

October 25, 2019

Mr. Chuck Kessler Enviroscience, Inc. 5070 Stow Road Stow, Ohio 44224

Subject: Report of Findings of an Asbestos Survey Conducted of the East 98th Street Bridge over Interstate 480 Located in Garfield Heights, Cuyahoga County, Ohio (CUY – 480-19.550, SFN 1812556) (HZW Project No. H19336)

Dear Mr. Kessler:

HZW Environmental Consultants, LLC (HZW) is pleased to submit this letter report that presents the findings of an asbestos survey conducted at the East 98th Street bridge over Interstate 480 located in Garfield Heights, Ohio, herein referred to as the "subject bridge". As indicated by Enviroscience, Inc. (the Client), the purpose of the asbestos survey was to identify asbestos-containing materials (ACMs) located at the subject bridge prior to manual demolition activities being performed. A highway map documenting the location of the subject bridge is included as **Attachment 1**. Discussions of the methods of investigation, the findings and recommendations are provided separately below.

Methods of Investigation

General

Initially, as part of the asbestos survey, HZW requested the original construction plans for the subject bridge from the Client to assist in identifying ACMs and suspect ACMs used during construction. The original construction plans for the bridge were submitted to HZW by the Client and, therefore, were reviewed by HZW prior to performing the physical inspection of the bridge.

Subsequent to this review, a representative of HZW, certified by the Ohio Environmental Protection Agency (OEPA) as an Asbestos Hazard Evaluation Specialist (AHES), performed a physical inspection of the subject bridge to visually identify and sample accessible building materials suspected of containing asbestos. The asbestos survey of the subject bridge was conducted in accordance with the Environmental Protection Agency's (EPA) National Emissions Standard for Hazardous Air Pollutants (NESHAP) survey protocol. NESHAP regulations require no specific survey protocol be followed; however, the Asbestos Hazard Emergency Response Act (AHERA) protocol is recommended. Therefore, the asbestos survey of the subject bridge was conducted in accordance with AHERA protocol.

Bulk Sampling Protocol

In accordance with AHERA, HZW classified each homogeneous area/building material suspect for containing asbestos into one (1) of three (3) categories, based on the material's ability to be crumbled, pulverized, or reduced to powder by hand pressure (herein referred as "friable"), prior to performing the bulk sampling activities. These three (3) categories are as follows:

Surfacing Materials	Thermal System Insulation (TSI)	Miscellaneous Friable and Nonfriable Materials			
Examples include fireproofing and acoustical plaster.	Examples include, but are not limited to pipe lagging, pipe wrap, block insulation, batt insulation and mudded fitting insulation.	Examples of miscellaneous friable materials include, but are not limited to ceiling tile, drywall and joint compound. Examples of nonfriable materials include, but are not limited to, floor tile and mastic, roofing materials and transite.			

Once categorized, HZW subsequently determined the quantity of each homogeneous area/building material. HZW based the bulk sampling protocol on the AHERA category assigned to a specific homogeneous area/building material and the quantity of that area/material identified. The bulk sampling protocol performed at the subject bridge consisted of the following:

- For Surfacing Materials, if the quantity of the homogeneous area/material is less than 1,000 square feet (ft²), HZW collects a minimum of three (3) samples from this area/material. If the size of the homogeneous area/material is between 1,000 and 5,000 ft², then HZW collects a minimum of five (5) samples from this area/material. If the size of the homogeneous area/material is greater than 5,000 ft², then HZW collects a minimum of seven (7) samples from this area/material.
- For TSI, HZW either assumes the suspect material contains asbestos or collects at least three (3) bulk samples from each specific homogeneous area/material identified.
- For Miscellaneous Friable Materials and Nonfriable Materials, the number of bulk samples HZW collects of these materials is at the discretion of the inspector and in a "manner sufficient" to prove the asbestos content of the material.

