CUY-90-14.90

PID 77332/85531

APPENDIX EC-10

OEPA Full Asbestos Inspection Report
(Contract Document)

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

Innerbelt Bridge
Construction Contract Group 1 (CCG1)

Revision Date: June 15, 2009

FINDINGS FROM AN ASBESTOS SURVEY

Eleven (11) Bridges Associated with the CUY-Innerbelt CCGI Design ODOT PID 77332

JUNE 2009

Prepared for:

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

Prepared by:

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H09004-07

HzW Environmental
Consultants, LLC

June 15, 2009

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 Eleven (11) Bridges Associated with the CUY – Innerbelt CCGI Design for the Ohio Department of Transportation (ODOT) District 12 (HzW Project No. H09004-07)***

Dear Mr. Carpenter:

In accordance with our letter agreement dated November 26, 2007, HzW Environmental Consultants, LLC (HzW) conducted an asbestos survey at eleven (11) bridges associated with the CUY – Innerbelt CCGI Design for the Ohio Department of Transportation District 12. The eleven (11) bridges consisted of the following:

1. CUY–90-1463R (SFN 1809148) Ramp WN under I-71 Mainline Bridge
2. CUY-90-1490L (SFN 1809342) Over Starkweather Avenue
3. CUY-90-1490R (SFN 1807625) Over Starkweather Avenue
4. CUY-90-1506 (SFN 1807684) Over Kenilworth Avenue
5. CUY-90-15.24 (SFN 1809393) Innerbelt Bridge over Cuyahoga River
6. CUY-90-1628EW (SFN 1807552) Center Bridge over East 9th Street
7. CUY-90-1628L (SFN 1807498) Northern most Bridge over East 9th Street
8. CUY-90-1628R (SFN 1807714) Southern most Bridge over East 9th Street
9. CUY-90-1640 (SFN 1807773) Over Ramps E-10 and E-8
10. CUY-90-1651L (SFN 1807900) Over East 14th Street
11 CUY-90-1651R (SFN 1807803) 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 all of 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 May and June 2009 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**.

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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 EMSL Analytical, Inc. of Westmont, New Jersey, for analysis of asbestos content by Polarized Light Microscopy (PLM) using the Environmental Protection Agency (EPA) Method 600/R-93/116.

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 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–90-1463R (SFN 1809148) Ramp WN under I-71 Mainline Bridge

Based on a review of the construction plans dated April 8, 1965 (Pages 1 thru 504) for this bridge, ten (10) suspect ACMs were noted as being used during construction of the bridge. These suspect ACMs consisted of the following:

1. ¼-inch by 4-inch Expansion Joint Material – located on superstructure. Quantity of this suspect material located on the bridge structure is unknown.
2. ½-inch Preformed Expansion Joint Filler – where pull box is in contact with other concrete. Quantity of this suspect material located on the bridge structure is unknown.
3. Type I Fiber Ducts or Galvanized Steel Conduit for Foundation Conduit Bends – associated with Lighting. Quantity of this suspect material located on the bridge structure is unknown.
4. ½-inch Preforated Expansion Joint Filler – located in abutments. Quantity of this suspect material located on the bridge structure is 81 square feet.
5. 6-inch Perforated Helical Corrugated Metal Pipe (CMP) – located in abutments. Quantity of this suspect material located on the bridge structure is 164 linear feet.
6. 6-inch Non-Perforated Helical CMP – located in abutments. Quantity of this suspect material located on the bridge structure is 119 square feet.
7. 12-inch by ½-inch Premolded Sealing Strip – located at top of footing to bottom of approach slab or to 6-inches below median of the bridge. Quantity of this suspect material located on the bridge structure is 31 linear feet.
8. Construction Joints – located in abutments, wing walls, piers and deck. Quantity of this suspect material located on the bridge structure is unknown.
9. 1/8-inch Sheet Asbestos Packing – located in abutments. Quantity of this suspect material located on the bridge structure is unknown.
10. Tar Paper – 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 Items 1 – 3 and 5 - 10, above. Three (3) additional suspect ACMs were identified during the physical inspection. These suspect materials consisted of the following:

1. Expansion Material – located in parapet walls. HzW sampled this suspect material (Sample Nos. 01 and 02) and no asbestos was identified in the samples collected.
2. Expansion Material – located where abutment meets parapet walls. 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. 4 listed above.
3. Expansion Material – located at base of pier columns. HzW sampled this suspect material (Sample Nos. 05 and 06) and no asbestos was identified in the samples collected.

CUY-90-1490L (SFN 1809342) Over Starkweather Avenue and CUY-90-1490R (SFN 1807625) Over Starkweather Avenue

Based on a review of the construction plans dated April 8, 1965 (Pages 1 thru 504) for these bridges, ten (10) suspect ACMs were noted as being used during construction of these bridges. These suspect ACMs consisted of the following:

1. ¼-inch by 4-inch Expansion Joint Material – located on both superstructures. Quantity of this suspect material located on the bridge structures is unknown.
2. ½-inch Preformed Expansion Joint Filler – where pull box is in contact with other concrete for both bridges. Quantity of this suspect material located on the bridge structures is unknown.
3. Type I Fiber Ducts or Galvanized Steel Conduit for Foundation Conduit Bends – associated with Lighting for both bridges. Quantity of this suspect material located on the bridge structures is unknown.
4. 1-inch Preformed Expansion Joint Filler – located around each pier column for both bridges. Quantity of this suspect material located on the bridge structures is unknown.
5. 1-inch Preformed Expansion Joint Filler – located in abutments of the CUY-90-1490R bridge only. Quantity of this suspect material located on this bridge structure is 48 square feet.
6. ½-inch Preformed Expansion Joint Filler – located in abutments of both bridges. Quantity of this suspect material located on each bridge structure is 162 square feet for the CUY-90-1490R bridge and 48 square feet for the CUY-90-1490L bridge.
7. 6-inch Performed Helical Corrugated Metal Pipe (CMP) – located in abutments of both bridges. Quantity of this suspect material located on each bridge structure is 167 linear feet on the CUY-90-1490R bridge and 56 linear feet on the CUY-90-1490L bridge.
8. 6-inch Non Performed Helical Corrugated Metal Pipe (CMP) – located in abutments of both bridges. Quantity of this suspect material located on each bridge structure is 275 linear feet on the CUY-90-1490R bridge and 70 linear feet on the CUY-90-1490L bridge.
9. 12-inch by ½-inch Premolded Sealing Strip – located at top of footing to bottom of approach slab or to 6-inches below median on the CUY-90-1490R bridge. Quantity of this suspect material located on this bridge structure is 62 linear feet.
10. Construction Joints – located in abutments, wing walls, piers and deck on both bridges. Quantity of this suspect material located on the bridge structures is unknown.

During the physical inspection of the bridge, HzW could not locate Items 1 – 5 and 7 - 10, above. Three (3) additional suspect ACMs were identified during the physical inspection. These suspect materials consisted of the following:

1. Expansion Material – located in abutment meets parapet walls of both bridges. 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. 6 listed above.
2. Expansion Material – located in parapet walls of both bridges. HzW sampled this suspect material (Sample Nos. 03 and 04) and no asbestos was identified in the samples collected.
3. Expansion Material – located where the abutment meets the underside sloped concrete wall of both bridges. HzW sampled this suspect material (Sample Nos. 05 and 06) and no asbestos was identified in the samples collected.

CUY-90-1506 (SFN 1807684) Over Kenilworth Avenue

Based on a review of the construction plans dated April 8, 1965 (Pages 1 thru 504) for this bridge, ten (10) suspect ACMs were noted as being used during construction of the bridge. These suspect ACMs consisted of the following:

1. ¼-inch by 4-inch Expansion Joint Material – located on superstructure. Quantity of this suspect material located on the bridge structure is unknown.
2. ½-inch Preformed Expansion Joint Filler – where pull box is in contact with other concrete. Quantity of this suspect material located on the bridge structure is unknown.
3. Type I Fiber Ducts or Galvanized Steel Conduit for Foundation Conduit Bends – associated with Lighting. Quantity of this suspect material located on the bridge structure is unknown.
4. 1-inch Preformed Expansion Joint Filler – located around each pier column. Quantity of this suspect material located on the bridge structure is unknown.
5. 1-inch Preformed Expansion Joint Filler – located in abutments. Quantity of this suspect material located on the bridge structure is 47 square feet.
6. ½-inch Preformed Expansion Joint Filler – located in abutments. Quantity of this suspect material located on the bridge structure is 165 square feet.
7. 6-inch Performed Helical Corrugated Metal Pipe (CMP) – located in abutments. Quantity of this suspect material located on the bridge structure is 281 linear feet.
8. 6-inch Non Performed Helical Corrugated Metal Pipe (CMP) – located in abutments. Quantity of this suspect material located on the bridge structure is 165 linear feet.
9. 12-inch by ½-inch Premolded Sealing Strip – located at top of footing to bottom of approach slab or to 6-inches below median. Quantity of this suspect material located on the bridge structure is unknown.
10. Construction Joints – located in abutments, wing walls, piers and deck. Quantity of this suspect material located on the bridge structure is unknown.

During the physical inspection of the bridge, HzW could not locate Items 1 - 10, above. One (1) additional suspect ACM was identified during the physical inspection. This suspect material consisted of the following:

1. Expansion Gasket Material – located in parapet walls. HzW sampled this suspect material (Sample Nos. 01 and 02) and no asbestos was identified in the samples collected.

CUY-90-15.24 (SFN 1809393) Innerbelt Bridge over Cuyahoga River

Based on a review of the construction plans dated April 8, 1965 (Pages 1 thru 504) for this bridge, thirty-one (31) suspect ACMs were noted as being used during construction of the bridges. These suspect ACMs consisted of the following:

West Approach

1. 3-inch Fiber or Asbestos Cement Conduit for Lighting Cables – located in parapet. Quantity of this suspect material located on the bridge structure is unknown.
2. 3-inch Transite conduit or equal for Lighting Cables – located in concrete foundation from transformer pole base box. Quantity of this suspect material located on the bridge structure is unknown.
3. 3-inch Transite Conduit for lighting – located in concrete pull box. Quantity of this suspect material located on the bridge structure is unknown.
4. 12-inch by ½-inch Premolded Sealing Strip – located at top of footing to 9-inches below top of curb. Quantity of this suspect material located on the bridge structure is unknown.
5. Construction Joints – located in abutments, retaining walls and piers. Quantity of this suspect material located on the bridge structure is unknown.
6. 1-inch Gray Rubber Preformed Expansion Joint Filler – located in abutments. Quantity of this suspect material located on the bridge structure is 170 square feet.
7. 3-inch Johns Manville Transite or Equal Conduit – running under pavement. Quantity of this suspect material located on the bridge structure is unknown.

Central Viaduct

8. Construction Joints – located in slab and piers. Quantity of this suspect material located on the bridge structure is unknown.
9. 1-inch Preformed Gray Rubber Expansion Joint Filler – located in abutments. Quantity of this suspect material located on the bridge structure is 73.2 square feet.
10. 3-inch conduit – located under each sidewalk. Quantity of this suspect material located on the bridge structure is unknown.
11. 4 2-inch conduits – located transversely in Span 1 and Span 9. Quantity of this suspect material located on the bridge structure is unknown.
12. Expansion Joint – located in piers. Quantity of this suspect material located on the bridge structure is unknown.
13. ½-inch Poured Mastic Joints – associated with roadway drainage. Quantity of this suspect material located on the bridge structure is unknown.
14. ½-inch Filler – located at floor beams. Quantity of this suspect material located on the bridge structure is unknown.
15. 1-inch Hot Poured Joint Sealer – associated with drainage. Quantity of this suspect material located on the bridge structure is unknown.
16. ½-inch Sponge Rubber Expansion Joint Material – located on superstructure. Quantity of this suspect material located on the bridge structure is 716 square feet.

East Approach

17. 2-inch or 3-inch Fiber or Asbestos Cement Conduit for Lighting Cables – located in parapet. Quantity of these suspect materials located on the bridge structure is 3,550 linear feet.
18. Asbestos Wire for Lighting – installed between the bracket end at luminaire and lamp socket. Insulation shall be asbestos applied to conductor to form a continuous tube of asbestos fibers at least 40 mils thick tightly compressed and impregnated with a flame heat & moisture proof compound and an outer asbestos braid at least 45 mils thick. Quantity of this suspect material located on the bridge structure is unknown.
19. 2-Way Duct Bank for Lighting Containing 2-inch Nonmetallic Conduit. Quantity of these suspect materials located on the bridge structure is unknown.
20. 12-inch by ½-inch Premolded Sealing Strip – located from bottom of footing to bottom of approach slab in abutments and from top of footing to 9-inches below top of curb in wing wall. Quantity of this suspect material located on the bridge structure is 60 linear feet.
21. ½-inch Bituminous Premoulded Joint Filler – associated with Riprap expansion joints. Quantity of this suspect material located on the bridge structure is unknown.
22. Construction Joints – located in abutments and piers. Quantity of this suspect material located on the bridge structure is unknown.
23. ½-inch Premoulded Gray Rubber Expansion Joint Material – located in approach slabs. Quantity of this suspect material located on the bridge structure is unknown.
24. 2-inch Duct – located in concrete foundation from transformer pole base box. Quantity of this suspect material located on the bridge structure is unknown.
25. 4-inch Duct – location unknown. Quantity of this suspect material located on the bridge structure is 350 linear feet.
26. 1 Layer of Tar Paper – located in abutments, footings, and piers. Quantity of this suspect material located on the bridge structure is unknown.
27. Handrail Caulking Compound – located on parapet sidewalk. Quantity of this suspect material located on the bridge structure is unknown.
28. 1-inch Hot Poured Joint Filler – located in construction joints on wearing surface. Quantity of this suspect material located on the bridge structure is unknown.
29. ¼-inch Gray Rubber Deflection Joint Material – location unknown. Quantity of this suspect material located on the bridge structure is unknown.
30. Transverse Conduit – located under roadway. Quantity of this suspect material located on the bridge structure is unknown.
31. ½-inch Gray Rubber Preformed Expansion Joint Filler – located in piers and abutments. Quantity of this suspect material located on the bridge structure is 330 square feet.

During the physical inspection of the bridge, HzW could not locate Items 1-24 and 26-31, above. Five (5) additional suspect ACMs were identified during the physical inspection. These suspect materials consisted of the following:

1. Epoxy Material underneath Fence Post Brackets – located on parapet walls. HzW sampled this suspect material (Sample Nos. 01 through 04) and no asbestos was identified in the samples collected.
2. Gasket Material – located in parapet walls. HzW sampled this suspect material (Sample Nos. 05 and 06) and no asbestos was identified in the samples collected.

3. 4-inch fiber conduit – located in abutment walls. HzW sampled this suspect material (Sample Nos. 07 and 08 and 11 and 12) and from 32.5 to 43.1 percent asbestos was identified in the samples collected. This material is similar to Item No. 25, above located in the East Approach of this bridge. It should be noted that this same asbestos-containing material was also identified in the West Approach; however, it was not documented in the construction plans. HzW estimated that approximately 350 linear feet of this material is located in the West Approach of this bridge.
4. 3-inch Tar-Coated Cellulose Duct – located in parapet walls. HzW sampled this suspect material (Sample Nos. 09 and 10) and no asbestos was identified in the samples collected.
5. Expansion Gasket Material – located in abutments. HzW sampled this suspect material (Sample Nos. 13 and 14) and no asbestos was identified in the samples collected.

CUY-90-1628EW (SFN 1807552) Center Bridge, CUY-90-1628L (SFN 1807498) Northern most Bridge and CUY-90-1628R (SFN 1807714) Southern most Bridge over East 9th Street

Based on a review of the construction plans dated March 9, 1960 (Pages 1 thru 148) for these bridges, twelve (12) suspect ACMs were noted as being used during construction of the bridges. These suspect ACMs consisted of the following:

1. 2-inch and 4-inch Fiber or Asbestos Cement Conduit for Lighting cables – located in parapet, retaining walls and superstructure of all bridges. Quantity of these suspect materials located on the bridge structures is 740 and 65 linear feet, respectively.
2. Asbestos Wire for Lighting – installed between the bracket end at luminaire and lamp socket of all bridges. Insulation shall be asbestos applied to conductor to form a continuous tube of asbestos fibers at least 40 mils thick tightly compressed and impregnated with a flame heat & moisture proof compound and an outer asbestos braid at least 45 mils thick. Quantity of this material located on the bridge structures is unknown.
3. 2-Way Duct Bank for Lighting Containing 2 2-inch Fiber or Asbestos Conduit – located in all bridges. Quantity of this suspect material located on the bridge structures is 350 linear feet.
4. 3-Way Duct Bank for Lighting Containing 3 4-inch Fiber or Asbestos Conduit – located in all bridges. Quantity of this suspect material located on the bridge structures is 150 linear feet.
5. 4-Way Duct Bank for Lighting Containing 2 2-inch and 2-4-inch Fiber or Asbestos Conduit – located in all bridges. Quantity of this suspect material located on the bridge structures is 175 linear feet.
6. Conduit for Lighting – located in concrete pull boxes of all bridges. Quantity of this suspect material located on the bridge structures is unknown.
7. 12-inch by ½-inch Premolded Sealing Strip – located in abutments in recess from top of footing to bottom of approach slab and to 6-inch below top of median of all bridges. Quantity of this suspect material located on the bridge structures is 60 linear feet.
8. ¾-inch Premoulded Expansion Joint Material – located in front of bumper block to within 2-inches of the surface of all bridges. Quantity of this suspect material located on the bridge structures is unknown.
9. Bituminous filler – located in front of bumper block to within 2-inches of the surface of all bridges. Quantity of this suspect material located on the bridge structures is unknown.
10. Construction Joints – located in abutments and piers of all bridges. Quantity of this suspect material located on the bridge structures is unknown.
11. 1-inch Preformed Expansion Joint Filler – located in piers of all bridges. Quantity of this suspect material located on the bridge structures is unknown.
12. 1-inch Preformed Gray Sponge Rubber Expansion Joint Filler – located in abutments of all bridges. Quantity of this suspect material located on the bridge structures is 80 square feet.

