



CUY-90-14.90

PID 77332/85531

APPENDIX EC-24

**Regulated Materials Investigation for
PPN 122-16-21, -022, -028
(Contract Document)**

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

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

Revision Date: May 25, 2010



- Addendum No. 5 - New Appendix

FINDINGS OF A REGULATED MATERIALS INVESTIGATION

***The Gillota Fuels Buildings
308 Central Viaduct
Cleveland, Cuyahoga County, Ohio
[CUY-Innerbelt CCG1 Design/PID 77332]***

MAY 2010

Prepared for:

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

Prepared by:



HZW ENVIRONMENTAL
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H10002-11



HZW ENVIRONMENTAL
CONSULTANTS, LLC

May 25, 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 Gillota Fuels Buildings Located at 308 Central Viaduct, Cleveland, Cuyahoga County, Ohio (H10002-11)

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 the Gillota Fuels buildings located at 308 Central Viaduct, Cleveland, Cuyahoga County, Ohio, herein referred to collectively as the "subject buildings". The subject buildings are comprised of a six (6) story office/shop/warehouse and a two (2) story fueling station and overhang. The office/shop/warehouse, and fueling station and overhang are individually referred to in this report as "Main Building" and "Fueling Station". The purpose of the Regulated Materials Investigation was to identify building materials that contain asbestos, regulated hazardous materials, as well as document the presence of any aboveground storage tanks (ASTs) and underground storage tanks (USTs) not previously identified at the subject buildings prior to the buildings being manually demolished.

METHODS OF INVESTIGATION

Review of URS Corporation Documents

As part of the Regulated Materials Investigation, HzW reviewed portions of URS' Corporation's (URS') Phase II Environmental Site Assessment (ESA) report, date unknown, as well as URS' Technical Memorandum dated July 30, 2009. In addition to this review, HzW performed a visual inspection of the subject buildings to identify any aboveground and/or underground storage tanks that had not been previously identified as part of the Phase II ESA findings. Any such findings were documented by HzW as part of our Regulated Materials Investigation.

Asbestos Survey

During May 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).

Prior to commencing with the asbestos survey activities, HzW performed a walkthrough of the subject buildings to identify the various building constructions. Based on HzW's walkthrough of the Main Building it appears to have been constructed during three (3) different building stages. Based on HzW's walkthrough, of the Fueling Station building it appears to have been constructed during one (1) building stage. The subject buildings are currently vacant. A photograph log depicting various views of the subject buildings is included as **Attachment 1**.

During HzW's survey of the Main Building, all accessible homogeneous areas of building materials suspected of containing asbestos were identified and the functional spaces in which they were located were documented. Twenty-three (23) homogeneous areas of building materials suspected of containing asbestos were identified. A total of fifty-four (54) bulk samples were collected from thirteen (13) of the homogeneous areas identified. The homogeneous areas sampled consisted of drywall (2 types), electrical insulation paper, drywall system, ceiling tile (3 types), pipe insulation (2 types), textured ceiling drywall, old drywall system new drywall system, and ceiling paper insulation. The homogeneous areas sampled were considered to be in good condition at the time of the survey. The remaining ten (10) homogeneous areas not sampled and assumed to contain asbestos consist of the following: floor sheeting, cove base and mastic, floor tile and mastic (4 types), transite, rolled asphalt sheeting, built-up roof decking and tarred roof flashing. These homogeneous areas were considered to be in good condition at the time of the survey.

During HzW's survey of the Fueling Station, all accessible homogeneous areas of building materials suspected of containing asbestos were identified and the functional spaces in which they were located were documented. Nine (9) homogeneous areas of building materials suspected of containing asbestos were identified. A total of twenty (20) bulk samples were collected from seven (7) of the homogeneous areas identified. The homogeneous areas sampled consisted of smooth ceiling plaster, textured drywall ceiling, wall plaster on block, heavy textured ceiling plaster, textured drywall walls, wall plaster on metal lathe, and floor tile and mastic. The homogeneous areas sampled were considered to be in good condition at the time of the survey. The remaining two (2) homogeneous areas not sampled and assumed to contain asbestos consist of the following: built-up roof decking and tarred roof flashing. These homogeneous areas were considered to be in good condition at the time of the survey.

