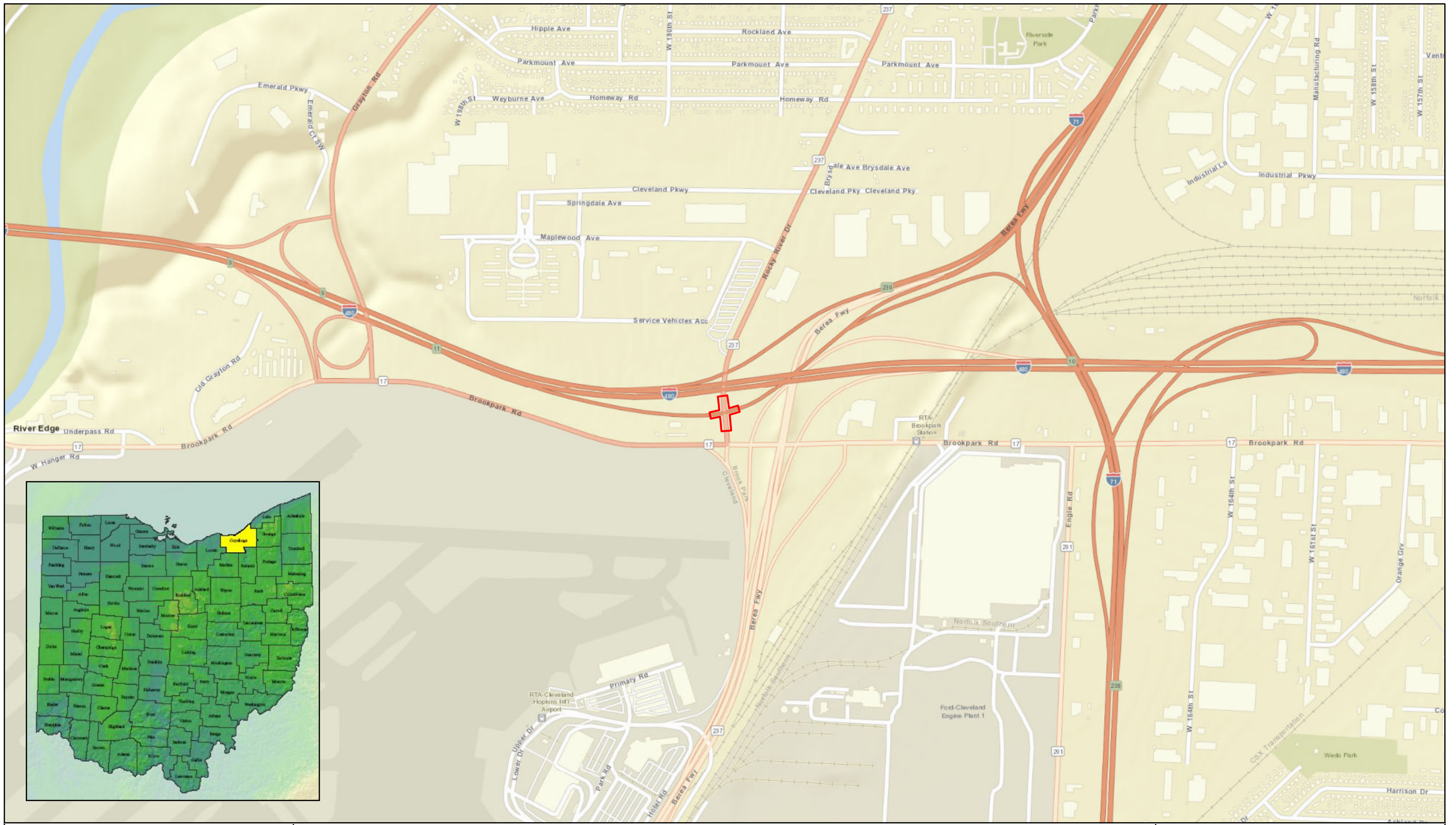
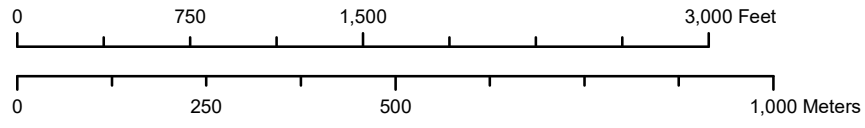


Figure 1. Location of Site on Highway Map of Cuyahoga County, Ohio. CUY-480-7.920.