Condition Categorization

In determining the condition of a material, HZW used the following guidelines:

General Damage Category	Criteria					
Good	No Damage					
Fair	Up to 10% overall damage Up to 25% localized damage					
Poor	Over 10% overall damage Over 25% localized damage					

Analytical Laboratory

Any bulk samples collected were submitted to CA Labs, LLC of Baton Rouge, Louisiana, for analysis of asbestos content by polarized light microscopy (PLM) using the Environmental Protection Agency (EPA) Method 600/R-93/116. If applicable, buildings materials identified by PLM as containing two (2) percent asbestos or less were subsequently analyzed by 400 Point Count Methodology

ASBESTOS REGULATIONS

Federal Regulations

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 buildings materials which contain any amount of asbestos. Buildings owners and/or contractors who perform renovation and/or demolition activities which disturb buildings materials identified as containing asbestos are required to conduct these activities in accordance with OSHA's Asbestos Standard. An asbestoscontaining material (ACM), as defined by OSHA and the EPA, is any material containing more than one percent (1%) asbestos as determined by Polarized Light Microscopy (PLM).

The Asbestos NESHAP (40 C.F.R. Part 61, Subpart M) regulates which ACMs must be removed prior to renovation and demolition activities being performed. If the quantity of regulated ACMs (RACMs) to be disturbed as part of a renovation or demolition activity meets or exceeds 160 square feet on facility components, 260 linear feet on pipes or 35 cubic feet off facility components, then the activity would be regulated under the Asbestos NESHAP. RACMs are defined as 1) friable ACMs, 2) Category I Nonfriable ACMs that has become friable, 3) Category I Nonfriable ACMs that will be or have been subjected to sanding, grinding, cutting or abrading, or 4) Category II Nonfriable ACMs that have a high probability of becoming or have become crumbled, pulverized, or reduced to powder by the forces expected to act on the materials in the course of the demolition or renovation activities. A friable ACM is a material that when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Examples of friable ACMs consist of asbestos-containing pipe insulation, fireproofing, and ceiling tile. Examples of Category I Nonfriable ACMs consist of asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products. Examples of Category II Nonfriable ACMs consist of any material, excluding Category I Nonfriable ACMs.

State Regulations

The Ohio EPA Asbestos regulations are under Chapter 3745-20 and 3745-22 of the Ohio Administrative Code (OAC) also referred to as the "Emission Control Rules". Chapter 3745-20 is nearly identical to the Asbestos NESHAP, 40 CFR, Part 61, Subpart M, cited above. Chapter 3745-22 is the former Ohio Department of Health asbestos "Licensing Rules", which on January 1, 2018, were adopted by the Ohio EPA. Chapter 3745-22 encompasses the rules governing asbestos hazard abatement contractors, specialists, project designers, workers, and training courses.

Under the Asbestos NESHAP and Ohio EPA Asbestos regulations the "Notification of Demolition and Renovation/Abatement" form is required to be submitted ten (10) days prior to any of the following activities being performed:

- Demolition of a facility, regardless of whether asbestos is involved. This includes all structure that will be intentionally burned for fire training purposes.
- Renovation of a facility when the amount of RACM stripped, removed, dislodged, cut, drilled, or similarly disturbed exceeds 260 linear feet on pipes or 160 square feet on other facility components or 35 cubic feet off facility components.
- Abatement at a facility when the activity involves the removal, renovation, enclosure, repair or
 encapsulation of *friable* ACMs in an amount greater than 50 linear feet on pipes or 50 square
 feet on other facility components.

FINDINGS AND DISCUSSION

The findings of the asbestos survey conducted at the subject bridge are presented below. These findings are based on HZW's review of the construction plans, physical inspection of the bridge and the analytical results for any bulk samples collected. A photographic log compiled during the physical inspection; a site sketch depicting the bridge and bulk sampling locations; and a copy of the laboratory analytical report for the bulk samples collected at the bridge are included as **Attachments 2 through 4**, **respectively**.

Construction Plan Review

HZW reviewed construction plans dated December 5, 1974 (Pages 1, 4-6, 11, 14-20, 25–36, 40-50). It should be noted that these construction plans were not specific to the subject bridge but were reviewed due to the construction work being directly adjacent to the bridge limits. Based on our review of the construction plans, three (3) suspect ACMs were identified. It should be noted that the suspect building materials identified during the construction plan review were considered suspect materials based on the assumption that these materials are coated or comprised of an ACM, physically contain ACM, or are identified by their description as an "asbestos" material. The suspect materials identified during the construction plan review consisted of the following:

- 1. Joint Seal running length of bridge deck. The joint seal is considered suspect for containing asbestos. The quantity of this suspect material located on the bridge structure is unknown.
- 2. Preformed Sealer located in transverse joints. The preformed sealer is considered suspect for containing asbestos. The quantity of this suspect material located on the bridge structure is unknown.
- 3. Preformed expansion joint filler located in transverse joints. The preformed expansion joint filler is considered suspect for containing asbestos. The quantity of this suspect material located on the bridge structure is unknown.

