

## CUY-90-14.90

PID 77332/85531

## **APPENDIX EC-21**

## Asbestos Survey of Bridges 10, 14 & 15 (Contract Document)

State of Ohio Department of Transportation Jolene M. Molitoris, Director

**Innerbelt Bridge Construction Contract Group 1 (CCG1)** 

Revision Date: April 9, 2010

## FINDINGS FROM AN ASBESTOS SURVEY

## Three (3) Bridges:

CUY – Abbey Avenue – Abbey Avenue Bridge over CSX CUY – 10-16.85 – Carnegie Avenue Bridge over GCRTA CUY – 77-15.97L – Interstate 77 Southbound Bridge over East 14<sup>th</sup> Street

# CUY-INNERBELT PROJECT AREA [PID 77510 / Task Order #15885-8]

**APRIL 2010** 

Prepared for:

Ohio Department of Transportation
District 12
5500 Transportation Boulevard
Garfield Heights, OH 44125

Prepared by:



6105 Heisley Road • Mentor, Ohio 44060 440-357-1260 • Fax 440-357-1510



April 9, 2010

Mr. Mark Alan Carpenter Ohio Department of Transportation, District 12 5500 Transportation Boulevard Garfield Heights, Ohio 44125

Subject: Findings From an Asbestos Survey Conducted at Three (3) Bridges Associated with the CUY-Innerbelt Project: CUY-Abbey Road - Avenue Bridge over CSX; CUY-10-16.85 - Carnegie Avenue Bridge over GCRTA; and CUY-77-15.97L – Interstate 77 Southbound Bridge over East 14th Street (HzW Project No. H10002-06)

Dear Mr. Carpenter:

In accordance with our cost proposal dated February 16, 2010, HzW Environmental Consultants, LLC (HzW) conducted an asbestos survey at three (3) bridges associated with the CUY – Innerbelt Project Area for the Ohio Department of Transportation District 12. The three (3) bridges consisted of the following:

- 1. CUY Abbey Avenue Abbey Avenue Bridge over CSX
- 2. CUY 10-16.85 Carnegie Avenue Bridge over GCRTA
- 3. CUY 77-15.97L Interstate 77 Southbound Bridge over East 14<sup>th</sup> Street

Discussions of the methods of investigation, the findings and applicable recommendations are provided separately below.

#### METHODS OF INVESTIGATION

As part of the survey, HzW requested the original construction plans for the bridges from the Ohio Department of Transportation (ODOT) District 12 to assist in identifying asbestos-containing materials (ACMs) and suspect containing ACMs used during construction. The original construction plans for the bridges were located by a representative of ODOT and, therefore, were reviewed by HzW. Representatives of HzW, certified by the Ohio Department of Health (ODH) as Asbestos Hazard Evaluation Specialists, subsequently conducted a physical inspection of the subject bridges during April 2010 to visually identify and sample accessible suspect ACMs. A photographic log depicting the subject bridges was compiled during the physical inspection and is included as **Attachment 1**.

Based on the physical inspection conducted at the subject bridges, subsequent bulk samples were collected of any accessible building materials suspected of containing asbestos. The bulk samples were submitted to International Asbestos Testing Laboratories (IATL) of Mt. Laurel, New Jersey, for analysis of asbestos content by polarized light microscopy (PLM) using the Environmental Protection Agency (EPA) Method 600/R-93/116. In accordance with the United States EPA National Emissions Standard for Hazardous Air Pollutants (NESHAP), ACMs identified by PLM as containing less than 10 percent asbestos were subsequently analyzed by point count methodology.

#### **FINDINGS**

The findings of the asbestos survey are presented below. These findings are based on HzW's review of the available construction plans, physical inspection of each bridge and the analytical results for any bulk samples collected. A copy of the laboratory analytical reports for the bulk samples collected is included as **Attachment 2**.

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 nonsuspect building materials and/or sampled and subsequently analyzed by polarized light microscopy and found not to contain greater than one (1) percent asbestos.

#### CUY - Abbey Avenue - Abbey Avenue Bridge over CSX

Based on a review of various construction plans with unknown dates (Pages 1-37A, 1-14, 1-4, 1, 1, 1, 1-3) for this bridge, eleven (11) suspect ACMs were noted as being used during construction of the bridge. These suspect ACMs consisted of the following:

- 1. ½-inch Premolded Expansion Joint Filler located in approach slabs and concrete walkway. Quantity of this suspect material located on the bridge structure is unknown.
- 2. ¼-inch Preformed Expansion Joint Filler located at parapets. Quantity of this suspect material located on the bridge structure is unknown.
- 3. 1-inch Preformed Expansion Joint Filler outlined in driveway details. Quantity of this suspect material located on the bridge structure is unknown.
- 4. 1-inch Preformed Expansion Joint Filler located in abutments. Quantity of this suspect material located on the bridge structure is 138 square feet.
- 5. Preformed Expansion Joint Filler (deflection joints shall either be ¼-inch gray sponge rubber or ¼-inch gray cellular polyvinyl chloride sponge) located in fencing parapet. Quantity of this suspect material located on the bridge structure is unknown.
- 6. 6-inch Perforated Helical Corrugated Steel Pipe located in abutments. Quantity of this suspect material located on the bridge structure is 85 linear feet.
- 7. 6-inch Nonperforated Helical Corrugated Steel Pipe located in abutments. Quantity of this suspect material located on the bridge structure is 17 linear feet.
- 8. 1/8-inch Preformed Bearing Pad associated with bearings. Quantity of this suspect material located on the bridge structure is unknown.
- 9. 2 2-inch Conduits located in parapets for lighting. Quantity of this suspect material located on the bridge structure is 5,320 linear feet.
- 10. 4-inch Conduct located in parapets for lighting. Quantity of this suspect material located on the bridge structure is 110 linear feet.
- 11. Construction Joints located in abutments, piers and superstructure. Quantity of this suspect material located on the bridge structure is unknown.

Mr. Mark Alan Carpenter April 9, 2010 Page 3

It should be noted that the drawings indicated that all telephone and electrical ducts for this bridge are located underground.

During the physical inspection of the bridge, HzW could not locate Item Nos. 1 thru 3, and 6 thru 11. Three (3) suspect ACMs were identified during the physical inspection. These suspect materials consisted of the following:

- 1. Preformed Expansion Joint Filler located in outer parapet wall. HzW sampled this suspect material (Sample Nos. 01 and 02) and no asbestos was identified in the samples collected. This material is similar to Item No. 5, above.
- 2. Preformed Expansion Joint Filler located in inner parapet wall. HzW sampled this suspect material (Sample Nos. 03 and 04) and no asbestos was identified in the samples collected. This material is similar to Item No. 5, above.
- 3. 1-inch Preformed Expansion Joint Filler located in abutments. HzW sampled this suspect material (Sample Nos. 05 and 06) and no asbestos was identified in the samples collected. This material is similar to Item No. 4, above.

Note: Electric lighting is located in both parapet walls. The wiring is located in a metal pipe with a polyvinyl chloride sleeve.

