



CUY-90-14.90

PID 77332/85531


APPENDIX EC-27

**Regulated Materials Investigation for
PPN 004-25-020, 021, 022 & 023, and 122-18-004
(Contract Document)**

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

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

Revision Date: June 22, 2010

 - Addendum No. 7 - New Appendix



HZW ENVIRONMENTAL
CONSULTANTS, LLC

June 22, 2010

Mr. Mark Carpenter
ODOT District 12
5500 Transportation Boulevard
Garfield Heights, Ohio 44125

Subject: Report of Findings of a Regulated Materials Investigation Conducted at the Scranton-Averill and Canal Road Buildings Located in Cleveland, Cuyahoga County, Ohio (H10002-13)

Dear Mr. Carpenter:

HZW Environmental Consultants, LLC (HzW) is pleased to submit this letter report which presents the findings of a Regulated Materials Investigation conducted at two (2) properties located in Cleveland, Cuyahoga County, Ohio. The properties and associated buildings surveyed as part of this Regulated Materials Investigation consisted of the following:

- Scranton-Averill located at 1515 Fairview Avenue. A one- (1-) story office/warehouse building is located at the property.
- Canal Road located at 2394 Canal Road. The building located at the property was built during three (3) separate constructions. The original building was constructed in the 1940s with two (2) additions being added in the 1950s and 1970s.

The two (2) properties are herein collectively referred to as the “subject properties”. Individually, the properties are herein referred to as “Scranton-Averill” and “Canal Road”, respectively. The Regulated Materials Investigation consisted of conducting an asbestos survey to identify building materials that contain asbestos and conducting a hazardous materials survey to identify building materials that contain regulated hazardous materials prior to any of the buildings being manually demolished. In addition, the Regulated Materials Investigation consisted of documenting the presence of any aboveground and underground storage tanks not previously identified at the subject properties prior to any of their associated buildings being manually demolished.

METHODS OF INVESTIGATION

URS Phase II ESA Review & Visual Inspection for ASTs/USTs

As part of the Regulated Materials Investigation, HzW requested from ODOT a copy of any Phase II Environmental Site Assessments (ESAs) conducted at the subject properties for review. It was indicated to HzW that only the Canal Road property had a Phase II ESA completed, which was performed by URS. In addition to reviewing the Phase II ESA, HzW also performed a visual inspection at the subject properties to identify any aboveground and/or underground storage tanks (ASTs/USTs). For the Canal Road property, only those ASTs or USTs not previously identified in the Phase II ESA were documented. Any such findings were documented by HzW as part of our Regulated Materials Investigation.

Asbestos Survey

During June 2010, representatives of HzW, certified as Asbestos Hazard Emergency Response Act (AHERA) building inspectors and as Asbestos Hazard Evaluation Specialists (AHES), performed the asbestos survey. These certifications are required to be maintained by the inspector in accordance with the Asbestos School Hazard Abatement Reauthorization Act (ASHARA) and Ohio Department of Health (ODH) regulations.

The asbestos survey was conducted in accordance with the National Emissions Standard for Hazardous Air Pollutants (NESHAP). NESHAP regulations require no specific survey protocol be followed; however, AHERA protocol is recommended. Therefore, the asbestos survey at the subject building was conducted in accordance with AHERA protocol, which initially requires that all homogeneous areas of building materials located in a building and suspected of containing asbestos be identified. A homogeneous area is a building material/area that is uniform in texture, color, date of application, use or system and appears identical in every other respect. Once all homogeneous areas are identified, functional spaces in which these homogeneous areas exist are subsequently identified. Within each functional space, the AHERA category, condition, quantity, and location of each suspect material is determined.

AHERA classifies friable building materials into the following three (3) categories: surfacing materials, thermal system insulation (TSI) and miscellaneous materials. A friable building material is defined as a material that can be crumbled, pulverized, or reduced to powder by hand pressure. It should be noted that nonfriable building materials are often included by building inspectors under the miscellaneous materials category. Examples of surfacing materials include fireproofing and acoustical plaster. TSI can include, but is not limited to, the following: pipe lagging, pipe wrap, block insulation, batt insulation and mudded fitting insulation. Miscellaneous materials can include, but are not limited, to the following: ceiling tile, drywall and joint compound, floor tile and mastic, roofing materials and transite.

In determining the condition of the material the following guidelines are used.

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

The bulk sampling protocol is based on the AHERA category assigned to a specific homogeneous area and the quantity of that homogeneous area identified. For **surfacing materials** if the size of the homogeneous sampling area is less than 1,000 square feet (ft²) then a minimum of three (3) samples are collected. If the size of the homogeneous sampling area is between 1,000 and 5,000 ft² then a minimum of five (5) samples are collected. If the size of the homogeneous sampling area is greater than 5,000 ft² then a minimum of seven (7) samples are collected. For **TSI**, at least three (3) samples are collected from each homogeneous area with the following exceptions:

- One (1) sample will only be collected from a small section (less than six linear or square feet) of patched insulation,
- The number of samples taken from each area of insulating cement (mudded fittings such as fittings, tees, and valves) will be determined by the inspector. The current rule of thumb is generally accepted as three (3) samples, and
- Fibrous glass, foam glass, rubber and styrofoam are not considered suspect materials, unless they potentially cover up an asbestos containing material.

Miscellaneous and nonfriable materials are sampled in a manner sufficient as determined by the inspector. However, the recommended number of samples for these categories of materials is two (2).

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

Hazardous Materials

During June 2010, representatives of HzW performed a walkthrough of the subject properties to identify and quantify any hazardous materials. In addition, those materials not classified under law as hazardous but should, under sound risk management practice, be noted, were also identified and quantified.

Fluorescent light ballasts suspected of containing PCB oils were identified and subsequently documented. These oils were not tested; therefore, they were assumed to contain PCBs. All fluorescent light ballasts that could be visually observed were quantified and documented.

Fluorescent light bulbs including high intensity discharge (HID) lamps and batteries suspected of containing regulated metals (i.e., mercury), and any additional suspect mercury-containing equipment was also visually identified, quantified and documented throughout the subject properties. No testing of these materials was performed; therefore, they were assumed to contain regulated metals.

Refrigerants suspected of containing Freon (i.e., air conditioners, refrigerators, drinking fountains, etc.) were visually identified, quantified and documented throughout the subject building.

Containers of miscellaneous chemicals (such as paints, oils, etc.) identified throughout the properties were quantified and documented.

FINDINGS

A photographic log depicting various views of the subject properties has been compiled by HzW and is included as **Attachment 1**.

URS Phase II ESA Review & Visual Inspection for ASTs/USTs

URS collected soil and groundwater samples from the Canal Road property as part of Phase II ESA activities. According to the URS Phase II ESA, concentrations of certain polynuclear aromatic hydrocarbons (PAHs) in one (1) soil sample location (20-MW03-1012) exceeded Ohio EPA's Voluntary Action Program (VAP) Generic Direct Contact Soil Standards for commercial/industrial land use and/or the State of Ohio Bureau of Underground Storage Tank Regulations (BUSTR) Closure Action Levels. In addition, the URS Phase II ESA report states that the detected concentration of lead in one (1) soil sample (20-MW03-1012) exceeded VAP Generic Direct Contact Soil Standards for commercial/industrial land use and construction/excavation activities. However, the detected concentration of lead in the soil sample, 446 milligrams per kilogram (mg/kg), is below the VAP Generic Direct Contact Soil Standard for commercial/industrial land use (1,800 mg/kg) and construction/excavation activities (750 mg/kg). Therefore, the detected concentrations of lead do not exceed VAP Generic Direct Contact Soil Standards for commercial/industrial land use or construction/excavation activities.

According to the URS Phase II ESA, the detected concentrations of two (2) PAHs and lead in one (1) groundwater sample (20-MW03) exceeded VAP Generic Unrestricted Potable Use Standards and/or BUSTR Closure Action Levels.

Based on the findings of the visual inspection conducted in June 2010, HzW identified no ASTs or any evidence indicative of USTs at the subject properties.

Asbestos Survey

HzW completed an Asbestos Bulk Sampling Information form for each of the subject properties documenting the bulk sampling locations, each sample's characterization (homogeneous area and functional space), its AHERA category, the quantity and condition, and its asbestos content. The completed Asbestos Bulk Sampling Information form for each of the subject properties is included as **Attachment 2**. A copy of the laboratory analytical reports from IATL for the bulk samples collected at each of the subject properties is included as **Attachment 3**.

Based on the findings of the laboratory analytical report for the subject properties and HzW's visual inspection, the following asbestos-containing materials and assumed asbestos-containing materials were identified:

Scranton-Averill.

1. Approximately 600 square feet of 9-inch by 9-inch green floor tile located in the Front Office Area was identified as containing 10 percent asbestos. The associated mastic layer was identified as containing from 3.1 to 3.5 percent asbestos. The floor tile and mastic were considered to be in good condition.
2. Approximately 760 square feet of 9-inch by 9-inch brown floor tile and approximately 760 black floor tile (located beneath the 9-inch by 9-inch brown floor tile) located in the Front Office Area were both identified as containing 10 percent asbestos. The mastic layer associated with the 9-inch by 9-inch brown floor tile was identified as containing no asbestos. The floor tiles were considered to be in good condition.
3. Approximately 90 linear feet of pipe insulation located in the Front Office Area was identified as containing 60 percent asbestos. The pipe insulation was considered to be in fair condition.
4. Built-up roof decking and tarred roof flashing associated with the roof were **assumed** to contain asbestos. Approximately 1,500 square feet of roof decking and 570 square feet of tarred roof flashing were identified and considered to be in good condition.
5. Approximately 76 square feet (17 Windows) of window glazing was identified as containing from 1.2 to 1.3 percent asbestos. The glazing was considered to be in good condition.
6. Approximately 48 square feet of 12-inch by 12-inch brown floor tile with tan and black specks located in the High Bay Warehouse Area was identified as containing from 4.2 to 5.1 percent asbestos. The associated mastic layer was identified as containing from 3.1 to 3.2 percent asbestos. The floor tile and mastic were considered to be in good condition.
7. Approximately 84 square feet of 9-inch by 9-inch gray floor tile located in the High Bay Warehouse Area was identified as containing 10 percent asbestos. The associated mastic layer was identified as containing 2.1 percent asbestos. The floor tile and mastic were considered to be in good condition.
8. Built-up roof decking and tarred roof flashing associated with the High Bay Warehouse roof were **assumed** to contain asbestos. Approximately 12,375 square feet of roof decking and 1,440 square feet of tarred roof flashing were identified and considered to be in good condition.
9. Built-up roof decking and tarred roof flashing associated with the Back Warehouse Area's roof were **assumed** to contain asbestos. Approximately 6,375 square feet of roof decking and 960 square feet of tarred roof flashing were identified and considered to be in good condition.