It should be noted that all suspect building materials identified during the construction plan review are assumed to contain asbestos until they can be accessed and physically touched and inspected and rendered non-suspect building materials and/or sampled and subsequently analyzed by polarized light microscopy and found not to contain greater than one (1) percent asbestos.

Physical Inspection

During the physical inspection of the bridge, HZW could not locate Item Nos. 1 through 3 identified during the construction plan review. However, four (4) suspect ACMs were visually identified during the physical inspection. These suspect materials consisted of the following:

ID	Suspect Material/Condition	Location	Sample No.	Asbestos Content (Percent)	Quantity of ACM Identified		
Α	Caulk - Black	Topside of Bridge:	01	ND	West 200		
	Fair Condition	Parapet Wall Fence Base	02	ND	NA		
В	Foam Gasket – Gray	Topside of Bridge:	03	ND	photo ex		
	Fair Condition	Between Parapet Wall Slabs	04	ND	NA		
С	Fibrous Column Wrap	Underside of Bridge: At Base of North End Columns	05	ND			
	Fair Condition		06	ND	NA		
D	Cementitious Conduit – 6-inch	Underside of Bridge: Running Length of Bridge on	01	20 1,062 ln.ft.			
	diameter Fair Condition	East Side	02	NA	(3 Conduits)		

ND = None Detected; NA = Not Applicable

Limitations of Survey

During the physical inspection of the bridge, access could not be obtained to the electrical boxes located in the parapet walls of the subject bridge.

RECOMMENDATIONS

Based on the findings from the asbestos survey conducted at the subject bridge, the following recommendations are presented for consideration:

- Notify any outside contractor(s), prior to them working on the subject bridge, of the presence of
 the asbestos-containing cementitious conduit. In addition, even though not identified on the
 bridge structure during the physical inspection, the suspect building materials identified during
 the construction plan review may still be present on the structure; hence outside contractor(s)
 should be notified that these suspect building materials may be present on the bridge structure.
- 2. If renovation activities have the potential to disturb the asbestos-containing cementitious conduit identified at the subject bridge, then a licensed asbestos abatement contractor should be retained to abate this material prior to it being disturbed.

- 3. Submit the Ohio EPA "Notification of Demolition and Renovation" form to the Ohio EPA 10 days prior to any of the following activities being performed.
 - Demolition of a facility, regardless of whether asbestos is involved. This includes all structure that will be intentionally burned for fire training purposes.
 - Renovation of a facility, when the amount of RACM stripped, removed, dislodged, cut, drilled, or similarly disturbed exceeds 260 linear feet on pipes or 160 square feet on other facility components or 35 cubic feet off facility components.
 - Abatement at a facility, when the activity involves the removal, renovation, enclosure, repair or encapsulation of friable ACM in an amount greater than 50 linear feet on pipes or 50 square feet on other facility components.

HZW has completed a copy of the OEPA's Notification form for the subject bridge. Only the asbestos-containing cementitious conduit is quantified on the OEPA Notification form. A copy of the completed form is included as **Attachment 5**.

4. If the asbestos-containing cementitious conduit is to remain in place, implement an operations and maintenance (O&M) program whereby this material is continually evaluated and maintained by trained personnel.

HZW appreciates the opportunity you have given us to provide professional services to Enviroscience, Inc. Should you have any questions regarding the information presented in this letter report, please do not hesitate to contact us.

