

CUY-90-14.90

PID 77332/85531

APPENDIX EC-21

Asbestos Survey of Bridges 14 & 15 (Contract Document)

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

Innerbelt Bridge Construction Contract Group 1 (CCG1)

Revision Date: May 21, 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 14th 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 14th 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. ¹/₂-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. ¹/₄-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 ¹/₄-inch gray sponge rubber or ¹/₄inch 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.

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 ¹/₄-inch gray sponge rubber or ¹/₄inch 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 14th Street (Note: The construction plan review and physical inspection for this bridge encompassed two southbound lanes and one northbound lane all over East 14th 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 highling 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. ¹/₂-inch Bituminous Preformed Joint Filler located in abutments. Quantity of this suspect material located on the bridge structure is unknown.
- 8. ¹/₄-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

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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



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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)



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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)



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ATTACHMENT 2

LABORATORY ANALYTICAL REPORTS

Chain of C Bu INTERNATIONAL ASSESSION TESTING LABORATORIES	Custody / Sample Log Ik Asbestos	9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Toll Free: 877 428-4285 <u>info@iatl.com</u> www.iatl.com
Client: HzW Environmental Consultants. LLC 6105 Heisley Road Mentor, Ohio 44060	Project Name: <u>ODOT - Abl</u> Project No.: <u>H10002 -</u>	bey Rd. over CSX 06
Office Phone: <u>440-357-1260</u> Cell Phone: FAX / Email 1: <u>440-357-1510</u>	Contact 1: Joan Sablar Contact 2: FAX / Email 2 JSablar@hzwenv	.com
Special Instructions:	0	
Matrix:	ulk Other urface Dust / Wipe	
Analysis Method:		
 PLM : Bulk Asbestos Building Materials EPA 600 / R 93 PLM : Point Counting PC : via ELAP 198.1 PC : 400 Points PC : 800 Points * PC : other Points * PLM : Gravimetric Reduction PLM : NOB via 198.6 PLM : Friable via EPA 600 2.3 If <1% by PLM, to TEM via 198.4 * If <1% by PLM, Hold for Instructions * Additional charge and turnaround may be required. ** Alternative 	 PLM : Analyze Until Positive (Positive Store AUP : by Homogenous Area as N AUP : by Material Type as Noted PLM : Non-Building Material *, **(Dust, Soil or Vermiculite Analysis *, * PLM: Instructions for Multi-Layered Sam Analyze and Report All Separable Report Composite for Drywall Sy Report All Layers and Composite Only Analyze and Report Specific Method (ex: EPA 600/R-04/004) may be recommended 	op) loted Wipe, Tape, Soil) ** ples 2 Layers per EPA 600 stems per NESHAP Where Applicable cally Noted Layer ed by Laboratory.
Turnaround Preliminary Results Requested By Time:	date / time	FAX 🛛 Email
 10 Day 5 Day 3 Day 2 Day * End of next business day unless otherwise specified. 	1 Day* 12 Hour** 6 Hour ** Matrix Dependent. Please notify the lab before shi	** RUSH**
Sample Numbers: Client #(s): 0(- 06 (start) - (end) Please use your sample log to supply sampling information (ex. 1	iATL#(s):	Total: ms at iatl.com
Chain of Custody: Relinquished (Name / Organization): M Received (Name / iATL): Sample Login (Name / iATL): Sample Prep (Name / iATL): Sample Prep (Name / iATL): Analysis(Name(s) / iATL): Sample Prep (Name / iATL): QA/QC Review (Name / iATL): QA/QC InterLAB	J Date: 5-7-10 Date: Date:	Time: <u>4 pm</u> Time: Time: Time: Time: Time: Time:



Chain of Custody / Sample Log Bulk Asbestos

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

Client:

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

Project Name:	ODOT-	Abbe	y Rd	over	csx
Project No.:	H1002-	-06 '			·

Client Sample ID:	iATL Sample ID:	Sample Description / Location	Notes
01		Parapet wall expansion pasket - Inne	
02		11	
03		Parapet wall expansion gesket - Outer	
04		11	
05		Expansion Material at abutments	
06		11	
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International Asbestos Testing Laboratories

OH

44060

9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants 6105 Heisley Rd.