Canal Road

1. Built-up roof decking and tarred roof flashing associated with the 1970 South Addition's roof were **assumed** to contain asbestos. Approximately 9,000 square feet of roof decking and 1,872 square feet of tarred roof flashing were identified and considered to be in good condition.
2. Approximately 5,342 square feet of transite ceiling located on the first floor of the 1940's Original Construction and 1950's Construction was identified as containing 30 percent asbestos. The transite ceiling was considered to be in good condition. *It should be noted that HzW assumed this material was located above the ceiling of two coolers located in the 1940's Original Construction and above the ceiling in the 1950's Construction.*

3. Approximately 1,549 square feet of 9-inch by 9-inch light gray floor tile located on the second floor of the 1940's Original Construction was identified as containing from 2.1 to 2.3 percent asbestos. The associated mastic layer was identified as containing no asbestos. The floor tile was considered to be in poor condition.
4. Approximately 667 square feet of 9-inch by 9-inch dark brown floor tile, 9-inch by 9-inch medium brown floor tile and 9-inch by 9-inch light brown floor tile located on the second floor of the 1940's Original Construction was identified as containing from 2.8 to 4.1 percent asbestos. The associated mastic layer was identified as containing no asbestos. The floor tiles were considered to be in poor condition.
5. Approximately 744 square feet of paneling adhesive located on the second floor of the 1940's Original Construction was identified as containing from 1.2 to 2.5 percent asbestos. The adhesive was considered to be in good condition.
6. Approximately 80 square feet of 12-inch by 12-inch reddish brown floor tile located on the second floor of the 1940's Original Construction was identified as containing 5.2 percent asbestos. The associated mastic layer was identified as containing no asbestos. The floor tile was considered to be in good condition.
7. Approximately 252 square feet of 9-inch by 9-inch light green with green streaks floor tile located on the second floor of the 1940's Original Construction was identified as containing 3.8 percent asbestos. The associated mastic layer was identified as containing 1.5 percent asbestos. The floor tile and mastic were considered to be in good condition.
8. Approximately 152 square feet of white stone patterned floor sheeting and white square patterned floor sheeting located on the second floor of the 1940's Original Construction was identified as containing 35 percent asbestos. The floor sheetings were considered to be in good condition.
9. Approximately 72 square feet of transite flue pipe located on the second floor of the 1940's Original Construction was identified as containing 30 percent asbestos. The transite flue pipe was considered to be in good condition.
10. Approximately 1,800 square feet of brown floor covering mastic located in the basement of the 1940's Original Construction was identified as containing 1.4 percent asbestos. The floor covering was identified as containing no asbestos. The brown floor covering mastic was considered to be in good condition.
11. Approximately 8 square feet of transite located in the basement of the 1940's Original Construction was assumed to contain asbestos. The transite was considered to be in good condition.
12. Built-up roof decking and tarred roof flashing associated with the 1940's Original Construction and 1950's Construction roofs were **assumed** to contain asbestos. Approximately 9,060 square feet of roof decking and 1,998 square feet of tarred roof flashing were identified and considered to be in good condition.

It should be noted that the following building materials located at the subject properties were identified as containing less than one (1) percent asbestos:

Scranton-Averill

- Mastic associated with the black 4-inch Cove Base located in the High Bay Warehouse Area.

Canal Road

- Wall cement on tar and cork located in a first floor cooler of the 1940's Original Construction.
- Felt paper located underneath the 9-inch by 9-inch, dark brown, medium brown and light brown floor tile on the second floor of the 1940's Original Construction.

In addition, it should be noted that demolition of the ceilings and walls of the buildings located on the subject properties may reveal additional suspect asbestos-containing materials.

Hazardous Materials Survey

The findings from the hazardous materials survey for the buildings located on the subject properties are outlined in the table, below.

Property	PCBs Containing Equipment: 1) Fluorescent light ballasts 2) Transformers	Heavy Metal Containing Equipment: 1) Fluorescent light lamps (mercury-containing) 2) High Intensity Discharge Lamps 3) Thermostats (mercury-containing) 4) Batteries in Emergency Lighting/Signs	Freon Containing Equipment: 1) Drinking Fountain 2) Coolers or Refrigerators, Air Conditioners	Any other Hazardous or Regulated Material: 1) Fire Extinguishers 2) Misc. Chemicals/ Materials
Scranton Averill	1) 43	1) 83 2) 22 4) 6	1) 1	2) Hydraulic oil associated with the two loading dock levelers;
Canal Road	1) 109	1) 240 4) 4	2) Air-conditioning equipment throughout the building; 1 refrigerant tank	1) 4 2) 4 5-gal contains of paint, used oil, one tank of ammonia, 1-gal splicing cement, 1 5-gal aquacade-A10, 1 5-gal compressor oil, 1 5-gal oil, cans of metal primer, paint, glazing compound, varnish, de-icer, oil, lard oil, hand cleaner, Lysol, Draino, comet, Chlorox; 4 1-gal and 1 5-gal Scale Dissolver, refrigeration oils, motor oil, 1-bag floor adsorbents, 1-bag oil and grease adsorbents; bags of cements and unlabeled bags, used tires.

DISCUSSION

Asbestos Survey

The Occupational Safety and Health Administration's (OSHA's) Asbestos Standard for the Construction Industry (29 CFR 1926.1101) **regulates** all renovation and demolition work involving building materials which contain any amount of asbestos. The amount of asbestos identified in a building material would determine which applicable sections of OSHA's Asbestos Standard must be implemented.

Building owners and/or contractors who perform renovation and/or demolition activities which disturb building materials identified as containing less than or equal to one (1) percent asbestos are only required to be in compliance with paragraphs (g)(1), (g)(2) and (g)(3) of the Standard. These paragraphs describe the required engineering and work practice controls that must be implemented when building materials containing less than one (1) percent asbestos are disturbed. A brief description of these paragraphs is included in **Attachment 4**. Building owners and/or contractors who perform renovation and/or demolition activities which disturb building materials identified as containing greater than one (1) percent asbestos, are required to be in compliance with all applicable sections of the Standard.

Unlike OSHA, the EPA under NESHAP regulates all renovation and demolition work involving building materials identified as containing greater than one (1) percent asbestos. Unlike OSHA, NESHAP regulates which ACMs must be removed prior to renovation and demolition activities being performed. The EPA defines three (3) classifications of building materials: regulated ACM (RACM), Category I Nonfriable ACM and Category II Nonfriable ACM. A regulated ACM is defined as 1) a friable asbestos material, 2) a Category I Nonfriable ACM that has become friable, 3) a Category I Nonfriable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or 4) a Category II Nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of the demolition or renovation activities. A Category I Nonfriable ACM is defined as asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 percent asbestos as determined using Polarized Light Microscopy (PLM) analysis. A Category II nonfriable ACM is defined as any material, excluding Category I nonfriable ACMs, containing more than 1 percent asbestos as determined using PLM analysis. All RACMs are **regulated** by NESHAP as long as their quantities meet or exceed 160 square feet or 260 linear feet.

Since the most stringent regulation typically takes precedent, HzW's recommendations outlined below are presented in order of recommended compliance (OSHA, EPA, ODH regulations).

RECOMMENDATIONS

Review of URS Phase II ESA & Visual Inspection for ASTs/USTs

Based on the findings of the URS Phase II ESA and visual inspection for ASTs/USTs, no ASTs or USTs were identified at the subject properties. In addition, based upon constituents of concern detected in soil and groundwater samples in excess of BUSTR's Closure Action Levels and/or the Ohio EPA's VAP Generic Direct Contact Soil Standards or Generic Unrestricted Potable Use Standards, a plan note should be included in construction documents. The plan note should address the proper handling, management and/or disposal of impacted soils and groundwater in accordance with all applicable laws and regulations should they be encountered during demolition and/or construction activities. Further, based upon the detected concentrations of lead in soil, a plan note should be prepared to properly characterize, manage and dispose of impacted soils in accordance with all applicable laws and regulations should the soils be excavated and disposed of during demolition and/or construction activities.

Asbestos Survey

Based on the findings of the asbestos survey and OSHA, ODH and NESHAP regulations, the following recommendations are presented for consideration:

1. Notify any outside contractor(s), prior to them working at the buildings located at the subject properties, of the presence of any building materials identified as containing or assumed to contain asbestos.

Contractors disturbing building materials identified as containing less than or equal to one (1) percent asbestos would be required to conduct their activities in accordance with sections (g)(1), (g)(2) and (g)(3) of the OSHA Asbestos Standard for the Construction Industry. Contractors disturbing the building materials identified as containing greater than one (1) percent would be required to conduct their activities in accordance with all applicable sections of OSHA's Asbestos Standard for the Construction Industry as well as applicable EPA NESHAP and ODH regulations.

2. Contract with an asbestos abatement contractor licensed in the State of Ohio to abate the asbestos-containing materials highlighted in "red" on HzW's Asbestos Bulk Sampling Information forms. If the assumed nonfriable asbestos-containing materials identified in good condition, become friable as a result of the demolition activities, then these materials are required to be abated prior to the demolition activities being performed. In addition, if any of the building materials located at the subject properties are to be recycled (i.e., concrete) and they were identified during the asbestos survey as being covered with an asbestos-containing material, then in order for these materials to be recycled, the asbestos-containing material must be abated first.
3. Submit the Ohio Environmental Protection Agency (OEPA), "Notification of Demolition and Renovation" form to the OEPA ten (10) days prior to renovation activities which will involve the disturbance of 160 square feet or 260 linear feet of RACM and ten (10) days prior to any demolition activities. HzW has completed the OEPA Notification of Demolition and Renovation form for each of the subject buildings and has included these forms in **Attachment 5**.
4. 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 (50) linear feet or fifty (50) 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 NESHAP is on-site during the demolition activities. This individual would need to be certified by the ODH as an Asbestos Hazard Evaluation Specialist.
6. Prior to demolition of the buildings located at the subject properties, notify the demolition contractor of the nonfriable ACMs and assumed asbestos-containing materials, as well as the building materials identified as containing less than 1 percent asbestos that are to remain in the subject building during the demolition activities. The demolition contractor is required to conduct the demolition activities in accordance with all applicable sections of OSHA's Asbestos Standard as well as applicable EPA NESHAP and ODH regulations. All demolition work must be performed using wet methods.