#### CUY – 10-16.85 – Carnegie Avenue Bridge over GCRTA

Based on a review of the construction plans dated February 24, 2000 (Pages 1-5), plans exhibiting various dates (Pages 14, 148-185), January 23, 1930 plans (Pages 18-21), and April 13, 1928 plans (Pages 1-19) for this bridge, nine (9) suspect ACMs were noted as being used during construction of the bridge. These suspect ACMs consisted of the following:

- 1. Ohio Bell Telephone Company Ducts located in parapets. Quantity of this suspect material located on the bridge structure is unknown.
- 2. 12 4-inch CEI Electrical Ducts located in north parapet. Quantity of this suspect material located on the bridge structure is estimated at 1,740 linear feet.
- 3. 20-inch PEHP Gas Line, 8-inch PE Gas Line, 6-inch Gas Line located in the north parapet. Quantity of this suspect material located on the bridge structure is estimated at 435 linear feet.
- 4. 16 4-inch MELP Fibre Ducts located in road deck adjacent to south parapet. Quantity of this suspect material located on the bridge structure is estimated at 2,320 linear feet.
- 5. 12-inch and 16-inch Water Lines located in a vault-like structure underneath road decking. Quantity of this suspect material located on the bridge structure is estimated at 290 linear feet.
- 6. Hot Joint Sealer associated with sidewalk details. Quantity of this suspect material located on the bridge structure is unknown.
- 7. Preformed Expansion Joint Filler (deflection joints shall either be ¼-inch gray sponge rubber or ¼-inch gray cellular polyvinyl chloride sponge located in fencing parapet. Quantity of this suspect material located on the bridge structure is unknown.
- 8. Corrosion Control Covering for 132 K.V. Steel Transmission Lines. Quantity of this suspect material located on the bridge structure is unknown.
- 9. Construction Joints located in abutments. Quantity of this suspect material located on the bridge structure is unknown.

During the physical inspection of the bridge, HzW could not locate Item Nos. 1 thru 6, 8, and 9, above. Two (2) suspect ACMs were identified during the physical inspection. These suspect materials consisted of the following:

- 1. Preformed Expansion Joint Filler located in parapet wall. HzW sampled this suspect material (Sample Nos. 01 and 02) and no asbestos was identified in the samples collected. This material is similar to Item No. 7, above.
- 2. Three (3), what appear to be, 12-inch lines located on the underside of the decking running the length of the bridge, were noted during the physical inspection. However, due to the height of the lines on the bridge, access to the lines could not be obtained to determine if they contain or are comprised of an asbestos-containing material. Hence, the lines are assumed to contain asbestos until tested and proven otherwise by PLM analysis. Quantity of this suspect material located on the bridge structure is estimated at 435 linear feet.

## CUY – 77-15.97L – Interstate 77 Southbound Bridge over East 14<sup>th</sup> Street (Note: The construction plan review and physical inspection for this bridge encompassed two southbound lanes and one northbound lane all over East 14<sup>th</sup> Street)

Based on a review of the construction plans dated December 18, 1959 (Pages 1 thru 177B) for this bridge, eleven (11) suspect ACMs were noted as being used during construction of the bridge. These suspect ACMs consisted of the following:

- 1. Asbestos Wire (described as follows: asbestos applied to the conductor to form a continuous tube of asbestos fibers at least 40 mils thick, tightly compressed and impregnated with a flame, heat and moisture-proof compound, and an outer asbestos braid at least 45 mils thick) located in lighting poles and brackets. Quantity of this suspect material located on the bridge structure is unknown.
- 2. Transite conduit associated with concrete pull box for lighting and goes through abutments. Quantity of this suspect material located on the bridge structure is unknown.
- 3. 2-inch Asbestos Cement or Fiber Equivalent to Orangeburg Nocrete Conduit located in parapets and retaining wall. Quantity of this suspect material located on the bridge structure is 605 linear feet.
- 4. 1-inch Gray Rubber Preformed Expansion Joint Filler located in abutments and retaining walls. Quantity of this suspect material located on the bridge structure is 75 square feet.
- 5. 1-Way Duct, 4-inch located in East abutment. Quantity of this suspect material located on the bridge structure is 69 linear feet.
- 6. Premolded Sealing Strip located in abutments and retaining walls. Quantity of this suspect material located on the bridge structure is unknown.
- 7. ½-inch Bituminous Preformed Joint Filler located in abutments. Quantity of this suspect material located on the bridge structure is unknown.
- 8. ¼-inch Preformed Gray Rubber Expansion Joint Filler located in parapet joints. Quantity of this suspect material located on the bridge structure is unknown.
- 9. Poured Joint Sealer associated with parapet junction box for lighting. Quantity of this suspect material located on the bridge structure is unknown.
- 10. Tar Paper associated with 1-Way 4-inch Duct for lighting. Quantity of this suspect material located on the bridge structure is unknown.
- 11. Construction Joints located in abutments, piers and superstructure. Quantity of this suspect material located on the bridge structure is unknown.

During the physical inspection of the bridge, HzW could not located Item Nos. 1, 2 and 4 thru 7, and 9 thru 11, above. Two (2) suspect ACMs were identified during the physical inspection. These suspect materials consisted of the following:

- 1. Preformed Gray Rubber Expansion Joint Filler located in parapet walls. HzW sampled this suspect material (Sample Nos. 01 thru 04) and no asbestos was identified in the samples collected. This suspect material is similar to Item No. 8, above.
- 2. Tar Coated Pipe Conduit located at parapet walls. HzW sampled this suspect material (Sample Nos. 05 thru 08) and no asbestos was identified in the samples collected. This suspect material is similar to Orangeburg Nocrete Conduit outlined in Item No. 3, above.

The building materials identified during the construction plan review were considered suspect materials, based on the assumption that these materials are typically coated or comprised of an asbestos-containing material, physically contain an asbestos-containing material(s), or are identified by their description as an "asbestos" material.

#### RECOMMENDATIONS

Based on the findings from the asbestos survey of the subject bridges, the following recommendations are presented for consideration:

- 1. Notify any outside contractor(s), prior to them working on the subject bridges, of the presence of any building materials identified as containing asbestos or assumed to contain asbestos.
- 2. If renovation activities have the potential to disturb the identified ACMs or assumed ACMs, then a licensed asbestos abatement contractor should be contracted to remove these materials prior to them being disturbed.
- 3. Submit the Ohio Environmental Protection Agency (OEPA), "Notification of Demolition and Renovation" form to the OEPA ten (10) days prior to any renovations activities which will involve the disturbance of 160 square feet or 260 linear feet of regulated asbestos-containing material (RACM) and ten (10) days prior to any demolition activities. Demolition is defined as the wrecking or taking out of any load-supporting structural member at a bridge. HzW has completed a copy of the OEPA's "Notification of Demolition and Renovation" form for each of the subject bridges. A copy of each of the completed forms is included as **Attachment 3.**

It should be noted for the purpose of completing the notification, that building materials described as joint filler, sealing strip, construction joint, tar paper, corrugated steel pipe, joint sealer, gas or water lines, control covering and asbestos wire were categorized under Section VII of the OEPA Notification of Demolition and Renovation form as Nonfriable Asbestos Material NOT TO BE REMOVED – Category I. Building materials described as conduits, ducts, and bearing pad were categorized under Section VII as RACM.

- 4. If renovation and/or demolition activities are to occur at the subject bridges, submit the ODH "Prior Notification of Asbestos Hazard Abatement Project" form to the ODH ten (10) days prior to any asbestos hazard abatement activity being performed. ODH defines an asbestos hazard abatement activity as any activity involving the removal, renovation, enclosure, repair or encapsulation of reasonably related friable ACMs in an amount greater than fifty linear feet or fifty square feet.
- 5. As indicated in the OEPA "Notification of Demolition and Renovation" form, Section XVII, ensure that an individual trained in the provisions of the National Emissions Standard for Hazardous Air Pollutants (NESHAP) is on site during any renovation or demolition activities performed at the subject bridges. This individual should be certified by the Ohio Department of Health as an Asbestos Hazard Evaluation Specialist.
- 6. If the building materials identified as containing asbestos or assumed to contain asbestos are to remain in place, implement an operations and maintenance (O&M) program whereby these materials are continually evaluated and maintained by trained personnel.