The 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 May 2010, representatives of HzW performed a walkthrough of the subject building 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 or heavy-metal containing equipment was also visually identified, quantified and documented throughout the subject buildings. 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.

FINDINGS

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

According to URS' Phase II ESA, date unknown and URS' Technical Memorandum dated July 30, 2009, soils at the Gillota Fuels property was identified as containing concentrations of volatile organic compounds (VOCs) and polyaromatic hydrocarbons (PAHs) in excess of State of Ohio Bureau of Underground Storage Tank Regulations (BUSTR) Closure Action Levels. In addition, groundwater beneath the Gillota Fuels property was identified as containing concentrations of VOCs and PAHs in excess of BUSTR Closure Action Levels and the Ohio Environmental Protection Agency's (EPA's) Voluntary Action Program (VAP) Generic Unrestricted Potable Use Standards (GUPUS).

Based on the findings of the visual inspection conducted in May 2010, HzW identified three (3) ASTs and evidence of at least four (4) USTs associated with the former Fueling Station. Two (2) of the three (3) ASTs are located on the roof of the Main Building and appear to have been used for the building's fire suppression system. The remaining AST, size estimated to be approximately 1,000 gallons, is located exterior to the building on the East side and appears to contain petroleum oil. The capacity of the USTs could not be determined based upon a visual inspection alone.

Asbestos Survey

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

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

Main Building

1. Approximately 79 square feet of electrical insulation paper was identified as containing 80 percent asbestos.
2. Approximately 75 linear feet of pipe insulation was identified as containing from 30 to 45 percent asbestos.
3. Approximately 375 square feet of floor sheeting was assumed to contain asbestos.
4. Approximately 31 square feet of cove base and mastic (4-inch brown) was assumed to contain asbestos.
5. Approximately 120 square feet of floor tile and mastic (12-inch by 12-inch, brown) was assumed to contain asbestos.
6. Approximately 743 square feet of floor tile and mastic (9-inch by 9-inch, orange and 9-inch by 9-inch brown) was assumed to contain asbestos.
7. Approximately 361 square feet of floor tile and mastic (12-inch by 12-inch, white with brown streaks) was assumed to contain asbestos.
8. Approximately 72 square feet of transite was assumed to contain asbestos.
9. Approximately 17,210 square feet of built-up roofing materials was assumed to contain asbestos.
10. Approximately 2,370 square feet of tarred roof flashing was assumed to contain asbestos.

Fueling Station.

1. Approximately 600 square feet of built-up roofing materials was assumed to contain asbestos.
2. Approximately 300 square feet of tarred roof flashing was assumed to contain asbestos.

The following building materials were identified as containing less than one percent asbestos: smooth ceiling plaster, wall plaster on block, heavy textured ceiling plaster, and wall plaster on metal lathe.

Hazardous Materials Survey

The findings from the hazardous materials survey for the subject building are outlined in the table, below.

PCBs Containing Equipment: 1) Fluorescent light ballasts	Heavy Metal Containing Equipment: 1) Fluorescent light lamps (mercury-containing) 2) High Intensity Discharge Lamps 3) Thermostats (mercury-containing) 4) Batteries in Emergency Lighting	Refrigerant Sources: 1) Drinking Fountain 2) Air Conditioners	Any other Hazardous or Regulated Material: 1) Fire Extinguishers 2) Misc. Chemicals 3) Misc. Materials/Equipment
1) 241	1) 314 2) 4 3) 7 4) 8	1) None 2) 1	1) 3 2) 3 Bags Theroseal, 8 Bags of Perlome, 3 gal. & 10 gal. containers of grease, 1 bottle Fantastic, 1 Bag of Mortar Mix 3) Oil associated with Hydraulic lift

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 (i.e. window glazing), 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 & Technical Memorandum

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 GUPUS, 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, and for construction worker precautions/worker protection in areas where impacted soils and groundwater will be/if encountered during demolition and/or construction activities.