Mentor

Report Date:4/8/2010Project:ODOT - Abbey Rd Over CSXProject No.:H10002-06

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: Client No.:	3920093 01	Description / Location:	Grey Gasket Parapet Wall Expansion - Inner	
% Azbestos	Type	% Non-Asbestos Fibrou	<u>Material Type</u>	<u>% Non-Fibrous Material</u>
Noné Detected	None Detected	None Detected	None Detected	100
Lab No.:	3920094 02	Description / Location:	Grey Gasket Paranet Wall Expansion - Inner	
% Asbestos	Турс	% Non-Asbestos Fibrous	Material Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Lab No.: Client No.:	3920095 03	Description / Location:	Grey Gasket Parapet Wall Expansion - Outer	
% Asbestos	Турс	% Non-Asbestos Fibrous	Matarial Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
<u>% Asbestos</u> None Detected	<u>Type</u> None Detected	<u>% Non-Asbestos Fibrous</u> None Detected	None Detected	<u>% Non-Fibrous Material</u> 100
N. Th	IST-NVLAP No. 10 is confidential report relates only	1165-0 NY-DOH y to thuse item(s) tested and does not represent (his recort shall not be reproduced except in ful	I No. 11021 AIHA L an endorsement by NIST-NVLAP, AIHA or any agenc 4. wilhout written approval of the laboratory.	ab No. 100188 y of the U.S. government
		Analysis Method:	EPA 600/R-93/116	
Comments: (PC) li limit o EPA 6 due to is base	ndicates Stratified Point Count Me f quantitation. (PC-Trace) means t 00 Method. If not reported or oth resolution limitations of the optica d upon the sample mutrix.	ethod performed. Method not performed unless a that asbestos was detected but is not quantifisher erwise noted, layer is either not present or the cliu al microscope. Therefore, negative PLM results o	tated. Quantification at <0.25% by volume is possible ander the Point Counting regimen. Analysis includes al ant has specifically requested that it not be analyzed. Sn annot be guaranteed. Electron Microscopy can be used	with this method. (PC-Trace) represents the Il distinct separable layers in accordance with nall asbestos fibers may be missed by PLM as a confirming technique. Regulatory Lin
Analysis Perfo	ormed By: E. Smith		Approved By:	
Date: 4/8	/2010	Page 1 of 2	Frank E. Ehre Laboratory Di	nfeld, III rector

IATL

International Asbestos Testing Laboratories

44060

9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Telephone: \$56-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants 6105 Heisley Rd.

Report Date:4/8/2010Project:ODOT - Abbey Rd Over CSXProject No.:H10002-06

Mentor OH

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: Client No.:	3920097 05	Description / Location:	Black Fibrous Expansion Material At Abutments	
<u>% Asbestos</u>	Type	% Non-Asbestos Fibrou	s Material Type	% Non-Fibrous Material
None Detected	None Detected	100	Cellulose	None Detected
Lab No.: Client No.:	3920098 06	Description / Location:	Black Fibrous Expansion Material At Abutments	
% Asbestos	Түре	% Non-Asbestos Fibrous	s Material Type	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

This confidential report relates only to those 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

Comments: (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:

4/8/2010

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Assessos Testiv	HzW Environmental Consultan 6105 Heişley Road Mentor, Ohio 44060	nts. LLC	Project Name Project No.:	0DOT- Abb H10002 -	ey Rd. over 06
Office Phon Cell Phone: FAX / Ema	16: <u>440-357-1260</u> : il [:]]; <u>440-357-1510</u>		Contact 1: Contact 2: FAX / Email 2	Joan Sablar JSablar@hzwenv.	
Special Instruction	s:P0 # 53	18-10			
Matrix:	Air Soil Water Paint	Bulk Surface D	Dust / Wipe	Other	
Analysis I	vlethod:				
PLM : Bi	ilk Asbestos Building Materials EPA	600 / R 93-116			
	PC : via ELAP 198.1 2G : 400 Points PC : 800 Points * PC : other Points *		AUP : by Ho AUP : by Ma AUP : by Ma	mogenous Area as N tterial Type as Noted Material *, **(Dust, niculite Analysis *, *	oted Wipe, Tape, Soil)
	avimetric Reduction VM : NOB via 198.6 VM : Friable via EPA 600 2.3 f <1% by PLM, to TEM via 198.4 * f <1% by PLM, Hold for Instructions	5 FI	LM: Instructions for Analyze and Report Comp Report All La Only Analyz	Multi-Layered Sam Report All Separable osite for Drywall Sy ayers and Composite and Report Specific	ples Layers per EPA 60 stems per NESHAF Where Applicable sally Noted Layer
Additional cha	rge and turnaround may be required, **	Alternative Method	(ex: EPA 600/R-04/00	4) may be recommende	d by Laboratory.
Furnarou) Fime:	nd Preliminary Results Requested		time C	Verbals	FAX 🗖 Ema
C 10 D	ay 5 Day 3 Day	2 Day 🔀 1	Day* 12 H	our** 🚺 6 Hour	** 🔲 RUSH*
* End of n	ext business day unless otherwise specifi	ed. ** Matri	x Dependent. Please i	otify the lab before shi	pping.
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	LAT INTERNATION ASPESTICE DESTINCT LABORAT	AL.	Chain of Custody / Sample Log Bulk Asbestos	9000 Commerce Parkway Suite F Mt. Laurel, NJ 08054 Toll Free: 877 428-4289 <u>info@iatl.com</u> www.iatl.com
	Client: <u>Hz</u>	W Environmental Co 05 Heisley Road Mer	nsultants, LLC Project Name: ODOT- Abb ntor, Oh 44060 Project No.: H1002-06	ey Rd over CSX
	Client Sample 'ID:	iATL Sample ID:	Sample Description / Location	Notes
	01	3920093	Parapet Wall Expansion pasket - Inne	-
	02.	3920094	1	
	03	3920095	Parapet wall expansion gas ket - Outer	
	04	3920096	11	
	05	3920097	Expansion Material at abutments	
	06	3920098	1	
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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
0(Expansion Material in parapet	
02			
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INTERNA Assestos Testas	Chain of T IONAL JLADOBATORIES	Custody / Sample Log ulk Asbestos	9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Toll Free: 877 428-4285 <u>info@iatl.com</u> www.iatl.com
Client:	HzW Environmental Consultants. LLC 6105 Heisley Road Mentor, Ohio 44060	C Project Name: ODOT - (Project No.: <u>H10002</u>	arnegie over GCRTA -06
Office Phon Cell Phone: FAX / Emai	e: 440-357-1260	Contact 1: Joan Sablar Contact 2: FAX / Email 2 JSablar@hzwe	nv.com
Special Instructions	P0#5318-	10	· · · · · · · · · · · · · · · · · · ·
Matrix:	Air Soil X Water Paint	Bulk Other Surface Dust / Wipe	
Analysis M	lethod:	······································	
PLM : Bul	k Asbestos Building Materials EPA 600 / R	93-116	
PLM : Poi	nt Counting C: via ELAP 198.1 C: 400 Points C: 800 Points * C: other Points *	PLM : Analyze Until Positive (Positive AUP : by Homogenous Area as AUP : by Material Type as Not PLM : Non-Building Material *, **(Dus Soil or Vermiculite Analysis *	Stop) 5 Noted red st, Wipe, Tape, Soil) *, ** amples
	LM : NOB via 198.6 LM : Friable via EPA 600 2.3 <1% by PLM, to TEM via 198.4 * <1% by PLM, Hold for Instructions	Analyze and Report All Separa Report Composite for Drywall Report All Layers and Compos Only Analyze and Report Speci	ble Layers per EPA 600 Systems per NESHAP ite Where Applicable ifically Noted Layer
* Additional charg	e and turnaround may be required. ** Alternative	ve Method (ex: EPA 600/R-04/004) may be recomme	nded by Laboratory.
Turnaroun Time:	d Preliminary Results Requested By	date / time	GAX GEmail
10 Day	7 5 Day 3 Day 2 Day	I Day* 12 Hour** 6 Ho	our** 🔲 RUSH**
* End of nex	ct business day unless otherwise specified.	** Matrix Dependent. Please notify the lab before	shipping.
Sample Nur	nbers: Client #(s): 0 (- 02 (start) (end) use your sample log to supply sampling information (ex	iATL#(s):(start)(ex. Volumes, areas, descriptions, locations, etc.) or download	Total: end) forms at iatl.com
Chain of Cu Relinqui Received Sample I Sample I Analysis QA/QC I Archived	Istody: shed (Name / Organization):	Date: 5-7-10 Date: Date: Date: Date: Date: Date: Date: Date: Date: Date:	Time:

IATL

International Asbestos Testing Laboratories

OH

44060

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants 6105 Heisley Rd.