Hazardous Materials Survey


Based on the findings of the hazardous materials survey, the recommendations outlined below are presented for consideration:


1. All PCB-containing light ballasts shall be handled and disposed of in accordance with the Toxic Substance Control Act (TSCA) regulations.
2. All batteries should be handled and disposed of or recycled in accordance with OAC 3745-273.
3. All regulated refrigerants (i.e. Freon) should be handled, characterized and disposed of or recycled in accordance with 40 CFR 82.
4. All fire extinguishers should be handled in accordance with OSHA's Liquefied Petroleum Gas Standard (29 CFR 1926.153).
5. Any other hazardous or regulated material identified in the "Any other Hazardous or Regulated Materials" column should be handled and disposed of properly prior to demolition activities being performed.

HZW appreciates the opportunity you have given us to provide professional consulting services on this project. Should you have any questions regarding the information presented above, please do not hesitate to contact us.

Sincerely,

HZW ENVIRONMENTAL CONSULTANTS, LLC


Matthew P. Fergus
Field Technician


Joan A. Sablar
Senior Industrial Hygienist

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Attachments (5)
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ATTACHMENT 1

PHOTOGRAPHIC LOG





Photograph 01

Aerial View of the Scranton-Averill Property
Located at 1515 Fairfield Road, Cleveland, Ohio



Photograph 02

View Looking Southwest at the North Side of the Scranton-Averill Building
Located at 1515 Fairfield Road, Cleveland, Ohio



Photograph 03

Aerial View of the Canal Road Property
Located at 2394 Canal Road, Cleveland, Ohio



Photograph 04

View Looking Northwest at the North Side of the Canal Road Property
Located at 2394 Canal Road, Cleveland, Ohio





Photograph 05

View Looking East at the Northwest Side of the Canal Road Property
Located at 2394 Canal Road, Cleveland, Ohio



Photograph 06

View Looking West at the South and West Side of the Canal Road Property
Located at 2394 Canal Road, Cleveland, Ohio





Photograph 07

View Looking South at the North Side of the Canal Road Property
Located at 2394 Canal Road, Cleveland, Ohio



Photograph 08

View Looking Northwest at the South Side of the Canal Road Property
Located at 2394 Canal Road, Cleveland, Ohio





Photograph 9

View Looking West at the East Side of the Canal Road Property
Located at 2394 Canal Road, Cleveland, Ohio



Photograph 10

Interior View of the First Floor of the Original Building Construction of the Canal Road Property
Located at 2394 Canal Road, Cleveland, Ohio



Photograph 11

Interior View of the Second Floor of the Original Building Construction of the Canal Road Property
Located at 2394 Canal Road, Cleveland, Ohio



ATTACHMENT 2

ASBESTOS BULK SAMPLING INFORMATION FORMS



ODOT District 12
Asbestos Survey – Scranton-Averill, 1515 Fairfield, Cleveland, Ohio
HZW Environmental Consultants, LLC – Project No. H10002-14

Asbestos Bulk Sampling Information Form

ID#	IDENTIFICATION		MATERIAL CHARACTERIZATION		AHERA CATEGORY			QUANTITY & CONDITION			POTENTIAL FOR DISTURBANCE			RESULT	
	LOCATION		HOMOGENEOUS AREA	FUNCTIONAL SPACE	SUR.	TSI	MISC. F/NF	GOOD	FAIR	POOR	HIGH	MOD.	LOW	% ASBESTOS	
01	Scranton Averill		Ceiling Tile – 12-inch by 12-inch Solid	Front Office Area											ND
02	"		Ceiling Tile – 12-inch by 12-inch Solid	Front Office Area											ND
03	"		Ceiling Tile – 12-inch by 12-inch Solid	Front Office Area											ND
04	"		Ceiling Tile – 12-inch by 12-inch with Holes	Front Office Area											ND
05	"		Ceiling Tile – 12-inch by 12-inch with Holes	Front Office Area											ND
06	"		Ceiling Tile – 12-inch by 12-inch with Holes	Front Office Area											ND
07	"		Drywall System	Front Office Area											ND
08	"		Drywall System	Front Office Area											ND
09	"		Drywall System	Front Office Area											ND
10	"		Drywall System	Front Office Area											ND
11	"		Drywall System	Front Office Area											ND
12	"		Floor tile – 9-inch by 9-inch, Green Mastic	Front Office Area			X	600 sq. ft.							10
13	"		Floor tile – 9-inch by 9-inch, Green Mastic	Front Office Area			X	"							3.5
14	"		Flooring Felt Paper	Front Office Area											10
15	"		Flooring Felt Paper	Front Office Area											3.1
16	"		Floor Tile – Black	Front Office Area			X	760 sq. ft.							ND
17	"		Floor Tile – Black	Front Office Area			X	"							10

Red quantities indicate the asbestos-containing materials to be abated prior to demolition activities.
 ND – No Asbestos Detected

ODOT District 12
Asbestos Survey – Scranton-Averill, 1515 Fairfield, Cleveland, Ohio
HZW Environmental Consultants, LLC – Project No. H10002-14

Asbestos Bulk Sampling Information Form

IDENTIFICATION		MATERIAL CHARACTERIZATION			AHERA CATEGORY			QUANTITY & CONDITION				POTENTIAL FOR DISTURBANCE			RESULT
ID#	LOCATION	HOMOGENEOUS AREA	FUNCTIONAL SPACE	SUR	TSI	MISC. F/NF	GOOD	FAIR	POOR	HIGH	MOD.	LOW	%		ASBESTOS
18	Scranton Averill	Floor Tile – 9-inch by 9-inch, Brown Mastic	Front Office Area			X	760 sq.ft.							10	
19	"	Floor Tile – 9-inch by 9-inch, Brown Mastic	Front Office Area			X	"							ND	
20	"	Window Glazing	Front Office Area											10	
21	"	Window Glazing	Front Office Area											ND	
22	"	Window Glazing	Front Office Area											ND	
23	"	Pipe Insulation	Front Office Area		X			90 In.ft.						60	
24	"	Pipe Insulation	Front Office Area		X			"						60	
25	"	Pipe Insulation	Front Office Area		X			"						60	
26	"	Wall Panel Adhesive	Front Office Area											ND	
27	"	Wall Panel Adhesive	Front Office Area											ND	
28	"	Drywall	Front Office Area											ND	
29	"	Drywall	Front Office Area											ND	
30	"	Drywall	Front Office Area											ND	
	"	Built-up Roof Decking	Front Office Area Roof			X	1,500 sq.ft.							Assumed	
	"	Tarred Roof Flashing	Front Office Area Roof			X	570 sq.ft.							Assumed	
31	"	Window Glazing	High Bay Warehouse Area			X	76 sq.ft.							1.3	
32	"	Window Glazing	High Bay Warehouse Area			X	"							1.2	
33	"	Window Glazing	High Bay Warehouse Area			X	"							1.2	

Red quantities indicate the asbestos-containing materials to be abated prior to demolition activities.
 ND – No Asbestos Detected

ODOT District 12
Asbestos Survey – Scranton-Averill, 1515 Fairfield, Cleveland, Ohio
HZW Environmental Consultants, LLC – Project No. H10002-14

Asbestos Bulk Sampling Information Form

ID#	IDENTIFICATION LOCATION	MATERIAL CHARACTERIZATION		AHERA CATEGORY			QUANTITY & CONDITION			POTENTIAL FOR DISTURBANCE			RESULT % ASBESTOS	
		HOMOGENEOUS AREA	FUNCTIONAL SPACE	SUR.	TSI	MISC. F/NF	GOOD	FAIR	POOR	HIGH	MOD.	LOW		
34	Scranton Averill	Ceiling Tile – 12-inch by 12-inch with Fissures Glue	High Bay Warehouse Area											ND
35	"	Ceiling Tile – 12-inch by 12-inch with Fissures Glue	High Bay Warehouse Area											ND
36	"	Ceiling Tile – 12-inch by 12-inch with Fissures Glue	High Bay Warehouse Area											ND
37	"	Floor Tile – 12-inch by 12-inch Brown with Tan and Black Specks Mastic	High Bay Warehouse Area						48 sq. ft.					5.1
38	"	Floor Tile – 12-inch by 12-inch Brown with Tan and Black Specks Mastic	High Bay Warehouse Area						"					3.1
39	"	Floor Tile – 9-inch by 9-inch, Gray Mastic	High Bay Warehouse Area						84 sq. ft.					4.2
40	"	Floor Tile – 9-inch by 9-inch, Gray Mastic	High Bay Warehouse Area						"					3.2
41	"	Cove Base – 4-inch, Brown	High Bay Warehouse Area						"					10
42	"	Cove Base – 4-inch, Brown Mastic	High Bay Warehouse Area						"					2.1
43	"	Cove Base – 4-inch, Black Mastic	High Bay Warehouse Area						"					10
44	"	Cove Base – 4-inch, Black Mastic	High Bay Warehouse Area						"					ND
														ND
														Tracc
														ND
														ND
														ND
														ND

Red quantities indicate the asbestos-containing materials to be abated prior to demolition activities.
 ND – No Asbestos Detected

ODOT District 12
Asbestos Survey – Scranton-Averill, 1515 Fairfield, Cleveland, Ohio
HZW Environmental Consultants, LLC – Project No. H10002-14
Asbestos Bulk Sampling Information Form

IDENTIFICATION		MATERIAL CHARACTERIZATION		AHERA CATEGORY			QUANTITY & CONDITION			POTENTIAL FOR DISTURBANCE			RESULT
ID#	LOCATION	HOMOGENEOUS AREA	FUNCTIONAL SPACE	SUR.	TSI	MISC. F/NF	GOOD	FAIR	POOR	HIGH	MOD.	LOW	% ASBESTOS
45	Scranton Averill	Wall Panel Adhesive	High Bay Warehouse Area										ND
46	"	Wall Panel Adhesive	High Bay Warehouse Area										ND
47	"	Drywall	High Bay Warehouse Area										ND
48	"	Drywall	High Bay Warehouse Area										ND
49	"	Drywall	High Bay Warehouse Area										ND
50	"	Drywall System	High Bay Warehouse Area										ND
51	"	Drywall System	High Bay Warehouse Area										ND
52	"	Drywall System	High Bay Warehouse Area										ND
	"	Built-up Roof Decking	High Bay Warehouse Area Roof			X	12,375 sq.ft.						Assumed
	"	Tarred Roof Flashing	High Bay Warehouse Area Roof			X	1,440 sq.ft.						Assumed
53	"	Floor Walkway Coating	Back Warehouse Area										ND
54	"	Floor Walkway Coating	Back Warehouse Area										ND
55	"	Window Glazing	Back Warehouse Area										ND
56	"	Window Glazing	Back Warehouse Area										ND
57	"	Window Glazing	Back Warehouse Area										ND
	"	Built-up Roof Decking	Back Warehouse Area Roof			X	6,375 sq.ft.						Assumed
	"	Tarred Roof Flashing	Back Warehouse Area Roof			X	960 sq.ft.						Assumed