HzW appreciates the opportunity you have given us to provide professional services to the Ohio Department of Transportation, District 12. 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

Matthew P. Fergus

Certified Asbestos Hazard Evaluation Specialist (ODH Licensed No. ES33228)

Joan A. Sablar

Senior Industrial Hygienist

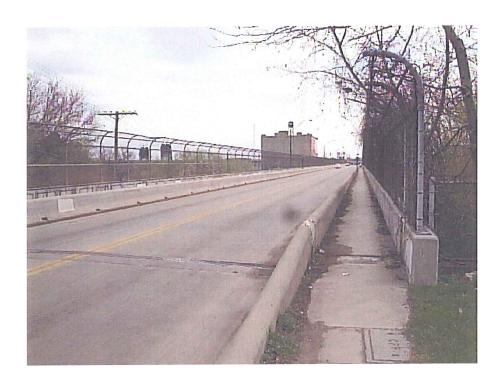
JAS:jas\H10002-06

Attachments

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### ATTACHMENT 1

## PHOTOGRAPHIC LOG

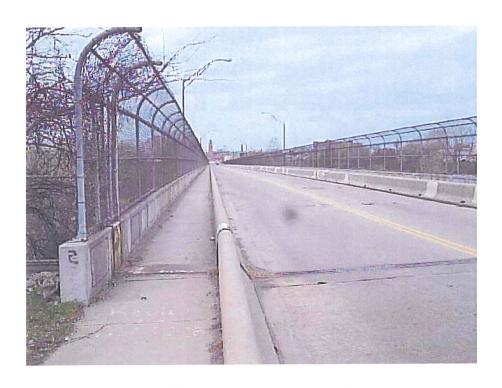


Photograph 01 View Looking East at the Top of the Abbey Avenue Bridge over the CSX Railroad

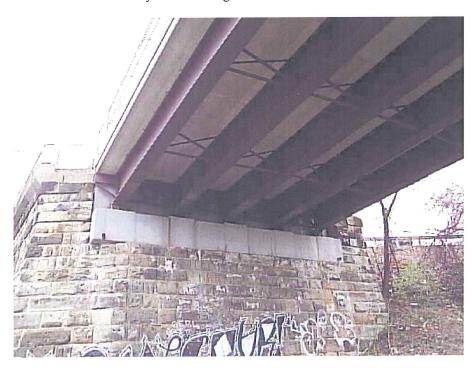


Photograph 02 View Looking West at the Underside of the Abbey Avenue Bridge over the CSX Railroad





Photograph 03 View Looking West at the Top of the Abbey Avenue Bridge over the CSX Railroad



Photograph 04
View Looking East at the Underside of the Abbey Avenue Bridge over the CSX Railroad



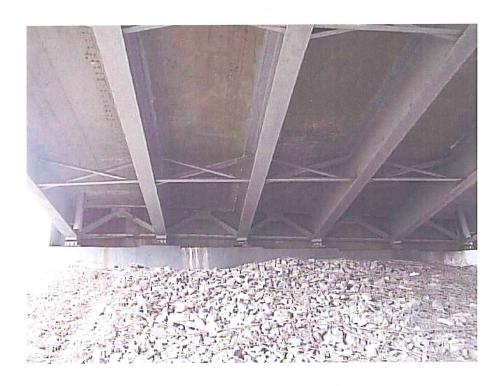


Photograph 05
View Looking East at the Top of the
Carnegie Avenue Bridge over GCRTA (CUY-10-16.85)

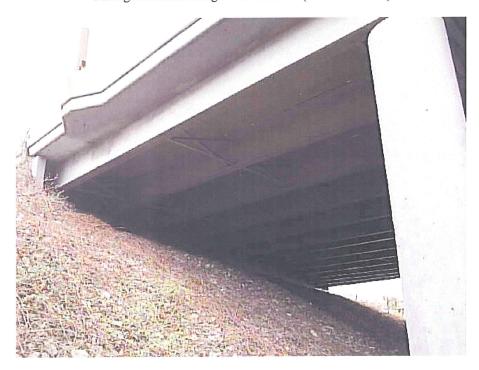


Photograph 06
View Looking West at the Top of the
Carnegie Avenue Bridge over GCRTA (CUY-10-16.85)





Photograph 07
View Looking West at the Underside of the
Carnegie Avenue Bridge over GCRTA (CUY-10-16.85)

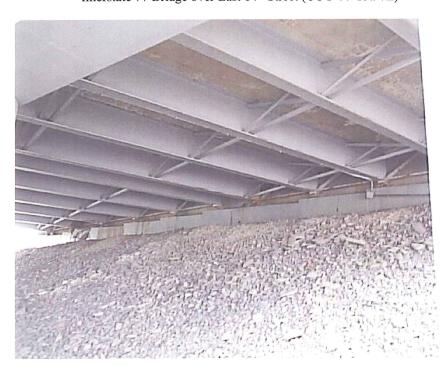


Photograph 08
View Looking East at the Underside of the
Carnegie Avenue Bridge over GCRTA (CUY-10-16.85)





Photograph 09
View Looking South at the Top of the
Interstate 77 Bridge over East 14<sup>th</sup> Street (CUY-77-15.97L)

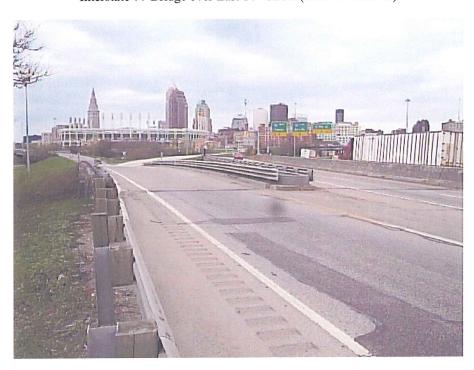


Photograph 10 View Looking South at the Top of the Interstate 77 Bridge over East 14<sup>th</sup> Street (CUY-77-15.97L)





Photograph 11 View of the Underside of the Interstate 77 Bridge over East 14<sup>th</sup> Street (CUY-77-15.97L)



Photograph 12 View of the Underside of the Interstate 77 Bridge over East 14<sup>th</sup> Street (CUY-77-15.97L)





Photograph 13 View of the Underside of the Interstate 77 Bridge over East 14<sup>th</sup> Street (CUY-77-15.97L)



Photograph 14 View of the Underside of the Interstate 77 Bridge over East 14<sup>th</sup> Street (CUY-77-15.97L)





Photograph 15 View Looking North at the Top of the Interstate 77 Bridge over East 14<sup>th</sup> Street (CUY-77-15.97L)



Photograph 16 View Looking North at the Top of the Interstate 77 Bridge over East 14<sup>th</sup> Street (CUY-77-15.97L)