The findings of the URS Phase II ESA and visual site inspection indicated the presence of USTs remaining at the property. The USTs should be properly removed in accordance with BUSTR regulations, and any subsequent investigations associated with the USTs should be conducted in accordance with BUSTR regulations. Further, plan notes should be prepared to properly manage and dispose of soils impacted with petroleum associated with the USTs, should these soils be encountered 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 subject buildings, 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 electrical insulation paper, pipe insulation and transite identified at the Main Building. In addition, if the assumed nonfriable asbestos-containing materials (flooring and roofing) identified in good condition at the subject buildings, have a potential to become friable as a result of the demolition activities, then these materials are also required to be abated prior to the demolition activities being performed.

In addition, if the concrete substrate on which the assumed asbestos-containing floor sheeting is located, is to be recycled, then this assumed asbestos-containing material would be required to be abated prior to recycling activities being performed. Hence, the Client would be required to contract with an asbestos abatement contractor licensed in the State of Ohio to abate this asbestos-containing material.

3. Submit the Ohio Environmental Protection Agency (OEPA), "Notification of Demolition and Renovation" form to the OEPA ten (10) days prior to renovation activities (abatement 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. If applicable, and 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 subject buildings, notify the demolition contractor of the asbestos-containing and assumed asbestos-containing materials that are to remain in the subject buildings 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 mercury containing fluorescent light bulbs, thermostats and heavy metal/mercury-containing equipment shall be handled, characterized and disposed of or recycled in accordance with Ohio's hazardous waste regulations outlined in OAC 3745-51 and universal waste rules outlined in OAC 3745-273.
3. All batteries should be handled and disposed of or recycled in accordance with OAC 3745-273.
4. All regulated refrigerants (i.e. Freon) should be handled, characterized and disposed of or recycled in accordance with 40 CFR 82.
5. All fire extinguishers should be handled in accordance with OSHA's Liquefied Petroleum Gas Standard (29 CFR 1926.153).
6. The hydraulic lift was assumed to contain oil and should be characterized and subsequently disposed of in accordance with federal, state and local regulations.

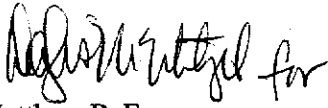
Mr. Mark Carpenter
May 21, 2010
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7. Any other hazardous or regulated material identified in the "Any other Hazardous or Regulated Materials" column should be handled and disposed of properly prior to demolition activities being performed.

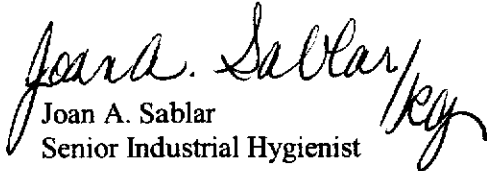
HZW appreciates the opportunity you have given us to provide professional consulting services on this project. Should you have any questions regarding the information presented above, please do not hesitate to contact us.

Sincerely,

HZW ENVIRONMENTAL CONSULTANTS, LLC



Matthew P. Fergus
Field Technician



Joan A. Sablar
Senior Industrial Hygienist

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Attachments

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ATTACHMENT 1

PHOTOGRAPHIC LOG



Photograph 01

Aerial View of the Gillota Fuels Buildings
308 Central Viaduct, Cleveland, Ohio (CCG1 Design PID 77332)



Photograph 02

View Looking Southeast at the West Side of the Gillota Fuels Main Building
308 Central Viaduct, Cleveland, Ohio (CCG1 Design PID 77332)





Photograph 03

View Looking North at the South Side of the Gillota Fuels Main Building
308 Central Viaduct, Cleveland, Ohio (CCG1 Design PID 77332)



Photograph 04

View Looking East at the West Side of the Gillota Fuels Main Building
308 Central Viaduct, Cleveland, Ohio (CCG1 Design PID 77332)



Photograph 05

View Looking South at the North Side of the Gillota Fuels Gas Station Building
308 Central Viaduct, Cleveland, Ohio (CCG1 Design PID 77332)



Photograph 06

View Looking West at the East Side of the Gillota Fuels Gas Station Building
308 Central Viaduct, Cleveland, Ohio (CCG1 Design PID 77332)



Photograph 07

View Looking Northeast at the South Side of the Gillota Fuels Gas Station Building
308 Central Viaduct, Cleveland, Ohio (CCG1 Design PID 77332)