Red quantities indicate the asbestos-containing materials to be abated prior to demolition activities.
 ND – No Asbestos Detected

ODOT District 12
Asbestos Survey – Canal Road, 2394 Canal Road, Cleveland, Ohio
H2W Environmental Consultants, LLC – Project No. H10002-14

Asbestos Bulk Sampling Information Form

ID#	IDENTIFICATION		MATERIAL CHARACTERIZATION		AHERA CATEGORY			QUANTITY & CONDITION				POTENTIAL FOR DISTURBANCE			RESULT	
	LOCATION		HOMOGENEOUS AREA	FUNCTIONAL SPACE	SUR.	TSI	MISC F/NF	GOOD	FAIR	POOR	HIGH	MOD	LOW	% ASBESTOS		
01	Canal Road		Sink Bottom Coating - White	1970 South Addition											ND	
02	"		Sink Bottom Coating - White	1970 South Addition											ND	
03	"		Sink Bottom Coating - White	1970 South Addition											ND	
	"		Built Up Roof Decking	1970 South Addition Roof			X	9,000 sq. ft.							Assumed	
	"		Tarred Roof Flashing	1970 South Addition Roof			X	1,872 sq. ft.							Assumed	
04	"		Transite Ceiling	1940 Original Construction & 1950 Construction – First Floor			X	5,342 sq. ft.							30	
05	"		Transite Ceiling	1940 Original Construction & 1950 Construction – First Floor			X	"							30	
06	"		Wall Cement on Tar & Cork	1940 Original Construction – First Floor											ND 0.75	
07	"		Wall Cement on Tar & Cork	1940 Original Construction – First Floor											ND 0.5	
08	"		Wall Cement on Tar & Cork	1940 Original Construction – First Floor											ND 0.75	
09	"		Ceiling Plaster on Tar & Cork	1940 Original Construction – First Floor											ND ND	
10	"		Ceiling Plaster on Tar & Cork	1940 Original Construction – First Floor											ND ND	
11	"		Ceiling Plaster on Tar & Cork	1940 Original Construction – First Floor											ND ND	

Red quantities indicate the asbestos-containing materials to be abated prior to demolition activities.
 ND – No Asbestos Detected

ODOT District 12
Asbestos Survey – Canal Road, 2394 Canal Road, Cleveland, Ohio
HZW Environmental Consultants, LLC – Project No. H10002-14

Asbestos Bulk Sampling Information Form

IDENTIFICATION		MATERIAL CHARACTERIZATION		AHERA CATEGORY			QUANTITY & CONDITION			POTENTIAL FOR DISTURBANCE			RESULT
ID#	LOCATION	HOMOGENEOUS AREA	FUNCTIONAL SPACE	SUR.	TSI	MISC. F/NF	GOOD	FAIR	POOR	HIGH	MOD.	LOW	% ASBESTOS
12	Canal Road	Ceiling Plaster on Tar & Cork	1940 Original Construction – First Floor										ND
13	"	Ceiling Plaster on Tar & Cork	1940 Original Construction – First Floor										ND
14	"	Red Concrete Floor Coating	1940 Original Construction – First Floor										ND
15	"	Red Concrete Floor Coating	1940 Original Construction – First Floor										ND
16	"	Red Concrete Floor Coating	1940 Original Construction – First Floor										ND
17	"	Stair Tread & Riser Covering	1940 Original Construction – Second Floor										ND
18	"	Stair Tread & Riser Covering	1940 Original Construction – Second Floor										ND
19	"	Cove Base – 4-inch Black Mastic	1940 Original Construction – Second Floor										ND
20	"	Cove Base – 4-inch Black Mastic	1940 Original Construction – Second Floor										ND
21	"	Ceiling Tile – 12-inch by 12-inch with Large Holes	1940 Original Construction – Second Floor										ND
22	"	Ceiling Tile – 12-inch by 12-inch with Large Holes	1940 Original Construction – Second Floor										ND
23	"	Ceiling Tile – 12-inch by 12-inch with Large Holes	1940 Original Construction – Second Floor										ND

Red quantities indicate the asbestos-containing materials to be abated prior to demolition activities.
 ND – No Asbestos Detected

ODOT District 12
Asbestos Survey – Canal Road, 2394 Canal Road, Cleveland, Ohio
H2W Environmental Consultants, LLC – Project No. H10002-14

Asbestos Bulk Sampling Information Form

ID#	IDENTIFICATION LOCATION	MATERIAL CHARACTERIZATION		AHERA CATEGORY			QUANTITY & CONDITION				POTENTIAL FOR DISTURBANCE			RESULT % ASBESTOS
		HOMOGENEOUS AREA	FUNCTIONAL SPACE	SUR.	TSI	MISC. F/NF	GOOD	FAIR	POOR	HIGH	MOD.	LOW		
24	Canal Road	Floor Tile – 9-inch by 9-inch, Light Gray Mastic	1940 Original Construction – Second Floor			X								2.3
25	"	Floor Tile – 9-inch by 9-inch, Light Gray Mastic	1940 Original Construction – Second Floor			X								ND
26	"	Floor Tile – 9-inch by 9-inch, Dark Brown Mastic	1940 Original Construction – Second Floor			X								2.1
27	"	Floor Tile – 9-inch by 9-inch, Dark Brown Mastic	1940 Original Construction – Second Floor			X								ND
28	"	Floor Tile – 9-inch by 9-inch, Medium Brown Mastic	1940 Original Construction – Second Floor			X								3.1
29	"	Floor Tile – 9-inch by 9-inch, Medium Brown Mastic	1940 Original Construction – Second Floor			X								ND
30	"	Floor Tile – 9-inch by 9-inch, Light Brown Mastic	1940 Original Construction – Second Floor			X								4.1
31	"	Floor Tile – 9-inch by 9-inch, Light Brown Mastic	1940 Original Construction – Second Floor			X								ND
32	"	Felt Paper Underneath Floor Tile	1940 Original Construction – Second Floor			X								3.5
33	"	Felt Paper Underneath Floor Tile	1940 Original Construction – Second Floor			X								ND
34	"	Cove Base – 5-inch, Brown Mastic	1940 Original Construction – Second Floor											2.8
35	"	Cove Base – 5-inch, Brown Mastic	1940 Original Construction – Second Floor											ND

Red quantities indicate the asbestos-containing materials to be abated prior to demolition activities.
 ND – No Asbestos Detected

ODOT District 12
Asbestos Survey – Canal Road, 2394 Canal Road, Cleveland, Ohio
HZW Environmental Consultants, LLC – Project No. H10002-14

Asbestos Bulk Sampling Information Form

ID#	IDENTIFICATION LOCATION	MATERIAL CHARACTERIZATION		AHERA CATEGORY			QUANTITY & CONDITION			POTENTIAL FOR DISTURBANCE			RESULT	
		HOMOGENEOUS AREA	FUNCTIONAL SPACE	SUR.	TSI	MISC. F/NF	GOOD	FAIR	POOR	HIGH	MOD.	LOW	% ASBESTOS	
36	Canal Road	Drywall Ceiling	1940 Original Construction – Second Floor											ND
37	“	Drywall Ceiling	1940 Original Construction – Second Floor											ND
38	“	Drywall Ceiling	1940 Original Construction – Second Floor											ND
39	“	Drywall Ceiling	1940 Original Construction – Second Floor											ND
40	“	Drywall Ceiling	1940 Original Construction – Second Floor											ND
41	“	Adhesive - Black	1940 Original Construction – Second Floor			X				744 sq.ft.				1.2
42	“	Adhesive - Black	1940 Original Construction – Second Floor			X				“				2.5
43	“	Floor Tile – 12-inch by 12-inch, Reddish Brown with Specks Mastic	1940 Original Construction – Second Floor			X				80 sq.ft.				5.2
44	“	Floor Tile – 12-inch by 12-inch, Reddish Brown with Specks Mastic	1940 Original Construction – Second Floor			X				“				ND
45	“	Floor Tile – 9-inch by 9-inch, Light Green with Green Streaks Mastic	1940 Original Construction – Second Floor			X				252 sq.ft.				3.8
46	“	Floor Tile – 9-inch by 9-inch, Light Green with Green Streaks Mastic	1940 Original Construction – Second Floor			X				“				1.5

Red quantities indicate the asbestos-containing materials to be abated prior to demolition activities.
 ND – No Asbestos Detected

ODOT District 12
Asbestos Survey – Canal Road, 2394 Canal Road, Cleveland, Ohio
HzW Environmental Consultants, LLC – Project No. H10002-14

Asbestos Bulk Sampling Information Form

IDENTIFICATION		MATERIAL CHARACTERIZATION		AHERA CATEGORY			QUANTITY & CONDITION				POTENTIAL FOR DISTURBANCE			RESULT
ID#	LOCATION	HOMOGENEOUS AREA	FUNCTIONAL SPACE	SUR.	TSI	MISC. F/NF	GOOD	FAIR	POOR	HIGH	MOD.	LOW	% ASBESTOS	
47	Canal Road	Floor Sheeting – Off White Stone Pattern	1940 Original Construction – Second Floor			X	152 sq.ft.						35	
48	“	Floor Sheeting – Off White Stone Pattern	1940 Original Construction – Second Floor			X	“						NA	
49	“	Floor Sheeting – White Square Pattern	1940 Original Construction – Second Floor			X	“						35	
50	“	Floor Sheeting – White Square Pattern	1940 Original Construction – Second Floor			X	“						NA	
51	“	Drywall System	1940 Original Construction – Second Floor										ND ND	
52	“	Drywall System	1940 Original Construction – Second Floor										ND ND ND	
53	“	Drywall System	1940 Original Construction – Second Floor										ND ND	
54	“	Textured Drywall Ceiling	1940 Original Construction – Second Floor										ND ND	
55	“	Textured Drywall Ceiling	1940 Original Construction – Second Floor										ND ND	
56	“	Textured Drywall Ceiling	1940 Original Construction – Second Floor										ND ND	
57	“	Transite Flue	1940 Original Construction – Second Floor			X	72 sq.ft.						30	
58	“	Transite Flue	1940 Original Construction – Second Floor			X	“						NA	