Sincerely,

HZW ENVIRONMENTAL CONSULTANTS, LLC

Carmen Rocco

Certified Asbestos Hazard Evaluation Specialist (OEPA Licensed No. ES33794)

Joan A. Sablar

Certified Asbestos Hazard Evaluation Specialist (OEPA Licensed No. ES31228)

CR:cr\jas\H19336

Attachments

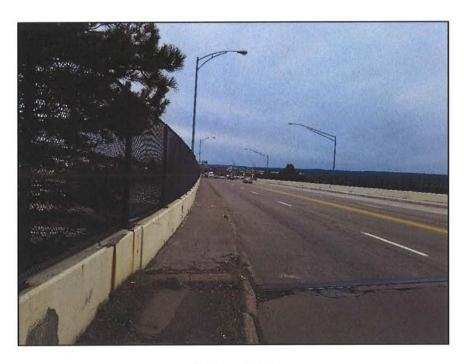
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> AERIAL PHOTOGRAPH DOCUMENTING THE BRIDGE LOCATION



Aerial of the East 98th Street Bridge over Interstate 480 Garfield Heights, Ohio

> PHOTOGRAPHIC LOG



Photograph 01

View Looking South at the Top of the East 98th Street Bridge over Interstate 480, Garfield Heights, Cuyahoga County, Ohio



Photograph 02

View Looking North at the Top of the East 98th Street Bridge over Interstate 480, Garfield Heights, Cuyahoga County, Ohio



Photograph 03

View Looking Southwest at the Underside of the East 98th Street Bridge over Interstate 480, Garfield Heights, Cuyahoga County, Ohio



Photograph 04

View Looking Northeast at the Underside of the East 98th Street Bridge over Interstate 480, Garfield Heights, Cuyahoga County, Ohio

> SITE SKETCH OF BRIDGE



6105 Heisley Road • Mentor, Ohio 44060 Phone 440-357-1260 • 800-804-8484 Fax 440-357-1510 A Woman-Owned Business Enterprise

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▶ LABORATORY ANALYTICAL REPORT

Dedicated to Quality CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

HzW Environmental Consultants

Attn: Joan Sablar
Customer Project: East 98th Street over 480 Bridge

6105 Heisley Rd. Mentor, OH 44060

Reference #: CBR19105706

Date: 10/15/2019

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763. Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AlHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

Dedicated to Quality CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project: East 98th Street over 480 Bridge CA Labs Project #: CBR19105706

Sample # Layer Analysts Physical Description of # Subsample Calibrated visual estimate percent Asbestos type / calibrated visual estimate percent List of Affected Building Material Types

No Asbestos Detected.

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate gypsum - gypsum bi - binder

or - organic ma - matrix

mi - mica ve - vermiculite ot - other pe - perlite qu - quartz

fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic ce - cellulose br - brucite

ka - kaolin (clay)

pa - palygorskite (clay)

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Dedicated to Quality

CA Labs, L.L.C.

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NVLAP #200772-0 TDSHS #300370 **CDPHE #AL-18111** LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Joan Sablar HzW Environmental Consultants

6105 Heisley Rd.

Mentor, OH 44060

Customer Project:

East 98th Street over 480

Bridge

10/15/2019 10/9/2019

Turnaround Time: 5 day

Date: Samples Received:

Date Of Sampling: Purchase Order #:

CA Labs Project #:

CBR19105706

H19336

Phone # 440-357-1260 Fax # 440-357-1510

Sample # Com Layer ment

Analysts Physical Description of Subsample

Homogeneo us

Asbestos type / calibrated visual estimate percent Non-asbestos fiber type / percent

Non-fibrous type / percent

(Y/N)

01	1	Black Sealant	Y	None Detected	2% fg	98% qu, ma, bi
02	1	Black Sealant	Y	None Detected	2% fg	98% qu, ma, bi
03	1	Gray Insulation	Υ	None Detected		100% qu, ma, bi, ca
04	1	Gray Insulation	Y	None Detected		100% qu, ma, bi, ca
05	1	Gray Insulation	Y	None Detected	60% ce	40% qu, ma, bi
06	1	Gray Insulation	Υ	None Detected	60% ce	40% qu, ma, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

ta - talc

sy - synthetic

ca - carbonate gypsum - gypsum bi - binder

or - organic

ma - matrix

mi - mica ve - vermiculite ot -other pe - perlite

qu - quartz

identification of asbestos types by dispersion attaining / becke line method. tg - tiberglass mw - mineral wool wo - wollastinite

ce - cellulose br - brucite ka - kaolin (clav) pa - palygorskite (clay)

Approved Signatories:

Didney Pintorso

Sidney Pinkerton Analyst

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages

3, Actinolite in association with Vermiculite

Layer not analyzed - attached to previous positive layer and contamination is suspected
 Not enough sample to analyze