ATTACHMENT 2

ASBESTOS BULK SAMPLING INFORMATION FORMS

ODOT District 12
Asbestos Survey – The Gillota Fuels Buildings, 308 Central Viaduct, Cleveland, Ohio
HzW Environmental Consultants, LLC – Project No. H10002-11

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
01	Gillota Fuels Main Building	Drywall	Basement, Freight Elevator										ND
02	"	Drywall	First Floor, Freight Elevator										ND
03	"	Drywall	Third Floor, Freight Elevator										ND
04	"	Drywall	Fifth Floor, Freight Elevator										ND
05	"	Drywall	Sixth Floor, Freight Elevator										ND
06	"	Electrical Insulation Paper	Sub-Basement		X		79 sq.ft.						80
07	"	Electrical Insulation Paper	First Floor		X		"						80
08	"	Electrical Insulation Paper	4 th Floor Mezzanine		X		"						80
09	"	Drywall System	Sub-Basement										ND
10	"	Drywall System	Sub-Basement										ND
11	"	Drywall System	Sub-Basement										ND
12	"	Drywall System	Sub-Basement										ND
13	"	Drywall System	Sub-Basement										ND
14	"	Drywall System	Sub-Basement										ND
15	"	Ceiling Tile – 2-foot by 4-foot, Indents & Holes	Sub-Basement										ND
16	"	Ceiling Tile – 2-foot by 4-foot, Indents & Holes	Sub-Basement										ND
17	"	Ceiling Tile – 2-foot by 4-foot, Indents & Holes	Sub-Basement										ND

ODOT District 12
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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.	
18	Gillota Fuels Main Building	Pipe Insulation - Mag	First Floor		X		75 In.ft.					30
19	"	Pipe Insulation - Mag	First Floor		X		"					30
20	"	Pipe Insulation - Mag	First Floor		X		"					30
21	"	Pipe Insulation - Air Cell	First Floor		X		"					35
22	"	Pipe Insulation - Air Cell	First Floor		X		"					45
23	"	Pipe Insulation - Air Cell	Second Floor		X		"					35
24	"	Drywall	Central Stairwell									ND
25	"	Drywall	Central Stairwell									ND
26	"	Drywall	Central Stairwell									ND
27	"	Drywall	Central Stairwell									ND
28	"	Drywall	First Floor									ND
29	"	Drywall	First Floor									ND
30	"	Drywall	First Floor									ND
31	"	Textured Ceiling Drywall	Second Floor									ND
32	"	Textured Ceiling Drywall	Second Floor									ND
33	"	Textured Ceiling Drywall	Second Floor									ND
34	"	Old Drywall System	Second Floor, West Offices									ND
35	"	Old Drywall System	Second Floor, West Offices									ND
36	"	Old Drywall System	Second Floor, West Offices									ND

ODOT District 12
Asbestos Survey – The Gillota Fuels Buildings, 308 Central Viaduct, Cleveland, Ohio
HZW Environmental Consultants, LLC – Project No. H10002-11

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
37	Gillota Fuels Main Building	Old Drywall System	Second Floor, West Offices										ND
38	"	Old Drywall System	Second Floor, West Offices										ND
39	"	New Drywall System	Second Floor, East Offices										ND
40	"	New Drywall System	Second Floor, East Offices										ND
41	"	New Drywall System	Second Floor, East Offices										ND
42	"	New Drywall System	Second Floor, East Offices										ND
43	"	New Drywall System	Second Floor, East Offices										ND
44	"	New Drywall System	Second Floor, East Offices										ND
45	"	New Drywall System	Second Floor, East Offices										ND
46	"	Ceiling Tile – 2-foot by 2-foot	Second Floor, West Offices										ND
47	"	Ceiling Tile – 2-foot by 2-foot	Second Floor, West Offices										ND
48	"	Ceiling Tile – 2-foot by 2-foot	Second Floor, West Offices										ND
49*	"	Ceiling Tile – 2-foot by 4-foot	Second Floor, East Offices										ND
50	"	Ceiling Tile – 2-foot by 4-foot	Second Floor, East Offices										ND
51	"	Ceiling Tile – 2-foot by 4-foot	Second Floor, East Offices										ND
52	"	Ceiling Paper Insulation	Third Floor										ND
53	"	Ceiling Paper Insulation	Third Floor										ND
54	"	Ceiling Paper Insulation	Third Floor										ND