Red quantities indicate the asbestos-containing materials to be abated prior to demolition activities.
 ND – No Asbestos Detected

**ODOT District 12
Asbestos Survey – Canal Road, 2394 Canal Road, Cleveland, Ohio
HzW Environmental Consultants, LLC – Project No. H10002-14**

Asbestos Bulk Sampling Information Form

IDENTIFICATION		MATERIAL CHARACTERIZATION		AHERA CATEGORY			QUANTITY & CONDITION			POTENTIAL FOR DISTURBANCE			RESULT
ID#	LOCATION	HOMOGENEOUS AREA	FUNCTIONAL SPACE	SUR	TSI	MISC. F/NF	GOOD	FAIR	POOR	HIGH	MOD.	LOW	% ASBESTOS
59	Canal Road	Ceiling Tile – 1-foot by 1-foot, Flat	1940 Original Construction – Second Floor										ND
60	"	Ceiling Tile – 1-foot by 1-foot, Flat	1940 Original Construction – Second Floor										ND
61	"	Ceiling Tile – 1-foot by 1-foot, Flat	1940 Original Construction – Second Floor										ND
62	"	Drywall	1940 Original Construction - Basement										ND
63	"	Drywall	1940 Original Construction - Basement										ND
64	"	Drywall	1940 Original Construction - Basement										ND
65	"	Floor Covering – Brown Mastic	1940 Original Construction - Basement			X	1,800 sq.ft.						ND
66	"	Floor Covering – Brown	1940 Original Construction - Basement			X	"						1.4 ND
67	"	Tar Coated Cork Pipe Insulation	1940 Original Construction - Basement										ND ND
68	"	Tar Coated Cork Pipe Insulation	1940 Original Construction - Basement										ND ND
69	"	Tar Coated Cork Pipe Insulation	1940 Original Construction - Basement										ND ND
70	"	Tar on Duct	1940 Original Construction - Basement										ND

Red quantities indicate the asbestos-containing materials to be abated prior to demolition activities.
ND – No Asbestos Detected

**ODOT District 12
Asbestos Survey – Canal Road, 2394 Canal Road, Cleveland, Ohio
HzW Environmental Consultants, LLC – Project No. H10002-14**

Asbestos Bulk Sampling Information Form

ID#	LOCATION	MATERIAL CHARACTERIZATION		AHERA CATEGORY			QUANTITY & CONDITION			POTENTIAL FOR DISTURBANCE			RESULT	
		HOMOGENEOUS AREA	FUNCTIONAL SPACE	SUR	TSI	MISC. F/NF	GOOD	FAIR	POOR	HIGH	MOD.	LOW		% ASBESTOS
71	Canal Road	Tar on Duct	1940 Original Construction - Basement											ND
72	"	Wood-like Insulation	1940 Original Construction - Basement											ND
73	"	Wood-like Insulation	1940 Original Construction - Basement											ND
74	"	Drywall	1940 Original Construction Sub Basement											ND
75	"	Drywall	1940 Original Construction Sub Basement											ND
76	"	Drywall	1940 Original Construction Sub Basement											ND
60A	"	Vibration Dampeners	1940 Original Construction Second Floor											ND
61A	"	Vibration Dampeners	1940 Original Construction Second Floor											ND
	"	Transite	Basement							8 sq. ft.				Assumed
	"	Built Up Roof Decking	1940 Original Construction & 1950 Addition Roof							9,060 sq. ft.				Assumed
	"	Tarred Flashing	1940 Original Construction & 1950 Addition Roof							1,998 sq. ft.				Assumed

Red quantities indicate the asbestos-containing materials to be abated prior to demolition activities.
ND – No Asbestos Detected

ATTACHMENT 3

LABORATORY ANALYTICAL REPORT FOR BULK SAMPLES COLLECTED

Scranton-Averill



**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: 6/14/2010
Project: ODOT Scranton Averell
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985932	Description / Location: Tan Ceiling Tile			
Client No.: 01				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

Lab No.: 3985933	Description / Location: Tan Ceiling Tile			
Client No.: 02				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

Lab No.: 3985934	Description / Location: Tan Ceiling Tile			
Client No.: 03				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

Lab No.: 3985935	Description / Location: Tan Ceiling Tile			
Client No.: 04				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: B. Faulseit

Approved By: _____

Date: 6/12/2010

Frank E. Ehrenfeld, III
Laboratory Director



CERTIFICATE OF ANALYSIS

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

Report Date: 6/14/2010
Project: ODOT Scranton Averell
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985936 **Description / Location:** Tan Ceiling Tile
Client No.: 05

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

Lab No.: 3985937 **Description / Location:** Tan Ceiling Tile
Client No.: 06

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

Lab No.: 3985938 **Description / Location:** White Joint Compound
Client No.: 07

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3985939 **Description / Location:** White Joint Compound
Client No.: 08

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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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

Date: 6/12/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/14/2010
Project: ODOT Scranton Averell
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985940 **Description / Location:** White Joint Compound
Client No.: 09

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3985941 **Description / Location:** White Joint Compound
Client No.: 10

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3985942 **Description / Location:** White Joint Compound
Client No.: 11

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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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

Date: 6/12/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/14/2010
Project: ODOT Scranton Averell
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985943	Description / Location: Green Floor Tile			
Client No.: 12				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	None Detected	None Detected	90

Lab No.: 3985943	Description / Location: Black Mastic			Layer No.: 2
Client No.: 12				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 3.5	Chrysotile	None Detected	None Detected	PC 96.5

Lab No.: 3985944	Description / Location: Green Floor Tile			
Client No.: 13				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	None Detected	None Detected	90

Lab No.: 3985944	Description / Location: Black Mastic			Layer No.: 2
Client No.: 13				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 3.1	Chrysotile	None Detected	None Detected	PC 96.9

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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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: 6/12/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/14/2010
Project: ODOT Scranton Averell
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985945 **Description / Location:** Black Tar Paper
Client No.: 14

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Cellulose	50

Lab No.: 3985946 **Description / Location:** Black Tar Paper
Client No.: 15

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Cellulose	50

Lab No.: 3985947 **Description / Location:** Black Floor Tile
Client No.: 16

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	None Detected	None Detected	90

Lab No.: 3985948 **Description / Location:** Black Floor Tile
Client No.: 17

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	None Detected	None Detected	90

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

Date: 6/12/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/14/2010
Project: ODOT Scranton Averell
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985949 **Description / Location:** Brown Floor Tile
Client No.: 18

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	None Detected	None Detected	90

Lab No.: 3985949 **Description / Location:** Black Mastic **Layer No.:** 2
Client No.: 18

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3985950 **Description / Location:** Brown Floor Tile
Client No.: 19

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	None Detected	None Detected	90

Lab No.: 3985950 **Description / Location:** Black Mastic **Layer No.:** 2
Client No.: 19

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

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

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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**Date:** 6/12/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/14/2010
Project: ODOT Scranton Averell
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985951 **Description / Location:** Tan Glazing
Client No.: 20

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3985952 **Description / Location:** Tan Glazing
Client No.: 21

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3985953 **Description / Location:** Tan Glazing
Client No.: 22

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3985954 **Description / Location:** Tan Wrap
Client No.: 23

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
80	Chrysotile	20	Cellulose	20

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

Date: 6/12/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/14/2010
Project: ODOT Scranton Averell
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985955	Description / Location: Tan Wrap			
Client No.: 24				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
60	Chrysotile	20	Cellulose	20

Lab No.: 3985956	Description / Location: Tan Wrap			
Client No.: 25				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
60	Chrysotile	20	Cellulose	20

Lab No.: 3985957	Description / Location: Tan Mastic			
Client No.: 26				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	3	Other	97

Lab No.: 3985958	Description / Location: Tan Mastic			
Client No.: 27				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	3	Other	97

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

Date: 6/12/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/14/2010
Project: ODOT Scranton AvercII
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985959 **Description / Location:** Tan Sheetrock
Client No.: 28

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 3985960 **Description / Location:** Tan Sheetrock
Client No.: 29

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 3985961 **Description / Location:** Tan Sheetrock
Client No.: 30

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 3985962 **Description / Location:** Tan Glazing
Client No.: 31

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.3	Chrysotile	None Detected	None Detected	PC 98.7

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. Faulseit

Date: 6/12/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/14/2010
Project: ODOT Scranton Averell
Project No.: HI0002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985963	Description / Location: Tan Glazing			
Client No.: 32				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.2	Chrysotile	None Detected	None Detected	PC 98.3

Lab No.: 3985964	Description / Location: Tan Glazing			
Client No.: 33				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.2	Chrysotile	None Detected	None Detected	PC 98.3

Lab No.: 3985965	Description / Location: Tan Ceiling Tile			
Client No.: 34				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	80	Fibrous Glass	20

Lab No.: 3985965	Description / Location: Brown Mastic			Layer No.: 2
Client No.: 34				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Other	98

NIST-NVLAP No. 10116S-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

Date: 6/12/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/14/2010
Project: ODOT Scranton Averell
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985966	Description / Location: Tan Ceiling Tile			
Client No.: 35				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	80	Fibrous Glass	20

Lab No.: 3985966	Description / Location: Brown Mastic			Layer No.: 2
Client No.: 35				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	3	Other	97

Lab No.: 3985967	Description / Location: Tan Ceiling Tile			
Client No.: 36				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	80	Fibrous Glass	20

Lab No.: 3985967	Description / Location: Brown Mastic			Layer No.: 2
Client No.: 36				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	3	Other	97

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

Date: 6/12/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/14/2010
Project: ODOT Scranton Averell
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985968 Description / Location: Tan Floor Tile
Client No.: 37

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.1	Chrysotile	None Detected	None Detected	PC 94.9

Lab No.: 3985968 Description / Location: Black Mastic Layer No.: 2
Client No.: 37

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

Lab No.: 3985969 Description / Location: Tan Floor Tile
Client No.: 38

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 4.2	Chrysotile	None Detected	None Detected	PC 95.8

Lab No.: 3985969 Description / Location: Black Mastic Layer No.: 2
Client No.: 38

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.2	Chrysotile	None Detected	None Detected	PC 96.8

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

Date: 6/12/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/14/2010
Project: ODOT Scranton Averell
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985970 **Description / Location:** Tan Floor Tile
Client No.: 39

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	None Detected	None Detected	90

Lab No.: 3985970 **Description / Location:** Black Mastic **Layer No.:** 2
Client No.: 39

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.1	Chrysotile	None Detected	None Detected	PC 97.9

Lab No.: 3985971 **Description / Location:** Tan Floor Tile
Client No.: 40

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	None Detected	None Detected	90