Anthophyllite in association with Fibrous Talc
 Contamination suspected from other building materials
 Favorable scenario for water separation on vermiculite for possible analysis by another method

9. < 1% Result point counted positive 10. TEM analysis suggested

C.A. Labs, LLC 12232 Industriplex Suite 32

Baton Rouge, LA 70809

Phone: 225-751-5632 Fax: 225-751-5634 Mobile: 225-993-3471

East 98 In Skeet our 480 Bridge

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NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

HzW Environmental Consultants

Attn: Joan Sablar

6105 Heisley Rd. Mentor, OH 44060 Customer Project: East 98th Street Bridge over State Route 480

rence #: CBR19105902

Date: 10/21/2019

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

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Dedicated to Quality

CA Labs, L.L.C.

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project: East 98th Street Bridge over State Route 480 CA Labs Project #: CBR19105902 Asbestos type / Layer Analysts Physical Description of Sample # List of Affected Building Subsample calibrated visual Material Types estimate percent Gray Transite Gray Transite 20% Chrysotile

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate

gypsum - gypsum bi - binder

or - organic ma - matrix mi - mica ve - vermiculite

ot - other

pe - perlite

gu - guartz

tg - fiberglass

mw - mineral wool

pa - palygorskite (clay)

wo - wollastinite

ta - talc

sy - synthetic

ce - cellulose

br - brucite

ka - kaolin (clay)

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

CA Labs, L.L.C.

Dedicated to Quality

12232 Industriplex, Suite 32 Baton Rouge, LA 70809 Phone 225-751-5632 Fax 225-751-5634



NVLAP #200772-0 TDSHS #300370 CDPHE #AL-18111 LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info:

Attn: Joan Sablar

Customer Project:

CA Labs Project #:

CBR19105902

HzW Environmental Consultants 6105 Heisley Rd.

Mentor, OH 44060

East 98th Street Bridge over

Date:

10/21/2019

State Route 480

Samples Received:

Phone #

440-357-1260

Turnaround Time: 4 hr

Date Of Sampling:

10/21/2019

Purchase Order #:

H19336

Fax# Sample # 440-357-1510

#

Com

Layer Analysts Physical Description of Homogeneo

Asbestos type / calibrated visual estimate percent Non-asbestos fiber type / percent

Non-fibrous type / percent

us (Y/N)

01

Gray Transite

Subsample

20% Chrysotile

80% qu, ma, ca

02

Gray Transite

Positive Stop

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116) Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate bi - binder

or - organic

ma - matrix

mi - mica gypsum - gypsum

ve - vermiculite

ot -other

pe - perlite

qu - quartz

fg - fiberglass mw - mineral wool ce - cellulose br - brucite

wo - wollastinite ta - talc sy - synthetic

ka - kaolin (clay)

pa - palygorskite (clay)

Approved Signatories:

Danul Saloun

Daniel LaCour Analyst

Senior Analyst Alicia Stretz

Laboratory Director Chris Williams

Chris William

Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 Fire Damage no significant fiber damages effecting fibrous percentages

3. Actinolite in association with Vermiculite

4. Layer not analyzed - attached to previous positive layer and contamination is suspected

5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc 7. Contamination suspected from other building materials