 Project Area



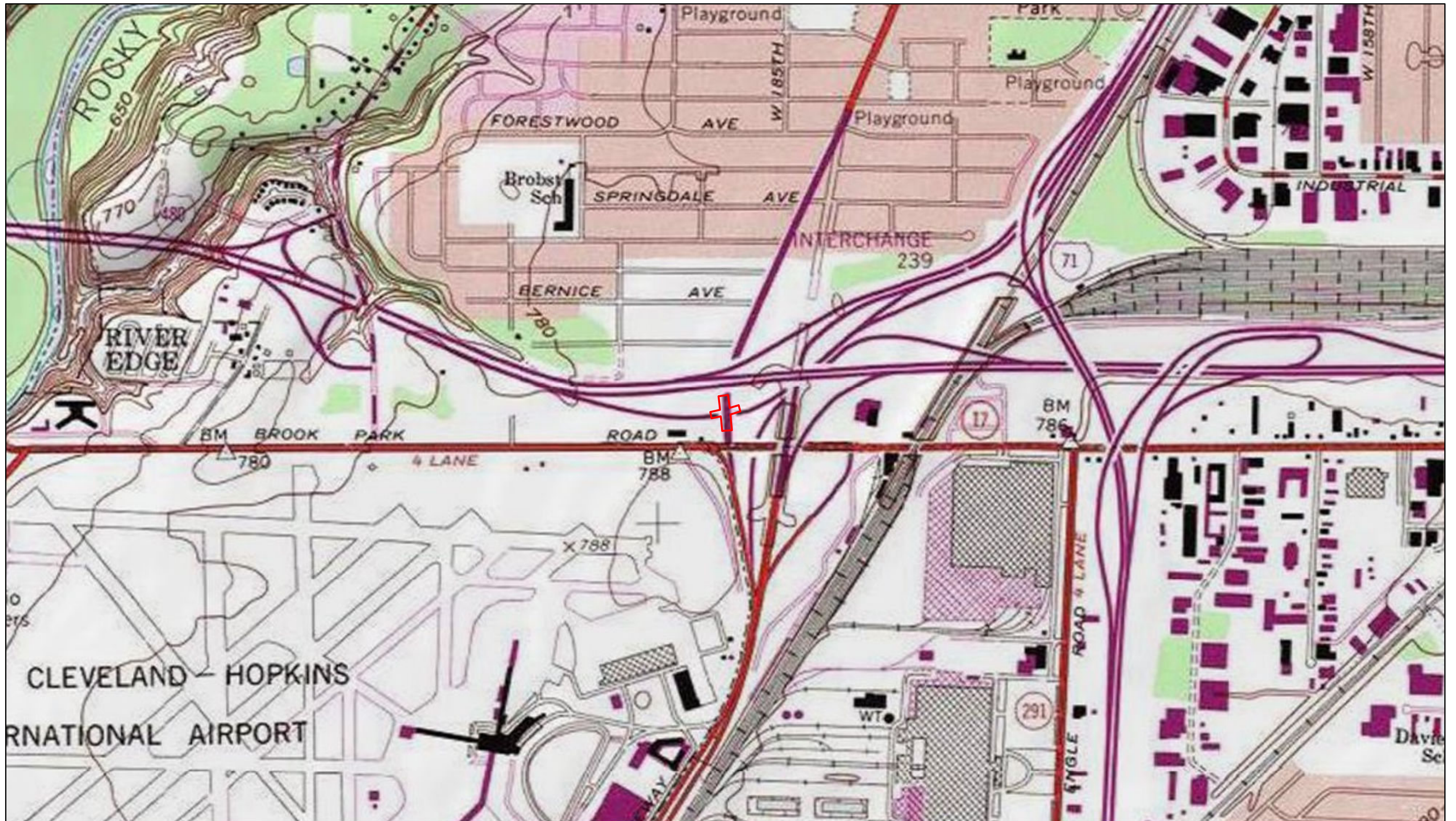
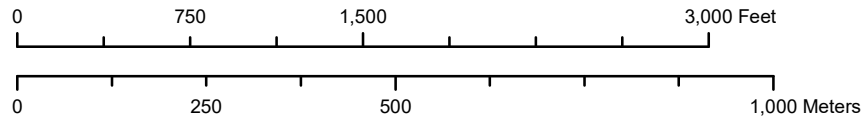