During the physical inspection of the three (3) bridges, HzW could not locate Items 1 - 12, above. Five (5) additional suspect ACMs were identified during the physical inspection. These suspect materials consisted of the following:

1. Epoxy Material underneath New Guard Rail Mounts – located on parapet walls of all three (3) bridges. HzW sampled this suspect material on each bridge (Sample Nos. 01 and 02 for each bridge) and no asbestos was identified in the samples collected.
2. 3-inch Tar-Coated Cellulose Duct – located in parapet walls of all three (3) bridges. HzW sampled this suspect material on each bridge (Sample Nos. 03 and 04 for each bridge) and no asbestos was identified in the samples collected.
3. Gasket Material underneath Old Guard Rail Mounts – located on parapet walls of all three (3) bridges. HzW sampled this suspect material on each bridge (Sample Nos. 05 and 06 for the Central bridge and Sample Nos. 07 and 08 for the Northern-most and Southern-most bridges) and from 2.1 to 2.5 percent asbestos was identified in the samples collected. The quantity of this asbestos-containing material identified on all three (3) bridges is 30 square feet (6 square feet on the Central bridge, 15 square feet on the Northern most bridge and 9 square feet on the Southern most bridge).
4. Gasket Material – located in parapet walls of all three (3) bridges. HzW sampled this suspect material on each bridge (Sample Nos. 07 and 08 for the Central bridge and Sample Nos. 05 and 06 for the Northern-most and Southern-most bridges) and no asbestos was identified in the samples collected.
5. Thick Gasket Material – located where the bridge deck meets the abutment of the Northern-most bridge. HzW sampled this suspect material (Sample Nos. 09 and 10) and no asbestos was identified in the samples collected.

CUY-90-1640 (SFN 1807773) Over Ramps E-10 and E-8

Based on a review of the construction plans dated March 9, 1960 (Pages 101 thru 113) for this bridge, sixteen (16) suspect ACMs were noted as being used during construction of the bridge. These suspect ACMs consisted of the following:

1. 2-inch and 4-inch Fiber or Asbestos Cement Conduit for Lighting cables– in parapet, retaining walls and superstructure. Quantity of these suspect materials located on the bridge structure is estimated at 715 and 20 linear feet, respectively.
2. 2-inch Fiber Conduit for Lighting Cables – in concrete foundation from transformer pole base box. Quantity of this suspect material located on the bridge structure is unknown.
3. Asbestos Wire for Lighting – installed between the bracket end at luminaire and lamp socket. Insulation shall be asbestos applied to conductor to form a continuous tube of asbestos fibers at least 40 mils thick tightly compressed and impregnated with a flame heat & moisture proof compound and an outer asbestos braid at least 45 mils thick. Quantity of this suspect material located on the bridge structure is unknown
4. 2-Way Duct Bank for Lighting Containing 2 2-inch and 1 4-inch Fiber or Asbestos Conduit. Quantity of these suspect materials located on the bridge structure is 583 and 35 linear feet, respectively.
5. 3-Way Duct Bank for Lighting Containing 3 2-inch Fiber or Asbestos Conduit. Quantity of this suspect material located on the bridge structure is 130 linear feet.
6. 4-Way Duct Bank for Lighting Containing 2 2-inch Fiber or Asbestos Conduit. Quantity of these suspect materials located on the bridge structure is 287 linear feet.
7. Transite Conduit for Lighting – located in concrete pull box. Quantity of this suspect material located on the bridge structure is unknown.

8. 12-inch by ½-inch Premolded Sealing Strip – located in abutments and retaining walls in recess from top of footing to bottom of approach slab and to 6-inch below top of median. Quantity of this suspect material located on the bridge structure is 80 linear feet.
9. ¼-inch Premoulded Expansion Joint Material – located in front of bumper block to within 2-inches of the surface. Quantity of this suspect material located on the bridge structure is unknown.
10. Bituminous Filler – located in front of bumper block to within 2-inches of the surface. Quantity of this suspect material located on the bridge structure is unknown.
11. Construction Joints – located in abutments, retaining walls, nose and piers. Quantity of this suspect material located on the bridge structure is unknown.
12. ½-inch Bituminous Preformed Joint Filler – located in abutments for drainage. Quantity of this suspect material located on the bridge structure is unknown.
13. 1-inch Expansion Joint – located in abutments and end dam. Quantity of this suspect material located on the bridge structure is unknown.
14. Poured Joint Sealer – associated with junction boxes at median. Quantity of this suspect material located on the bridge structure is unknown.
15. 1-inch Preformed Expansion Joint Filler – located in piers. Quantity of this suspect material located on the bridge structure is unknown.
16. ¼-inch Preformed Gray Sponge Rubber Expansion Joint Filler – located in parapet joints. Quantity of this suspect material located on the bridge structure is unknown.

During the physical inspection of the bridge, HzW could not locate Items 1 - 15, above. Four (4) additional suspect ACMs were identified during the physical inspection. These suspect materials consisted of the following:

1. Epoxy Material underneath New Guard Rail Mounts – located on parapet walls. HzW sampled this suspect material (Sample Nos. 01 and 02) and no asbestos was identified in the samples collected.
2. 3-inch Tar-Coated Cellulose Duct – located in parapet walls. HzW samples this suspect material (Sample Nos. 03 and 04) and no asbestos was identified in the samples collected.
3. Expansion Material – located in parapet walls. 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. 16, above.
4. Gasket Material underneath Old Guard Rail Mounts – located on parapet walls of both bridges. HzW sampled this suspect material (Sample Nos. 07 and 08) and from 3.7 to 3.9 percent asbestos was identified in the samples collected. Approximately 15 square feet of this asbestos-containing material is located on the bridge structure.

CUY-90-1651L (SFN 1807900) and CUY-90-1651R (SFN 1807803) Over East 14th Street

Based on a review of the construction plans dated March 9, 1960 (Pages 1 thru 181) for these bridges, sixteen (16) suspect ACMs were noted as being used during construction of the bridges. These suspect ACMs consisted of the following:

1. 2-inch and 4-inch Fiber or Asbestos Cement Conduit for Lighting cables – in parapet, retaining walls and superstructure of both bridges. Quantity of these suspect materials located on the bridge structures is 1,350 and 690 linear feet, respectively.
2. 2-inch fiber conduit for lighting cables – in concrete foundation from transfer pole base box of both bridges. Quantity of this suspect material located on the bridge structures is unknown.

3. Asbestos wire for lighting – installed between the bracket end at luminaire and lamp socket of both bridges. Insulation shall be asbestos applied to conductor to form a continuous tube of asbestos fibers at least 40 mils thick tightly compressed and impregnated with a flame heat & moisture proof compound and an outer asbestos braid at least 45 mils thick. Quantity of this suspect material located on the bridge structures is unknown.
4. 2-Way Duct Bank for Lighting Containing 2 2-inch and 1 4-inch Fiber or Asbestos Conduit– located in both bridges. Quantity of these suspect located on the bridge structures is 583 and 35 linear feet, respectively.
5. 3-Way Duct Bank for lighting containing 3 2-inch fiber or asbestos conduit– located in both bridges. Quantity of this suspect material located on the bridge structures is 130 linear feet.
6. 4-Way Duct Bank for lighting containing 2 2-inch fiber or asbestos conduit– located in both bridges. Quantity of these suspect materials located on the bridge structures is 287 linear feet.
7. Transite Conduit for lighting – located in concrete pull box of both bridges. Quantity of this suspect material located on the bridge structures is unknown.
8. 12-inch by ½-inch Premolded Sealing Strip – located in abutments and retaining walls in recess from top of footing to bottom of approach slab and to 6-inch below top of median of both bridges. Quantity of this suspect material located on the bridge structures is 144 linear feet.
9. ¾-inch Premoulded Expansion Joint Material – located in front of bumper block to within 2-inches of the surface of both bridges. Quantity of this suspect material located on the bridge structures is unknown
10. Bituminous filler – located in front of bumper block to within 2-inches of the surface of both bridges. Quantity of this suspect material located on the bridge structures is unknown.
11. Construction Joints – located in abutments, retaining walls, nose and piers of both bridges. Quantity of this suspect material located on the bridge structures is unknown.
12. ½-inch Bituminous Preformed Joint Filler – located in abutments for drainage of both bridges. Quantity of this suspect material located on the bridge structures is unknown.
13. 1-inch Expansion Joint – located in abutments and end dam of both bridges. Quantity of this suspect material located on the bridge structures is unknown.
14. Poured Joint Sealer – associated with junction boxes at median of both bridges. Quantity of this suspect material located on the bridge structures is unknown.
15. 1-inch Preformed Expansion Joint Filler – located in piers of both bridges. Quantity of this suspect material located on the bridge structures is unknown.
16. ¼-inch Preformed Gray Sponge Rubber Expansion Joint Filler – located in parapet joints of both bridges. Quantity of this suspect material located on the bridge structures is unknown.

During the physical inspection of the two (2) bridges, HzW could not locate Items 1 - 15, above. Four (4) additional suspect ACMs were identified during the physical inspection. These suspect materials consisted of the following:

1. Epoxy Material underneath New Guard Rail Mounts – located on parapet walls of both bridges. HzW sampled this suspect material (Sample Nos. 01 and 02) and no asbestos was identified in the samples collected.
2. 3-inch Tar-Coated Cellulose Duct – located in parapet walls of both bridges. HzW samples this suspect material (Sample Nos. 03 and 04 and 07 and 08) and no asbestos was identified in the samples collected.
3. Expansion Material – located in parapet walls of both bridges. 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. 16, above.

4. Gasket Material underneath Old Guard Rail Mounts – located on parapet walls of both bridges. HzW sampled this suspect material (Sample Nos. 09 and 10) and from 3.1 to 3.4 percent asbestos was identified in the samples collected. Approximately 15 square feet of this asbestos-containing material was identified on the bridge structures.

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, the 9th Street Bridge's and the East 14th Street Bridge's suspect material quantities were divided among the three (3) bridges comprising the 9th Street Bridges or the two (2) bridges comprising the East 14th Street Bridges, due to the construction plans not indicating the specific locations for these materials.

   In addition, it should be noted that the construction plans indicated linear feet for building materials entitled joint filler, joint material, corrugated metal pipe, and sealing strip. EPA's Notification of Demolition and Renovation form only permits asbestos-containing pipe to be quantified in linear feet. Therefore, in order to report the quantities of joint filler, joint material, corrugated metal pipe and sealing strip properly on the notification form, HzW converted each quantity of these materials to a square footage quantity. This was performed by assuming a width of one (1) foot for each material. As a result, these square footage quantities could vary depending of the actual width of the materials on the bridge structures.

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 (JS)

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

Joan A. Sablar (JS)

Joan A. Sablar
Senior Industrial Hygienist

JAS:jas\js\H09004-07
Attachments
I:\HZW\2009\H09004-07\District12Bridges_11Bridges_Rpt.doc

ATTACHMENT 1

PHOTOGRAPHIC LOG

Photograph 01
View Looking East at the Top of the East Bound Lanes of the
Interstate 90 Bridge over East 14th Street (CUY-90-1651R)

Photograph 02
View Looking East at the Top of the West Bound Lanes of the
Interstate 90 Bridge over East 14th Street (CUY-90-1651L)

Photograph 03
View Looking West at the Underside of the West Bound Lanes of the
Interstate 90 Bridge over East 14th Street (CUY-90-1651L)

Photograph 04
View Looking West at the Underside of the East Bound Lanes of the
Interstate 90 Bridge over East 14th Street (CUY-90-1651R)

Photograph 05
View Looking East at the Underside of the West Bound Lanes of the
Interstate 90 Bridge over East 14th Street (CUY-90-1651L)

Photograph 06
View Looking East at the Underside of the East Bound Lanes of the
Interstate 90 Bridge over East 14th Street (CUY-90-1651R)

Photograph 07
View Looking West at the Top of the East Bound Lanes of the
Interstate 90 Bridge over East 14th Street (CUY-90-1651R)

Photograph 08
View Looking West at the Top of the West Bound Lanes of the
Interstate 90 Bridge over East 14th Street (CUY-90-1651L)

Photograph 09
View Looking East at the Top of the East Bound Lanes of the
Interstate 90 Bridge over Ramps E-10 and E-8 (CUY-90-1640)

Photograph 10
View Looking West at the Top of the East Bound Lanes of the
Interstate 90 Bridge over Ramps E-10 and E-8 (CUY-90-1640)

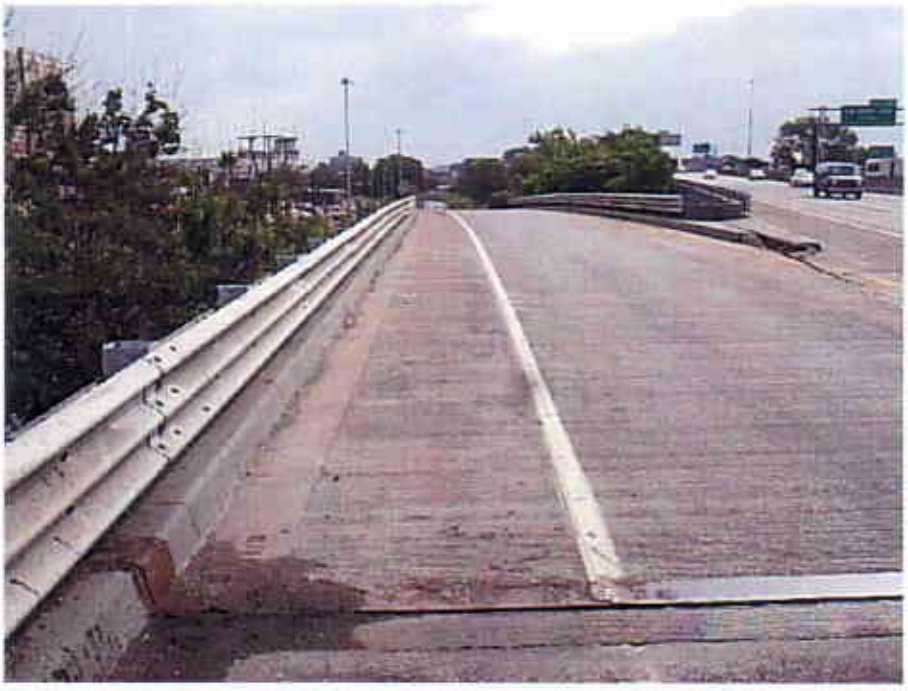
Photograph 11
View Looking East at the Underside of the East and West Bound Lanes of the Interstate 90 Bridge over Ramps E-10 and E-8 (CUY-90-1640)

Photograph 12
View Looking West at the Top of the West Bound Lanes of the Interstate 90 Bridge over Ramps E-10 and E-8 (CUY-90-1640)