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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	
	Gillota Fuels Main Building	Floor Sheeting	Sub-Basement			X	375 sq.ft.						Assumed	
	"	Cove Base – 4-inch Brown, Mastic	Sub-Basement			X	31 sq.ft.						Assumed	
	"	Floor Tile – 12-inch by 12-inch, Brown Mastic	Second Floor			X	120 sq.ft.						Assumed	
	"	Floor Tile – 9-inch by 9-inch, Orange Mastic	Second Floor			X	743 sq.ft.						Assumed	
	"	Floor Tile – 9-inch by 9-inch, Brown Mastic	Second Floor			X	"						Assumed	
	"	Floor Tile – 12-inch by 12-inch, White with Brown Streaks Mastic	Second Floor			X	361 sq.ft.						Assumed	
	"	Transite	Fourth Floor			X	72 sq.ft.						Assumed	
	"	Rolled Asphalt Roofing Material on Walls of Roof Structure	Roof			X	1,000 sq.ft.						Assumed	
	"	Built-up Roof Decking	Roof			X	17,210 sq.ft.						Assumed	
	"	Tarred Roof Flashing	Roof			X	2,370 sq.ft.						Assumed	

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HZW Environmental Consultants, LLC – Project No. H10002-11

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/N/T	GOOD	FAIR	POOR	HIGH	MOD.	LOW	% ASBESTOS	
01	Fueling Station	Smooth Ceiling Plaster	Second Floor			X	600 sq. ft.						Trace	
02	"	Smooth Ceiling Plaster	Second Floor			X	"						Trace	
03	"	Smooth Ceiling Plaster	Second Floor			X	"						Trace	
04	"	Textured Drywall Ceiling	Second Floor										ND	
05	"	Textured Drywall Ceiling	Second Floor										ND	
06	"	Textured Drywall Ceiling	Second Floor										ND	
07	"	Wall Plaster on Block	Second Floor			X	792 sq. ft.						Trace	
08	"	Wall Plaster on Block	Second Floor			X	"						Trace	
09	"	Wall Plaster on Block	Second Floor			X	"						ND	
10	"	Heavy Textured Ceiling Plaster	First Floor			X	600 sq. ft.						Trace	
11	"	Heavy Textured Ceiling Plaster	First Floor			X	"						ND	
12	"	Heavy Textured Ceiling Plaster	First Floor			X	"						Trace	

**ODOT District 12
Asbestos Survey – The Gillota Fuels Buildings, 308 Central Viaduct, Cleveland, Ohio
HzW Environmental Consultants, LLC – Project No. H10002-11**

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	
13	Fueling Station	Textured Drywall Walls	First Floor										ND	
14	"	Textured Drywall Walls	First Floor										ND	
15	"	Textured Drywall Walls	First Floor										ND	
16	"	Wall Plaster on Metal Lath	First Floor			X	495 sq.ft.						ND	
17	"	Wall Plaster on Metal Lath	First Floor			X	"						ND	
18	"	Wall Plaster on Metal Lath	First Floor			X	"						Trace	
19	"	Floor Tile – 12-inch by 12-inch, Tan Mastic	First Floor										ND	
20	"	Floor Tile – 12-inch by 12-inch, Tan Mastic	First Floor										0.25	
	"	Built-up Roof Decking	Roof			X	600 sq.ft.						ND	
	"	Tarred Roof Flashing	Roof			X	300 sq.ft.						Assumed	

* Noted as Sample No. 52

ATTACHMENT 3

LABORATORY ANALYTICAL REPORTS FOR BULK SAMPLES COLLECTED

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants 6105 Heisley Rd. Mentor OH 44060	Report Date: 5/7/2010 Project: ODOT (5 Story Bldg) Project No.: H10002-11
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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946203	Description / Location: White/Tan Sheetrock			
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	5	Cellulose	95

Lab No.: 3946204	Description / Location: White/Tan Sheetrock			
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	5	Cellulose	95