Figure 2. USGS 7.5-minute Topographic Map of Lakewood Quadrangle. CUY-480-7.920.

 Project Area



CERTIFICATE OF ANALYSIS

Client: EnviroScience, Inc.
5070 Stow Road
Stow OH 44224

Report Date: 1/21/2021
Report No.: 626739 - PLM
Project: ODOT District 12 Bridges-CUY
Project No.: 33582

Client: ENV507

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7129130 **Analyst Observation:** Black Mastic **Location:** 6" Gas Line Casing
Client No.: Rock-1 **Client Description:** Mastic Packing **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 10 Synthetic 90

Lab No.: 7129131 **Analyst Observation:** Grey Wrap **Location:** 6" Gas Line Casing
Client No.: Rock-2 **Client Description:** Pipe Wrap **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 40 Synthetic 60

Lab No.: 7129132 **Analyst Observation:** Grey Wrap **Location:** 6" Gas Line Casing
Client No.: Rock-3 **Client Description:** Pipe Wrap **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 40 Synthetic 60

Lab No.: 7129133 **Analyst Observation:** Grey Caulk **Location:** Vendel Fence Mounting Bracket
Client No.: Rock-4 **Client Description:** Caulking **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7129134 **Analyst Observation:** Grey Caulk **Location:** Vendel Fence Mounting Bracket
Client No.: Rock-5 **Client Description:** Caulking **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7129135 **Analyst Observation:** Grey Caulk **Location:** Parapet Railing
Client No.: Rock-6 **Client Description:** Joint Caulking **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/18/2021
Date Analyzed: 01/21/2021
Signature: Natalia Morais Soares
Analyst: Natalia Morais Soares

Approved By: Frank E. Ehrenfeld, III
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EnviroScience, Inc.
5070 Stow Road
Stow OH 44224

Report Date: 1/21/2021
Report No.: 626739 - PLM
Project: ODOT District 12 Bridges-CUY
Project No.: 33582

Client: ENV507

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7129136
Client No.: Rock-7

Analyst Observation: Grey Caulk
Client Description: Joint Caulking

Location: Parapet Railing
Facility:

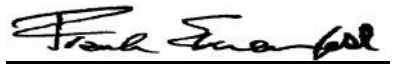
Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/18/2021
Date Analyzed: 01/21/2021
Signature: *Natalia Morais Soares*
Analyst: Natalia Morais Soares

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EnviroScience, Inc.
5070 Stow Road
Stow OH 44224

Client: ENV507

Report Date: 1/21/2021
Report No.: 626739 - PLM
Project: ODOT District 12 Bridges-CUY
Project No.: 33582

Appendix to Analytical Report

Customer Contact: Chuck Kessler

Method: 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, and USEPA 600, R93-116 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: wchampion@iatl.com

iATL Account Representative: House Account

Sample Login Notes: See Batch Sheet Attached

Sample Matrix: Bulk Building Materials

Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

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Stow OH 44224

Client: ENV507

Report Date: 1/21/2021
Report No.: 626739 - PLM
Project: ODOT District 12 Bridges-CUY
Project No.: 33582

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite (https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf)

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1) **Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% for most samples.

CERTIFICATE OF ANALYSIS

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Stow OH 44224

Client: ENV507

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Project: ODOT District 12 Bridges-CUY
Project No.: 33582

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.
*With advance notice and confirmation by the laboratory.