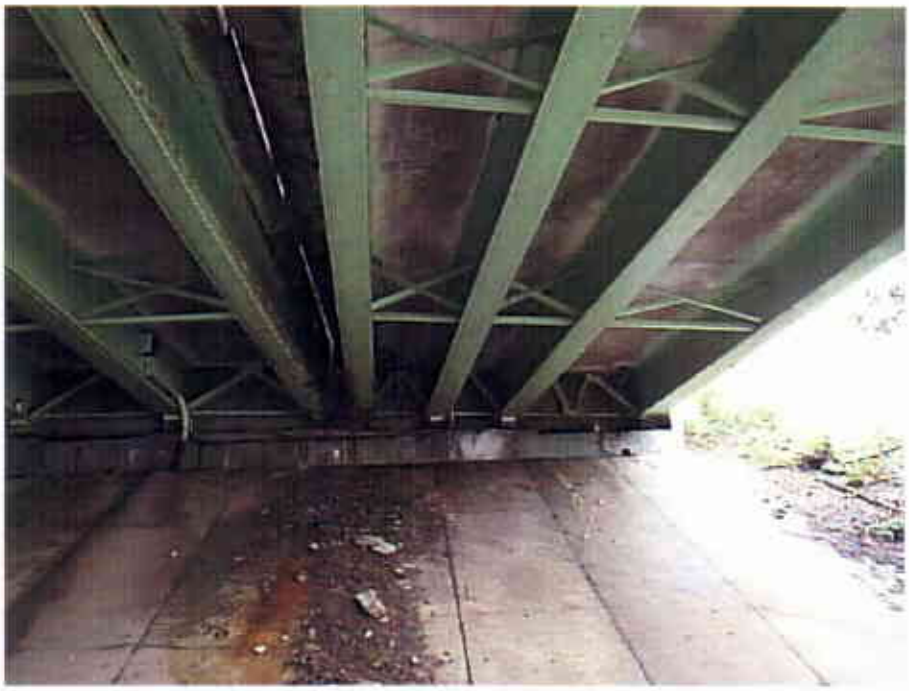
Photograph 13
View Looking East at the Top of the West Bound Lanes of the
Interstate 90 Bridge over Ramps E-10 and E-8 (CUY-90-1640)

Photograph 14
View Looking West at the Underside of the East and West Bound Lanes of the
Interstate 90 Bridge over Ramps E-10 and E-8 (CUY-90-1640)

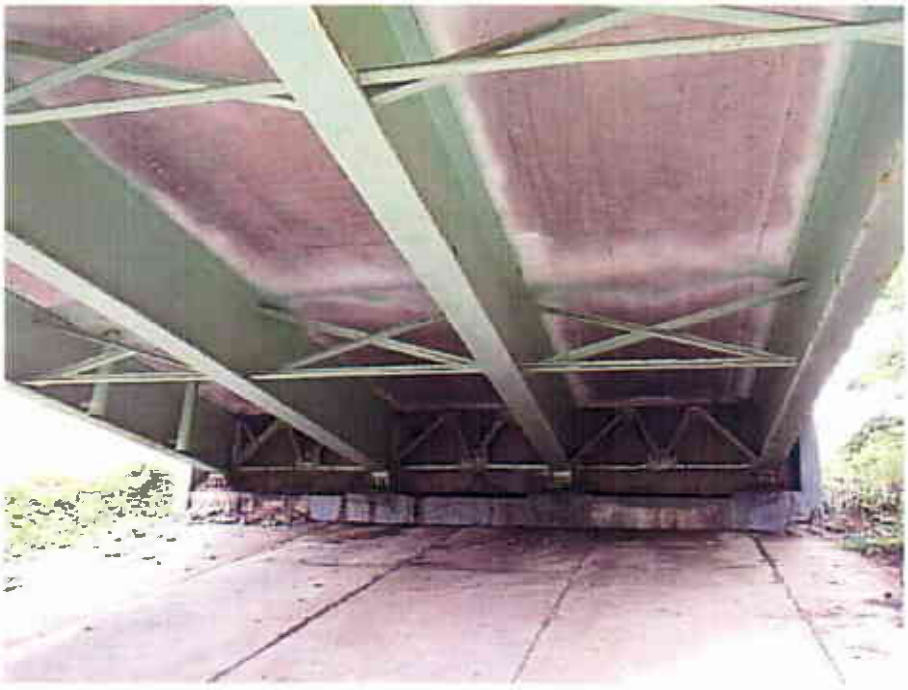
Photograph 15
View Looking West at the Top of the West Bound On Ramp of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628EW)



Photograph 16
View Looking East at the Top of the West Bound On Ramp of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628EW)



Photograph 17
View Looking West at the Underside of the West Bound On Ramp of the Interstate 90 Bridge over East 9th Street (CUY-90-1628EW)



Photograph 18
View Looking East at the Underside of the West Bound On Ramp of the Interstate 90 Bridge over East 9th Street (CUY-90-1628EW)

Photograph 19
View Looking West at the Top of the West Bound Lanes of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628L)

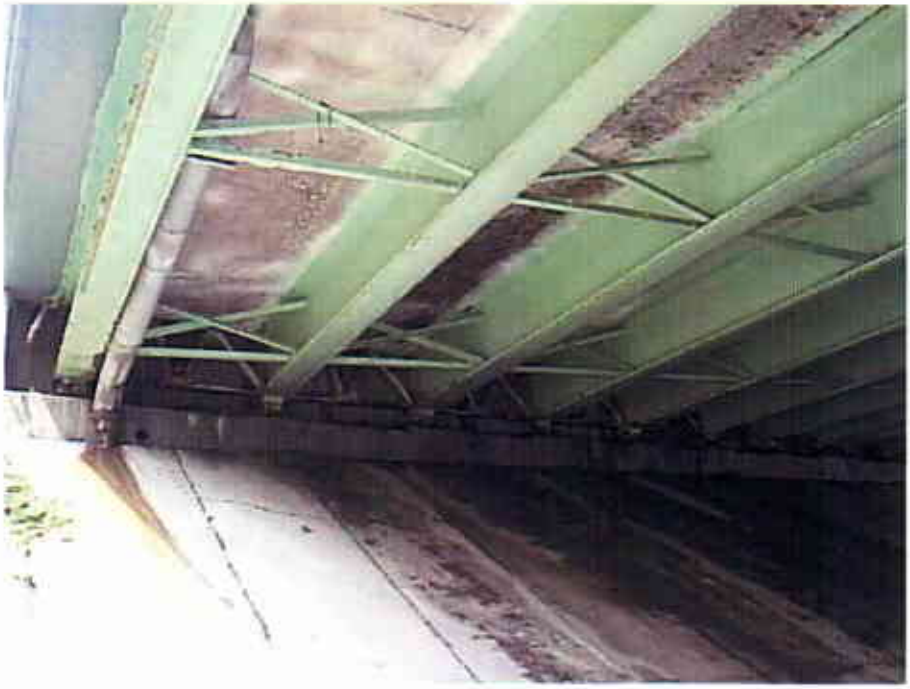
Photograph 20
View Looking West at the Underside of the West Bound Lanes of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628L)

Photograph 21
View Looking East at the Underside of the West Bound Lanes of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628L)

Photograph 22
View Looking East at the Underside of the East Bound Lanes of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628R)

Photograph 23
View Looking West at the Top of the East Bound Lanes of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628R)

Photograph 24
View Looking East at the Top of the East Bound Lanes of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628R)

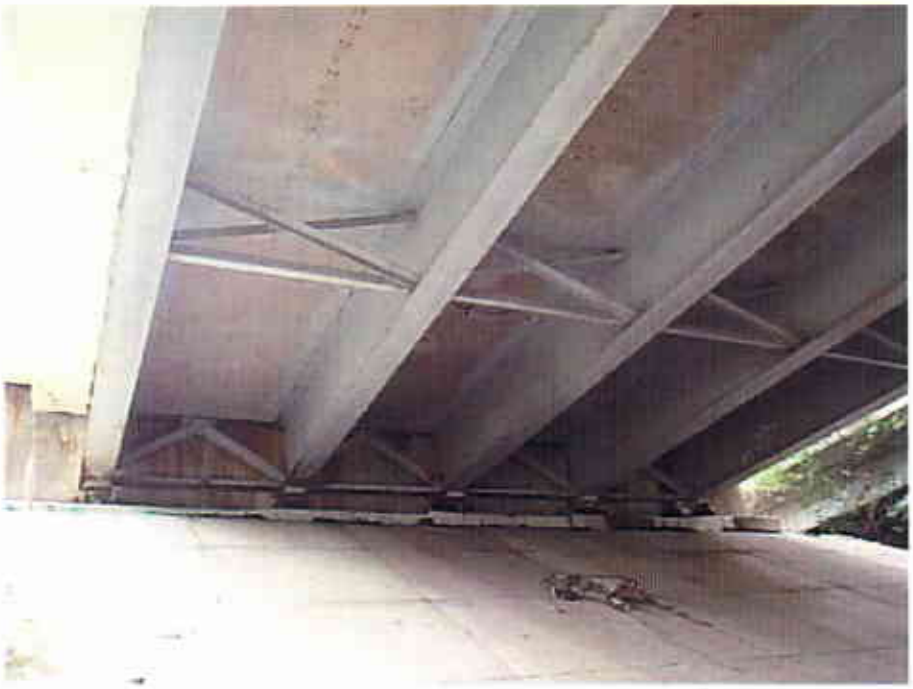


Photograph 25
View Looking West at the Underside of the East Bound Lanes of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628R)

Photograph 26
View Looking North at the Top of the West Bound Lanes of the
Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)

Photograph 27
View Looking South at the Underside of the East and West Bound Lanes of the Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)

Photograph 28
View Looking North at the Top of the East Bound Lanes of the Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)



Photograph 29
View Looking South at the Underside of the East Bound On Ramp Lane of the Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)

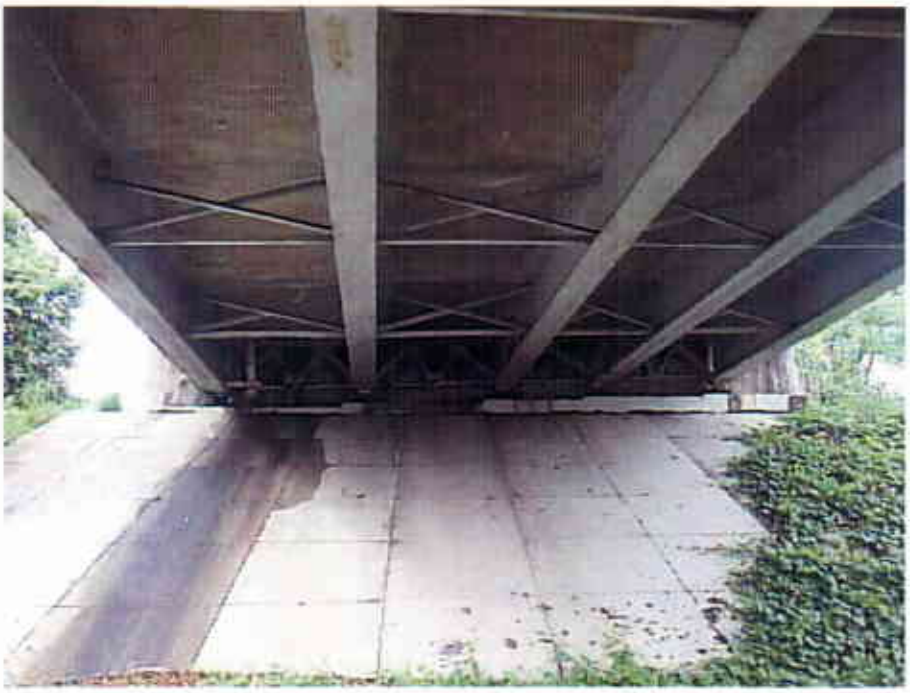
Photograph 30
View Looking West at the Underside of the East Bound Off Ramp Lane of the Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)

Photograph 31
View Looking West at the Underside of the East and West Bound Lanes of the Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)

Photograph 32
View Looking West at the Top of the East Bound Lanes of the Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)

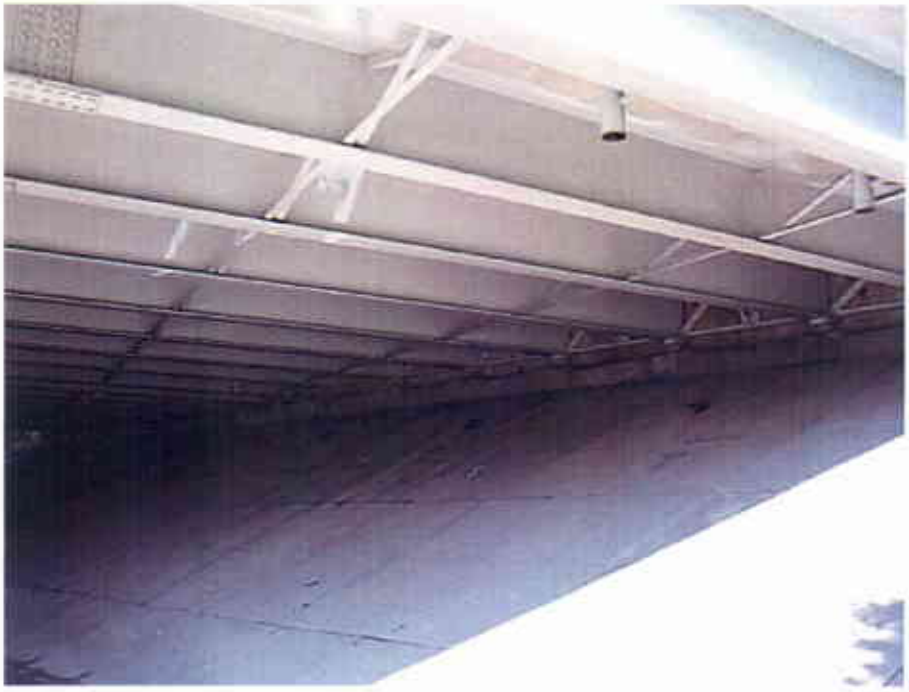
Photograph 33
View Looking West at the Top of the West Bound Lanes of the
Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)

Photograph 34
View Looking North at the Underside of the West Bound On Ramp Lane of the
Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)



Photograph 35
View Looking South at the Underside of the West Bound Off Ramp Lane of the Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)

Photograph 36
View Looking South at the Top of the East Bound Lanes of the Interstate 90 Bridge over Kenilworth Avenue (CUY-90-1506)



Photograph 37
View Looking North at the Underside of the East and West Bound Lanes of the Interstate 90 Bridge over Kenilworth Avenue (CUY-90-1506)

Photograph 38
View Looking South at the Top of the West Bound Lanes of the Interstate 90 Bridge over Kenilworth Avenue (CUY-90-1506)

Photograph 39
View Looking North at the Top of the West Bound Lanes of the
Interstate 90 Bridge over Kenilworth Avenue (CUY-90-1506)

Photograph 40
View Looking South at the Underside of the East and West Bound Lanes of the
Interstate 90 Bridge over Kenilworth Avenue (CUY-90-1506)

Photograph 41
View Looking North at the Top of the East Bound Lanes of the
Interstate 90 Bridge over Kenilworth Avenue (CUY-90-1506)

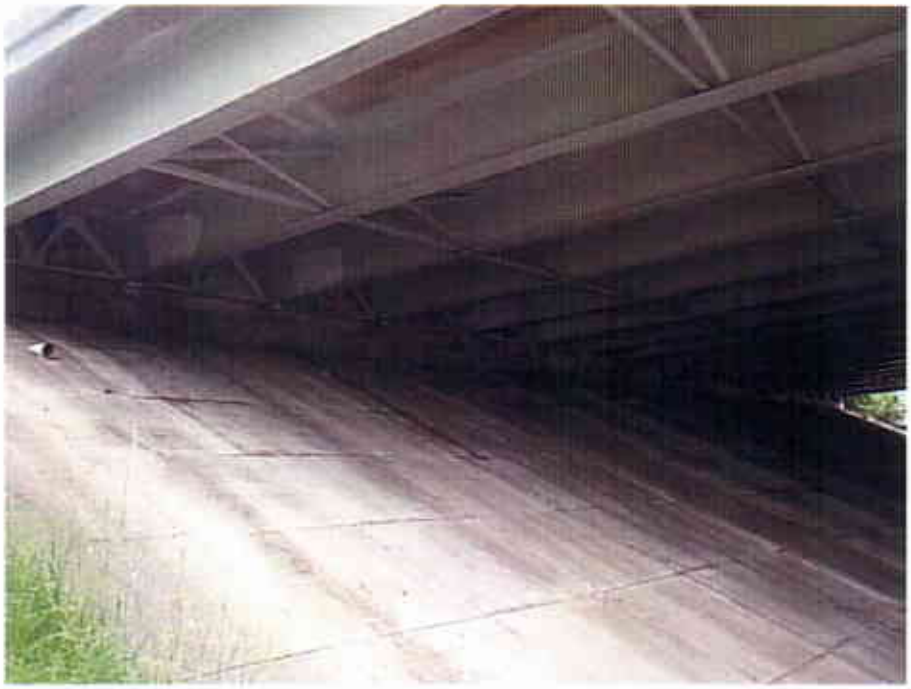
Photograph 42
View Looking North at the Top of the West Bound Lanes of the
Interstate 90 Bridge over Starkweather Avenue (CUY-90-1490L)

Photograph 43
View Looking South at the Top of the West Bound Lanes of the
Interstate 90 Bridge over Starkweather Avenue (CUY-90-1490L)

Photograph 44
View Looking North at the Underside of the East and West Bound Lanes of the
Interstate 90 Bridge over Starkweather Avenue (CUY-90-1490L)