Lab No.: 3946205	Description / Location: White/Tan Sheetrock			
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	5	Cellulose	95

Lab No.: 3946206	Description / Location: White/Tan Sheetrock			
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	5	Cellulose	95

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: S. Robb

Approved By: _____

Date: 5/7/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/7/2010
Project: ODOT (5 Story Bldg)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946207 **Description / Location:** White/Tan Sheetrock
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	5	Cellulose	95

Lab No.: 3946208 **Description / Location:** Grey Insulation
Client No.: 06

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

Lab No.: 3946209 **Description / Location:** Grey Insulation
Client No.: 07

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

Lab No.: 3946210 **Description / Location:** Grey Insulation
Client No.: 08

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
80	Chrysotile	None Detected	None Detected	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: S. Robb

Date: 5/7/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/7/2010
Project: ODOT (5 Story Bldg)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946211 **Description / Location:** White/Tan Sheetrock
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	5	Cellulose	95

Lab No.: 3946211 **Description / Location:** White Texture **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.: 3946212 **Description / Location:** White/Tan Sheetrock
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	5	Cellulose	95

Lab No.: 3946212 **Description / Location:** White Texture **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. 101165-0

NY-DOH No. 11021

AJHA 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: S. Robb

Date: 5/7/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/7/2010
Project: ODOT (5 Story Bldg)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946213 **Description / Location:** White/Tan Sheetrock
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	5	Cellulose	95

Lab No.: 3946213 **Description / Location:** White Texture **Layer No.:** 2
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

Lab No.: 3946214 **Description / Location:** White/Tan Sheetrock
Client No.: 12

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

Lab No.: 3946214 **Description / Location:** White Texture **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>
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: S. Robb

Date: 5/7/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/7/2010
Project: ODOT (5 Story Bldg)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946215 **Description / Location:** White/Tan Sheetrock
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	5	Cellulose	95

Lab No.: 3946215 **Description / Location:** White Texture **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.: 3946216 **Description / Location:** White/Tan Sheetrock
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	5	Cellulose	95

Lab No.: 3946216 **Description / Location:** White Texture **Layer No.:** 2
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

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: S. Robb

Date: 5/7/2010

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants 6105 Heisley Rd. Mentor OH 44060	Report Date: 5/7/2010 Project: ODOT (5 Story Bldg) Project No.: H10002-11
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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946217	Description / Location: Grey Ceiling Tile	
Client No.: 15		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	30
		45
	Cellulose	
	Mineral Wool	25

Lab No.: 3946218	Description / Location: Grey Ceiling Tile	
Client No.: 16		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	30
		45
	Cellulose	
	Mineral Wool	25

Lab No.: 3946219	Description / Location: Grey Ceiling Tile	
Client No.: 17		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	30
		45
	Cellulose	
	Mineral Wool	25

Lab No.: 3946220	Description / Location: White Pipe Insulation	
Client No.: 18		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos 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 $\leq 0.25\%$ 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: S. Robb

Date: 5/7/2010

CERTIFICATE OF ANALYSIS

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6105 Heisley Rd.
Mentor OH 44060

Report Date: 5/7/2010
Project: ODOT (5 Story Bldg)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946221 **Description / Location:** White Pipe Insulation
Client No.: 19

<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.: 3946222 **Description / Location:** White Pipe Insulation
Client No.: 20

<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.: 3946223 **Description / Location:** Grey/Tan Pipe Fitting
Client No.: 21

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
35	Chrysotile	55	Cellulose	10

Lab No.: 3946224 **Description / Location:** Grey Pipe Fitting
Client No.: 22

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
45	Chrysotile	35	Cellulose	20

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AJHA 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: S. Robb

Date: 5/7/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/7/2010
Project: ODOT (5 Story Bldg)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946225 **Description / Location:** Grey/Tan Pipe Fitting
Client No.: 23

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
35	Chrysotile	55	Cellulose	10

Lab No.: 3946226 **Description / Location:** White/Tan Sheetrock
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	5	Cellulose	95

Lab No.: 3946227 **Description / Location:** White/Tan Sheetrock
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	5	Cellulose	94
		1	Fibrous Glass	