**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).



9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054
 Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody

-Bulk Asbestos -

Contact Information	
Client Company: <u>EnviroScience Inc</u>	Project Number: <u>33582</u>
Office Address: <u>5070 Stow Road</u>	Project Name: <u>ODOT District 12 Bridges- CUY</u>
City, State, Zip: <u>Stow, Ohio 44224</u>	Primary Contact: <u>Chuck Kessler</u>
Fax Number: _____	Office Phone: <u>330-688-0111</u>
Email Address: <u>ckessler@enviroscienceinc.com</u>	Cell Phone: <u>330-592-9619</u>

PLM Instructions:	
<input checked="" type="checkbox"/> PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010	
<input type="checkbox"/> TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009	
<input type="checkbox"/> PLM: Point Counting	<input type="checkbox"/> PLM: Analyze Until Positive (Positive Stop)
<input type="checkbox"/> PC: via ELAP 198.1	<input type="checkbox"/> AUP: by Homogenous Area as Noted
<input type="checkbox"/> PC: 400 Points	<input type="checkbox"/> AUP: by Material Type as Noted
<input type="checkbox"/> PC: 800 Points *	<input type="checkbox"/> PLM: NOB via 198.6
<input type="checkbox"/> PC: 1600 Points *	<input type="checkbox"/> PLM: Friable via EPA 600 2.3
<input type="checkbox"/> PLM: Instructions for Multi-Layered Samples	<input type="checkbox"/> If <1% by PLM, to TEM via 198.4 *
<input type="checkbox"/> Analyze and Report All Separable Layers per EPA 600	<input type="checkbox"/> If <1% by PLM, Hold for Instructions
<input type="checkbox"/> Report Composite for Drywall Systems per NESHAP	<input type="checkbox"/> PLM: Non-Building Material *** (Dust, Wipe, Tape)
<input type="checkbox"/> Report All Layers and Composite Where Applicable	<input type="checkbox"/> Soil or Vermiculite Analysis *
<input type="checkbox"/> Only Analyze and Report Specifically Noted Layer	<input type="checkbox"/> CARB 435
Special Instructions: _____	
* Additional charge and turnaround may be required ** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory	

Turnaround Time	
Preliminary Results Requested Date: <u>January 22, 2021</u>	<input type="checkbox"/> Verbal <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax
<input type="checkbox"/> 10 Day <input type="checkbox"/> 5 Day <input checked="" type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day* <input type="checkbox"/> 12 Hour** <input type="checkbox"/> 6 Hour** <input type="checkbox"/> RUSH**	Specific date / time
* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***	

Chain of Custody			
Relinquished (Name/Organization): <u>C. Kessler/EnviroScience Inc</u>	Date: <u>1/14/21</u>	Time: <u>13:00</u>	
Received (Name / iATL): _____	Date: _____	Time: _____	
Sample Login (Name / iATL): _____	Date: _____	Time: _____	
Analysis(Name(s) / iATL): <u>NMS</u>	Date: <u>01.21.2021</u>	Time: _____	
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____	
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____	Time: _____

Sample Log

-Bulk Asbestos -

Client: ODOT District 12 Project: CUY-480-7.920 Rocky River Dr over EB I-480 Ramp

Sampling Date/Time: 01/13/21 14:10

Bulk Asbestos Sample Log			
Client Sample #	IATL #	Location/Description	Notes
Rock-1	7129130	6" Gas Line Casing	Mastick Packing
Rock-2	7129131	6" Gas Line Casing	Pipe Wrap
Rock-3	7129132	6" Gas Line Casing	Pipe Wrap
Rock-4	7129133	Vandel Fence Mounting Bracket	Caulking
Rock-5	7129134	Vandel Fence Mounting Bracket	Caulking
Rock-6	7129135	Parapet Railing	Joint Caulking
Rock-7	7129136	Parapet Railing	Joint Caulking