Mentor

Report Date:4/8/2010Project:ODOT Carnegie Over GCRTAProject No.:H10002-06

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: Client No.:	3920107 01	Description / Location:	Grey Non Fibrous Expansion Material In Parapet	
<u>% Asbestos</u>	Type	% Non-Asbestos Fibrous	Material Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Lab No.; Client No.;	3920108 02	Description / Location:	Grey Non Fibrous Expansion Material In Parapet	
<u>% Asbestos</u>	Type	% Non-Asbestos Fibrous	Material Type	<u>% Non-Fibrous Material</u>
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 those 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

Comments: (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 fimit of quantification. (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 metrix.

Analysis Performed By: E. Smith

Approved By:

Date: 4/8/2010

Prank E. Ehrenfeld, III Laboratory Director

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ÎĂ		of Custo Bulk A	ody / Sam Asbesto	ple Log S	9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Toll Free: 877 428-4285
INTERNA! Askistos Testino	TIONAL				<u>info@iatl.com</u> www.latl.com
Client:	HzW Environmental Consultants 6105 Heisley Road Mentor, Ohio 44060	, LLC	Project Nam Project No.:	e: <u>0007 - C</u> arne <u>H10002 - 00</u>	ugie over GCRTA
Office Phone Cell Phone FAX / Émaîl	: <u>440-357-1260</u> 1: <u>440-357-1510</u>		Contact 1: Contact 2: FAX / Email	Joan Sablar	· · · · · · · · · · · · · · · · · · ·
Special Instructions:	P0 # 5318	r-10			
Matrix:	ir Soil [Vater Paint [Bulk Surface Du	st / Wipe	Other	
Analysis Me	thod:	1			·
PLM : Bulk	Asbestos Building Materials EPA 600	V/R 93-116	,		
PLM : Point PC PC PC	Counting via ELAP 198.1 400 Points 800 Points * other Points *		4 : Analyze Until AUP : by Ho AUP : by Ma AUP : by Ma 1 : Non-Building I Soil or Ven	Positive (Positive Stop) mogenous Area as Noted terial Type as Noted Material *, **(Dust, Wipe niculite Analysis * **	, Tape, Soil)
PLM : Gravin PLM PLN PLN If 1 If 21	netric Reduction 1 : NOB via 198.6 1 : Friable via EPA 600 2.3 % by PLM, to TEM via 198.4 * % by PLM, Hold for Instructions	ב שלא 	Instructions for Analyze and Report Comp Report All La Only Analyze	Multi-Layered Samples Report All Separable Laye osite for Drywall Systems yers and Composite Whe and Report Specifically 1	ers per EPA 600 5 per NESHAP re Applicable Noted Layer
* Additional charge a	nd turnaround may be required. ** Alten	native Method (ex	EPA 600/R-04/00	4) may be recommended by 1	Laboratory.
Turnaround Time:	Preliminary Results Requested By	date / tim		Verbals D FAX	
To Day	5 Day 3 Day 2 I	Day 🔀 I Da	чу* 🔲 12 Но	ur** 🚺 6 Hour**	RÚSĦ**
	damess day unless bulerwise specified.	** Matrix D	cpendent, Please n	otify the lab before shipping.	
Please use	Jers: lient #(s):	n (ex. Volumes, area	TL#(s):(st s, descriptions, locatio	art) (end) ns, etc.) or download forms at is	Total:
Chain of Cust Relinquishe Received (I Sample Log Sample Prep Analysis(Na QA/QC Rev Archived / F	ody: d (Name / Organization): Jame / IATL): in (Name / IATL): (Name / IATL): me(s) / IATL): iew (Name / IATL): celeased: QA/QC Interf		Da Da Da Da Da		Time: <u>Jippin</u> Time: <u>Ji</u> Time: <u>Ji</u>
	:				حدر ۵۰.