Lab No.: 3985972 **Description / Location:** Brown Cove Base
Client No.: 41

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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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

Date: 6/12/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/14/2010
Project: ODOT Scranton Averell
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985973 **Description / Location:** Brown Cove Base
Client No.: 42

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3985973 **Description / Location:** Black Mastic **Layer No.:** 2
Client No.: 42

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	3	Other	97

Lab No.: 3985974 **Description / Location:** Black Cove Base
Client No.: 43

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3985974 **Description / Location:** Tan Mastic **Layer No.:** 2
Client No.: 43

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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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

Date: 6/12/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/14/2010
Project: ODOT Scranton Averell
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985975 **Description / Location:** Black Cove Base
Client No.: 44

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3985975 **Description / Location:** Tan Mastic **Layer No.:** 2
Client No.: 44

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3985976 **Description / Location:** Tan Mastic
Client No.: 45

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Other	98

Lab No.: 3985977 **Description / Location:** Tan Mastic
Client No.: 46

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Other	98

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 quantization. (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: 6/12/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/14/2010
Project: ODOT Scranton Averell
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985978 Description / Location: Tan Sheetrock
Client No.: 47

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 3985979 Description / Location: Tan Sheetrock
Client No.: 48

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 3985980 Description / Location: Tan Sheetrock
Client No.: 49

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

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

Date: 6/12/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/14/2010
Project: ODOT Scranton Averell
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985981 **Description / Location:** Tan Sheetrock
Client No.: 50

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 3985981 **Description / Location:** White Joint Compound **Layer No.:** 2
Client No.: 50

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3985982 **Description / Location:** Tan Sheetrock
Client No.: 51

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 3985982 **Description / Location:** White Joint Compound **Layer No.:** 2
Client No.: 51

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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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

Date: 6/12/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/14/2010
Project: ODOT Scranton Averell
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985983 **Description / Location:** Tan Sheetrock
Client No.: 52

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 3985983 **Description / Location:** White Joint Compound **Layer No.:** 2
Client No.: 52

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3985984 **Description / Location:** Black Non Fibrous
Client No.: 53

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3985985 **Description / Location:** Black Non Fibrous
Client No.: 54

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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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

Date: 6/12/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/14/2010
Project: ODOT Scranton Averell
Project No.: HI0002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3985986 **Description / Location:** Tan Glazing
Client No.: 55

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3985987 **Description / Location:** Tan Glazing
Client No.: 56

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3985988 **Description / Location:** Tan Glazing
Client No.: 57

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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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. Fanlseit

Date: 6/12/2010



Chain of Custody / Sample Log Bulk Asbestos

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

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

Project Name: ODOT / SCRANTON AVENUE
Project No.: H10002-13

Client Sample ID:	IATL Sample ID:	Sample Description / Location	Notes
01	3985932	CT	
02	3985933		
03	3985934		
04	3985935	CT	
05	3985936		
06	3985937		
07	3985938		
08	3985939	Drywall system	
09	3985940		
10	3985941		
11	3985942		
12	3985943		
13	3985944	FT + MASTIK	
14	3985945		
15	3985946	FT + MASTIK	
16	3985947		
17	3985948	FT + MASTIK	
18	3985949		
19	3985950	Fluorog Fiber Paper	
20	3985951		
21	3985952	Window Glazing	
22	3985953		
23	3985954		
24	3985955	PIPE INSULATION	
25	3985956		
26	3985957		
27	3985958	ADHESIVE	
28	3985959		
		Drywall	

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Chain of Custody / Sample Log Bulk Asbestos

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

Client: H2W Environmental Consultants, LLC
6105 Heisley Road Mentor, Oh 44060

Project Name: SDI (SCRANTON AIRFIELD)
Project No.: 1410002-13

Client Sample ID:	IATL Sample ID:	Sample Description / Location	Notes
29	3985960	Dry wall	
30	3985961		
31	3985962	Window Glazing	
32	3985963		
33	3985964		
34	3985965		
35	3985966	CT + GLUE	
36	3985967		
37	3985968		
38	3985969	RT + MASTIC	
39	3985970		
40	3985971	RT + MASTIC	
41	3985972		
42	3985973	COVER BASE + MASTIC	
43	3985974		
44	3985975	COVER BASE + MASTIC	
45	3985976		
46	3985977	ADHESIVE	
47	3985978		
48	3985979	Dry wall	
49	3985980		
50	3985981	Dry wall systems	
51	3985982		
52	3985983		
53	3985984	FLOOR COATING	
54	3985985		
55	3985986		
56	3985987	Window glazing	

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Chain of Custody / Sample Log Bulk Asbestos

9000 Commerce Parkway
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Toll Free: 877 428-4285
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www.iatl.com

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

Project Name: ODOT (SCRANTON AVENUE)
Project No.: H10002-13

Client Sample ID:	iATL Sample ID:	Sample Description / Location	Notes
01		CT	
02			
03			
04		CT	
05			
06			
07		Drywall system	
08			
09			
10			
11			
12		FT + MASK	
13			
14		FT + MASK	
15			
16		FT + MASK	
17			
18		Fluorog Fluor Paper	
19			
20		Window Glazing	
21			
22			
23		PIPE EPOXY	
24			
25			
26		ADHESIVE	
27			
28		Drywall	

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Chain of Custody / Sample Log

Bulk Asbestos

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

Project Name: GDJ (SCRANTON AIRFIELD)
Project No.: 1+10002-13

Client Sample ID:	iATL Sample ID:	Sample Description / Location	Notes
29		Drywall	
30			
31		Window Glazing	
32			
33			
34		CT + GLOB	
35			
36			
37		PT + MASTIC	
38			
39		PT + MASTIC	
40			
41		COR BASE + MASTIC	
42			
43		COR BASE + MASTIC	
44			
45		ADHESIVE	
46			
47		Drywall	
48			
49			
50		Drywall system	
51			
52			
53		Floor coating	
54			
55		Window glazing	
56			

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Canal Road

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:	3994287	Description / Location:	White Insulation	
Client No.:	01		Sink Bottom Coating	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	85

Lab No.:	3994288	Description / Location:	White Insulation	
Client No.:	02		Sink Bottom Coating	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90

Lab No.:	3994289	Description / Location:	White Insulation	
Client No.:	03		Sink Bottom Coating	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	85

Lab No.:	3994290	Description / Location:	Grey Transit	
Client No.:	04		Ceiling	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
30	Chrysotile	None Detected	None Detected	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: L. Price

Approved By:

Date: 6/22/2010

Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994291	Description / Location: Grey Transit Ceiling			
Client No.: 05				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
30	Chrysotile	None Detected	None Detected	70

Lab No.: 3994292	Description / Location: Black/Brown Tar/Cork Wall			
Client No.: 06				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994292	Description / Location: White Cementitious Wall			Layer No.: 2
Client No.: 06				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 0.75	Chrysotile	None Detected	None Detected	PC 99.25

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/115

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 FLM due to resolution limitations of the optical microscope. Therefore, negative FLM 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. Price

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994293 Description / Location: Black/Brown Tar/Cork
Client No.: 07 Wall

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

Lab No.: 3994293 Description / Location: White Cementitious Layer No.: 2
Client No.: 07 Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.5	Chrysotile	None Detected	None Detected	PC 99.5

Lab No.: 3994294 Description / Location: Black/Brown Tar/Cork
Client No.: 08 Wall

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

Lab No.: 3994294 Description / Location: White Cementitious Layer No.: 2
Client No.: 08 Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.75	Chrysotile	None Detected	None Detected	PC 99.25

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 Sustained 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. Price

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994295	Description / Location: Black/Brown Tar/Cork Ceiling			
Client No.: 09				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994295	Description / Location: Grey Cementitious Ceiling			Layer No.: 2
Client No.: 09				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994296	Description / Location: Black/Brown Tar/Cork Ceiling			
Client No.: 10				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994296	Description / Location: Grey Cementitious Ceiling			Layer No.: 2
Client No.: 10				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101163-0

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. Price

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994297	Description / Location: Black/Brown Tar/Cork		
Client No.: 11	Ceiling		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			100

Lab No.: 3994297	Description / Location: Grey Cementitious		Layer No.: 2
Client No.: 11	Ceiling		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			100

Lab No.: 3994298	Description / Location: Black/Brown Tar/Cork		
Client No.: 12	Ceiling		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			100

Lab No.: 3994298	Description / Location: Grey Cementitious		Layer No.: 2
Client No.: 12	Ceiling		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

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. Price

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994299 **Description / Location:** Black/Brown Tar/Cork Ceiling
Client No.: 13

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994299 **Description / Location:** Grey Cementitious Ceiling **Layer No.:** 2
Client No.: 13

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994300 **Description / Location:** Red Cementitious
Client No.: 14

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994301 **Description / Location:** Red Cementitious
Client No.: 15

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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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 quantization. (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. Price

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994302 **Description / Location:** Red Cementitious
Client No.: 16

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994303 **Description / Location:** Green/Brown Floor Tile
Client No.: 17 Stair Tread

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	30	Cellulose	70

Lab No.: 3994303 **Description / Location:** Off-White Mastic
Client No.: 17 Stair Tread **Layer No.:** 2

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

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Analysis Method: EPA 600/R-93/115

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. Price

Date: 6/22/2010



CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994304	Description / Location: Green/Brown Floor Tile Stair Tread		
Client No.: 18			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	40	Cellulose
			<u>% Non-Fibrous Material</u> 60

Lab No.: 3994304	Description / Location: Off-White Mastic Stair Tread		Layer No.: 2
Client No.: 18			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u> 100

Lab No.: 3994305	Description / Location: Black Rubber Cove Base		
Client No.: 19			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u> 100

Lab No.: 3994305	Description / Location: Brown Mastic		Layer No.: 2
Client No.: 19			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u> 100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

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 regime. 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. Price

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994306 **Description / Location:** Black Rubber Cove Base
Client No.: 20

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994306 **Description / Location:** Brown Mastic **Layer No.:** 2
Client No.: 20

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994307 **Description / Location:** White/Brown Ceiling Tile
Client No.: 21

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	98	Cellulose	2

Lab No.: 3994308 **Description / Location:** White/Brown Ceiling Tile
Client No.: 22

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	95	Cellulose	5

NIST-NVLAP No. 101165-0

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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. Price

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994309 **Description / Location:** White/Brown Ceiling Tile
Client No.: 23

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	98	Cellulose	2

Lab No.: 3994310 **Description / Location:** Grey Floor Tile
Client No.: 24

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.3	Chrysotile	None Detected	None Detected	PC 97.7