Batch # 626739 -
 Analyst: Natalia Morais Soares
 Date: 1/21/2021
 Client ID: ENV507
 Station ID: 12
 Reviewed By: _____

iATL#	Color	%	Asb	%	NAsb	%	Notes
Client#	Material Type	Asb		NAsl		NF	Optical Properties
7129130	Black		Nor ▼	10	Syn ▼	90	
Rock-1	Mastic						0 4 1.550 Yes 0 und
7129131	Grey		Nor ▼	40	Syn ▼	60	
Rock-2	Wrap						0 4 1.550 Yes 0 und
7129132	Grey		Nor ▼	40	Syn ▼	60	
Rock-3	Wrap						0 4 1.550 Yes 0 und
7129133	Grey		Nor ▼		Nor ▼	100	
Rock-4	Caulk						0 4 1.550 Yes 0
7129134	Grey		Nor ▼		Nor ▼	100	
Rock-5	Caulk						0 4 1.550 Yes 0
7129135	Grey		Nor ▼		Nor ▼	100	
Rock-6	Caulk						0 4 1.550 Yes 0
7129136	Grey		Nor ▼		Nor ▼	100	
Rock-7	Caulk						0 4 1.550 Yes 0

Analyst Batch Comments:
 END OF SAMPLE LOG

Rock-4 and Rock-5
Vandal Fence
Mounting Bracket

📍 41.41929, -81.83085

Rock-1 Mastic Packing

Rock-2 and Rock-3
Pipe Wrap

Rock-6 and Rock-7
Parapet Railing Joint
Caulking





PHOTO 1
Looking north at CUY-480-7.920
bridge



PHOTO 2
Vandal fence mounting bracket.
Sample taken from caulking.



PHOTO 3
Transite pipe and coupler.
Sample taken from coupler.



PHOTO 4
View looking at underside of structure. Samples taken at pipe wrap and mastic packing material.



PHOTO 5
View looking at underside of structure. PVC pipes present.



PHOTO 6
View looking at the bridge seat that is all metal.



PHOTO 7
View looking at underside of structure. Transite pipe present.

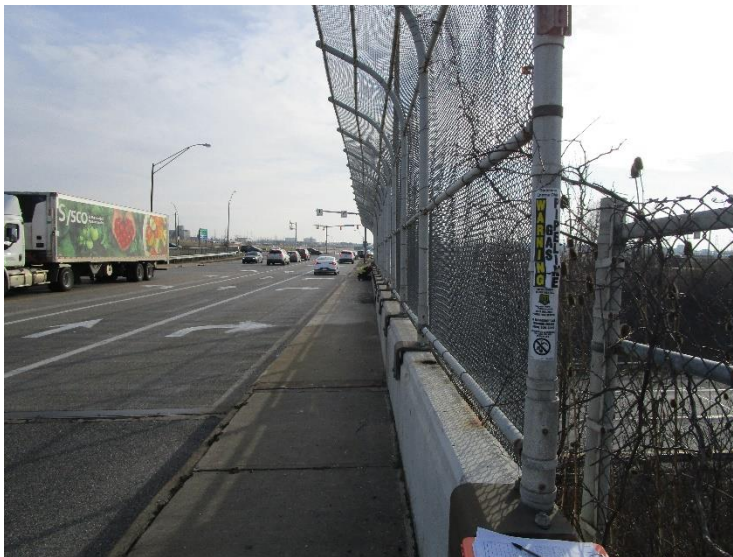


PHOTO 8
View looking south at the west side of the bridge. Samples taken from parapet railing joint caulking.



PHOTO 9
PVC pipe on underside of structure. Casings are rotted out.



Notification of Demolition and Renovation/Abatement

Section 1: General Information

Division of Air Pollution Control

Work on projects cannot begin until 10 working days after a COMPLETE original notification form, **including payment**, is submitted to Ohio EPA. Instructions and a worksheet for fee calculation are available at epa.ohio.gov/asbestos. This form can be completed, and payment made, at ebiz.epa.ohio.gov. Questions? asbestos@epa.ohio.gov or (614) 466-0061.