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Chain of Custody / Sample Log Bulk Asbestos

9000 Commerce Parkway Svite B Mt. Laurel, NJ 08054 Toll Free: 877 428-4285 <u>info@latl.com</u> www.latl.com

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

Project Name:	ODOT- Carneaux owar	GORDA
Project No.:	H10002-06	<u>Quarent</u>

Client Sample ID:	IATL Sample (D:	Sample Description / Location	Notor
01	3920107	Expansion Material in para not	Trotes
02	3920108	11	
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	Chain of Custody / Sa	ample Log	9000 Commerce Pa S
IATL	Bulk Asbes	tos	Mt. Laurel, NJ Toll Free: 877 428 <u>info@ia</u> www <mark>/</mark> a
Client: <u>HzW Environmental Co</u> <u>6105 Heisley Road</u> <u>Mentor, Ohio 44060</u>	nsultants. LLC Project M Project M	Name: <u>ODOT - I</u> No.: <u>H10002 -</u>	77 over E. 14
Office Phone: <u>440-357-1260</u> Cell Phone: FAX / Email 1: <u>440-357-1510</u>	Contact Contact FAX / Er	1: Joan Sablar 2: nail 2_JSablar@hzweny	.com
Special P0 #	5318-10		
Matrix:	Bulk Surface Dust / Wipe	Other	
Analysis Method:			
PLM : Bulk Asbestos Building Materials	s EPA 600 / R 93-116		
PC: via ELAP 198.1 PC: 400 Points PC: 800 Points * PC: other Points * PLM: Gravimetric Reduction PLM : NOB via 198.6	AUP : AUP : AUP : PLM : Non-Bui Soil or PLM: Instructio	by Homogenous Area as N by Material Type as Noted Iding Material *, **(Dust, Vermiculite Analysis *, *	Vipe, Tape, Soil)
PLM : Friable via EPA 600 2.3 If <1% by PLM, to TEM via 19 If <1% by PLM, Hold for Instru	8.4 * Report ctions Only A	Composite for Drywall Sy. All Layers and Composite nalyze and Report Specific	stems per EPA 600 stems per NESHAP Where Applicable cally Noted Layer
* Additional charge and turnaround may be required	 Alternative Method (ex: EPA 600/R 	-04/004) may be recommende	ed by Laboratory.
Turnaround Preliminary Results Requ Time:	uested By date / time	Verbals 🗆]	FAX 🛛 Email
10 Day 5 Day 3 Day * End of next business day unless otherwise s	2 Day X 1 Day*	12 Hour** 6 Hour lease notify the lab before shi	** RUSH**
Sample Numbers: Client #(s):	(end) (end) information (ex. Volume	(start) (end)	Total:
	is information (ex. volumes, areas, description:	s, locations, etc.) or download for	ms at lati.com
Chain Of Castody: Relinquished (Name / Organization): Received (Name / iATL): Sample Login (Name / iATL): Sample Prep (Name / iATL):	W	Date: Date: Date: Date:	Time: Time: Time: Time:
Analysis(ivame(s)/IAIL):		Date:	Time:

	INTERNATION ASSESTOR TESTING LABORA	Chain of Custody / Sample Log Bulk Asbestos	9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Toll Free: 877 428-4285 <u>info@iatl.com</u> www.jatl.com
	Client: $\frac{Hz}{61}$	W Environmental Consultants, LLC Project Name: 0007- 05 Heisley Road Mentor, Oh 44060 Project No.: H10003	I77 over E. 14th St.
	Client Sample ID: 01 02 03 04 05 06 07 08 	iATL Sample ID: Sample Description / Location Expansion Material in parapet 1 11 11 11 11 11 11 11 11 11	Notes At I/
P	Please Make Additional Co	opies As Needed	Page / of