Photograph 45
View Looking South at the Top of the East Bound Lanes of the
Interstate 90 Bridge over Starkweather Avenue (CUY-90-1490R)

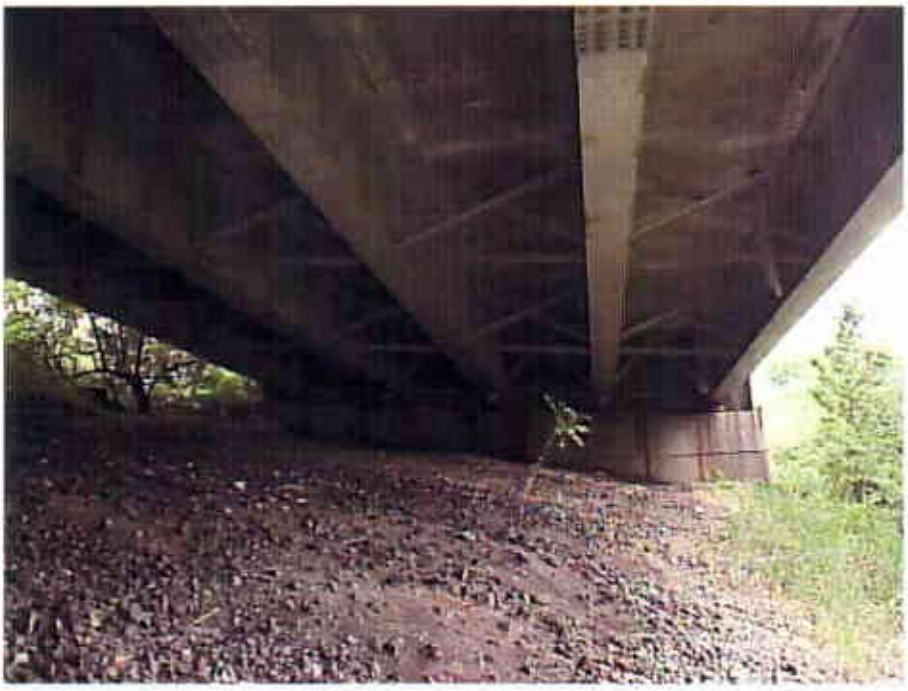
Photograph 46
View Looking North at the Top of the East Bound Lanes of the
Interstate 90 Bridge over Starkweather Avenue (CUY-90-1490R)



Photograph 47
View Looking South at the Underside of the East and West Bound Lanes of the Interstate 90 Bridge over Starkweather Avenue (CUY-90-1490R)

Photograph 48
View Looking South at the Top of the East Bound Lanes of the Interstate 90 Bridge Ramp WN under I-71 Mainline Bridge (CUY-90-1463R)

Photograph 49
View Looking North at the Underside of the East Bound Lanes of the
Interstate 90 Bridge Ramp WN under I-71 Mainline Bridge (CUY-90-1463R)



Photograph 50
View Looking West at the Underside of the East Bound Lanes of the
Interstate 90 Bridge Ramp WN under I-71 Mainline Bridge (CUY-90-1463R)

Photograph 51
View Looking Northwest at the Top of the East Bound Lanes of the
Interstate 90 Bridge Ramp WN under I-71 Mainline Bridge (CUY-90-1463R)

ATTACHMENT 2

LABORATORY ANALYTICAL REPORTS

IATL International Asbestos Testing Laboratories

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 OH 44060

Report Date: 6/12/2009
Project: CUY-90-1463R
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3640995 **Description / Location:** Grey Rubber Non Fibrous Expansion Material
Client No.: 01

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3640996 **Description / Location:** Grey Rubber Non Fibrous Expansion Material
Client No.: 02

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3640997 **Description / Location:** Brown Fibrous Expansion Material
Client No.: 03

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	99	Cellulose	1

Lab No.: 3640998 **Description / Location:** Brown Fibrous Expansion Material
Client No.: 04

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	99	Cellulose	1

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

Approved By: _____

Date: 6/12/2009

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

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 OH 44060

Report Date: 6/12/2009
Project: CUY-90-1463R
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3640999
Client No.: 05
Description / Location: Brown Fibrous Expansion Material

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	100	Cellulose	None Detected

Lab No.: 3641000
Client No.: 06
Description / Location: Brown Fibrous Expansion Material

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	100	Cellulose	None Detected

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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: 6/12/2009

International Asbestos Testing Laboratories
~~[illegible]~~ 9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449
Fax 856 231-9818

- Chain of Custody -

Client: H&W Environmental Consultants
6105 Heisley Rd.
Mentor, oh 44060

Project Name: CUY-90-1463 R
Project No.: H0 9004-07

Phone: 440-357-1260
FAX: 440-357-1510

Contact: Joan Sablar
Pager:

Special Instructions: PO# 5162-09

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[X] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400	[X] PLM : Bulk Asbestos EPA 600	[ ] TEM : AHERA
[ ] PCM : OSHA	[ ] PLM : Point Counting 198.1	[ ] TEM : NIOSH 7402
[ ] PCM : Other___	[ ] PLM : NOB via 198.1 (PLM only)	[ ] TEM : EPA Level II
	[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements **	[ ] TEM : Microvac / Wipe
[ ] AAS : NIOSH 7082 (Air)	(**call to confirm TAT!)	[ ] TEM : Asbestos in Water
[ ] AAS : Lead in Drinking Water		[ ] TEM : Bulk Analysis
[ ] AAS : Lead in Paint ASTM D3335-85a		[ ] TEM : NOB 198.4
[ ] AAS : Lead Dust/Wipe		[ ] TEM : Other___
[ ] AAS : Other Metals / Soil___		[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: ______ (date / time) **Verbals:** ______ (date / time)

[ ] 10 Day [ ] 5 Day [ ] 3 Day [ ] 2 Day [ ] 1 Day [ ] 6 hour [X] RUSH

Preliminary FAX/Verbal Results Requested by: ______

Sample Numbers:

Client #(s): 01 (start) - 06 (end) IATL#(s): ______ (start) - ______ (end) Total: ___

Chain of Custody:

		Date	Time
Relinquished:	[signature]	6/11/09	4pm
Received:			
Sample Log-in:	[signature]	JUN 1 2 2009	
Sample Prep:			
Analyzed:	[signature]	6/12/09	
QA/QC Review:			

RECEIVED ... BY

Archived/Released: ______ QA/QC InterLAB Use: ______ Date: ______ Time: ______

162

International Asbestos Testing Laboratories
16000 Horizon Way, Unit 100
Mt. Laurel, NJ 08054

Tel 856 231-9449
Fax 856 231-9818
info@iatl.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heisley Rd
Mentor, OH 44060
Phone: 440-357-1260
FAX: 440-357-1510

Project Name: CUY-90-1463R
Project No.: H09004-07
Contact: Jon Sabler
Analysis: Bulk PLM

Special Instructions:

Consultant Sample #	IATL Sample #	Color	Type	Location	Photo	Notes
01	3640995			Expansion Material - Rubber		
02	3640996			"		
03	3640997			Expansion Material - Fibrous		
04	3640998			"		
05	3640999			Expansion Material - Fibrous		
06	3641000			"		

Relinquished: jw	Date: 6/11/09	Time: 4pm
Received:	Date:	Time:
Sample Log-in:	Date:	Time:
Sample Prep:	Date:	Time:
Analyzed:	Date:	Time:
QA/QC Review:	Date:	Time:

Page 2 of 2

IATL International Asbestos Testing Laboratories

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 OH 44060

Report Date: 6/12/2009
Project: CUY-90-1490 L+R
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3640989
Client No.: 01
Description / Location: Brown Fibrous Expansion Material

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	95	Cellulose	5

Lab No.: 3640990
Client No.: 02
Description / Location: Brown Fibrous Expansion Material

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	95	Cellulose	5

Lab No.: 3640991
Client No.: 03
Description / Location: Lt. Grey Rubber Non Fibrous Expansion Material

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3640992
Client No.: 04
Description / Location: Lt. Grey Rubber Non Fibrous Expansion Material

% Asbestos	Type	% 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**

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

Approved By:

Date: 6/12/2009

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

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 OH 44060

Report Date: 6/12/2009
Project: CUY-90-1490 L+R
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3640993
Client No.: 05
Description / Location: Brown Fibrous Expansion Material

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	95	Cellulose	5

Lab No.: 3640994
Client No.: 06
Description / Location: Brown Fibrous Expansion Material

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	95	Cellulose	5

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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: 6/12/2009

International Asbestos Testing Laboratories
~~9000 Harter Parkway~~ 9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449
Fax 856 231-9818

- Chain of Custody -

Client: H&W Environmental Consultants
6105 Heisley Rd.
Mentor, Oh 44060

Project Name: CUY-90-1490 L&R
Project No.: H0.9004-07

Phone: 440-357-1260
FAX: 440-357-1510

Contact: Joan Sablar
Pager:

Special Instructions: PO# 5162-09

Type:

Asbestos			Lead			Other
[ ] Air	[ ] Soil		[ ] Air	[ ] Soil		
[X] Bulk	[ ] Dust		[ ] Bulk	[ ] Paint		
[ ] Water	[ ] Other		[ ] Water	[ ] Other		

Analysis Method:

[ ] PCM : NIOSH 7400	[X] PLM : Bulk Asbestos EPA 600	[ ] TEM : AHERA
[ ] PCM : OSHA	[ ] PLM : Point Counting 198.1	[ ] TEM : NIOSH 7402
[ ] PCM : Other	[ ] PLM : NOB via 198.1 (PLM only)	[ ] TEM : EPA Level II
[ ] AAS : NIOSH 7082 (Air)	[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements **	[ ] TEM : Microvac / Wipe
[ ] AAS : Lead in Drinking Water	(**call to confirm TAT!)	[ ] TEM : Asbestos in Water
[ ] AAS : Lead in Paint ASTM D3335-85a		[ ] TEM : Bulk Analysis
[ ] AAS : Lead Dust/Wipe		[ ] TEM : NOB 198.4
[ ] AAS : Other Metals / Soil		[ ] TEM : Other
		[ ] Total Dust : NIOSH 0500

Turnaround Time: FAX: _____ (date / time) Verbals: _____ (date / time)

[ ] 10 Day [ ] 5 Day [ ] 3 Day [ ] 2 Day [ ] 1 Day [ ] 6 hour [X] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers: Client #(s): 01 (start) - 06 (end) IATL#(s): _____ (start) - _____ (end) Total: _____

Chain of Custody:

Relinquished: _____
Received: _____
Sample Log-in: _____
Sample Prep: _____
Analyzed: _____
QA/QC Review: _____

Date: 6-11-09 Time: _____
Date: _____ Time: _____
Date: _____ Time: _____
Date: _____ Time: _____
Date: _____ Time: _____
Date: _____ Time: _____

RECEIVED JUN 12 2009

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

1 of 2

International Asbestos Testing Laboratories
16000 Horizon Way, Unit 100
Mt. Laurel, NJ 08054

Tel 856 231-9449
Fax 856 231-9818
info@iatl.com

Bulk Material Sampling Log

Client: HzW Environmental Consultants LLC
6105 Heisley Rd
Mentor, OH 44060
Phone: 440-357-1260
FAX: 440-357-1260

Project Name: CUY-90-1490 L/R
Project No.: H0 9004-07
Contact: Joan Sablar
Analysis: Bulk PLM

Special Instructions:

Consultant Sample #	IATL Sample #	Color	Type	Location	Friable	Notes
01	1640989			Expansion Material - Fibrous		
02	1640990			"		
03	1640991			Expansion Material - Rubbery		
04	1640992			"		
05	1640993			Expansion Material - Fibrous		
06	1640994			"		

		Date	Time
Relinquished:	[signature]	6-11-09	4 pm
Received:			
Sample Log-in:			
Sample Prep:			
Analyzed:			
QA/QC Review:			

Page 2 of 2

IATL International Asbestos Testing Laboratories

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 OH 44060

Report Date: 6/4/2009
Project: CUY-90-1506
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628392 **Description / Location:** Grey Gasket
Client No.: 01

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628393 **Description / Location:** Grey Gasket
Client No.: 02

% Asbestos	Type	% 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**

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. Faulseit

Approved By:

Date: 6/3/2009

Frank E. Ehrenfeld, III
Laboratory Director

International Asbestos Testing Laboratories
~~9000 Commerce Parkway~~ 9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449
Fax 856 231-9818

- Chain of Custody -

Client: H2W Environmental Consultants
6105 Heisley Rd.
Mentor, Oh. 44060

Project Name: CUY-90-1506
Project No.: H09004-07

Phone: 440-357-1260
FAX: 440-357-1510

Contact: Joan Sablar
Pager:

Special Instructions: po# 5149-09

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[X] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400	[X] PLM : Bulk Asbestos EPA 600	[ ] TEM : AHERA
[ ] PCM : OSHA	[ ] PLM : Point Counting 198.1	[ ] TEM : NIOSH 7402
[ ] PCM : Other_____	[ ] PLM : NOB via 198.1 (PLM only)	[ ] TEM : EPA Level II
	[ ] If <1% by PLM, to TEM via 198.4	[ ] TEM : Microvac / Wipe
[ ] AAS : NIOSH 7082 (Air)	to meet NYSDOH requirements**	[ ] TEM : Asbestos in Water
[ ] AAS : Lead in Drinking Water	(**call to confirm TAT!)	[ ] TEM : Bulk Analysis
[ ] AAS : Lead in Paint ASTM D3335-85a		[ ] TEM : NOB 198.4
[ ] AAS : Lead Dust/Wipe		[ ] TEM : Other_____
[ ] AAS : Other Metals / Soil_____		[ ] Total Dust : NIOSH 0500

Turnaround Time: **FAX:** _____ (date / time) **Verbals:** _____ (date / time)

[ ] 10 Day [ ] 5 Day [ ] 3 Day [ ] 2 Day [ ] 1 Day [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers: Client #(s): 01 (start) - 02 (end) IATL#(s): _____ (start) - _____ (end) Total: _____

6 1/2 19

Chain of Custody:

Relinquished:		Date: 5-29-09	Time: 4pm
Received:		Date:	Time:
Sample Log-in:	AS 6/1	Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:		Date:	Time:
QA/QC Review:		Date:	Time:

JUN - 1 2009

IATL

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

[9 2

International Asbestos Testing Laboratories
16000 Horizon Way, Unit 100
Mt. Laurel, NJ 08054

Tel 856 231-9449
Fax 856 231-9818
info@iatl.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heisley Rd
Mentor, OH 44060
Phone: 440-357-1580
FAX: 440-357-1510

Project Name: CUY-90-1506
Project No.: H09004-07
Contact: Joan Sabler
Analysis: Bulk PLM

Special Instructions:

Consecutive Samples	Client Sample #	Cond.	Type	Location	Homog.	Date
01	3628392			Gasket Material		
02	3628393			"		

Relinquished: [signature] Date: 5-29-09 Time: 4pm
Received: Date: Time:
Sample Log-in: Date: Time:
Sample Prep: Date: Time:
Analyzed: Date: Time:
QA/QC Review: Date: Time:

Page 2 of 2

IATL International Asbestos Testing Laboratories

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 OH 44060

Report Date: 6/4/2009
Project: CUY-90-1524
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628455 **Description / Location:** Grey Caulk
Client No.: 01

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628456 **Description / Location:** Grey Caulk
Client No.: 02

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628457 **Description / Location:** Grey Caulk
Client No.: 03

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628458 **Description / Location:** Grey Caulk
Client No.: 04

% Asbestos	Type	% 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**

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: B. Faulseit

Approved By:

Date: 6/3/2009

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

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 OH 44060

Report Date: 6/4/2009
Project: CUY-90-1524
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628459 **Description / Location:** White/Brown Non Fibrous
Client No.: 05

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628460 **Description / Location:** White/Brown Non Fibrous
Client No.: 06

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628461 **Description / Location:** Brown Transite
Client No.: 07

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
30	Chrysotile	None Detected	None Detected	PC 67.5
2.5	Crocidolite			

Lab No.: 3628462 **Description / Location:** Brown Transite
Client No.: 08

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
40	Chrysotile	None Detected	None Detected	PC 58.5
1.5	Crocidolite			

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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: B. Faulseit

Date: 6/3/2009

IATL International Asbestos Testing Laboratories

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/4/2009
Project: CUY-90-1524
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628463 **Description / Location:** Brown Tar Paper
Client No.: 09

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Cellulose	50

Lab No.: 3628464 **Description / Location:** Brown Tar Paper
Client No.: 10

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Cellulose	50

Lab No.: 3628465 **Description / Location:** Tan Transite
Client No.: 11

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
40	Chrysotile	None Detected	None Detected	PC 56.9
3.1	Crocidolite			