### ATTACHMENT 2

## LABORATORY ANALYTICAL REPORTS



Suite B Mt. Laurel, NJ 08054 Toll Free: 877 428-4285 info@iatl.com www.iatl.com

9000 Commerce Parkway

Project Name: ODOT - Abbey Rd. over CSX Project No.: H10002 - 06 Client: HzW Environmental Consultants. LLC 6105 Heisley Road Mentor, Ohio 44060 **Office Phone:** 440-357-1260 Contact 1: Joan Sablar Cell Phone: Contact 2: FAX / Email 1: 440-357-1510 FAX / Email 2 JSablar@hzwenv.com PO#5318-10 Special **Instructions:** Matrix: Air Soil Bulk Other Water Paint Surface Dust / Wipe **Analysis Method:** PLM: Bulk Asbestos Building Materials EPA 600 / R 93-116 PLM : Point Counting PLM: Analyze Until Positive (Positive Stop) PC: via ELAP 198.1 AUP: by Homogenous Area as Noted PC: 400 Points AUP: by Material Type as Noted PC: 800 Points \* PC: other Points \* PLM: Non-Building Material \*, \*\*(Dust, Wipe, Tape, Soil) Soil or Vermiculite Analysis \*, \*\* PLM: Gravimetric Reduction PLM: Instructions for Multi-Layered Samples PLM: NOB via 198.6 Analyze and Report All Separable Layers per EPA 600 PLM: Friable via EPA 600 2.3 Report Composite for Drywall Systems per NESHAP If <1% by PLM, to TEM via 198.4 \* Report All Layers and Composite Where Applicable If <1% by PLM, Hold for Instructions Only Analyze and Report Specifically Noted Layer \* Additional charge and turnaround may be required. \*\* Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory. Turnaround Preliminary Results Requested By ... □ Verbals  $\Box$  FAX ☐ Email Time: date / time 10 Day 1 Day\* 5 Day 3 Day 2 Day 12 Hour\*\* 6 Hour\*\* \* End of next business day unless otherwise specified. \*\* Matrix Dependent. Please notify the lab before shipping. Sample Numbers: Client #(s): iATL#(s): Total: (end) (start) Please use your sample log to supply sampling information (ex. Volumes, areas, descriptions, locations, etc.) or download forms at iatl.com **Chain of Custody:** Relinquished (Name / Organization):\_\_\_\_\_ Received (Name / iATL): Date: Sample Login (Name / iATL): Date: Time: Sample Prep (Name / iATL):\_\_\_ Date: Time: Analysis(Name(s) / iATL): Date: Time: QA/QC Review (Name / iATL): Date: Time:\_ QA/QC InterLAB Use:\_ Archived / Released: Date: Time:



9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Toll Free: 877 428-4285 info@iatl.com www.iatl.com

Client:

HzW Environmental Consultants, LLC 6105 Heisley Road Mentor, Oh 44060

Project Name: ODOT - Abbey Rd over CSX Project No.: H1002-06

Client Sample ID:	iATL Sample ID:	Sample Description / Location	Notes
01			- Trotes
02		11	
03	·	Parapet Wall Expansion gasket - Inne 11 Parapet Wall expansion gasket - Outer 11 Expansion Material at abutments 11	
04		11	
05		Expansion Material at abutments	
06	,	11	
			· · · · · · · · · · · · · · · · · · ·
	·		
		,	

Please Make Additional Copies As Needed



Page of |

### CERTIFICATE OF ANALYSIS

Client:

**HZW** Environmental Consultants

6105 Heisley Rd.

Mentor

HO

Report Date: 4/8/2010

Project:

ODOT - Abbey Rd Over CSX

Project No.:

H10002-06

#### BULK SAMPLE ANALYSIS SUMMARY

Lab No .:

3920093

01

Description / Location:

44060

Grey Gasket

Parapet Wall Expansion - Inner

Client No.: % Azbestos

Type

% Non-Asbestos Fibrous Material

Турс

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3920094

Description / Location:

Grey Gasket

Parapet Wall Expansion - Inner

% Asbestos

Client No.: 02

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

Type None Detected

None Detected

None Detected

100

Lab No .:

3920095

Description / Location:

Grey Gasket

Parapet Wall Expansion - Outer

Client No.: 03 % Asbestos

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

None Detected

Type None Detected

None Detected

None Detected

100

Lab No.:

3920096

Description / Location:

Grey Gasket

Client No.: 04

Parapet Wall Expansion - Outer

% Asbestos

Турс

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

This confidential report relates only to thuse item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government This report shall not be reproduced except in full, without written approval of the laboratory.

Analysis Method: EPA 600/R-93/116

(PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantitatible under the Point Counting regimen. 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. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample mutrix.

Analysis Performed By: E. Smith

Approved By:

Date:

Page 1 of 2

Frank E. Ehrenfeld, III Laboratory Director

## IATL

#### CERTIFICATE OF ANALYSIS

Client:

**HZW** Environmental Consultants

Report Date: 4/8/2010

6105 Heisley Rd.

Project:

ODOT - Abbey Rd Over CSX

9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054

Telephone: \$56-231-9449 Fax: 856-231-9818

Mentor

OH

44060

Project No.:

H10002-06

#### BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3920097

05

Description / Location:

Black Fibrous

Expansion Material At Abutments

Client No.: % Asbestos

Type

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

None Detected

None Detected

100

Cellulose

None Detected

Lab No.:

3920098

Description / Location:

Black Fibrous

Expansion Material At Abutments

% Asbestos

Түре

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

None Detected

Client No.: 06

None Detected

100

Cellulose

None Detected

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

(PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. 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. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: E. Smith

Date:

Page 2 of 2



9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Toll Free: 877 428-4285 info@iatl.com www.iatl.com

Client:	HzW Environmental Consultants. LLC 6105 Heisley Road	Project Name Project No.:	: ODOT - Abbey Rd. over CSX H10002 - Ob
	Mentor, Ohio 44060		
Cell Phone:	: 440-357-1260 1: 440-357-1510	Contact 1: Contact 2: FAX / Empil 2	Joan Sablar  2 JSablar@hzwenv.com
XXX / Email			2 DOADIAI (BITZWEITV.COM
Special Instructions:	PO#5318-10		
<u> </u>	Air Soil Bull Water Paint Surf	k face Dust / Wipe	Other
Analysis M	ethod:	11.12.00	
	Asbestos Building Materials EPA 600 / R 93-1	116	
PLM : Poir	at Counting  C: via ELAP 198.1  C: 400 Points	PLM : Analyze Until AUP : by Ho AUP : by M	Positive (Positive Stop) Pomogenous Area as Noted aterial Type as Noted  Material *, **(Dust, Wipe, Tape, Soil)** - ** miculite Analysis *, **
PI PI	vimetric Reduction M: NOB via 198.6 M: Friable via EPA 600 2.3 <1% by PLM, to TEM via 198.4 * <1% by PLM, Hold for Instructions	Analyze and Report Comp Report All L	r Multi-Layered Samples Report All Separable Layers per EPA 600 posite for Drywall Systems per NESHAP ayers and Composite Where Applicable te and Report Specifically Noted Layer
* Additional charg	e and turnaround may be required, ** Alternative M	ethod (ex: EPA 600/R-04/00	04) may be recommended by Laboratory.
Turnaroun Time:		date / time	☐ Verbals ☐ FAX ☐ Email
10 Day			our** 6 Hour** RUSH**
* End of ne	t business day unless otherwise specified. **	Matrix Dependent. Please	notify the lab before shipping
Sample Nui	nbers: Client #(s): 0 - 06 (start) (end) use your sample log to supply sampling information (ex. Vo		start) (end) tions, etc.) or download forms at iatl.com
Received Sample I Sample I Analysis QA/QC'I	stody: shed (Name / Organization): I (Name / iATL): Login (Name / iATL): Prep (Name / iATL): (Name(s) / iATL): Review (Name / iATL): I / Released: QA/QC InterLAB U	I I	pate: 5-7-70 Time: Time: Date: 5-7-70 Time: 5-7-70 Time: Date: 5-7-70 Time: 5-7-70



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Client:

HzW Environmental Consultants, LLC 6105 Heisley Road Mentor, Oh 44060

Project Name: ODOT - Abbey Rd over CSX
Project No.: H1002-06

Client Sample'ID:	iATL Sample ID:	Sample Description / Location	Notes
DI:	<b>39</b> 20093	Para ant wall expension acknown Tues	Notes
02.	3920094	Parapet Wall Expansion gasket - Inne  11  Parapet Wall expansion gasket - Owter  11  Expansion Material at abutments  11	
03	3920095	Paramet wall areas who contrate Outer	
04.	3920096	11	
05	3920097	Expansion Material at abutments	
06	3920098	11	
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9000 Commerce Parkway Suite B · Mt. Laurel, NJ 08054

Toll Free: 877 428-4285 info@iatl.com www.iatl.com

Client:

HzW Environmental Consultants, LLC 6105 Heisley Road Mentor, Oh 44060 Project Name: ODOT - Carnegie over GCRTA
Project No.: H10002 - 06

Client Sample ID:	iATL Sample ID:	Sample Description / Location	Notes
01		Expunsion Material in parapot	
02		Expansion Material in parapet	
-			
	,		
	·		
		,	

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Page of /



9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Toll Free: 877 428-4285 info@iatl.com www.iatl.com

Client:	HzW Environmental Consultants. LLC	Project Nam	e: ODOT - Carn	egie over GCRTA
	6105 Heisley Road	Project No.:	H10002-0	8
	Mentor, Ohio 44060	_		
Office Phor	ne: 440-357-1260	Contact 1:	Joan Sablar	
Cell Phone:		Contact 2:		
FAX / Ema	il 1: 440-357-1510	<del>-</del>	2 JSablar@hzwenv.co	m
C	PO#5318-17	- D		
Special Instructions		<u> </u>		
msu actions	S			
Matrix:		ulk urface Dust / Wipe	Other	
Analysis N	Method:	,		
PLM : Bu	ılk Asbestos Building Materials EPA 600 / R 93	-116		
PLM: Graph Plant P		AUP: by H AUP: by M AUP: by M PLM: Non-Building Soil or Ve Analyze and Report Com Report All I Only Analy: Method (ex: EPA 600/R-04/0	□ Verbals □ FA	be, Tape, Soil)  supers per EPA 600 ms per NESHAP mere Applicable y Noted Layer sy Laboratory.
10 Da		1 Day* 12 F	Iour** 6 Hour**	RUSH**
* End of ne	ext business day unless otherwise specified.	* Matrix Dependent. Please	notify the lab before shipping	ng.
Sample Nu	mbers: Client #(s): 0 - 0 - (end) c use your sample log to supply sampling information (ex. )	iATL#(s):/olumes, areas, descriptions, loca	(start) (end) tions, etc.) or download forms	_Total:
Receive Sample Sample Analysi QA/QC	ustody:  dished (Name / Organization):  d (Name / iATL):  Login (Name / iATL):  Prep (Name / iATL):  s(Name(s) / iATL):  Review (Name / iATL):  d / Released:  QA/QC InterLAB		Date: 5-7-10  Date: Date	Time: 4pm Time: Time: Time: Time: Time: Time: Time:

## **CERTIFICATE OF ANALYSIS**

Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

OH

44060

Report Date:

4/8/2010

Project:

ODOT Carnegie Over GCRTA

Project No.:

H10002-06

#### **BULK SAMPLE ANALYSIS SUMMARY**

Lab No.:

3920107

Description / Location:

Grey Non Fibrous

Expansion Material In Parapet

% Asbestos

Client No.: 01

Type

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No.:

3920108

Description / Location:

Grey Non Fibrous

Expansion Material In Parapet

% Asbestos

Client No.: 02

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

Type None Detected

None Detected

None Detected

100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

(PC) Indicates Stratified Point Court Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in secondance 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. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Bleetron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample motrix.

Analysis Performed By: E. Smith

Approved By:

Date:

4/8/2010

Page 1 of 1

Prank E. Ehrenfeld, III Laboratory Director



9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Yoll Free: 877 428-4285 info@iatl.com www.latl.com

Client:	HzW Environmental Consultants, LLC	Project Name	ODOT - Carnegie over GCRTA
}	6105 Heisley Road Mentor, Ohio 44060	Project No.:	H10002-08
Office Phone	: <u>440-357-</u> 1260	Contact 1:	( O.1)
Cell Phone:		Contact 1:	Joan Sablar
FAX / Émaîl	1: 440-357-1510	- ·	JSablar@hzwenv.com
Special :	PO#5318-		S S S S S S S S S S S S S S S S S S S
Instructions;			
Matrix:	:		
		Bulk	Other
		Surface Dust / Wipe	
Analysis Me	ethod:		
PLM : Bulk	Asbestos Building Materials EPA 600 / R 9	3-116	
PLM : Point	Counting		
L PC	: via ELAP 198.1	PLM : Analyze Until P	ositive (Positive Stop) logenous Area as Noted
PC PC	: 400 Points : 800 Points *	AUP: by Mat	erial Type as Noted
PC	tother Points *		(aterial *, **(Dust, Wipe, Tape, Soil)
		Soil or Verm	aterial *, **(Dust, Wipe, Tape, Soil) iculite Analysis *, **
PLM · Grava	metric Reduction		
	1: NOB via 198.6	PLM: Instructions for 1	Multi-Layered Samples
PLIN	1: Friable via EPA 600 2.3	Analyze and R	eport All Separable Layers per EPA 600 site for Drywall Systems per NESHAP
If \$1	1% by PLM, to TEM via 198.4 *	Report All Lay	ers and Composite Where Applicable
	1% by PLM, Hold for Instructions	Only Analyze	and Report Specifically Noted Layer
* Additional charge	and turnaround may be required. ** Alternative	Method (ex: EPA 600/B-04/004)	Trong be recommended to find
			hasy de recommended by Laboratory.
Turnaround	Preliminary Results Requested By		Verbals □ FAX □ Email
Time:		date / time	Tital Chian
10 Day	5 Day 3 Day 2 Day	1 Day* 12 Hou	r** 6 Hour** RUSH**
* End of next l	pusiness day unless otherwise specified.	** Matrix Dependent, Please not	
Sample Numl			
Č	lient #(s): 0 \ - 0 >	īATL#(s):	
: j	(start) (and)	\-/·	t) (end) Total:
1 sease dae	your sample log to supply sampling information (ex.	Volumes, areas, descriptions, location	s, etc.) or download forms at jath.com
Chain of Cust	tody:	1	array (22 )ab (ma ( 5))
Relinquishe	ed (Name / Organization).		756770 Time: 4pm
Received (1	Name / iATL):	Day	
Sample Log	gin (Name/iATL); Th 4781/	Date	
Sample Frei Analysis(Na	me(s)/iATL):	Date:	
QA/QC Rev	view (Name / iATL):	Date:	1 12 Take.
Archived / F		Use: Date	
,	( )	Date	ATT Childy time



9000 Commerce Parkway
Svite 8
Mt. Laurel, NJ 08054
Toll Free: 877 428-4285
info@letl.com
www.latl.com

Client:

HzW Environmental Consultants, LLC 6105 Heisley Road Mentor, Oh 44060

Project Name: ODOT - Carnagie over GCRTA
Project No.: H10002 - 06

ient Sample ID:	3920107	1 / .	
02		Expension Material in page not	Notes
1	3920108	Expension Material in parapet	
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info@iatl.com www.iatl.com