JA.	Testing	Laboratories			Telephone: 85)	5-231-9449 Fax: 856-2
		CERTIFICA	TE OF	ANALY	SIS	
Client:	HZW Environme 6105 Heisley Rd.	ntal Consultants		Report Date: Project:	: 4/8/2010 ODOT - 177 (over E 14th St
	Mentor	OH 44060		Project No.:	H10002-06	
		BULK SAMPLE	ANALYSI	S SUMMAR	RY	
Lab No.: Client No :	3920099 01	Description / Loca	tion: Tan Wall	l n Material In Para	et Well	Manuta,
Mone 110.	Tana	% Non Asheele	Expansio			
<u>Norma Defenda</u>	A YPE			<u>I ype</u>		70 INON-FIDFOUS Mate
None Detected	1 'None Detected	Non¢ l	Detected	None Detected		100
Lab No.:	3920100	Description / Loca	tion: Tan Wall			
Client No.:	02		Expansio	n Material In Parap	et Wall	
% Asbestos	<u>Тур</u> е	% Non-Asbestos	Fibrons Materia	Type		% Non-Fibrous Mate
None Detected	None Detected	None I	Detected	None Detected		100
Lab No 4	3070101	Description / Yosat	in. Tan Wall		••••	
Client No.:	03	Description / Local	Expansio	n Material In Parap	ct Wall	
<u>% Asbestos</u>	Түре	% Non-Asiestos	Fibrous Material	Type		% Non-Fibrous Mater
None Detected	None Detected	None I	Detected	None Detected		100
Lab No.: Client No.:	3920102 04	Description / Locat	ion: Tan Wall Expansion	n Material in Paran	et Wall	
% Asbestos	Туре	% Non-Asbestos	Fibrous Material	Турс		% Non-Fibrous Mater
None Detected	None Detected	None E	etected	None Detected	`	100
		/				
NI Th	IST-NVLAP No. 1 is confidential report relates of	01165-0 NY- Ny to those item(s) tested and does not re	DOH No. 110	21 nt by NIST-NVLAP, AIHA	AIHA Lab No	. 100188 S. government
		This report shall not be reproduced sxc.	apt in full, without write	en approval of the labor	atory.	<u>\</u>
Comments: (PC) In limit of EPA 60 duc to 1	dicares Stratified Point Count N opentitation, (PC-Trace) means Method. If not reported or of csolution limitations of the opti	Analysis in Ichod performed. Method not performed that asbestos was detected but is not quar herwise noted, layer is either not present c cal microscope. Therefore, negative PLM	unless stated, Quantific tifiable under the Point r the chient has specific results cannot be guara	sation at <0.25% by volum Counting regimen. Analy illy requested that it not b need. Electron Microscop	ne is possible with this m sis includes all distinct s a analyzed. Small asbeat by can be used as a confi	nethod, (PC-Trace) represent eparable layers in accordance os fibers may be missed by P ming technique, Regulatory
Analysis Perfo	rmed By: E. Smith		A	opproved By:		
		₩.#₩.# <u>₩.</u> ₩.₩.	1.			
uare: 4/8/	2010	Dece	1 000	Fr La	ank E. Ehrenfeld, III boratory Director	

		CERTIFICATE (OF ANALYS	SIS
Client:	H7W Environmen	tal Congultanta		
CHOIL,	6105 Heisley Rd.		Report Date:	4/8/2010
	Mentor	OH 44060	Project No.:	H10002-06
		BULK SAMPLE ANAI	YSIS SUMMAR	RY /
Lab No.: Client No.:	3920103 05	Descríption / Location: B	låck Tar Paper	
<u>% Asbestos</u>	су <u>Түре</u>	r <u>% Non-Asbestos</u> Fibrous M	aterial Type	% Non-Fibrous Materi
None Detected	None Detected	80	Cellulose	20
	•			
Lab No.: Client No.:	3920104 06	Description / Location: B Pi	lack Tar Paper ipe Wran	
% Asbestos	Type	% Non-Asbestos Fibrous Ma	aterial Type	% Non-Fibrous Materia
None Detected	None Detected	30	Cellulose	70
Lab No.:	3920105	Description / Location: B	lack Tar Paper	
Client No.:	07	R	pe Wrap	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Pibrous Ma</u>	tterial <u>Type</u>	<u>% Non-Fibrous Materia</u>
TADIle Derecteur	None Detected	30	Centilose	20
Lab No.:	3920106	Description / Location: Bl	ack Tar Paper	
M Ashevios	08 Tune	PT % Non-Ashestas Fibrais Ma	pe wrap	% Non Fibroug Materia
None Detected	None Detected	30	Cellulose	<u>70</u>
				\backslash
				\backslash
NI	ST-NVLAP No. 10	1165-0 NY-DOH N	o. 11021	AIHA Lab No. 100188
Thi	s confidential report relates only I	to those item(s) tested and does not represent an er his report shall not be reproduced except in full, wit	idorsement by NIST-NVLAP, AIIIA hout written approval of the labora	or any agency of the U.S. government story.
omments: (PC) Inc	dicates Stratified Point Count Me	Analysis Method: EPA thod performed. Method not performed unless stated.	600/R-93/116 Quantification at <0.25% by volum	e is possible with this method (PC-Trace) represents
limit of EPA 60 due to re is based	quantitation. (PC-Trace) means to Method. If not reported or othe esolution limitations of the optical ypon the sample matrix.	nat asbestos was detected but is not quantifiable under rwise noted, layer is either not present or the client ha l microscope. Therefore, negative PLM results canno	the Point Counting regimen. Analys a specifically requested that it not be t be guaranteed. Electron Microscop	sis includes all distinct separable ayers in accordance w analyzed. Small asbestos fibets may be missed by PLI y can be used as a confirming technique. Regulatory L
nalysis Perfor	rmed By: E. Smith			
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rae: 4/8/2	2010			\sim