Lab No.: 3628466 **Description / Location:** Tan Transite
Client No.: 12

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
40	Chrysotile	None Detected	None Detected	PC 57.5
2.5	Crocidolite			

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Gravified 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: B. Faulseit

Date: 6/3/2009

IATL International Asbestos Testing Laboratories

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 OH 44060

Report Date: 6/4/2009
Project: CUY-90-1524
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628467 **Description / Location:** Brown Tar Paper
Client No.: 13

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Cellulose	50

Lab No.: 3628468 **Description / Location:** Brown Tar Paper
Client No.: 14

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Cellulose	50

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: B. Faulseit

Date: 6/3/2009

International Asbestos Testing Laboratories
~~9000 Commerce Parkway~~ 9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054
Tel. 856 231-9449
Fax 856 231-9818

Chain of Custody -

Client: H2W Environmental Consultants
6105 Heisley Rd.
Mentor, Oh. 44060

Project Name: CU4-90-1524
Project No.: H09004-07

Phone: 440-357-1260
FAX: 440-357-1510

Contact: Joan Sablar
Pager:

Special Instructions: po# 5149-09

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[X] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

- [ ] PCM : NIOSH 7400
- [ ] PCM : OSHA
- [ ] PCM : Other
- [ ] AAS : NIOSH 7082 (Air)
- [ ] AAS : Lead in Drinking Water
- [ ] AAS : Lead in Paint ASTM D3335-85a
- [ ] AAS : Lead Dust/Wipe
- [ ] AAS : Other Metals / Soil
- [X] PLM : Bulk Asbestos EPA 600
- [ ] PLM : Point Counting 198.1
- [ ] PLM : NOB via 198.1 (PLM only)
- [ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements ** (**call to confirm TAT!)
- [ ] TEM : AHERA
- [ ] TEM : NIOSH 7402
- [ ] TEM : EPA Level II
- [ ] TEM : Microvac / Wipe
- [ ] TEM : Asbestos in Water
- [ ] TEM : Bulk Analysis
- [ ] TEM : NOB 198.4
- [ ] TEM : Other
- [ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ (date / time) **Verbals:** _____ (date / time)

[ ] 10 Day [ ] 5 Day [X] 3 Day [ ] 2 Day [ ] 1 Day [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by:

Sample Numbers:

Client #(s): 01 (start) - 14 (end)

IATL#(s): _____ (start) - _____ (end) Total: B

6/2/9

Chain of Custody:

Relinquished:
Received:
Sample Log-in: 05 6/1
Sample Prep:
Analyzed:
QA/QC Review:

Date: 5-29-09 Time: 1400
Date: Time:
Date: Time:
Date: Time:
Date: Time:
Date: Time:

RECEIVED JUN 2009 IATL - EM

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

1 of 3

International Asbestos Testing Laboratories
16000 Horizon Way, Unit 100
Mt. Laurel, NJ 08054

Tel 856 231-9449
Fax 856 231-9818
info@iatl.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heisley Rd
Mentor, OH 44060
Phone: 440-357-1860
FAX: 440-357-1910

Project Name: CUY-90-1524
Project No.: H09004-07
Contact: Jean Sabler
Analysis: Bulk PLM

Special Instructions:

Customer Sample #	Lab Sample #	Color	Type	Non-Asbestos	Homogeneous	Friable	Non-Friable
01	3628455		Epoxy Material				
02	3628456		"				
03	3628457		Epoxy material				
04	3628458		"				
05	3628459		Gasket Material				
06	3628460		"				
07	3628461		Conduit material				
08	3628462		"				
09	3628463		Tar Cellulose Material				
10	3628464		"				

Relinquished:		Date: 5-29-09	Time: 4 pm
Received:		Date:	Time:
Sample Log-in:		Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:		Date:	Time:
QA/QC Review:		Date:	Time:

Page 2 of 3

6/3/09

International Asbestos Testing Laboratories
16000 Horizon Way, Unit 100
Mt. Laurel, NJ 08054

Tel 856 231-9449
Fax 856 231-9818
info@iatl.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heisley Rd
Mentor, OH 44060
Phone: 440-357-1960
FAX: 440-357-1910

Project Name: CLY-90-1524
Project No.: H09004-07
Contact: Joe Sabler
Analysis: Bulk PLM

Special Instructions:

Consultant Sample #	IATL Sample #	Color	Type	Description	Homogeneous	Friable	Notes
11	3628465			Conduit Material			
12	3628466			"			
13	3628467			Gasket Material			
14	3628468			"			

Relinquished: JW Date: 5-29-09 Time: 4 pm
Received: Date: Time:
Sample Log-in: Date: Time:
Sample Prep: Date: Time:
Analyzed: Date: Time:
QA/QC Review: Date: Time:

10/2/10

Page 3 of 3

IATL International Asbestos Testing Laboratories

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 OH 44060

Report Date: 6/4/2009
Project: CUY-90-1628EW
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628432 **Description / Location:** Tan Caulk
Client No.: 01

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628433 **Description / Location:** Tan Caulk
Client No.: 02

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628434 **Description / Location:** Brown Tar Paper
Client No.: 03

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	60

Lab No.: 3628435 **Description / Location:** Brown Tar Paper
Client No.: 04

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	60

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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: B. Faulseit

Approved By:

Date: 6/3/2009

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

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 OH 44060

Report Date: 6/4/2009
Project: CUY-90-1628EW
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628436 **Description / Location:** Tan Gasket
Client No.: 05

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628437 **Description / Location:** Tan Gasket
Client No.: 06

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628438 **Description / Location:** Grey Gasket
Client No.: 07

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.1	Chrysotile	3	Other	PC 94.9

Lab No.: 3628439 **Description / Location:** Grey Gasket
Client No.: 08

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.5	Chrysotile	3	Other	PC 94.5

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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: B. Faulseit

Date: 6/3/2009

IATL International Asbestos Testing Laboratories

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/4/2009
Project: CUY-90-1628EW
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628440 **Description / Location:** Tan Gasket
Client No.: 08

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628441 **Description / Location:** Tan Gasket
Client No.: 10

% Asbestos	Type	% 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**

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: B. Faulseit

Date: 6/3/2009

International Asbestos Testing Laboratories
~~[illegible]~~ 9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449
Fax 856 231-9818

Chain of Custody

Client: HzW Environmental Consultants
6105 Heisley Rd.
Mentor, Oh 44060

Project Name: CUY-90 - 1628EW
Project No.: H09004-07

Phone: 440-357-1260
FAX: 440-357-1510

Contact: Joan Sablar
Pager:

Special Instructions: PO# 5149-09

Type:

Asbestos			Lead			Other
[ ] Air	[ ] Soil		[ ] Air	[ ] Soil		
[X] Bulk	[ ] Dust		[ ] Bulk	[ ] Paint		
[ ] Water	[ ] Other		[ ] Water	[ ] Other		

Analysis Method:

[ ] PCM : NIOSH 7400	[X] PLM : Bulk Asbestos EPA 600	[ ] TEM : AHERA
[ ] PCM : OSHA	[ ] PLM : Point Counting 198.1	[ ] TEM : NIOSH 7402
[ ] PCM : Other_____	[ ] PLM : NOB via 198.1 (PLM only)	[ ] TEM : EPA Level-II
[ ] AAS : NIOSH 7082 (Air)	[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements **	[ ] TEM : Microvac / Wipe
[ ] AAS : Lead in Drinking Water	(**call to confirm TAT!)	[ ] TEM : Asbestos in Water
[ ] AAS : Lead in Paint ASTM D3335-85a		[ ] TEM : Bulk Analysis
[ ] AAS : Lead Dust/Wipe		[ ] TEM : NOB 198.4
[ ] AAS : Other Metals / Soil_____		[ ] TEM : Other_____
		[ ] Total Dust : NIOSH 0500

Turnaround Time: FAX: _____ (date / time) Verbals: _____ (date / time)

[ ] 10 Day [ ] 5 Day [X] 3 Day [ ] 2 Day [ ] 1 Day [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers: Client #(s): 01 (start) - 10 (end) IATL#(s): _____ (start) - _____ (end) Total: _____

Chain of Custody:

Relinquished: JW Date: 5-29-09 Time: 4pm
Received: _____ Date: _____ Time: _____
Sample Log-in: AS 6/1 Date: _____ Time: _____
Sample Prep: _____ Date: _____ Time: _____
Analyzed: _____ Date: _____ Time: _____
QA/QC Review: _____ Date: _____ Time: _____

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Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

1 of 2

International Asbestos Testing Laboratories
16000 Horizon Way, Unit 100
Mt. Laurel, NJ 08054

Tel 856 231-9449
Fax 856 231-9818
info@iatl.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heisley Rd
Mentor, OH 44060
Phone: 440-357-1860
FAX: 440-357-1510

Project Name: CUY-90-16.28EW
Project No.: H0 9004-07
Contact: Jon Sabler
Analysis: Bulk PLM

Special Instructions:

Consultant Sample #	IATL Sample #	Color	Type	Location	Photo	Notes
01	3628432			Epoxy Material		
02	3628433			"		
03	3628434			Tar-Cellulose material		
04	3628435			"		
05	3628436			Gasket Material		
06	3628437			"		
07	3628438			Gasket Material		
08	3628439			"		
09	3628440			Thick Gasket material		
10	3628441					

Relinquished: JW	Date: 5-29-09	Time: 4 pm
Received:	Date:	Time:
Sample Log-in:	Date:	Time:
Sample Prep:	Date:	Time:
Analyzed:	Date:	Time:
QA/QC Review:	Date:	Time:

Page 2 of 2

IATL International Asbestos Testing Laboratories

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 OH 44060

Report Date: 6/4/2009
Project: CUY-90-1628L
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628415 **Description / Location:** Tan Non Fibrous
Client No.: 01

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628416 **Description / Location:** Tan Non Fibrous
Client No.: 02

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628417 **Description / Location:** Black Tar Paper
Client No.: 03

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Cellulose	50

Lab No.: 3628418 **Description / Location:** Black Tar Paper
Client No.: 04

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Cellulose	50

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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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: B. Faulseit

Approved By:

Date: 6/3/2009

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

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 OH 44060

Report Date: 6/4/2009
Project: CUY-90-1628L
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628419 **Description / Location:** Tan Gasket
Client No.: 05

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.1	Chrysotile	2	Other	PC 95.9

Lab No.: 3628420 **Description / Location:** Tan Gasket
Client No.: 06

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628421 **Description / Location:** Tan Gasket
Client No.: 07

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628422 **Description / Location:** Tan Gasket
Client No.: 08

% Asbestos	Type	% 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**

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: B. Faulseit

Date: 6/3/2009

International Asbestos Testing Laboratories
~~9000 Commerce Parkway~~ 9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449
Fax 856 231-9818

- Chain of Custody -

Client: H2W Environmental Consultants
6105 Heisley Rd.
Mentor, OH 44060

Project Name: CUY90-1628 L
Project No.: H09004-07

Phone: 440-357-1260
FAX: 440-357-1510

Contact: Joan Sablar
Pager:

Special Instructions: PO# S149-09

Type:

Asbestos				Lead				Other
[ ]	Air	[ ]	Soil	[ ]	Air	[ ]	Soil	
[X]	Bulk	[ ]	Dust	[ ]	Bulk	[ ]	Paint	
[ ]	Water	[ ]	Other	[ ]	Water	[ ]	Other	

Analysis Method:

[ ]	PCM : NIOSH 7400	[X]	PLM : Bulk Asbestos EPA 600	[ ]	TEM : AHERA
[ ]	PCM : OSHA	[ ]	PLM : Point Counting 198.1	[ ]	TEM : NIOSH 7402
[ ]	PCM : Other	[ ]	PLM : NOB via 198.1 (PLM only)	[ ]	TEM : EPA Level II
		[ ]	If <1% by PLM, to TEM via 198.4	[ ]	TEM : Microvac / Wipe
[ ]	AAS : NIOSH 7082 (Air)		to meet NYSDOH requirements**	[ ]	TEM : Asbestos in Water
[ ]	AAS : Lead in Drinking Water		(**call to confirm TAT!)	[ ]	TEM : Bulk Analysis
[ ]	AAS : Lead in Paint ASTM D3335-85a			[ ]	TEM : NOB 198.4
[ ]	AAS : Lead Dust/Wipe			[ ]	TEM : Other
[ ]	AAS : Other Metals / Soil			[ ]	Total Dust : NIOSH 0500

Turnaround Time: **FAX:** _____ (date / time) **Verbals:** _____ (date / time)

[ ] 10 Day [ ] 5 Day [X] 3 Day [ ] 2 Day [ ] 1 Day [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers: Client #(s): 01 (start) - 08 (end) IATL#(s): _____ (start) - _____ (end) Total: 8

Chain of Custody:

Relinquished: _____ Date: 5-28-09 Time: 4
Received: _____ Date: _____ Time: _____
Sample Log-In: AK 6/1 Date: _____ Time: _____
Sample Prep: _____ Date: _____ Time: _____
Analyzed: _____ Date: _____ Time: _____
QA/QC Review: _____ Date: _____ Time: _____

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

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International Asbestos Testing Laboratories
16000 Horizon Way, Unit 100
Mt. Laurel, NJ 08054

Tel 856 231-9449
Fax 856 231-9818
info@iatl.com

Bulk Material Sampling Log

Client: HzW Environmental Consultants LLC
6105 Heisley Rd
Mentor, OH 44060
Phone: 440-352-1960
FAX: 440-357-1910

Project Name: CUY-90-16284
Project No.: H09004-07
Contact: Joan Sabler
Analysis: Bulk PLM

Special Instructions:

Consultant Sample #	Lab Sample #	Color	Type	Location	Friable	Notes
01	3628415			Epoxy Material		
02	3628416			"		
03	3628417			Tar cellulose material		
04	3628418			"		
05	3628419			Gasket Material		
06	3628420			"		
07	3628421			Gasket material		
08	3628422			"		

Relinquished: jw Date: 5-29-09 Time: 4 pm
Received: Date: Time:
Sample Log-in: Date: Time:
Sample Prep: Date: Time:
Analyzed: Date: Time:
QA/QC Review: Date: Time:

Page 2 of 2

IATL International Asbestos Testing Laboratories

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 OH 44060

Report Date: 6/4/2009
Project: CUY-90-1628R
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628407 **Description / Location:** Tan Non Fibrous
Client No.: 01

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628408 **Description / Location:** Tan Non Fibrous
Client No.: 02

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628409 **Description / Location:** Brown Tar Paper
Client No.: 03

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Cellulose	50

Lab No.: 3628410 **Description / Location:** Brown Tar Paper
Client No.: 04

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Cellulose	50

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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: B. Faulscit

Approved By:

Date: 6/3/2009

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

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 OH 44060

Report Date: 6/4/2009
Project: CUY-90-1628R
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628411 **Description / Location:** Brown Gasket
Client No.: 05

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628412 **Description / Location:** Brown Gasket
Client No.: 06

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3628413 **Description / Location:** Grey Gasket
Client No.: 07

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.5	Chrysotile	3	Other	PC 94.5

Lab No.: 3628414 **Description / Location:** Grey Gasket
Client No.: 08

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.1	Chrysotile	3	Other	PC 94.9

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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: B. Faulseit

Date: 6/3/2009

International Asbestos Testing Laboratories
~~9000 Commerce Parkway~~ 9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449
Fax 856 231-9818

- Chain of Custody -

Client: HzW Environmental Consultants
6105 Heisley Rd.
Mentor, OH 44060

Project Name: CUY-90-1628R
Project No.: H09004-07

Phone: 440-357-1260
FAX: 440-357-1510

Contact: Joan Sablar
Pager:

Special Instructions: PO# 5149-09

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[X] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400	[X] PLM : Bulk Asbestos EPA 600	[ ] TEM : AHERA
[ ] PCM : OSHA	[ ] PLM : Point Counting 198.1	[ ] TEM : NIOSH 7402
[ ] PCM : Other_____	[ ] PLM : NOB via 198.1 (PLM only)	[ ] TEM : EPA Level II
	[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements **	[ ] TEM : Microvac / Wipe
[ ] ~~AAS : NIOSH 7082 (Air)~~		[ ] TEM : Asbestos in Water
[ ] AAS : Lead in Drinking Water	(**call to confirm TAT!)	[ ] TEM : Bulk Analysis
[ ] AAS : Lead in Paint ASTM D3335-85a		[ ] TEM : NOB 198.4
[ ] AAS : Lead Dust/Wipe		[ ] TEM : Other_____
[ ] AAS : Other Metals / Soil_____		[ ] Total Dust : NIOSH 0500

Turnaround Time: **FAX:** _____ (date / time) **Verbals:** _____ (date / time)

[ ] 10 Day [ ] 5 Day [X] 3 Day [ ] 2 Day [ ] 1 Day [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers: Client #(s): 01 (start) - 08 (end) IATL#(s): _____ (start) - _____ (end) Total: 8

Chain of Custody:

Relinquished:		Date: 5-29-09	Time: 4pm
Received:		Date:	Time:
Sample Log-in:	08 6/1	Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:		Date:	Time:
QA/QC Review:		Date:	Time:

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

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International Asbestos Testing Laboratories
16000 Horizon Way, Unit 100
Mt. Laurel, NJ 08054

Tel 856 231-9449
Fax 856 231-9818
info@iatl.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heisley Rd
Mentor, OH 44060
Phone: 440-357-1816
FAX: 440-357-1510

Project Name: CUY-90-1628R
Project No.: H09004-07
Contact: Jon Sablar
Analysis: Bulk PLM

Special Instructions:

Consultant Sample #	IATL Sample #	Color	Layer	Location	Photo	Notes
01	3628407			Epoxy Material		
02	3628408			"		
03	3628409			Tar Cellulose Material		
04	3628410			"		
05	3628411			Gasket Material		
06	3628412			"		
07	3628413			Gasket Material		
08	3628414			"		10

6/12/9

Relinquished:	[signature]	Date: 5-29-09	Time: 4pm
Received:		Date:	Time:
Sample Log-in:		Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:		Date:	Time:
QA/QC Review:		Date:	Time:

Page 2 of 2

IATL International Asbestos Testing Laboratories
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 OH 44060

Report Date: 6/2/2009
Project: CUY-90-1640
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3625285 **Description / Location:** Tan Non Fibrous
Client No.: 01

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3625286 **Description / Location:** Tan Non Fibrous
Client No.: 02

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3625287 **Description / Location:** Black/Grey Fibrous
Client No.: 03

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	70

Lab No.: 3625288 **Description / Location:** Black/Grey Fibrous
Client No.: 04

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	70

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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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

Approved By:

Date: 6/2/2009

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories
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 OH 44060

Report Date: 6/2/2009
Project: CUY-90-1640
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3625289
Client No.: 05
Description / Location: Tan Non Fibrous Expansion Joint

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3625290
Client No.: 06
Description / Location: Tan Non Fibrous Expansion Joint

% Asbestos	Type	% 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**

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: 6/2/2009

IATL International Asbestos Testing Laboratories

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 OH 44060

Report Date: 6/12/2009
Project: CUY-90-1640
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3641001
Client No.: 07
Description / Location: Grey Gasket Under Old Railings

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.9	Chrysotile	None Detected	None Detected	PC 96.1

Lab No.: 3641002
Client No.: 08
Description / Location: Grey Gasket Under Old Railings

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.7	Chrysotile	None Detected	None Detected	PC 96.3

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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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: L. Solebello

Approved By:

Date: 6/12/2009

Frank E. Ehrenfeld, III
Laboratory Director

International Asbestos Testing Laboratories
~~[illegible]~~ 9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449
Fax 856 231-9818

- Chain of Custody -

Client: HzW Environmental Consultants
6105 Heisley Rd.
Mentor, Oh 44060

Project Name: CUY-90-1640
Project No.: H09004-07

Phone: 440-357-1260
FAX: 440-357-1510

Contact: Joan Sablar
Pager:

Special Instructions: po# 5149-09

Type:

Asbestos			Lead			Other
[ ] Air	[ ] Soil		[ ] Air	[ ] Soil		
[X] Bulk	[ ] Dust		[ ] Bulk	[ ] Paint		
[ ] Water	[ ] Other		[ ] Water	[ ] Other		

Analysis Method:

[ ] PCM : NIOSH 7400	[X] PLM : Bulk Asbestos EPA 600	[ ] TEM : AHERA
[ ] PCM : OSHA	[ ] PLM : Point Counting 198.1	[ ] TEM : NIOSH 7402
[ ] PCM : Other_____	[ ] PLM : NOB via 198.1 (PLM only)	[ ] TEM : EPA Level II
	[ ] If <1% by PLM, to TEM via 198.4	[ ] TEM : Microvac / Wipe
[ ] AAS : NIOSH 7082 (Air)	to meet NYSDOH requirements**	[ ] TEM : Asbestos in Water
[ ] AAS : Lead in Drinking Water	(**call to confirm TAT!)	[ ] TEM : Bulk Analysis
[ ] AAS : Lead in Paint ASTM D3335-85a		[ ] TEM : NOB 198.4
[ ] AAS : Lead Dust/Wipe		[ ] TEM : Other_____
[ ] AAS : Other Metals / Soil_____		[ ] Total Dust : NIOSH 0500

Turnaround Time: **FAX:**_____ (date / time) **Verbals:**_____ (date / time)

[ ] 10 Day [ ] 5 Day [X] 3 Day [ ] 2 Day [ ] 1 Day [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers: Client #(s): 01 (start) - 06 (end) IATL#(s):_____ (start) - _____ (end) Total:_____

Chain of Custody:

Relinquished:		Date: 5-27-09	Time: 2:45pm
Received:		Date:	Time:
Sample Log-in:	5/28/09	Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:		Date: 6/2/09	Time:
QA/QC Review:		Date:	Time:

RECEIVED MAY 28 2009

Archived/Released:_____ QA/QC InterLAB Use:_____ Date:_____ Time:_____

1 of 2

International Asbestos Testing Laboratories
16000 Horizon Way, Unit 100
Mt. Laurel, NJ 08054

Tel 856 231-9449
Fax 856 231-9818
info@iatl.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heisley Rd
Mentor, OH 44060
Phone: 440-357-1960
FAX: 440-357-1910

Project Name: CUY-90-1640
Project No.: H09004-07
Contact: Joan Sablar
Analysis: Bulk PLM

Special Instructions:

Consultant Sample #	IATL Sample #	Color	[illegible]	Location	Photo #	Notes
01	3625285			Epoxy Material		
02	3625286			"		
03	3625287			Tar Cellulose material		
04	3625288			"		
05	3625289			Expansion joint material		
06	3625290			"		

Relinquished: JW	Date: 5-27-09	Time: 4pm
Received:	Date:	Time:
Sample Log-in:	Date:	Time:
Sample Prep:	Date:	Time:
Analyzed:	Date:	Time:
QA/QC Review:	Date:	Time:

Page 2 of 2

International Asbestos Testing Laboratories
~~[illegible]~~ 9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054
Tel. 856 231-9449
Fax 856 231-9818

- Chain of Custody -

Client: H2W Environmental Consultants
6105 Heisley Rd.
Mentor, OH 44060

Project Name: CUY-90-1640
Project No.: H09004-07

Phone: 440-357-1260
FAX: 440-357-1510

Contact: Joan Sablar
Pager:

Special Instructions: PO# 5162-09

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[X] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400	[X] PLM : Bulk Asbestos EPA 600	[ ] TEM : AHERA
[ ] PCM : OSHA	[ ] PLM : Point Counting 198.1	[ ] TEM : NIOSH 7402
[ ] PCM : Other_____	[ ] PLM : NOB via 198.1 (PLM only)	[ ] TEM : EPA Level II
	[ ] If <1% by PLM, to TEM via 198.4	[ ] TEM : Microvac / Wipe
[ ] AAS : NIOSH 7082 (Air)	to meet NYSDOH requirements **	[ ] TEM : Asbestos in Water
[ ] AAS : Lead in Drinking Water	(**call to confirm TAT!)	[ ] TEM : Bulk Analysis
[ ] AAS : Lead in Paint ASTM D3335-85a		[ ] TEM : NOB 198.4
[ ] AAS : Lead Dust/Wipe		[ ] TEM : Other_____
[ ] AAS : Other Metals / Soil_____		[ ] Total Dust : NIOSH 0500

Turnaround Time: **FAX:** _____ (date / time) **Verbals:** _____ (date / time)

[ ] 10 Day [ ] 5 Day [ ] 3 Day [ ] 2 Day [ ] 1 Day [ ] 6 hour [X] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers: Client #(s): 07 (start) - 08 (end) IATL#(s): _____ (start) - _____ (end) Total: _____

Chain of Custody:

Relinquished: _____ Date: 6-11-09 Time: 4pm
Received: _____ Date: _____ Time: _____
Sample Log-in: 6/12/09 Date: _____ Time: _____
Sample Prep: _____ Date: _____ Time: _____
Analyzed: _____ Date: _____ Time: _____
QA/QC Review: _____ Date: 6/12/09 Time: _____
Date: JUN 12 2009 Time: _____

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

IATL - BY

International Asbestos Testing Laboratories
16000 Horizon Way, Unit 100
Mt. Laurel, NJ 08054

Tel 856 231-9449
Fax 856 231-9818
info@iatl.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heisley Rd
Mentor OH 44060
Phone: 440-357-1960
FAX: 440-357-1910

Project Name: CUY-90-1640
Project No.: H09004-07
Contact: Joan Sablar
Analysis: Bulk PLM

Special Instructions:

Customer Sample #	Lab Sample #	Color	Type	Location	Friable	Notes
07	3641001			Gasket Material under old railings		
08	3641002			"		

Relinquished:		Date: 6-11-09	Time: 4 pm
Received:		Date:	Time:
Sample Log-in:		Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:	CS	Date: 6/12/09	Time:
QA/QC Review:		Date:	Time:

Page 2 of 2

IATL International Asbestos Testing Laboratories
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 OH 44060

Report Date: 6/2/2009
Project: CUY-90-1651L & R
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3625250 **Description / Location:** Tan Non Fibrous
Client No.: 01

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3625251 **Description / Location:** Tan Non Fibrous
Client No.: 02

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3625252 **Description / Location:** Black Fibrous
Client No.: 03

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Cellulose	55

Lab No.: 3625253 **Description / Location:** Black Fibrous
Client No.: 04

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Cellulose	55

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

Approved By:

Date: 6/2/2009

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories
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 OH 44060

Report Date: 6/2/2009
Project: CUY-90-1651L & R
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3625254 **Description / Location:** Tan Non Fibrous
Client No.: 05 Expansion Joint

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3625255 **Description / Location:** Tan Non Fibrous
Client No.: 06 Expansion Joint

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3625256 **Description / Location:** Black Fibrous
Client No.: 07

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Cellulose	35

Lab No.: 3625257 **Description / Location:** Black Fibrous
Client No.: 08

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Cellulose	35

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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: 6/2/2009

IATL International Asbestos Testing Laboratories

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 OH 44060

Report Date: 6/12/2009
Project: CUY-90-1651 L+R
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3641003 **Description / Location:** Tan/Grey Gasket
Client No.: 09 Under Old Railings

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.1	Chrysotile	None Detected	None Detected	PC 96.9

Lab No.: 3641004 **Description / Location:** Grey Gasket
Client No.: 10 Under Old Railings

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.4	Chrysotile	None Detected	None Detected	PC 96.6

NIST-NVLAP No. 101165-0 **NY-DOH No. 11021** **AIHA Lab No. 100188**

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: L. Solebello

Approved By:

Date: 6/12/2009

Frank E. Ehrenfeld, III
Laboratory Director

International Asbestos Testing Laboratories
~~[illegible]~~ 9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054
Tel. 856 231-9449
Fax 856 231-9818

- Chain of Custody -

Client: H2W Environmental Consultants
6105 Heisley Rd.
Mentor, Oh 44060

Project Name: CUY-90-1651 L+R
Project No.: H09004-07

Phone: 440-357-1260
FAX: 440-357-1510

Contact: Joan Sablar
Pager:

Special Instructions: PO# 5149-09

Type:

Asbestos			Lead			Other
[ ] Air	[ ] Soil		[ ] Air	[ ] Soil		
[X] Bulk	[ ] Dust		[ ] Bulk	[ ] Paint		
[ ] Water	[ ] Other		[ ] Water	[ ] Other		

Analysis Method:

[ ] PCM : NIOSH 7400	[X] PLM : Bulk Asbestos EPA 600	[ ] TEM : AHERA
[ ] PCM : OSHA	[ ] PLM : Point Counting 198.1	[ ] TEM : NIOSH 7402
[ ] PCM : Other_____	[ ] PLM : NOB via 198.1 (PLM only)	[ ] TEM : EPA Level II
	[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements ** (**call to confirm TAT!)	[ ] TEM : Microvac / Wipe
[ ] AAS : NIOSH 7082 (Air)		[ ] TEM : Asbestos in Water
[ ] AAS : Lead in Drinking Water		[ ] TEM : Bulk Analysis
[ ] AAS : Lead in Paint ASTM D3335-85a		[ ] TEM : NOB 198.4
[ ] AAS : Lead Dust/Wipe "		[ ] TEM : Other_____
[ ] AAS : Other Metals / Soil_____		[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ (date / time) **Verbals:** _____ (date / time)

[ ] 10 Day [ ] 5 Day [X] 3 Day [ ] 2 Day [ ] 1 Day [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers: Client #(s): 01 (start) - 08 (end) IATL#(s): _____ (start) - _____ (end) Total: _____

Chain of Custody:

Relinquished:		Date: 5-27-09	Time:
Received:		Date:	Time:
Sample Log-in:	5/28/09	Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:		Date: 5/28/09	Time:
QA/QC Review:		Date:	Time:

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

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1 of 2

International Asbestos Testing Laboratories
16000 Horizon Way, Unit 100
Mt. Laurel, NJ 08054

Tel 856 231-9449
Fax 856 231-9818
info@iatl.com

Bulk Material Sampling Log

Client: HzW Environmental Consultants LLC
6105 Heisley Rd
Mentor, OH 44060
Phone: 440-357-1580
FAX: 440-357-1510

Project Name: CUY-90-1651 L+R
Project No.: H09004-07
Contact: Jaia Sablan
Analysis: Bulk PLM

Special Instructions:

Consultant Sample #	IATL Sample #	Color	Type	Location	Friable	Notes
01	3625250		Epoxy Material			
02	3625251		"			
03	3625252		Tar-Cellulose Material			
04	3625253		"			
05	3625254		Expansion Joint Material			
06	3625255		"			
07	3625256		Tar Cellulose Material			
08	3625257		"			

Relinquished:		Date:	Time:
Received:		Date:	Time:
Sample Log-in:		Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:		Date:	Time:
QA/QC Review:		Date:	Time:

Page 2 of 2

International Asbestos Testing Laboratories
9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449
Fax 856 231-9818

- Chain of Custody -

Client: HzW Environmental Consultants
6105 Heisley Rd.
Mentor, oh 44060

Project Name: CUY-90-1691 L+R
Project No.: H09004-07

Phone: 440-357-1260
FAX: 440-357-1510

Contact: Joan Sablar
Pager:

Special Instructions: po# 5162-09

Type:

Asbestos				Lead				Other
[ ]	Air	[ ]	Soil	[ ]	Air	[ ]	Soil	
[X]	Bulk	[ ]	Dust	[ ]	Bulk	[ ]	Paint	
[ ]	Water	[ ]	Other	[ ]	Water	[ ]	Other	

Analysis Method:

[ ]	PCM : NIOSH 7400	[X]	PLM : Bulk Asbestos EPA 600	[ ]	TEM : AHERA
[ ]	PCM : OSHA	[ ]	PLM : Point Counting 198.1	[ ]	TEM : NIOSH 7402
[ ]	PCM : Other	[ ]	PLM : NOB via 198.1 (PLM only)	[ ]	TEM : EPA Level II
		[ ]	If <1% by PLM, to TEM via 198.4	[ ]	TEM : Microvac / Wipe
[ ]	AAS : NIOSH 7082 (Air)		to meet NYSDOH requirements **	[ ]	TEM : Asbestos in Water
[ ]	AAS : Lead in Drinking Water		(**call to confirm TAT!)	[ ]	TEM : Bulk Analysis
[ ]	AAS : Lead in Paint ASTM D3335-85a			[ ]	TEM : NOB 198.4
[ ]	AAS : Lead Dust/Wipe			[ ]	TEM : Other
[ ]	AAS : Other Metals / Soil			[ ]	Total Dust : NIOSH 0500

Turnaround Time: **FAX:** _____ (date / time) **Verbals:** _____ (date / time)

[ ] 10 Day [ ] 5 Day [ ] 3 Day [ ] 2 Day [ ] 1 Day [ ] 6 hour [X] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers: Client #(s): 09 (start) - 10 (end) IATL#(s): _____ (start) - _____ (end) Total: _____

Chain of Custody:

Relinquished:		Date: 6-11-09	Time: 4pm
Received:		Date:	Time:
Sample Log-in:		Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:		Date: 6/12/09 JUN 12 2009	Time:
QA/QC Review:		Date:	Time:

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

International Asbestos Testing Laboratories
16000 Horizon Way, Unit 100
Mt. Laurel, NJ 08054

Tel 856 231-9449
Fax 856 231-9818
info@iatl.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heisley Rd
Mentor, OH 44060
Phone: 440-357-1860
FAX: 440-357-1860

Project Name: CUY-90-1691 LHR
Project No.: HO 9004-0
Contact: Jean Sabler
Analysis: Bulk PLM

Special Instructions:

Consultant Sample #	Lab Sample #	Color	Type	Location	Friable	Non-Friable
09	3641003			Gasket Material under old railings		
10	3641004			"		

Relinquished:		Date: 6-11-09	Time: 4pm
Received:		Date:	Time:
Sample Log-in:		Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:		Date: 6/12/09	Time:
QA/QC Review:		Date:	Time:

ATTACHMENT 3

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

OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): ☒ Original ☐ Revised ☐ Canceled

II. Facility Description (include building name, number and floor or room number)

Building Name: *CUY-90-1463R I-90 Ramp WN Bridge under I-71 Mainline Bridge (SFN 1809148)*

Address: *CUY-90-1463R I-90 Ramp WN Bridge under I-71 Mainline Bridge*

City: *Independence* State: *OHIO* Zip Code: _____ County: *Cuyahoga*

Site Location (specific): *CUY-90-1463R I-90 Ramp WN Bridge under I-71 Mainline Bridge*

Building Size (square feet): *NA* # of Floors: *NA* Age in Years: *40*

Present Use: *Bridge* Prior Use: *Bridge*

III. Type of Operation (check one): ☐ Demo ☐ Ordered Demo ☒ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information

Owner Name: *Ohio Department of Transportation*

Address: *5500 Transportation Boulevard*

City: *Garfield Heights* State: *Ohio* Zip Code: *44125*

Contact: *Mr. Mark Alan Carpenter* Telephone: *216-584-2089* Fax: _____

Removal Contractor Name: _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

Other Operator (demolition/general): _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM:

NESHAP Inspection Procedure

Ohio Asbestos Hazard Evaluation Specialist: *Matthew Fergus* (Name) *33228* (Certification #)

VII. Approximate Amount of Asbestos Materials:

	RACM to Be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)					
Surface Area (square feet)		*314*			
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: _____ Complete: _____

IX. Dates for Asbestos Removal (MM/DD/YY) Start: _____ Complete: _____

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:							

Complete all unshaded spaces, except, demolitions which involve less than 260 linear feet, 160 square feet or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolitions or Emergency Renovations must supply attachments.