Client:	HzW Environmental Consultants. LLC 6105 Heisley Road Mentor, Ohio 44060	Project Name: <u>ODOT</u> Project No.: <u>H1000</u>	177 over E. 14th St 2-06
Cell Phone:	±: 440-357-1260	Contact 1: Joan Sablar Contact 2:	
FAX / Email	1: 440-357-1510	FAX / Email 2 JSablar@hz	wenv.com
Special Instructions:	PO#5318-1		
		ulk Other urface Dust / Wipe	·
Analysis M	ethod:		
PLM : Bulk	: Asbestos Building Materials EPA 600 / R 93	-116	
PC PC	t Counting : via ELAP 198.1 : 400 Points : 800 Points * : other Points *	PLM: Analyze Until Positive (Positi AUP: by Homogenous Are AUP: by Material Type as 1 PLM: Non-Building Material *, **(I	a as Noted Noted  Dust, Wipe, Tape, Soil)
PLI PLI If <	imetric Reduction M: NOB via 198.6 M: Friable via EPA 600 2.3 1% by PLM, to TEM via 198.4 * 1% by PLM, Hold for Instructions	PLM: Instructions for Multi-Layered Analyze and Report All Sep Report Composite for Drywn Report All Layers and Comp Only Analyze and Report Sp	Samples arable Layers per EPA 600 all Systems per NESHAP posite Where Applicable
* Additional charge	and turnaround may be required. ** Alternative	Method (ex: EPA 600/R-04/004) may be recom	mended by Laboratory.
Turnaround Time:	Preliminary Results Requested By	☐ Verbals	□ FAX □ Email
10 Day	5 Day 3 Day 2 Day	∑ 1 Day*	Hourt
	terminal terminal	* Matrix Dependent. Please notify the lab before	Hour** RUSH** ore shipping.
	abers: Client #(s): (start) (end) se your sample log to supply sampling information (ex. V	iATL#(s):(start) olumes, areas, descriptions, locations, etc.) or downlo	Total:(end) oad forms at latt.com
Chain of Cus	stody: ned (Name / Organization):	Date: 5-7-	10 m 4 au
Received (	(Name / iATL):	Date	Time: 7 pm
Sample Lo	ogin (Name / iATL):	Date:	
Sample Pro	ep (Name / IATL):	Date:	Time:
Analysis(N	vame(s) / IAIL):	Date:	Time:
Archived /	eview (Name / iATL):	Date:	Time:
		Jac. Hare'	imer



9000 Commerce Parkway Suite B

 Mt. Laurel, NJ 08054 Toll Free: 877 428-4285

info@iatl.com www.iatl.com

Client:

HzW Environmental Consultants, LLC 6105 Heisley Road Mentor, Oh 44060 Project Name: 000T - I77 over E. 14th St. Project No.: H10002 -06

Client Sample ID:	iATL Sample ID:	Sample Description / Location	Notes
01			110000
02		Expansion Material in parapet Wall	
03			
04		11	
05		Tar paper Pipe Wrap	
06		(1	
07		l (	
08		(1	
		·	
		,	

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ODOT - I77 Over E 14th St

### CERTIFICATE OF ANALYSIS

Client:

HZW Environmental Consultants

OH

Report Date: 4/8/2010

6105 Heisley Rd.

Mentor

44060

Project No.:

Project:

H10002-06

#### BULK SAMPLE ANALYSIS SUMMARY

Lab No.:

3920099

Description / Location:

Tan Wall

Client No.:

Expansion Material In Parapet Wall

% Asbestos.

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

None Detected

None Detected

None Detected

None Detected

100

Lab No .:

Description / Location:

Tan Wall

Expansion Material In Parapet Wall

% Axbestos

Client No.: 02

% Non-Asbestos Fibrous Material

<u>Tyne</u>

% Non-Fibrous Material

None Detected

Туре None Detected

None Detected

None Detected

100

Lab No.:

3920101

Description / Location:

Tan Wall

Expansion Material In Parapet Wall

% Asbestos

Client No.: 03

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

Туре None Detected

None Detected

None Detected

100

Lab No.:

3920102

Description / Location:

Client No.: 04

Tan Wall Expansion Material In Parapet Wall

% Asbestos

% Non-Asbestos Fibrous Material

Турс

% Non-Fibrous Material

None Detected

Type None Detected

None Detected

None Detected

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: E. S	malvs	ormed Bv: E. 3	Smith
-----------------------------	-------	----------------	-------

Approved By:

Date:

4/8/2010

Page 1 of 2

Frank E. Ehrenfeld, III Laboratory Director

### CERTIFICATE OF ANALYSIS

Client:

HZW Environmental Consultants

6105 Heisley Rd.

Mentor

ÓН

Report Date: 4/8/2010

Project:

ODOT - I77 Over E 14th St

Project No.:

H10002-06

#### BULK SAMPLE ANALYSIS SUMMARY

Lab No .:

3920103

Description / Location:

44060

Black Tar Paper

Pipe Wrap

Client No.: 05

% Non-Ashestos Fibrous Material

Type

% Non-Fibrous Material

% Asbestos None Detected

None Detected

Cellulose

Lab No .:

Description / Location:

Black Tar Paper

Pipe Wrap

Client No.: 06 % Asbestos

% Non-Asbestos Fibrous Material

Type

% Non-Fibrous Material

None Detected

Type None Detected

30

Collulose

70

Lab No.:

3920105

Description / Location: Black Tar Paper

Pipe Wrap

% Asbestos

Client No.: 07

Typc

% Non-Asbestos Pibrous Material

Турс

% Non-Fibrous Material

None Detected

None Detected

Cellulose

70

Lab No .:

3920106

Description / Location:

Black Tar Paper

Pipe Wrap

% Asbestos

Client No.: 08

Type

% Non-Asbestos Fibrous Material

Туре

% Non-Fibrous Material

None Detected

None Detected

Cellulose

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

(PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. 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. Small aspector, fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed, Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: E. Smith

Date:

4/8/2010

Page 2 of 2



9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Toll Free: 877 428-4285 info@latl.com www.iatl.com

Client:	HzW Environmental Consultants, LLC 6105 Heisley Road	Project Nam Project No.:	e: ODOT - I77 over E. 14th St H10002 - 06
O.C. This	Mentor, Ohio 44060		
Office Phone Cell Phone	ne: 440-357-1260	Contact 1:	Joan Sablar
	il 1: 440-357-1510	Contact 2:	0.10.11.01
FAA / Ellia		FAX / Email	2_JSablar@hzwenv.com
Special Instruction	s:		
Matrix:	Air Soil Bulk Water Paint Surfa	ce Dust / Wipe	Other
Analysis I	Method:		
PLM : Bi	ulk Asbestos Building Materials EPA 600 / R 93-11	6	10.
	oint Counting PC: via ELAP 198.1 PC: 400 Points PC: 800 Points *	AUP: by H	il Positive (Positive Stop) Iomogenous Area as Noted Asterial Type as Noted
	PC: other Points *	PLM: Non-Building Soil or Ve	g Material *, **(Dust, Wipe, Tape, Soil) ermiculite Analysis *, **
I	ravimetric Reduction PLM: NOB via 198.6 PLM: Friable via EPA 600 2.3 f<1% by PLM, to TEM via 198.4 * f<1% by PLM, Hold for Instructions	Analyze and Report Com	or Multi-Layered Samples d Report All Separable Layers per EPA 600 aposite for Drywall Systems per NESHAP Layers and Composite Where Applicable ze and Report Specifically Noted Layer
* Additional chai	rge and turnaround may be required. ** Alternative Mo	thod (cx: EPA 600/R-04/0	004) may be recommended by Laboratory.
Turnarou	nd Preliminary Results Requested By		□ Verbals □ FAX □ Email
Time:	1	late / tīme	□ Verbals □ FAX □ Email
10 D	ay 🔲 5 Day 🦲 3 Day 🔲 2 Day 🔀	I Day* 12 F	Your** RUSH**
* End of n	ext business day unless otherwise specified. ** N	Matrix Dependent. Please	notify the lab before shipping.
Sample Nu	Client #(s): (start) (end)  z use your sample log to supply sampling information (ex. Volu	iATL#(s):	Total:(start) (end)
	)	tines, areas, descriptions, loca	actions, etc.) or download norms at tatt.com
Receive Sample Sample	nished (Name / Organization):  cd (Name / iATL):  Login (Name / iATL):  Prep (Name / iATL):		Date: 5-7/10 Time: 4 PM Date: Time: 12 Date: AFTime: Date: 16 Date: 17 Date: 18 Date
QA/QC	s(Name(s) / iATL):		Date: Time: 10
Archive	ed / Released: QA/QC InterLAB Use	e:	Date: Time:



9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Toli Free: 877 428-4285 info@latl.com www.latl.com

Client:

HzW Environmental Consultants, LLC 6105 Heisley Road Mentor, Oh 44060

Project Name: 000T - 177 over E. 14th S.
Project No.: H10002 -06

Client Sample ID:	iATL Sample (D:	Sample Description / Location	Notes
01	3920099	Expansion Material in parapet Wall	
	3920100	11 ,	
03	3920101	10	
04	3920102	[1]	
05	3920103	Tar paper Pipe Wrap	
06	3920104	11	
07	3920105	l i	
08	3920106	(1	
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IATL

Page of

### **ATTACHMENT 3**

## OHIO ENVIRONMENTAL PROTECTION AGENCY'S "NOTIFICATION OF DEMOLITION AND RENOVATION" FORMS

## OHIO ENVIRONMENTAL PROTECTION AGENCY NOTIFICATION OF DEMOLITION AND RENOVATION

Page 1 of 2

1	Operator Project #	Postm	ark		Date Re	eceived	Notifi	cation#	
I.	Type of Notification (chec	k one): 🛛 Orig	inal	☐ Rev	ised	☐ Canc	eled		
II.	Facility Description (include building name, number and floor or room number)  Building Name: Abbey Avenue Bridge over CSX  Address: Abbey Avenue Bridge over CSX								
		age over oox	St	ate: OHIO	Zip Co	ode:	County: Cuya	ahoga	
	Site Location (specific): At	_ 2.p 00		county. <u>cay</u> c					
	Building Size (square feet):		# of Floors: NA Age in Years: ~50						
	Present Use: <i>Bridge</i>		Prior Use: Bridge						
III.	Type of Operation (check							☐ Fire Training	
IV.	Is Asbestos Present? (chec		Yes Yes	□ No					
V.	Facility Information Owner Name: Ohio Depart Address: 5500 Transportati	tment of Transport							
		o., 20010 va.					Zip Code: 44125		
	Contact: Mr. Mark Alan Car								
	Removal Contractor Name: License # Address:								
	City: State: Zip Code:								
1	Contact: Telephone: Fax:								
	Other Operator (demolition/general): License #								
	Address:								
City: State:						Zip Code:			
	Contact:								
VI.	Procedure, including anal and Category I and Catego	ory II nonfriable	ACM:	detect the	presence	of and to estin	nate the quantit	y of RACM	
		Name	······································			Certifi	cation #		
VII.	Approximate Amount of A	Asbestos Material	s:						
				1	ble Asbes o be Rem	stos Material noved	i	e Removed	
		RACM to Be	Removed	Catego	ry I	Category II	Category I	Category II	
Pipes	(linear feet)	5430					102		
Surfac	ce Area (square feet)								
	ty Components (cubic feet)								
VIII. Scheduled Dates Demolition or Renovation: Start: Complete:									
<b>'X.</b>									
	of the Week: Monday	Tuesday	Wednesd	av Th	ursday	Friday	Saturday	Sunday	
	of Operation:	Taobaay	,, samesa			1 1144			
Compl	ete all unshaded spaces, except, ete spaces VII, XI, XII, XIII, XI								

#### Page 2 of 2

#### OHIO ENVIRONMENTAL PROTECTION AGENCY NOTIFICATION OF DEMOLITION AND RENOVATION

X.	Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components:						
XI.	Description of work practices and engi removal and waste handling emission of		d to comply with	n the requirements, including asbest	tos		
XII.	Waste Transporter #1						
	Name:						
	Address:						
	City:		State:	Zip code:			
	City:Contact Person:	Telephone:		Fax:			
	Waste Transporter #2 Name:						
	Address:						
	City:Contact Person:		State:	Zip code:			
	Contact Person:	Telephone:		Fax:			
XIII	.Waste Disposal						
	Name:						
	Address:						
	City:		State:	Zip code:			
	Contact Person:	Telephone:		Fax:			
XIV.	<ol> <li>Emergency Demolition: (complete Item</li> <li>Attach a copy of the Order to this noti</li> <li>Name of the Authority Issuing Order:</li> <li>Authority of Order (Citation of Code)</li> </ol>	ce.		Title:			
	4. Date of Order (MM/DD/YY):	•	Γ	Pate Ordered to Begin:			
XV.	<ol> <li>Emergency Renovation: (Attach separat</li> <li>Date and Hour of the Emergency</li> <li>Description of the Sudden, Unexpected</li> <li>Explanation of how event caused unsated</li> </ol>	e sheet with the following ind d Event. The conditions or equipment	nformation if pro	ject is Emergency Renovation) reasonable financial burden.	and the second s		
	Description of procedures to be followe crumbled, pulverized or reduced to pov Determine if it is regulated under NESHA material and saturate with surfactant ther	wder. P, make proper notification	if required, and to		he		
XVII	I. I certify that an individual trained i during the Demolition or Renovatio will be available during normal bus	n and evidence that the re	APS (40 CFR Paguired training	ART 61, SUBPART M) will be on-single has been accomplished by this pers	ite on		
	Signature of Owner/Operator	Date	Type or Print N	Jame and Title			
XVII	II. I acknowledge the existance of laws facts contained in this notification a			leading statements and I certify tha	t		
	Signature of Owner/Operator	Date	Type or Print N	Jame and Title			
	Original Notification must be mailed before demolition or renovation b						

which must be submitted as soon as possible before operations begin. (Form Revised 11/12/97)

#### OHIO ENVIRONMENTAL PROTECTION AGENCY NOTIFICATION OF DEMOLITION AND RENOVATION Page 1 of 2

	Operator Pro	ject #	Postm	ark		Date	Received		Noti	fication#
I.	Type of Noti	fication (check	one): 🛛 Orig	inal	□ Re	evised		Cance	led	
П.	Building Nan	ne: <u>Carnegie Ave</u> negie Avenue Br	building name, enue Bridge ove idge over GCR1	r GCRTA <sup>-</sup> A					County: Cun	vahora
	City: <u>Cleveland</u> Site Location (specific): <u>Carnegie Avenue Bridge over G</u>					Z.ip	Codc		_ County. <u>Cay</u>	anoya
		(square feet): M	Α				# of Floors Prior Use:		Age in Y	Years: ∼50
III.	Type of Oper	ation (check on	e): 🗌 Demo 📮	] Ordered D	emo 🗵	Renovat	tion 🗌 En	nergenc	y Renovation	☐ Fire Trainin
IV.	Is Asbestos P	resent? (check	one):	☑ Yes	□No					
V.	Address: <u>5500</u> City: <u>Garfield</u>	: <u>Ohio Departm</u> Transportation Heights								
			nter							
							Lice	nse #		
							te:	7	in Code:	**************************************
	City: Teles				phone: Fax:					
				License #						
	Address:									
							te:	Zi	in Code:	
VI.	and Category  NESHAP Inspe	I and Categor		ACM:	letect th	e presenc			ate the quanti	ty of RACM
Ohio	Asbestos Hazar	d Evaluation Sp	ecialist: <u>Matthe</u> Name	w Fergus		- TOTAL CONTROL OF THE CONTROL OF TH		3228 Certifica	ation #	
VII.	Approximate	Amount of Ask	estos Materials	S:					1011 11	
					Nonfr	iable Asb to be Re	estos Mate	rial		bestos Material e Removed
			RACM to Be	Removed	Cate	gory I	Categor	/ II	Category I	Category II
Pipes	(linear feet)		4060						1160	
Surfa	ce Area (square	feet)								
	ty Components (									
	Scheduled Da		or Renovation:	Start:			(	Comple	te:	1
X.	Dates for Asbestos Removal (MM/DD/YY)  Start:  Complete:									
	of the Week:	Monday	Tuesday	Wednesd	av l 1	hursday	Frio		Saturday	Sunday
	of Operation:			canosa	, ,		1110		January	Danday
	ete all unshaded s	paces, excent den	l nolitions which in	L volve less tha	n 260 line	ear feet 16	1 0 square fee	t or 35 c	Lubic feet of RAC	M. need not