8. Favorable scenario for water separation on vermiculite for possible analysis by another method

< 1% Result point counted positive
 TEM analysis suggested

C.A. Labs, LLC. 12232 Industriplex Baton Rouge, LA 70809

Shipping \$20.00

Suite 32

Phone: 225-751-5632 Fax: 225-751-5634 Mobile: 225-993-3471

Cist 98Th Street Chain of Custody Steite Practe HPIN Environmental Client Name: CA Labs job # CBR Client Address: Billing Address: (if different) 060 phone number: 57-1260 Send Reports to: MFCFQUS CHZW ENV. COM fax number: Project Number: Project Name: Reports Results Contact: VIA: EMAILX VERBAL Total # Samples Submitted: Total # Samples to be Analyzed: Material Matrix: Air / Bulk / Water please call ahead for availability of all rush and/or after hours samples. Asbestos: TA Time TA Time TEM PLM TA Time Optical / IAQ Circle analysis and TA time Circle analysis and TA time 2 hour Allergen Particle: 2 hour AHERA Improved 4 hour 4 hour tape/bulk/swab 4 hour EPA Level II 8 hour Interim 8 hour Cyclex-d cassettes 8 hour **Drinking Water** 16 hour 16 hour Air-o-cell cassettes 16 hour Wipe 24 hour AHERA 24 hour Anderson cultures 24 hour Micro-vac 2 days 2 days Bulk/swab cultures 2 days NIOSH 7402 3 days Point Count 3 days Bacteria cultures 3 days Chatfield Bulk 5 days (NESHAPS) 5 days PCM: NIOSH 7400 5-10 days · Lead: Circle analysis and TA time Matrix: Paint Chips Soil Air Wipes Wastewater TCLP 8 hour TA Time: 1 day 2 days 3 days 5 days 6-10 days Sample Information: Sample Number: Sample Location: Sample Date/Time: Sample Volume (L) Revision 2 3/12/01 \data\wordpro\forms\ChainofCustody.lwp Page 1 Custody Information: Samples received Samples relinquished: Samples relinquished: Samples received: Signature / Date / Time Signature / Date / Time 5409 A4 1ST Point count 3% or 1885

> OEPA NOTIFICATION FORM



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, <u>including payment</u>, 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 C	Only Notification #:		Postmar	ked: /	/	Received:	1 1		☐ Hand-□	elivered
1) Notification	on Information (Check all that a	pply)								
○ Original	Revision # (count):	☐ Installation	☐ Emerg	ency 🔲	Annual	☐ Cancellation	Project Co	_{unty:} Cuyal	noga Co	unty
NESHAP Residential Exemption										
2) Owner, As	bestos Abatement Contractor,	Billing and Fire De	partment	Information	ı					Revised?
Owner										
Name: Ohio	Department of Transpo	rtation					Is	this a compa	ny? 🗌 Ye	es 🛛 No
Address: 550	Address: 5500 Transportation Boulevard Contact Person: Mark Carpenter									
City: Garfield	d Heights			State: Ohi	О		Zip: 4 4	125 -		
Email: Mark.	Carpenter@dot.state.o	h.us		Phone: (2	16) 584	4 - 2089	Fax: ()	-	
Asbestos Abate	ment Contractor (if applicable)						·			
Name:					License #: A	AC .		Expiration D	ate: /	/
Address:					Contact P	Person:				
City:				State:			Zip:	-		
Email:				Phone: ()	-	Fax: ()	-	
Billing Contact	(Entity paying for original notific	cation)								
Is this contact a	ssociated with the \(\Boxed{\omega}\) Owner,	Asbestos Aba	tement Co	ntractor, or	☐ Demoli	ition Contractor (i	f not installa	ation)?		
Address:				1	Contact P	Person:				
City:				State:			Zip:	-		
Email:				Phone: ()	-	Fax: ()	-	
Fire Departmer	nt (if applicable)									
Name:										
Address:				T	Contact P	Person:	1			
City:				State:			Zip:	-		
Email:				Phone: ()	-	Fax: ()	-	_
3) Ohio Asbe	stos Hazard Evaluation Speciali	st and Evaluation	Procedure							Revised?
Evaluation Spec	cialist: Carmen Rocco			Cer	tification #:	ES 33794	Expira	ation Date: 0	7 / 26 / 2	2020
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:										
NESHAP Asbestos Survey										
4) Procedures to be followed should unexpected RACM be discovered (check all that apply) Revised?										
Stop work	and keep wet	cuate area		emarcate a	rea	⊠ Co	ontact licens	sed abateme	nt contract	or
Contact district office/local air authority										
Other (Exp	ain):									
5) Planned Demolition (check all that apply) Revised?										
Describe demo	lition work to be performed and Fire Training Wet N							ain):		