Ohio EPA Use Only	Notification #:	Postmarked: / /	Received: / /	<input type="checkbox"/> Hand-Delivered
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1) Notification Information (Check all that apply)

<input checked="" type="checkbox"/> Original	<input type="checkbox"/> Revision # (count):	<input type="checkbox"/> Installation	<input type="checkbox"/> Emergency	<input type="checkbox"/> Annual	<input type="checkbox"/> Cancellation	Project County: Cuyahoga
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2) Owner, Asbestos Abatement Contractor, Billing and Fire Department Information Revised?

Owner			
Name: Ohio Department of Transportation			Is this a company? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Address: 5500 Transportation Blvd		Contact Person: Mark Carpenter	
City: Garfield Heights	State: OH	Zip: 44125 -	
Email: Mark.Carpenter@dot.state.oh.us	Phone: (216) 584 - 2089	Fax: () -	
Asbestos Abatement Contractor (if applicable)			
Name:	License #: AC	Expiration Date: / /	
Address:		Contact Person:	
City:	State:	Zip: -	
Email:	Phone: () -	Fax: () -	
Billing Contact			
Is this contact associated with the <input type="checkbox"/> Owner, <input type="checkbox"/> Asbestos Abatement Contractor, or <input type="checkbox"/> Demolition Contractor (if not installation)?			
Address:		Contact Person:	
City:	State:	Zip: -	
Email:	Phone: () -	Fax: () -	
Fire Department (if applicable)			
Name:			
Address:		Contact Person:	
City:	State:	Zip: -	
Email:	Phone: () -	Fax: () -	

3) Ohio Asbestos Hazard Evaluation Specialist and Evaluation Procedure Revised?

Evaluation Specialist: Charles Kessler	Certification #: ES 34704	Expiration Date: 10 / 7 / 2021
Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of regulated asbestos-containing material (RACM) and Category I and Category II non-friable asbestos-containing material: <input checked="" type="checkbox"/> PLM <input type="checkbox"/> Point Count <input type="checkbox"/> TEM <input type="checkbox"/> Other Method (Explain Below):		
Bulk Sampling w/point count of samples that are less than 10% asbestos containing		

4) Procedures to be followed should unexpected RACM be discovered (check all that apply) Revised?

<input checked="" type="checkbox"/> Stop work and keep wet	<input type="checkbox"/> Evacuate area	<input type="checkbox"/> Demarcate area	<input type="checkbox"/> Contact licensed abatement contractor
<input type="checkbox"/> Contact district office/local air authority			
<input checked="" type="checkbox"/> Other (Explain): Notify ODOT Project Engineer and Project Superintendent			

5) Planned Demolition (check all that apply) Revised?

Describe demolition work to be performed and method(s) to be employed, including demolition techniques to be used:	
<input type="checkbox"/> Implosion	<input type="checkbox"/> Fire Training <input checked="" type="checkbox"/> Wet Methods <input checked="" type="checkbox"/> Manual Demolition <input checked="" type="checkbox"/> Mechanical Demolition <input type="checkbox"/> Other (Explain):
Existing structure components will be removed by industry standard means and methods	

Notification of Demolition and Renovation/Abatement

Section 1: General Information

Continued

Mail completed form and payment to:
Ohio EPA, DAPC – Asbestos
P.O. Box 1049, Columbus, OH 43216-1049

Description of affected facility components (include attachment if necessary):

(Revised 02/18) Page 1 of 3

6) Asbestos Description and Engineering Controls (if asbestos is being abated) Revised?

For the material listed in each project, describe the type(s) of ACM to be abated, engineering controls and work practices to be used to minimize emissions and ensure proper waste handling:

Type of ACM to be abated:	<input type="checkbox"/> Surfacing	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Other		
Engineering Controls:	<input type="checkbox"/> Wet Methods	<input type="checkbox"/> Glove Bag	<input type="checkbox"/> NPE	<input type="checkbox"/> AFD	<input type="checkbox"/> Other:
Work Practices:	<input type="checkbox"/> Intact Removal	<input type="checkbox"/> Manual	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Other:	

7) Asbestos Waste Transporter (if applicable) Revised?