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	Chain of Cus	tody / Sample Log	9000 Commerce Parlovay
	IATI. Bulk	Asbestos	Mt. Laurel, NJ 08054 Toll Free: 877 428-4285
	INTERNATIONAL Astronos Testing Laboratorius		info@latl.com www.iatl.com
-	Client: <u>HzW Environmental Consultants, LLC</u> 6105 Heisley Road Mentor, Ohio 44060	Project Name: <u>0007 - I 77</u> Project No.: <u>H10002 - 00</u>	oper E. 14th St
	Office Phone: <u>440-357-1260</u> Cell Phone:	Contact 1: <u>Joan Sablar</u>	
	FAX / Email 1: 440-357-1510	FAX / Email 2 <u>JSablar@hzwenv.com</u>	Π
	Special <u>P0 # 5318 - 10</u>		
1 1 1	Instructions:		
	Matrix:		
1	Water Paint Surface	Dust / Wipe	
	Analysis Method:		
	PLM : Bulk Asbestos Building Materials EPA 600 / R 93-116		
!	PLM: Point Counting	PLM: Analyze Until Positivc (Positive Stop)	1
	PC: 400 Points PC: 800 Points *	AUP : by Material Type as Noted	1
i	PC: other Points *	PLM : Non-Building Material *, **(Dust, Wip Soil or Vermiculite Analysis *, **	e, Tape, Soil)
	PLM : Gravimetric Reduction PLM : NOB via 198.6 PLM : Friable via EPA 600 2.3 If <1% by PLM, to TEM via 198.4 * If <1% by PLM, Hold for Instructions	PLN: Instructions for Multi-Layered Samples Analyze and Report All Separable Lay Report Composite for Drywall System Report All Layers and Composite Wh Only Analyze and Report Specifically	yers per EPA 600 1s per NESHAP ere Applicable Noted Layer
	* Additional charge and turnaround may be required, ** Alternative Method	f (cx: EPA 600/R-04/004) may be recommended by	
	i i i i i i i i i i i i i i i i i i i		
	Time: date	Uverbals UFA	X 🖵 Email
	10 Day 5 Day 3 Day 2 Day	I Day* 12 Hour** 6 Hour**	RUSH**
	* End of next business day philess otherwise specified. ** Mat	rix Dependent. Please notify the lab before shippin	£
	Sample Numbers: Client #(s): (start) Please use your sample log to supply sampling information (ex. Volumes	iATL#(s):	_Total:
	Chain of Custody:		
	Relinquished (Name / Organization): Received (Name / iATL):	Date: 5-7//0) Date: /////	Time of am
	Sample Prep (Name / iATL): Analysis(Name(s) / iATL): QA/QC Review (Name / iATL): Archived / Released:	Date:	
: /	QA/QC INTERLAB USe:	Date:	l'inte
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	zW Environmental Co	onsultants, LLC Project Name: 000T- I77	over E. 14
<u>6</u>	105 Heisley Road Me	ntor, Oh 44060 Project No.: <u>H10002</u> -06	
Client Sample ID:	ATL Sample (D:	Sample Description / Location	Notes
01	3920099	Expansion Material in parapet Wall	
02:	3920100	11	
03	3920101	10	
04	3920102	11	
05	3920103	Tar paper Pipe Wrap	
06	3920104	11	
07	3920105	11	
08	3920106	(1	
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