Lab No.: 3994310 **Description / Location:** Black Mastic **Layer No.:** 2
Client No.: 24

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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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. Price

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994311 **Description / Location:** Grey Floor Tile
Client No.: 25

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.1	Chrysotile	None Detected	None Detected	PC 97.9

Lab No.: 3994311 **Description / Location:** Black Mastic **Layer No.:** 2
Client No.: 25

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994312 **Description / Location:** Brown Floor Tile
Client No.: 26

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 3.1	Chrysotile	None Detected	None Detected	PC 96.9

Lab No.: 3994312 **Description / Location:** Black Mastic **Layer No.:** 2
Client No.: 26

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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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. Price

Date: 6/22/2010



CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994313	Description / Location: Brown Floor Tile			
Client No.: 27				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 4.1	Chrysotile	None Detected	None Detected	PC 95.9

Lab No.: 3994313	Description / Location: Black Mastic			Layer No.: 2
Client No.: 27				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994314	Description / Location: Brown Floor Tile			
Client No.: 28				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 3.5	Chrysotile	None Detected	None Detected	PC 96.5

Lab No.: 3994314	Description / Location: Black Mastic			Layer No.: 2
Client No.: 28				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	3	Cellulose	97

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. Price

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994315	Description / Location: Brown Floor Tile			
Client No.: 29				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.8	Chrysotile	None Detected	None Detected	PC 97.2

Lab No.: 3994315	Description / Location: Black Mastic			Layer No.: 2
Client No.: 29				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Cellulose	98

Lab No.: 3994316	Description / Location: Brown Floor Tile			
Client No.: 30				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.5	Chrysotile	None Detected	None Detected	PC 97.5

Lab No.: 3994316	Description / Location: Black Mastic			Layer No.: 2
Client No.: 30				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	3	Cellulose	97

NIST-NVLAP No. 101165-0

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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. Price

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
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Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994317 **Description / Location:** Brown Floor Tile
Client No.: 31

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 3.1	None Detected	None Detected	None Detected	PC 96.9

Lab No.: 3994317 **Description / Location:** Black Mastic **Layer No.:** 2
Client No.: 31

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Cellulose	98

Lab No.: 3994318 **Description / Location:** Brown/Black Floor Tile/Backing
Client No.: 32

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	60	Cellulose	40

Lab No.: 3994319 **Description / Location:** Brown/Black Floor Tile/Backing
Client No.: 33

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	50	Cellulose	50

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NY-DOH No. 11021

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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. Price

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994320 Description / Location: Brown Rubber Cove Base
Client No.: 34

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

Lab No.: 3994320 Description / Location: Brown Mastic Layer No.: 2
Client No.: 34

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

Lab No.: 3994321 Description / Location: Brown Rubber Cove Base
Client No.: 35

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

Lab No.: 3994321 Description / Location: Tan/Brown Mastic Layer No.: 2
Client No.: 35

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

NIST-NVLAP No. 101165-0

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: L. Price

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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Mentor OH 44060

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994322 **Description / Location:** Brown/White Sheetrock
Client No.: 36

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	80
		5	Fibrous Glass	

Lab No.: 3994323 **Description / Location:** Brown/White Sheetrock
Client No.: 37

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	85
		5	Fibrous Glass	

Lab No.: 3994324 **Description / Location:** Brown/White Sheetrock
Client No.: 38

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	85
		5	Fibrous Glass	

Lab No.: 3994325 **Description / Location:** Brown/White Sheetrock
Client No.: 39

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	85
		5	Fibrous Glass	

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

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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. Price

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994326	Description / Location: Brown/White Sheetrock			
Client No.: 40				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	85
		5	Fibrous Glass	

Lab No.: 3994327	Description / Location: Black Mastic			
Client No.: 41				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.2	Chrysotile	None Detected	None Detected	PC 98.8

Lab No.: 3994328	Description / Location: Black Mastic			
Client No.: 42				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.5	Chrysotile	None Detected	None Detected	PC 97.5

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. Price

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994329	Description / Location: Pink Floor Tile			
Client No.: 43				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 5.2	Chrysotile	None Detected	None Detected	PC 94.8

Lab No.: 3994329	Description / Location: Tan Mastic			Layer No.: 2
Client No.: 43				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994330	Description / Location: Tan Mastic, A/W Floor Tile			
Client No.: 44				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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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: R. Caran

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994331	Description / Location: Green Floor Tile			
Client No.: 45				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 3.8	Chrysotile	None Detected	None Detected	PC 96.2

Lab No.: 3994331	Description / Location: Black Mastic			Layer No.: 2
Client No.: 45				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.5	Chrysotile	2	Cellulose	PC 96.5

Lab No.: 3994332	Description / Location: Sample Not Analyzed			
Client No.: 46				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 3994333	Description / Location: Green/Grey Vinyl Shcct Flooring			
Client No.: 47				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
35	Chrysotile	None Detected	None Detected	65

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 FLM due to resolution limitations of the optical microscope. Therefore, negative FLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: R. Caran

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994334 Description / Location: Sample Not Analyzed
Client No.: 48
% Asbestos Type % Non-Asbestos Fibrous Material Type % Non-Fibrous Material
Sample Not Analyzed Sample Not Analyzed

Lab No.: 3994335 Description / Location: Tan Vinyl Sheet Flooring
Client No.: 49
% Asbestos Type % Non-Asbestos Fibrous Material Type % Non-Fibrous Material
35 Chrysotile None Detected None Detected 65

Lab No.: 3994336 Description / Location: Sample Not Analyzed
Client No.: 50
% Asbestos Type % Non-Asbestos Fibrous Material Type % Non-Fibrous Material
Sample Not Analyzed Sample Not Analyzed

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

Comment: (FC) Indicates Scrambled Point Count Method performed. Method not performed unless stated. Quantification at $\leq 0.25\%$ 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: R. Caran

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994337 Description / Location: White Sheetrock
Client No.: 51

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

Lab No.: 3994337 Description / Location: Off-White Joint Compound Layer No.: 2
Client No.: 51

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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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: R. Caran

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994338 **Description / Location:** White Sheetrock
Client No.: 52

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

Lab No.: 3994338 **Description / Location:** Off-White Joint Compound **Layer No.:** 2
Client No.: 52

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994338 **Description / Location:** Off-White Joint Compound **Layer No.:** 3
Client No.: 52

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

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: R. Caran

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994339	Description / Location: White Sheetrock			
Client No.: 53				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

Lab No.: 3994339	Description / Location: Off-White Joint Compound			Layer No.: 2
Client No.: 53				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994340	Description / Location: White Sheetrock			
Client No.: 54				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

Lab No.: 3994340	Description / Location: White Joint Compound			Layer No.: 2
Client No.: 54				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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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: R. Caran

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994341 **Description / Location:** White Sheetrock
Client No.: 55

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

Lab No.: 3994341 **Description / Location:** White Joint Compound **Layer No.:** 2
Client No.: 55

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994342 **Description / Location:** White Sheetrock
Client No.: 56

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

Lab No.: 3994342 **Description / Location:** White Joint Compound **Layer No.:** 2
Client No.: 56

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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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 quantification. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: R. Caran

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994343 Description / Location: White Transit
Client No.: 57

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
15	Chrysotile	None Detected	None Detected	70
15	Crocidolite			

Lab No.: 3994344 Description / Location: Sample Not Analyzed
Client No.: 58

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 3994345 Description / Location: Brown Ceiling Tile
Client No.: 59

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

Lab No.: 3994346 Description / Location: Brown Ceiling Tile
Client No.: 60

% 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

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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: R. Caran

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: HI0002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994347 **Description / Location:** Brown Ceiling Tile
Client No.: 61

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

Lab No.: 3994348 **Description / Location:** White Sheetrock
Client No.: 62

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

Lab No.: 3994349 **Description / Location:** White Sheetrock
Client No.: 63

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

Lab No.: 3994350 **Description / Location:** White Sheetrock
Client No.: 64

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

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: R. Caran

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994351 Description / Location: Brown Floor Tile
Client No.: 65

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

Lab No.: 3994351 Description / Location: Brown Mastic Layer No.: 2
Client No.: 65

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.4	Chrysotile	None Detected	None Detected	PC 98.6

Lab No.: 3994352 Description / Location: Brown Floor Tile
Client No.: 66

% 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

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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: R. Caran

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994353 Description / Location: Black Tar
Client No.: 67 A/W Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994353 Description / Location: Brown Cork
Client No.: 67 A/W Pipe Layer No.: 2

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

Lab No.: 3994354 Description / Location: Black Tar
Client No.: 68 A/W Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994354 Description / Location: Brown Cork
Client No.: 68 A/W Pipe Layer No.: 2

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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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: R. Caran

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994355 Description / Location: Black Tar
Client No.: 69 A/W Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994355 Description / Location: Brown Cork Layer No.: 2
Client No.: 69 A/W Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

Lab No.: 3994356 Description / Location: Black Tar
Client No.: 70 On Duct

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3994357 Description / Location: Black Tar
Client No.: 71 On Duct

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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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: R. Caran

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994358 **Description / Location:** White Insulation
Client No.: 72

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Fibrous Glass	None Detected

Lab No.: 3994359 **Description / Location:** White Insulation
Client No.: 73

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Fibrous Glass	None Detected

Lab No.: 3994360 **Description / Location:** White Sheetrock
Client No.: 74

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

Lab No.: 3994361 **Description / Location:** White Sheetrock
Client No.: 75

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

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: R. Caran

Date: 6/22/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 6/22/2010
Project: ODOT-2394 Canal Rd
Project No.: H10002-13

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3994362 **Description / Location:** White Sheetrock
Client No.: 76

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

Lab No.: 3994363 **Description / Location:** Black Woven Fibers
Client No.: 60 Additional Sample Received

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	98	Cellulose	2

Lab No.: 3994364 **Description / Location:** Black Woven Fibers
Client No.: 61 Additional Sample Received

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	98	Cellulose	2

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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This report shall not be reproduced except in full, without written approval of this 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: R. Caran

Date: 6/22/2010



Chain of Custody / Sample Log Bulk Asbestos

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

Client: HZW Environmental Consultants, LLC
6105 Heisley Road
Mentor, Ohio 44060

Project Name: ODOT - 2394 Canal Rd
Project No.: H10002-13

Office Phone: 440-357-1260
Cell Phone: _____
FAX / Email 1: 440-357-1510

Contact 1: Joan Sablar
Contact 2: _____
FAX / Email 2: JSablar@hzwenv.com

Special Instructions: PO # 5353-10

Matrix:

Air Water
 Soil Paint
 Bulk Surface Dust / Wipe
 Other

Analysis Method:

PLM : Bulk Asbestos Building Materials EPA 600 / R 93-116

PLM : Point Counting
 PC : via ELAP 198.1
 PC : 400 Points
 PC : 800 Points *
 PC : other _____ Points *

PLM : Analyze Until Positive (Positive Stop)
 AUP : by Homogenous Area as Noted
 AUP : by Material Type as Noted

PLM : Non-Building Material *, **(Dust, Wipe, Tape, Soil)
 Soil or Vermiculite Analysis *, **

PLM : Gravimetric Reduction
 PLM : NOB via 198.6
 PLM : Friable via EPA 600 2.3
 If <1% by PLM, to TEM via 198.4 *
 If <1% by PLM, Hold for Instructions

PLM: Instructions for Multi-Layered Samples
 Analyze and Report All Separable Layers per EPA 600
 Report Composite for Drywall Systems per NESHAP
 Report All Layers and Composite Where Applicable
 Only Analyze and Report Specifically Noted Layer

* Additional charge and turnaround may be required. ** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory.