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 engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:

XII. Waste Transporter #1

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

Waste Transporter #2

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIII. Waste Disposal

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIV. Emergency Demolition: (complete Item XIV and all other sections, only if this project is an Emergency Demolition)

1. Attach a copy of the Order to this notice.
2. Name of the Authority Issuing Order: _____ Title: _____
3. Authority of Order (Citation of Code): _____
4. Date of Order (MM/DD/YY): _____ Date Ordered to Begin: _____

XV. Emergency Renovation: (Attach separate sheet with the following information if project is Emergency Renovation)

1. Date and Hour of the Emergency
2. Description of the Sudden, Unexpected Event.
3. Explanation of how event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder.

Determine if it is regulated under NESHAP, make proper notification if required, and take the appropriate actions. Contain the material and saturate with surfactant then take the appropriate actions.

XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.

_____ _____ _____

Signature of Owner/Operator Date Type or Print Name and Title

XVIII. I acknowledge the existance of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate and complete.

_____ _____ _____

Signature of Owner/Operator Date Type or Print Name and Title

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) 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

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): ☒ Original ☐ Revised ☐ Canceled

II. Facility Description (include building name, number and floor or room number)

Building Name: *CUY-90-1490L I-90 West Bound Bridge over Starkweather Avenue (SFN 1809342)*

Address: *CUY-90-1490L I-90 West Bound Bridge over Starkweather Avenue*

City: *Independence* State: *OHIO* Zip Code: _____ County: *Cuyahoga*

Site Location (specific): *CUY-90-1490L I-90 West Bound Bridge over Starkweather Avenue*

Building Size (square feet): *NA* # of Floors: *NA* Age in Years: *40*

Present Use: *Bridge* Prior Use: *Bridge*

III. Type of Operation (check one): ☐ Demo ☐ Ordered Demo ☒ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information

Owner Name: *Ohio Department of Transportation*

Address: *5500 Transportation Boulevard*

City: *Garfield Heights* State: *Ohio* Zip Code: *44125*

Contact: *Mr. Mark Alan Carpenter* Telephone: *216-584-2089* Fax: _____

Removal Contractor Name: _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

Other Operator (demolition/general): _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM:

NESHAP Inspection Procedure

Ohio Asbestos Hazard Evaluation Specialist: *Matthew Fergus* (Name) *33228* (Certification #)

VII. Approximate Amount of Asbestos Materials:

	RACM to Be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)					
Surface Area (square feet)		*118*			
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: _____ Complete: _____

IX. Dates for Asbestos Removal (MM/DD/YY) Start: _____ Complete: _____

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:							

Complete all unshaded spaces, except, demolitions which involve less than 260 linear feet, 160 square feet or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolitions or Emergency Renovations must supply attachments.

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 engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:

XII. Waste Transporter #1

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

Waste Transporter #2

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIII. Waste Disposal

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIV. Emergency Demolition: (complete Item XIV and all other sections, only if this project is an Emergency Demolition)

1. Attach a copy of the Order to this notice.
2. Name of the Authority Issuing Order: _____ Title: _____
3. Authority of Order (Citation of Code): _____
4. Date of Order (MM/DD/YY): _____ Date Ordered to Begin: _____

XV. Emergency Renovation: (Attach separate sheet with the following information if project is Emergency Renovation)

1. Date and Hour of the Emergency
2. Description of the Sudden, Unexpected Event.
3. Explanation of how event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder.

Determine if it is regulated under NESHAP, make proper notification if required, and take the appropriate actions. Contain the material and saturate with surfactant then take the appropriate actions.

XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.

_____ _____ _____

Signature of Owner/Operator | Date | Type or Print Name and Title

XVIII. I acknowledge the existance of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate and complete.

_____ _____ _____

Signature of Owner/Operator | Date | Type or Print Name and Title

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) 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

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): ☒ Original ☐ Revised ☐ Canceled

II. Facility Description (include building name, number and floor or room number)

Building Name: *CUY-90-1490R I-90 East Bound Bridge over Starkweather Avenue (SFN 1807625)*

Address: *CUY-90-1490R I-90 East Bound Bridge over Starkweather Avenue*

City: *Independence* State: *OHIO* Zip Code: _____ County: *Cuyahoga*

Site Location (specific): *CUY-90-1490R I-90 East Bound Bridge over Starkweather Avenue*

Building Size (square feet): *NA* # of Floors: *NA* Age in Years: *40*

Present Use: *Bridge* Prior Use: *Bridge*

III. Type of Operation (check one): ☐ Demo ☐ Ordered Demo ☒ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information

Owner Name: *Ohio Department of Transportation*

Address: *5500 Transportation Boulevard*

City: *Garfield Heights* State: *Ohio* Zip Code: *44125*

Contact: *Mr. Mark Alan Carpenter* Telephone: *216-584-2089* Fax: _____

Removal Contractor Name: _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

Other Operator (demolition/general): _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM:

NESHAP Inspection Procedure

Ohio Asbestos Hazard Evaluation Specialist: *Matthwe Fergus* (Name) *33228* (Certification #)

VII. Approximate Amount of Asbestos Materials:

	RACM to Be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)					
Surface Area (square feet)		*547*			
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: _____ Complete: _____

IX. Dates for Asbestos Removal (MM/DD/YY) Start: _____ Complete: _____

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:							

Complete all unshaded spaces, except, demolitions which involve less than 260 linear feet, 160 square feet or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolitions or Emergency Renovations must supply attachments.

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 engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:

XII. Waste Transporter #1

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

Waste Transporter #2

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIII. Waste Disposal

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIV. Emergency Demolition: (complete Item XIV and all other sections, only if this project is an Emergency Demolition)

1. Attach a copy of the Order to this notice.
2. Name of the Authority Issuing Order: _____ Title: _____
3. Authority of Order (Citation of Code): _____
4. Date of Order (MM/DD/YY): _____ Date Ordered to Begin: _____

XV. Emergency Renovation: (Attach separate sheet with the following information if project is Emergency Renovation)

1. Date and Hour of the Emergency
2. Description of the Sudden, Unexpected Event.
3. Explanation of how event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder.

Determine if it is regulated under NESHAP, make proper notification if required, and take the appropriate actions. Contain the material and saturate with surfactant then take the appropriate actions.

XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.

_____ _____ _____

Signature of Owner/Operator Date Type or Print Name and Title

XVIII. I acknowledge the existance of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate and complete.

_____ _____ _____

Signature of Owner/Operator Date Type or Print Name and Title

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) 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

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): ☒ Original ☐ Revised ☐ Canceled

II. Facility Description (include building name, number and floor or room number)

Building Name: *CUY-90-1506 I-90 East and West Bound Bridge over Kenilworth Avenue (SFN 1807684)*

Address: *CUY-90-1506 I-90 East and West Bound Bridge over Kenilworth Avenue*

City: *Independence* State: *OHIO* Zip Code: _____ County: *Cuyahoga*

Site Location (specific): *CUY-90-1506 I-90 East and West Bound Bridge over Kenilworth Avenue*

Building Size (square feet): *NA* # of Floors: *NA* Age in Years: *40*

Present Use: *Bridge* Prior Use: *Bridge*

III. Type of Operation (check one): ☐ Demo ☐ Ordered Demo ☒ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information

Owner Name: *Ohio Department of Transportation*

Address: *5500 Transportation Boulevard*

City: *Garfield Heights* State: *Ohio* Zip Code: *44125*

Contact: *Mr. Mark Alan Carpenter* Telephone: *216-584-2089* Fax: _____

Removal Contractor Name: _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

Other Operator (demolition/general): _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM:

NESHAP Inspection Procedure

Ohio Asbestos Hazard Evaluation Specialist: *Matthew Fergus* (Name) *33228* (Certification #)

VII. Approximate Amount of Asbestos Materials:

	RACM to Be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)					
Surface Area (square feet)		*658*			
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: _____ Complete: _____

IX. Dates for Asbestos Removal (MM/DD/YY) Start: _____ Complete: _____

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:							

Complete all unshaded spaces, except, demolitions which involve less than 260 linear feet, 160 square feet or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolitions or Emergency Renovations must supply attachments.

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 engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:

XII. Waste Transporter #1

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

Waste Transporter #2

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIII. Waste Disposal

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIV. Emergency Demolition: (complete Item XIV and all other sections, only if this project is an Emergency Demolition)

1. Attach a copy of the Order to this notice.
2. Name of the Authority Issuing Order: _____ Title: _____
3. Authority of Order (Citation of Code): _____
4. Date of Order (MM/DD/YY): _____ Date Ordered to Begin: _____

XV. Emergency Renovation: (Attach separate sheet with the following information if project is Emergency Renovation)

1. Date and Hour of the Emergency
2. Description of the Sudden, Unexpected Event.
3. Explanation of how event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder.

Determine if it is regulated under NESHAP, make proper notification if required, and take the appropriate actions. Contain the material and saturate with surfactant then take the appropriate actions.

XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.

_____ _____ _____

Signature of Owner/Operator Date Type or Print Name and Title

XVIII. I acknowledge the existance of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate and complete.

_____ _____ _____

Signature of Owner/Operator Date Type or Print Name and Title

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) 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

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): ☒ Original ☐ Revised ☐ Canceled

II. Facility Description (include building name, number and floor or room number)

Building Name: *CUY-90-15.24 I-90 Interbelt Bridge over Cuyahoga River (SFN 1809393)*

Address: *CUY-90-15.24 I-90 Interbelt Bridge over Cuyahoga River*

City: *Independence* State: *OHIO* Zip Code: _____ County: *Cuyahoga*

Site Location (specific): *CUY-90-15.24 I-90 Interbelt Bridge over Cuyahoga River*

Building Size (square feet): *NA* # of Floors: *NA* Age in Years: *40*

Present Use: *Bridge* Prior Use: *Bridge*

III. Type of Operation (check one): ☐ Demo ☐ Ordered Demo ☒ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information

Owner Name: *Ohio Department of Transportation*

Address: *5500 Transportation Boulevard*

City: *Garfield Heights* State: *Ohio* Zip Code: *44125*

Contact: *Mr. Mark Alan Carpenter* Telephone: *216-584-2089* Fax: _____

Removal Contractor Name: _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

Other Operator (demolition/general): _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM:

NESHAP Inspection Procedure

Ohio Asbestos Hazard Evaluation Specialist: *Matthew Fergus* (Name) *33228* (Certification #)

VII. Approximate Amount of Asbestos Materials:

	RACM to Be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)	*4250*				
Surface Area (square feet)		*1350*			
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: _____ Complete: _____

IX. Dates for Asbestos Removal (MM/DD/YY) Start: _____ Complete: _____

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:							

Complete all unshaded spaces, except, demolitions which involve less than 260 linear feet, 160 square feet or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolitions or Emergency Renovations must supply attachments.

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 engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:

XII. Waste Transporter #1

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

Waste Transporter #2

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIII. Waste Disposal

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIV. Emergency Demolition: (complete Item XIV and all other sections, only if this project is an Emergency Demolition)

1. Attach a copy of the Order to this notice.
2. Name of the Authority Issuing Order: _____ Title: _____
3. Authority of Order (Citation of Code): _____
4. Date of Order (MM/DD/YY): _____ Date Ordered to Begin: _____

XV. Emergency Renovation: (Attach separate sheet with the following information if project is Emergency Renovation)

1. Date and Hour of the Emergency
2. Description of the Sudden, Unexpected Event.
3. Explanation of how event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder.

Determine if it is regulated under NESHAP, make proper notification if required, and take the appropriate actions. Contain the material and saturate with surfactant then take the appropriate actions.

XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.

_____ _____ _____

Signature of Owner/Operator Date Type or Print Name and Title

XVIII. I acknowledge the existance of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate and complete.

_____ _____ _____

Signature of Owner/Operator Date Type or Print Name and Title

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) 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

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): ☒ Original ☐ Revised ☐ Canceled

II. Facility Description (include building name, number and floor or room number)

Building Name: *CUY-90-1628EW I-90 Center Bridge over East 9th Street (SFN 1807552)*

Address: *CUY-90-1628EW I-90 Center Bridge over East 9th Street*

City: *Independence* State: *OHIO* Zip Code: _____ County: *Cuyahoga*

Site Location (specific): *CUY-90-1628EW I-90 Center Bridge over East 9th Street*

Building Size (square feet): *NA* # of Floors: *NA* Age in Years: *40*

Present Use: *Bridge* Prior Use: *Bridge*

III. Type of Operation (check one): ☐ Demo ☐ Ordered Demo ☒ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information

Owner Name: *Ohio Department of Transportation*

Address: *5500 Transportation Boulevard*

City: *Garfield Heights* State: *Ohio* Zip Code: *44125*

Contact: *Mr. Mark Alan Carpenter* Telephone: *216-581-2333* Fax: _____

Removal Contractor Name: _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

Other Operator (demolition/general): _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM:

NESHAP Inspection Procedure

Ohio Asbestos Hazard Evaluation Specialist: *Matthew Fergus* (Name) *33228* (Certification #)

VII. Approximate Amount of Asbestos Materials:

	RACM to Be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)	*494*				
Surface Area (square feet)		*53*			
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: _____ Complete: _____

IX. Dates for Asbestos Removal (MM/DD/YY) Start: _____ Complete: _____

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:							

Complete all unshaded spaces, except, demolitions which involve less than 260 linear feet, 160 square feet or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolitions or Emergency Renovations must supply attachments.

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 engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:

XII. Waste Transporter #1

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

Waste Transporter #2

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIII. Waste Disposal

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIV. Emergency Demolition: (complete Item XIV and all other sections, only if this project is an Emergency Demolition)

1. Attach a copy of the Order to this notice.
2. Name of the Authority Issuing Order: _____ Title: _____
3. Authority of Order (Citation of Code): _____
4. Date of Order (MM/DD/YY): _____ Date Ordered to Begin: _____

XV. Emergency Renovation: (Attach separate sheet with the following information if project is Emergency Renovation)

1. Date and Hour of the Emergency
2. Description of the Sudden, Unexpected Event.
3. Explanation of how event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder.

Determine if it is regulated under NESHAP, make proper notification if required, and take the appropriate actions. Contain the material and saturate with surfactant then take the appropriate actions.

XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.