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

Notification of Demolition and Renovation/Abatement

Section 1: General Information

Continued

Engineering Controls:	_										
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: Grind Gr	Description of affected facility	components (include att	achment if necessary)	:							
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: Grind Gr											
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: Project ACM to be abated: Surfacing Mechanical Other Cementitious Conduit	6) Asbestos Description and	Engineering Controls (if	asbestos is being aba	ited)							Revised?
Engineering Controls:	For the material listed in each	project, describe the type			ng cont	rols and wor	k practices t	to be used t	to minim	ize emis	ssions and
Work Practices:	Type of ACM to be abated:	Surfacing	Mechanical	☑ Other C	emer	ntitious C	onduit				
7) Asbettos Waste Transporter (if applicable)	Engineering Controls:	Wet Methods ■	Glove Bag	☐ NPE		AFD	□ o	ther:			
Transporter #1 Name: Address: Contact Person: Zip: - Fax:	Work Practices:	☑ Intact Removal	Manual	☐ Mechar	nical	Other:					
Address: Contact Person: Zip: -	7) Asbestos Waste Transpor	ter (if applicable)	1								Revised?
State: Zip: -	Transporter #1 Name:										
Email: Phone: ()	Address:				Conta	ct Person:					
Transporter #2 Name (if applicable): Address: City: State: Phone: Phone: Contact Person: Email: Phone: Contact Person: Revised? Revi	City:			State:				Zip:	-		
Address: State: Zip: -	Email:			Phone: ()	-		Fax: ()	-	
State: Zip:	Transporter #2 Name (if applic	cable):									
Email: Phone: () - Fax: () - 8) Asbestos Waste Disposal Site (if applicable) Contact Person: City: State: Zip: - Email: Phone: () - Fax: () - Phone: () - F	Address:				Conta	ct Person:					
Name: Revised?	City:			State:				Zip:	-		
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: a.m. 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)(A)(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: Date:	Email:			Phone: ()	-		Fax: ()	-	
Address: 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: / / 10) Emergency Renovation/Abatement (complete if you checked "Emergency" above and "Renovation/Abatement" for any project) Revised? Date of Emergency: / / Time of Emergency: a.m. 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: Date:	8) Asbestos Waste Disposal	Site (if applicable)									Revised?
State: Zip: -	Name:										
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: / / 10) Emergency Renovation/Abatement (complete if you checked "Emergency" above and "Renovation/Abatement" for any project) Revised? Date of Emergency: / / Time of Emergency: a.m. 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: Title:	Address:				Conta	ct Person:					
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Name: Title:	Administrative Code will super	vise the stripping and re	moval described by thi	is notification.	I ackn	owledge tha					
	Signature:					Da	te: / /				
Organization:	Name:			Title:							
	Organization:										



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.