Turnaround Time: Preliminary Results Requested By... _____ Verbals FAX Email

date / time

10 Day
 5 Day
 3 Day
 2 Day
 1 Day*
 12 Hour**
 6 Hour**
 RUSH**

* End of next business day unless otherwise specified. ** Matrix Dependent. Please notify the lab before shipping.

Sample Numbers:

Client #(s): 01 - 76 iATL #(s): _____ Total: _____

(start) (end) (start) (end)

Please use your sample log to supply sampling information (ex. Volumes, areas, descriptions, locations, etc.) or download forms at iatl.com

Chain of Custody:

Relinquished (Name / Organization): _____	Date: <u>6-16-10</u> Time: <u>4pm</u>
Received (Name / iATL): _____	Date: _____ Time: _____
Sample Login (Name / iATL): <u>Joan Sablar</u>	Date: _____ Time: _____
Sample Prep (Name / iATL): _____	Date: _____ Time: _____
Analysis (Name(s) / iATL): <u>LSF 6-22-10</u>	Date: _____ Time: _____
QA/QC Review (Name / iATL): _____	Date: _____ Time: _____
Archived / Released: _____	Date: <u>JUN 17</u> Time: _____
QA/QC InterLAB Use: _____	Date: _____ Time: _____



Chain of Custody / Sample Log Bulk Asbestos

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

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

Project Name: ODOT
Project No.: H10002-13

Client Sample ID:	iATL Sample ID:	Sample Description / Location	Notes
01	3994287	Sink Bottom Coating	
02	3994288	"	
03	3994289	"	
04	3994290	Transite Ceiling	
05	3994291	"	
06	3994292	Wall cement	
07	3994293	"	
08	3994294	"	
09	3994295	Ceiling Plaster	
10	3994296	"	
11	3994297	"	
12	3994298	"	
13	3994299	"	
14	3994300	Red floor Coating	
15	3994301	"	
16	3994302	"	
17	3994303	Stair Tread	
18	3994304	"	
19	3994305	Cove Base	
20	3994306	"	
21	3994307	CT- Large Holes	
22	3994308	"	
23	3994309	"	
24	3994310	FT- Lt gray	
25	3994311	"	
26	3994312	FT- ^{DK} Brown	
27	3994313	"	
28	3994314	FT- med. Brown	

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

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

Project Name: ODOT
Project No.: 710002-13

Client Sample ID:	IATL Sample ID:	Sample Description / Location	Notes
29	3994315	"	<i>LS/P</i> <i>6-22-10</i> ↓
30	3994316	FT - Lt. Brown	
31	3994317	"	
32	3994318		
33	3994319		
34	3994320	Cove Base	
35	3994321	"	
36	3994322	Drywall	
37	3994323	"	
38	3994324	"	
39	3994325	"	
40	3994326	"	
41	3994327	Black Adhesive	
42	3994328	"	
43	3994329	FT - Red	
44	3994330	"	
45	3994331	FT - Lt. Green	
46	3994332	"	
47	3994333	FS - off white	
48	3994334	"	
49	3994335	FS - white	
50	3994336	"	
51	3994337	Drywall System	
52	3994338	"	
53	3994339	"	
54	3994340	Textured Drywall	
55	3994341	"	
56	3994342	"	

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

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

Project Name: ODOT
Project No.: H10002-13

Client Sample ID:	IATL Sample ID:	Sample Description / Location	Notes
57	3994343	CT - Flat	
58	3994344	"	
59	3994345	"	
60	3994346	Vibration Damper	
61	3994347	"	
62	3994348	"	
63	3994549	Drywall	
64	3994550	"	
65	3994351	"	
66	3994352	Floor covering	
67	3994353	"	
68	3994354	Tar coated cork pipe insulation	
69	3994355	"	
70	3994356	"	
71	3994357	Tar on duct	
72	3994358	"	
73	3994359	Insulation	
74	3994360	"	
75	3994361	Drywall	
76	3994362	"	
Additional Samples Labeled			
60	3994363		
61	3994364		

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Chain of Custody / Sample Log Bulk Asbestos

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

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

Project Name: ODOT - 2394 Canal Rd
Project No.: H10002-13

Office Phone: 440-357-1260
Cell Phone: _____
FAX / Email 1: 440-357-1510

Contact 1: Joan Sablar
Contact 2: _____
FAX / Email 2: JSablar@hzwenv.com

Special Instructions: PO # 5353-10

Matrix:

- Air Water
 Spill Paint
 Bulk Surface Dust / Wipe
 Other _____

Analysis Method:

- PLM: Bulk Asbestos Building Materials EPA 600 / R 93-116
 PLM: Point Counting
 PC: via ELAP 198.1
 PC: 400 Points
 PC: 800 Points *
 PC: other _____ Points *
 PLM: Gravimetric Reduction
 PLM: NOB via 198.6
 PLM: Friable via EPA 600 2.3
 If <1% by PLM, to TEM via 198.4 *
 If <1% by PLM, Hold for Instructions
 PLM: Analyze Until Positive (Positive Stop)
 AUP: by Homogenous Area as Noted
 AUP: by Material Type as Noted
 PLM: Non-Building Material *, **(Dust, Wipe, Tape, Soil)
 Soil or Vermiculite Analysis *, **
 PLM: Instructions for Multi-Layered Samples
 Analyze and Report All Separable Layers per EPA 600
 Report Composite for Drywall Systems per NESHAP
 Report All Layers and Composite Where Applicable
 Only Analyze and Report Specifically Noted Layer

* Additional charge and turnaround may be required. ** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory.

Turnaround Time:

Preliminary Results Requested By: _____ Verbals FAX Email
date / time

- 10 Day
 5 Day
 3 Day
 2 Day
 1 Day*
 12 Hour**
 6 Hour**
 RUSH**

* End of next business day unless otherwise specified. ** Matrix Dependent. Please notify the lab before shipping.

Sample Numbers:

Client #(s): 01 - 76 iATL#(s): _____ Total: _____
(start) (end) (start) (end)
 Please use your sample log to supply sampling information (ex: Volumes, areas, descriptions, locations, etc.) or download forms at iatl.com

Chain of Custody:

Relinquished (Name / Organization): _____	Date: <u>6-16-10</u>	Time: <u>4pm</u>
Received (Name / iATL): <u>JW</u>	Date: _____	Time: _____
Sample Login (Name / iATL): <u>0206118110</u>	Date: _____	Time: _____
Sample Prep (Name / iATL): _____	Date: _____	Time: _____
Analysis (Name(s) / iATL): _____	Date: <u>6/16/10</u>	Time: _____
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____
Archived / Released: _____	Date: <u>JUN 17</u>	Time: _____
QA/QC InterLAB Use: _____	Date: _____	Time: _____



Chain of Custody / Sample Log Bulk Asbestos

9000 Commerce Parkway
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Mt. Laurel, NJ 08054
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info@iatl.com
www.iatl.com

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

Project Name: ODOT
Project No.: 110002-13

Client Sample ID:	iATL Sample ID:	Sample Description / Location	Notes
29	3994315	"	
30	3994316	FT - Lt. Brown	
31	3994317	"	
32	3994318		
33	3994319		
34	3994320	Cove Base	
35	3994321	"	
36	3994322	Drywall	
37	3994323	"	
38	3994324	"	
39	3994325	"	
40	3994326	"	
41	3994327	Black Adhesive	
42	3994328	"	
43	3994329	FT - Red	START ↓
44	3994330	"	
45	3994331	FT - Lt. Green	
46	3994332	"	
47	3994333	FS - off white	
48	3994334	"	
49	3994335	FS - white	
50	3994336	"	
51	3994337	Drywall System	
52	3994338	"	
53	3994339	"	
54	3994340	Textured Drywall	
55	3994341	"	
56	3994342	"	

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ATTACHMENT 4

OSHA 29 CFR 1926.1101 SECTIONS (g)(1), (g)(2) & (g)(3)

**OSHA 29 CFR 1926.1101 SECTIONS
(g)(1), (g)(2) & (g)(3)**

Paragraph (g)(1) states that the following engineering controls and work practices must be implemented:

- a) vacuum cleaners equipped with high efficiency particulate air filters to collect all debris and dust;
- b) wet methods, or wetting agents to control employee exposure during asbestos handling, mixing, removal, cutting, application and cleanup; and
- c) prompt cleanup and disposal of wastes and debris contaminated with asbestos in leak-tight containers.

Paragraph (g)(2) states that in addition to the above requirements the following control methods must be implemented to be in compliance the time-weighted average (TWA) permissible exposure limit and excursion limit as set forth in the Standard:

- a) local exhaust ventilation equipped with HEPA filter dust collection systems;
- b) enclosure or isolation of processes producing asbestos dust;
- c) ventilation of the work area to move contaminated air away from the breathing zone of employees and toward a filtration collection device equipped with a HEPA filter;
- d) use of other feasible OSHA accepted work practices and engineering controls; and
- e) use of respiratory protection when the above stated engineering controls and work practices are not sufficient to reduce employee exposures below the permissible exposure limit and/or excursion limit.

Paragraph (g)(3) states that the following work practices and engineering controls must not be for work related to asbestos or for work which disturbs ACMs:

- a) high-speed abrasive disc saws that are not equipped with point-of-cut ventilator or enclosures with HEPA filtered exhaust air;
- b) compressed air unless the compressed air is used in conjunction with an enclosed ventilation system designed to capture the dust cloud created by the compressed air;
- c) dry sweeping, shoveling or other dry cleanup of dust and debris containing ACMs; and
- d) employee rotation as a means of reducing employee exposure to asbestos.