_____ _____ _____

Signature of Owner/Operator Date Type or Print Name and Title

XVIII. I acknowledge the existance of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate and complete.

_____ _____ _____

Signature of Owner/Operator Date Type or Print Name and Title

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) 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

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): ☒ Original ☐ Revised ☐ Canceled

II. Facility Description (include building name, number and floor or room number)

Building Name: *CUY-90-1628EW I-90 Center Bridge over East 9th Street (SFN 1807552)*

Address: *CUY-90-1628EW I-90 Center Bridge over East 9th Street*

City: *Independence* State: *OHIO* Zip Code: _____ County: *Cuyahoga*

Site Location (specific): *CUY-90-1628EW I-90 Center Bridge over East 9th Street*

Building Size (square feet): *NA* # of Floors: *NA* Age in Years: *40*

Present Use: *Bridge* Prior Use: *Bridge*

III. Type of Operation (check one): ☐ Demo ☐ Ordered Demo ☒ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information

Owner Name: *Ohio Department of Transportation*

Address: *5500 Transportation Boulevard*

City: *Garfield Heights* State: *Ohio* Zip Code: *44125*

Contact: *Mr. Mark Alan Carpenter* Telephone: *216-581-2333* Fax: _____

Removal Contractor Name: _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

Other Operator (demolition/general): _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM:

NESHAP Inspection Procedure

Ohio Asbestos Hazard Evaluation Specialist: *Matthew Fergus* (Name) *33228* (Certification #)

VII. Approximate Amount of Asbestos Materials:

	RACM to Be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)	*494*				
Surface Area (square feet)		*53*			
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: _____ Complete: _____

IX. Dates for Asbestos Removal (MM/DD/YY) Start: _____ Complete: _____

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:							

Complete all unshaded spaces, except, demolitions which involve less than 260 linear feet, 160 square feet or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolitions or Emergency Renovations must supply attachments.

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 engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:

XII. Waste Transporter #1

Name: _____
Address: _____
City: _____ State: _____ Zip code: _____
Contact Person: _____ Telephone: _____ Fax: _____

Waste Transporter #2

Name: _____
Address: _____
City: _____ State: _____ Zip code: _____
Contact Person: _____ Telephone: _____ Fax: _____

XIII. Waste Disposal

Name: _____
Address: _____
City: _____ State: _____ Zip code: _____
Contact Person: _____ Telephone: _____ Fax: _____

XIV. Emergency Demolition: (complete Item XIV and all other sections, only if this project is an Emergency Demolition)

1. Attach a copy of the Order to this notice.
2. Name of the Authority Issuing Order: _____ Title: _____
3. Authority of Order (Citation of Code): _____
4. Date of Order (MM/DD/YY): _____ Date Ordered to Begin: _____

XV. Emergency Renovation: (Attach separate sheet with the following information if project is Emergency Renovation)

1. Date and Hour of the Emergency
2. Description of the Sudden, Unexpected Event.
3. Explanation of how event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder.

Determine if it is regulated under NESHAP, make proper notification if required, and take the appropriate actions. Contain the material and saturate with surfactant then take the appropriate actions.

XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.

_____ _____ _____
Signature of Owner/Operator Date Type or Print Name and Title

XVIII. I acknowledge the existance of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate and complete.

_____ _____ _____
Signature of Owner/Operator Date Type or Print Name and Title

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) 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

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): ☒ Original ☐ Revised ☐ Canceled

II. Facility Description (include building name, number and floor or room number)

Building Name: *CUY-90- 1628L I-90 Northern Most Bridge over East 9th Street (SFN 1807498)*

Address: *CUY-90- 1628L I-90 Northern Most Bridge over East 9th Street*

City: *Independence* State: *OHIO* Zip Code: _____ County: *Cuyahoga*

Site Location (specific): *CUY-90- 1628L I-90 Northern Most Bridge over East 9th Street*

Building Size (square feet): *NA* # of Floors: *NA* Age in Years: *40*

Present Use: *Bridge* Prior Use: *Bridge*

III. Type of Operation (check one): ☐ Demo ☐ Ordered Demo ☒ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information

Owner Name: *Ohio Department of Transportation*

Address: *5500 Transportation Boulevard*

City: *Garfield Heights* State: *Ohio* Zip Code: *44125*

Contact: *Mr. Mark Alan Carpenter* Telephone: *216-581-2333* Fax: _____

Removal Contractor Name: _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

Other Operator (demolition/general): _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM:

NESHAP Inspection Procedure

Ohio Asbestos Hazard Evaluation Specialist: *Matthew Fergus* (Name) *33228* (Certification #)

VII. Approximate Amount of Asbestos Materials:

	RACM to Be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)	*494*				
Surface Area (square feet)		*62*			
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: _____ Complete: _____

IX. Dates for Asbestos Removal (MM/DD/YY) Start: _____ Complete: _____

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:							

Complete all unshaded spaces, except, demolitions which involve less than 260 linear feet, 160 square feet or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolitions or Emergency Renovations must supply attachments.

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 engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:

XII. Waste Transporter #1

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

Waste Transporter #2

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIII. Waste Disposal

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIV. Emergency Demolition: (complete Item XIV and all other sections, only if this project is an Emergency Demolition)

1. Attach a copy of the Order to this notice.
2. Name of the Authority Issuing Order: _____ Title: _____
3. Authority of Order (Citation of Code): _____
4. Date of Order (MM/DD/YY): _____ Date Ordered to Begin: _____

XV. Emergency Renovation: (Attach separate sheet with the following information if project is Emergency Renovation)

1. Date and Hour of the Emergency
2. Description of the Sudden, Unexpected Event.
3. Explanation of how event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder.

Determine if it is regulated under NESHAP, make proper notification if required, and take the appropriate actions. Contain the material and saturate with surfactant then take the appropriate actions.

XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.

_____ _____ _____

Signature of Owner/Operator Date Type or Print Name and Title

XVIII. I acknowledge the existance of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate and complete.

_____ _____ _____

Signature of Owner/Operator Date Type or Print Name and Title

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) 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

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): ☒ Original ☐ Revised ☐ Canceled

II. Facility Description (include building name, number and floor or room number)

Building Name: *CUY-90-1628R I-90 Southern Most Bridge over East 9th Street (SFN 1807714)*

Address: *CUY-90-1628R I-90 Southern Most Bridge over East 9th Street*

City: *Independence* State: *OHIO* Zip Code: _____ County: *Cuyahoga*

Site Location (specific): *CUY-90-1628R I-90 Southern Most Bridge over East 9th Street*

Building Size (square feet): *NA* # of Floors: *NA* Age in Years: *40*

Present Use: *Bridge* Prior Use: *Bridge*

III. Type of Operation (check one): ☐ Demo ☐ Ordered Demo ☒ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information

Owner Name: *Ohio Department of Transportation*

Address: *5500 Transportation Boulevard*

City: *Garfield Heights* State: *Ohio* Zip Code: *44125*

Contact: *Mr. Mark Alan Carpenter* Telephone: *216-584-2089* Fax: _____

Removal Contractor Name: _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

Other Operator (demolition/general): _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM:

NESHAP Inspection Procedure

Ohio Asbestos Hazard Evaluation Specialist: *Matthew Fergus* (Name) *33228* (Certification #)

VII. Approximate Amount of Asbestos Materials:

	RACM to Be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)	*494*				
Surface Area (square feet)		*56*			
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: _____ Complete: _____

IX. Dates for Asbestos Removal (MM/DD/YY) Start: _____ Complete: _____

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:							

Complete all unshaded spaces, except, demolitions which involve less than 260 linear feet, 160 square feet or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolitions or Emergency Renovations must supply attachments.

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 engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:

XII. Waste Transporter #1

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

Waste Transporter #2

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIII. Waste Disposal

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIV. Emergency Demolition: (complete Item XIV and all other sections, only if this project is an Emergency Demolition)

1. Attach a copy of the Order to this notice.
2. Name of the Authority Issuing Order: _____ Title: _____
3. Authority of Order (Citation of Code): _____
4. Date of Order (MM/DD/YY): _____ Date Ordered to Begin: _____

XV. Emergency Renovation: (Attach separate sheet with the following information if project is Emergency Renovation)

1. Date and Hour of the Emergency
2. Description of the Sudden, Unexpected Event.
3. Explanation of how event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder.

Determine if it is regulated under NESHAP, make proper notification if required, and take the appropriate actions. Contain the material and saturate with surfactant then take the appropriate actions.

XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.

_____ _____ _____

Signature of Owner/Operator Date Type or Print Name and Title

XVIII. I acknowledge the existance of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate and complete.

_____ _____ _____

Signature of Owner/Operator Date Type or Print Name and Title

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) 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

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): ☒ Original ☐ Revised ☐ Canceled

II. Facility Description (include building name, number and floor or room number)

Building Name: *CUY-90-1640 I-90 Bridge over Ramp E-10 and Ramp E-8 (SFN 1807773)*

Address: *CUY-90-1640 I-90 Bridge over Ramp E-10 and Ramp E-8*

City: *Independence* State: *OHIO* Zip Code: _____ County: *Cuyahoga*

Site Location (specific): *CUY-90-1640 I-90 Bridge over Ramp E-10 and Ramp E-8*

Building Size (square feet): *NA* # of Floors: *NA* Age in Years: *40*

Present Use: *Bridge* Prior Use: *Bridge*

III. Type of Operation (check one): ☐ Demo ☐ Ordered Demo ☒ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information

Owner Name: *Ohio Department of Transportation*

Address: *5500 Transportation Boulevard*

City: *Garfield Heights* State: *Ohio* Zip Code: *44125*

Contact: *Mr. Mark Alan Carpenter* Telephone: *216-584-2089* Fax: _____

Removal Contractor Name: _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

Other Operator (demolition/general): _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM:

NESHAP Inspection Procedure

Ohio Asbestos Hazard Evaluation Specialist: *Matthew Fergus* (Name) *33228* (Certification #)

VII. Approximate Amount of Asbestos Materials:

		Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
	RACM to Be Removed	Category I	Category II	Category I	Category II
Pipes (linear feet)	*1770*				
Surface Area (square feet)		*95*			
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: _____ Complete: _____

IX. Dates for Asbestos Removal (MM/DD/YY) Start: _____ Complete: _____

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:							

Complete all unshaded spaces, except, demolitions which involve less than 260 linear feet, 160 square feet or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolitions or Emergency Renovations must supply attachments.

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 engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:

XII. Waste Transporter #1

Name: _____
Address: _____
City: _____ State: _____ Zip code: _____
Contact Person: _____ Telephone: _____ Fax: _____

Waste Transporter #2

Name: _____
Address: _____
City: _____ State: _____ Zip code: _____
Contact Person: _____ Telephone: _____ Fax: _____

XIII. Waste Disposal

Name: _____
Address: _____
City: _____ State: _____ Zip code: _____
Contact Person: _____ Telephone: _____ Fax: _____

XIV. Emergency Demolition: (complete Item XIV and all other sections, only if this project is an Emergency Demolition)

1. Attach a copy of the Order to this notice.
2. Name of the Authority Issuing Order: _____ Title: _____
3. Authority of Order (Citation of Code): _____
4. Date of Order (MM/DD/YY): _____ Date Ordered to Begin: _____

XV. Emergency Renovation: (Attach separate sheet with the following information if project is Emergency Renovation)

1. Date and Hour of the Emergency
2. Description of the Sudden, Unexpected Event.
3. Explanation of how event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder.

Determine if it is regulated under NESHAP, make proper notification if required, and take the appropriate actions. Contain the material and saturate with surfactant then take the appropriate actions.

XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.

_____ _____ _____
Signature of Owner/Operator Date Type or Print Name and Title

XVIII. I acknowledge the existance of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate and complete.

_____ _____ _____
Signature of Owner/Operator Date Type or Print Name and Title

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) 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

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): ☒ Original ☐ Revised ☐ Canceled

II. Facility Description (include building name, number and floor or room number)

Building Name: *CUY-90-1651L I-90 West Bound Bridge over East 14th Street (SFN 1807900)*

Address: *CUY-90-1651L I-90 West Bound Bridge over East 14th Street*

City: *Independence* State: *OHIO* Zip Code: _____ County: *Cuyahoga*

Site Location (specific): *CUY-90-1651L I-90 West Bound Bridge over East 14th Street*

Building Size (square feet): *NA* # of Floors: *NA* Age in Years: *40*

Present Use: *Bridge* Prior Use: *Bridge*

III. Type of Operation (check one): ☐ Demo ☐ Ordered Demo ☒ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information

Owner Name: *Ohio Department of Transportation*

Address: *5500 Transportation Boulevard*

City: *Garfield Heights* State: *Ohio* Zip Code: *44125*

Contact: *Mr. Mark Alan Carpenter* Telephone: *216-584-2089* Fax: _____

Removal Contractor Name: _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

Other Operator (demolition/general): _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM:

NESHAP Inspection Procedure

Ohio Asbestos Hazard Evaluation Specialist: *Matthew Fergus* (Name) *33228* (Certification #)

VII. Approximate Amount of Asbestos Materials:

		Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
	RACM to Be Removed	Category I	Category II	Category I	Category II
Pipes (linear feet)	*1538*				
Surface Area (square feet)		*80*			
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: _____ Complete: _____

IX. Dates for Asbestos Removal (MM/DD/YY) Start: _____ Complete: _____

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:							

Complete all unshaded spaces, except, demolitions which involve less than 260 linear feet, 160 square feet or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolitions or Emergency Renovations must supply attachments.

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 engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:

XII. Waste Transporter #1

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

Waste Transporter #2

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIII. Waste Disposal

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIV. Emergency Demolition: (complete Item XIV and all other sections, only if this project is an Emergency Demolition)

1. Attach a copy of the Order to this notice.
2. Name of the Authority Issuing Order: _____ Title: _____
3. Authority of Order (Citation of Code): _____
4. Date of Order (MM/DD/YY): _____ Date Ordered to Begin: _____

XV. Emergency Renovation: (Attach separate sheet with the following information if project is Emergency Renovation)

1. Date and Hour of the Emergency
2. Description of the Sudden, Unexpected Event.
3. Explanation of how event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder.

Determine if it is regulated under NESHAP, make proper notification if required, and take the appropriate actions. Contain the material and saturate with surfactant then take the appropriate actions.

XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.

_____ _____ _____

Signature of Owner/Operator Date Type or Print Name and Title

XVIII. I acknowledge the existance of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate and complete.

_____ _____ _____

Signature of Owner/Operator Date Type or Print Name and Title

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) 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

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): ☒ Original ☐ Revised ☐ Canceled

II. Facility Description (include building name, number and floor or room number)

Building Name: *CUY-90-1651R I-90 East Bound Bridge over East 14th Street (SFN 1807803)*

Address: *CUY-90-1651R I-90 East Bound Bridge over East 14th Street*

City: *Independence* State: *OHIO* Zip Code: _____ County: *Cuyahoga*

Site Location (specific): *CUY-90-1651R I-90 East Bound Bridge over East 14th Street*

Building Size (square feet): *NA* # of Floors: *NA* Age in Years: *40*

Present Use: *Bridge* Prior Use: *Bridge*

III. Type of Operation (check one): ☐ Demo ☐ Ordered Demo ☒ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information

Owner Name: *Ohio Department of Transportation*

Address: *5500 Transportation Boulevard*

City: *Garfield Heights* State: *Ohio* Zip Code: *44125*

Contact: *Mr. Mark Alan Carpenter* Telephone: *216-584-2089* Fax: _____

Removal Contractor Name: _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

Other Operator (demolition/general): _____ License # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Telephone: _____ Fax: _____

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM:

NESHAP Inspection Procedure

Ohio Asbestos Hazard Evaluation Specialist: *Matthew Fergus* (Name) *33228* (Certification #)

VII. Approximate Amount of Asbestos Materials:

	RACM to Be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)	*1538*				
Surface Area (square feet)		*80*			
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: _____ Complete: _____

IX. Dates for Asbestos Removal (MM/DD/YY) Start: _____ Complete: _____

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:							

Complete all unshaded spaces, except, demolitions which involve less than 260 linear feet, 160 square feet or 35 cubic feet of RACM, need not complete spaces VII, XI, XII, XIII, XIV, and XV. Notifications for Emergency Demolitions or Emergency Renovations must supply attachments.

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 engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:

XII. Waste Transporter #1

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

Waste Transporter #2

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIII. Waste Disposal

Name: _____

Address: _____

City: _____ State: _____ Zip code: _____

Contact Person: _____ Telephone: _____ Fax: _____

XIV. Emergency Demolition: (complete Item XIV and all other sections, only if this project is an Emergency Demolition)

1. Attach a copy of the Order to this notice.
2. Name of the Authority Issuing Order: _____ Title: _____
3. Authority of Order (Citation of Code): _____
4. Date of Order (MM/DD/YY): _____ Date Ordered to Begin: _____

XV. Emergency Renovation: (Attach separate sheet with the following information if project is Emergency Renovation)

1. Date and Hour of the Emergency
2. Description of the Sudden, Unexpected Event.
3. Explanation of how event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder.

Determine if it is regulated under NESHAP, make proper notification if required, and take the appropriate actions. Contain the material and saturate with surfactant then take the appropriate actions.

XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.

_____ _____ _____

Signature of Owner/Operator Date Type or Print Name and Title

XVIII. I acknowledge the existance of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate and complete.

_____ _____ _____

Signature of Owner/Operator Date Type or Print Name and Title

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) which must be submitted as soon as possible before operations begin. (Form Revised 11/12/97)