Revised	Ohio EPA Use Only	Project ID #	# :									
State Stat	A. Facility Descr	iption				•				Revised?		
State OH Zip: - State Zip: - State OH Zip: - State OH Zip: - State Zip: - State	Building Name (if a	Building Name (if applicable): CUY-480-19.550 SFN 1812556 Site Location (specific): East 98th Street Bridge over Interstate 480										
Bullding Size (square feet): NA	Address: East 98th Street, Cuyahoga County, Coordinates: 41.412181, -81.615806											
Present Use: Milsc. Highway Bridge	City: Garfield He	City: Garfield Heights State: OH Zip: -										
Non-frieble	Building Size (squar	Suilding Size (square feet): NA No. of Floors: NA Age: 74, orig.										
Demolition	Prior Use: Misc. Highway Bridge Prior Use: Misc. Highway Bridge											
No. No. previously abated Year Abated No. No. previously abated Year Abated No. No. previously abated Year Abated No. Approximate Amount of Absestos-Containing Materials (complete table below and Section 1 #6 if asbestos is present) Revised?	B. Type of Opera	ation (check al	ll that apply)							Revised?		
No	☑ Demolition ☐ Renovation/Abatement – Type: ☐ Removal ☐ Repair ☐ Encapsulation ☐ Enclosure											
D. Approximate Amount of Asbestos-Containing Materials (complete table below and Section 1 #6 if asbestos is present)	C. Asbestos Pres	sent (check on	e)							Revised?		
Material to be Removed Material NOT to Removed Non-friable Abbestos-Containing Material Non-friable Abb	⊠ Yes □ No		No, previously abated	l Year A	bated:							
Non-friable Asbestos Containing Material Non-friable Asbestos Volume if alegebra Non-friable Asbestos Volume if alegebra Non-friable Non-	D. Approximate	D. Approximate Amount of Asbestos-Containing Materials (complete table below and Section 1 #6 if asbestos is present) Revised?										
Pipes (linear feet) Surface area on other facility components (ft²) Volume if length or area cannot be measured (ft²) E. Asbestos Abatement Schedule and Abatement Specialist (original notification is required 10 working days prior to the start of work) Setup Date: / / Abatement Date: / / Complete Date: / / (Shift 1) Time start/end on site Monday Tuesday Wednesday Thursday Friday Saturday Sunday Start/end on site Monday Tuesday Wednesday Thursday Friday Saturday Sunday Start/end on site Monday Tuesday Wednesday Thursday Friday Saturday Sunday Start/end on site Certification #: AS Expiration Date: / / / (Shift 2) Time start/end on site Monday Tuesday Wednesday Thursday Friday Saturday Sunday Sunday Sunday Sunday Sunday Start/end on site				Material to	be Remo	oved		Ма	terial NOT to	be Removed		
Pipes (linear feet) Surface area on other facility components (ft²) Volume if length or area cannot be measured (ft³) E. Asbestos Abatement Schedule and Abatement Specialist (original notification is required 10 working days prior to the start of work) Setup Date: / /				Non-fria	ble Asbe	estos-Containing Mate	erial	Non-friab	le Asbestos-C	ontaining Material		
Surface area on other facility components (ft²) Volume if length or area cannot be measured (ft²) E. Asbestos Abatement Schedule and Abatement Specialist (original notification is required 10 working days prior to the start of work) Revised? Setup Date: / /			RACM	Catego	ry I	Category	y II	Categ	ory I	Category II		
Components (ft²) Components	Pipes (linear feet)					1,062	2					
Volume if length or area cannot be measured (ft³)	_	ner facility										
Setup Date: / / Abatement Date: / / Complete Date: / / (Shift 1) Time start/end on site	Volume if length or	area cannot										
Chiff 1) Time start/end on site Monday Tuesday Mednesday Thursday Friday Saturday Sunday	E. Asbestos Aba	tement Sched	ule and Abatement Spe	cialist (original n	otificati	on is required 10 wor	rking days p	rior to the sta	rt of work)	Revised?		
Abatement Specialist Name: (Shift 2) Time start/end on site Abatement Specialist Name: (Shift 2) Time start/end on site Abatement Specialist Name: (Shift 2) Time start/end on site Abatement Specialist Name: (Certification #: AS (Certi	Setup Date: /	/	Abater	nent Date: /	/		Com	plete Date:	/ /			
Abatement Specialist Name: (Shift 2) Time start/end on site Abatement Specialist Name: (Shift 2) Time start/end on site Abatement Specialist Name: Certification #: AS Expiration Date: / / Expiration Date: / / Revised? Name: Address: Contact Person: City: State: Contact Person: Email: Phone: () Fax: () Revised? Fax: () Revised? Contact Person:	(Shift 1) Time	Monday	, Tuesday	Wednesday		Thursday	Frida	ау	Saturday	Sunday		
Monday Tuesday Wednesday Thursday Friday Saturday Sunday	start/end on site											
Abatement Specialist Name: Certification #: AS	Abatement Speciali	ist Name:			Certification #: AS				Expiration Date: /			
Abatement Specialist Name: F. Demolition Contractor (if applicable) Name: Address: City: Email: Demolition Schedule (original notification is required 10 working days prior to the start of work) Revised? Contact Person: Zip: -	' '	Monday	, Tuesday	Wednes	day	Thursday	Frida	ау	Saturday	Sunday		
F. Demolition Contractor (if applicable) Name: Address: Contact Person: City: Email: Demolition Schedule (original notification is required 10 working days prior to the start of work) Revised? Contact Person: Zip: - Fax: () - Fax: () - Revised?	start/end on site											
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?	Abatement Speciali	ist Name:			Certifi	ication #: AS			Expiration Da	ate: / /		
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?		ontractor (if a	pplicable)							Revised?		
City: State: Zip: - Email: Phone: () - Fax: () - G. Demolition Schedule (original notification is required 10 working days prior to the start of work) Revised?						<u> </u>						
Email: Phone: () - Fax: () - G. Demolition Schedule (original notification is required 10 working days prior to the start of work) Revised?												
G. Demolition Schedule (original notification is required 10 working days prior to the start of work) Revised?								-	-			
Start Date: / /			nal notification is requir	ed 10 working da)			Revised?		
H. Project Hold Revised?		, ,			Mod D	osumo Dots: /	/			Kevised?		
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