#### Page 2 of 2

## OHIO ENVIRONMENTAL PROTECTION AGENCY NOTIFICATION OF DEMOLITION AND RENOVATION

	Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components:						
	Description of work practices and engine removal and waste handling emission con		to comply with	h the requirements, including asbestos			
	Waste Transporter #1						
<u>,</u>	Name: Address:						
C	Address:			7in code:			
Ċ	Contact Person:	Telephone:		Fax:			
	Waste Transporter #2	· •					
	•						
A	Name:Address:						
С	Citv:		State:	Zip code:			
C	Address:	Telephone:		Fax:			
XIII.V	Vaste Disposal						
	Name:						
A	Address:						
С	City:		State:	Zip code:			
С	Contact Person:	Telephone:		Fax:			
XIV.E	Emergency Demolition: (complete Item XI	IV and all other sections, o	only if this proje	ect is an Emergency Demolition)			
1.	. Attach a copy of the Order to this notice	e.		- ,			
2.	. Name of the Authority Issuing Order:	7,70,070,070,070,070,070,070,070		Title:			
3.	. Authority of Order (Citation of Code): _						
4.	. Date of Order (MM/DD/YY):		D	Date Ordered to Begin:			
XV. E	Emergency Renovation: (Attach separate s	sheet with the following in	formation if pro	eject is Emergency Renovation)			
	. Date and Hour of the Emergency						
	Description of the Sudden, Unexpected I						
	Explanation of how event caused unsafe						
	escription of procedures to be followed i		ted RACM is to	Cound or nonfriable ACM becomes			
Ci E	rumbled, pulverized or reduced to powd Determine if it is regulated under NESHAP,	ier.	frequired and to	oke the appropriate actions. Contain the			
n	naterial and saturate with surfactant then ta	ake the appropriate actions		the the appropriate delicities. Contain the			
XVII.	I certify that an individual trained in t during the Demolition or Renovation a will be available during normal busine	and evidence that the req					
	Signature of Owner/Operator	Date	Type or Print N	Name and Title			
XVIII.	I acknowledge the existance of laws pr facts contained in this notification are			leading statements and I certify that			
	Signature of Owner/Operator	Date	Type or Print N	Name and Title			
	Original Notification must be mailed or before demolition or renovation begi which must be submitted a		ons and emergency	renovations (see regulation)			

## OHIO ENVIRONMENTAL PROTECTION AGENCY NOTIFICATION OF DEMOLITION AND RENOVATION

Page 1 of 2

	Operator Project #	Postn	mark		Date Re	eceived	Notif	fication #		
I.	Type of Notification (check	k one): 🛛 Ori	ginal	☐ Rev	ised	☐ Cano	celed			
II.	Facility Description (include building name, number and floor or room number) Building Name: Interstate 77 Southbound Bridge over East 14 <sup>th</sup> Street Address: Interstate 77 Southbound Bridge over East 14th Street									
	City: Cleveland		St	ate: OHIO	Zip Cc	ode:	County: Cuy	ahoga		
	Site Location (specific): Inte	Site Location (specific): Interstate 77 Southbound Bridge over East 14th Street								
	Building Size (square feet):			#	of Floors: <u>NA</u>	Age in Y	∕ears: ~50			
	Present Use: Bridge				Pr	rior Use: <i>Bridge</i>	9			
III.	Type of Operation (check of	one): 🗌 Demo 🏻	Ordered D	emo 🛭 I	Renovatio	n 🗌 Emerger	ncy Renovation	☐ Fire Training		
IV.	Is Asbestos Present? (check	k one):	⊠ Yes	☐ No						
V.	Facility Information Owner Name: Ohio Departr Address: 5500 Transportation City: Garfield Heights		×		State:		Zip Code: 44125	5		
			hone: 216.			-				
			hone: <u>216-584-2089</u> Fax: License #							
		State: Zip Code:								
l			ione: Fax:							
			License #							
		Address:								
	City:					,	Zip Code:			
	Contact:									
Ohio	Procedure, including analy and Category I and Catego  NESHAP Inspection Procedure  Asbestos Hazard Evaluation S  Approximate Amount of As	ory II nonfriable ure Specialist: <u>Matthe</u> Name	e ACM:	letect the	presence	33228	cation #	y of RACM		
	11PP			37 6.	-1 4 1	36.11				
					ible Asbes to be Rem	stos Material loved	1	bestos Material e Removed		
		RACM to B	e Removed	Catego	ory I	Category II	Category I	Category II		
Pipes	(linear feet)	69								
Surfac	ce Area (square feet)						75			
Facilit	ty Components (cubic feet)									
VIII.	Scheduled Dates Demolition	n or Renovation	: Start:			Compl	lete:			
ΥX.	Dates for Asbestos Removal (MM/DD/YY) Start: Complete:									
Jays c	of the Week: Monday	Tuesday	Wednesda	ay Th	nursday	Friday	Saturday	Sunday		
Hours	of Operation:									
	ete all unshaded spaces, except, dete spaces VII, XI, XII, XIII, XIV,									

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## OHIO ENVIRONMENTAL PROTECTION AGENCY NOTIFICATION OF DEMOLITION AND RENOVATION

X.	Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including lemolition or renovation techniques to be used and description of affected facility components:					
XI.	Description of work practices and enging removal and waste handling emission contains the second sec	neering controls to be use ontrol procedures:	ed to comply wit	h the requirements, including asbestos		
XII.	Waste Transporter #1					
	Name:					
	Address:					
	City:		State:	Zip code:		
(	Contact Person:	Telephone:		Fax:		
]	Waste Transporter #2 Name:					
	Address:					
(	City:	7.1.1	State:	Zip code:Fax:		
		lelephone:		Fax:		
	Waste Disposal					
1	Name:					
1	Addicss.					
(	City:Contact Person:	Talanhana	State:	Zip code:		
VIV	Emergency Demolition: (complete Item >	VIV and all other sections	-nl.: if this proje	rax:		
	1. Attach a copy of the Order to this notic		only it this proje	ect is an Emergency Demontion)		
	2. Name of the Authority Issuing Order:			Title		
3	3. Authority of Order (Citation of Code):			Title.		
2	4. Date of Order (MM/DD/YY):		Г	Date Ordered to Begin:		
XV. I	Emergency Renovation: (Attach separate	sheet with the following i	nformation if pro	piect is Emergency Renovation)		
1	1. Date and Hour of the Emergency	<u> </u>		good to Emergency reasonance,		
2	2. Description of the Sudden, Unexpected	l Event.				
3	B. Explanation of how event caused unsaf	e conditions or equipment	damage or an un	reasonable financial burden.		
XVI.I	Description of procedures to be followed	l in the event that unexpe	ected RACM is f	ound or nonfriable ACM becomes		
4	erumbled, pulverized or reduced to power Determine if it is regulated under NESHAP material and saturate with surfactant then t	P, make proper notification	if required, and ta าร.	ake the appropriate actions. Contain the		
XVII.	•	and evidence that the re	APS (40 CFR PA equired training	ART 61, SUBPART M) will be on-site has been accomplished by this person		
	Signature of Owner/Operator	Date	Type or Print N	Jame and Title		
XVIII	. I acknowledge the existance of laws p facts contained in this notification are	rohibiting the submissio e true, accurate and com	n of false or misl plete.	leading statements and I certify that		
	Signature of Owner/Operator	Date	Type or Print N	lame and Title		
	Original Notification must be mailed o before demolition or renovation beg	or hand delivered at least ten w gins, except emergency demolit	tions and emergency	renovations (see regulation)		