Transporter #1 Name:		
Address:		Contact Person:
City:	State:	Zip: -
Email:	Phone: () -	Fax: () -
Transporter #2 Name (if applicable):		
Address:		Contact Person:
City:	State:	Zip: -
Email:	Phone: () -	Fax: () -

8) Asbestos Waste Disposal Site (if applicable) Revised?

Name:		
Address:		Contact Person:
City:	State:	Zip: -
Email:	Phone: () -	Fax: () -

9) Emergency Demolition (complete if you checked "Emergency" above and "Demolition" for any project) Revised?

A copy of the issued order, including the following information, **must be attached** to this notification.

Government Official Issuing Order:	Title:
Agency:	Authority of Order (Citation of Code):
Date of Order: / /	Demolition Date: / /

10) Emergency Renovation/Abatement (complete if you checked "Emergency" above and "Renovation/Abatement" for any project) Revised?

Date of Emergency: / /	Time of Emergency: : <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
Description of Sudden, Unexpected Event:	
Explanation of how the event caused unsafe conditions or equipment damage:	

11) Attestation Revised?

In accordance with Ohio Administrative Code rule 3745-20-03(A)(4)(p), I certify that at least one person trained as required by paragraph (B) of rule 3745-20-04 of the Administrative Code will supervise the stripping and removal described by this notification. I acknowledge that the submission of false or misleading statements is prohibited by law and I certify that facts contained in this notification are true, accurate, and complete.

Signature:	Date: / /
Name: Mark Carpenter	Title: District 12 Environmental Engineer
Organization: Ohio Department of Transportation	



Notification of Demolition and Renovation/Abatement

Section 2: Project Address Specific Information

Division of Air Pollution Control

Please complete Section 2 for the address included with this notification. If the project is an "Installation" per OAC 3745-20, complete a separate Section 2 page for each address associated with this notification.

Ohio EPA Use Only	Project ID #: _____
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A. Facility Description Revised?

Building Name (if applicable): CUY-480-7.920	Site Location (specific): Rocky River Drive over I-480 Ramp SFN 1810332	
Address: Rocky River Drive over I-480 EB Ramp, Coordinates: 41.41929, -81.83085		
City: Cleveland	State: OH	Zip: 44135 -
Building Size (square feet):	No. of Floors:	Age: 41
Present Use: Highway Bridge		Prior Use: Highway Bridge

B. Type of Operation (check all that apply) Revised?

<input checked="" type="checkbox"/> Demolition	<input type="checkbox"/> Renovation/Abatement – Type: <input type="checkbox"/> Removal <input type="checkbox"/> Repair <input type="checkbox"/> Encapsulation <input type="checkbox"/> Enclosure
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C. Asbestos Present (check one) Revised?

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No, previously abated	Year Abated: _____
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D. Approximate Amount of Asbestos-Containing Materials (complete table below and Section 1 #6 if asbestos is present) Revised?

	Material to be Removed				Material NOT to be Removed	
	RACM	Non-friable Asbestos-Containing Material		Non-friable Asbestos-Containing Material		
		Category I	Category II	Category I	Category II	
Pipes (linear feet)	375					
Surface area on other facility components (ft ²)						
Volume if length or area cannot be measured (ft ³)						

E. Asbestos Abatement Schedule and Abatement Specialist (original notification is required 10 working days prior to the start of work) Revised?

Setup Date: / /	Abatement Date: / /	Complete Date: / /					
(Shift 1) Time start/end on site	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Abatement Specialist Name:		Certification #: AS			Expiration Date: / /		
(Shift 1) Time start/end on site	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Abatement Specialist Name:		Certification #: AS			Expiration Date: / /		

F. Demolition Contractor (if applicable) Revised?

Name:		
Address:	Contact Person:	
City:	State:	Zip: -
Email:	Phone: () -	Fax: () -

G. Demolition Schedule (original notification is required 10 working days prior to the start of work) Revised?

Start Date: / /	Complete Date: / /
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H. Project Hold Revised?

Hold Begin Date: / /	Work Resume Date: / /
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