Lab No.: 3946228 **Description / Location:** White/Tan Sheetrock
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	5	Cellulose	94
		1	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: S. Robb

Date: 5/7/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/7/2010
Project: ODOT (5 Story Bldg)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946229 Description / Location: White/Tan Sheetrock
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	5	Cellulose	94
		1	Fibrous Glass	

Lab No.: 3946230 Description / Location: White/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	5	Cellulose	94
		1	Fibrous Glass	

Lab No.: 3946231 Description / Location: White/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	5	Cellulose	94
		1	Fibrous Glass	

Lab No.: 3946232 Description / Location: White/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	5	Cellulose	94
		1	Fibrous Glass	

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-99/116

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: S. Robb

Date: 5/7/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/7/2010
Project: ODOT (5 Story Bldg)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946233 **Description / Location:** White/Tan Sheetrock
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	5	Cellulose	95

Lab No.: 3946233 **Description / Location:** White Texture **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	None Detected	None Detected	100

Lab No.: 3946234 **Description / Location:** White/Tan Sheetrock
Client No.: 32

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

Lab No.: 3946234 **Description / Location:** White Texture **Layer No.:** 2
Client No.: 32

<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: S. Robb

Date: 5/7/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/7/2010
Project: ODOT (5 Story Bldg)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946235 Description / Location: White/Tan Sheetrock
Client No.: 33

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

Lab No.: 3946235 Description / Location: White Texture Layer No.: 2
Client No.: 33

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

Lab No.: 3946236 Description / Location: White/Tan Sheetrock
Client No.: 34

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	5	Cellulose	94
		1	Fibrous Glass	

Lab No.: 3946236 Description / Location: White Joint Compound 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

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: S. Robb

Date: 5/7/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/7/2010
Project: ODOT (5 Story Bldg)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946237	Description / Location: White/Tan Sheetrock			
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	5	Cellulose	94
		1	Fibrous Glass	

Lab No.: 3946237	Description / Location: White Joint Compound			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	None Detected	None Detected	100

Lab No.: 3946238	Description / Location: White/Tan 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	5	Cellulose	94
		1	Fibrous Glass	

Lab No.: 3946238	Description / Location: White Joint Compound			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	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 $\leq 0.25\%$ 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: S. Robb

Date: 5/7/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/7/2010
Project: ODOT (5 Story Bldg)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946239 Description / Location: White/Tan 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	89
		1	Fibrous Glass	

Lab No.: 3946239 Description / Location: White Joint Compound Layer No.: 2
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	None Detected	None Detected	100

Lab No.: 3946240 Description / Location: White/Tan 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	5	Cellulose	94
		1	Fibrous Glass	

Lab No.: 3946240 Description / Location: White Joint Compound Layer No.: 2
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	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: S. Robb

Date: 5/7/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/7/2010
Project: ODOT (5 Story Bldg)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946241	Description / Location: White/Tan Sheetrock		
Client No.: 39			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	5	Cellulose
		1	Fibrous Glass
			<u>% Non-Fibrous Material</u> 94

Lab No.: 3946241	Description / Location: White Joint Compound		Layer No.: 2
Client No.: 39			
<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.: 3946242	Description / Location: White/Tan Sheetrock		
Client No.: 40			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	5	Cellulose
		1	Fibrous Glass
			<u>% Non-Fibrous Material</u> 94

Lab No.: 3946242	Description / Location: White Joint Compound		Layer No.: 2
Client No.: 40			
<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: S. Robb

Date: 5/7/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/7/2010
Project: ODOT (5 Story Bldg)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946243 Description / Location: White/Tan Sheetrock
Client No.: 41

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

Lab No.: 3946243 Description / Location: White Joint Compound Layer No.: 2
Client No.: 41

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

Lab No.: 3946244 Description / Location: White/Tan Sheetrock
Client No.: 42

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	5	Cellulose	94
		1	Fibrous Glass	

Lab No.: 3946244 Description / Location: White Joint Compound Layer No.: 2
Client No.: 42

% 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: S. Robb

Date: 5/7/2010

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd
Mentor OH 44060

Report Date: 5/7/2010
Project: ODOT (5 Story Bldg)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946245	Description / Location: White/Tan Sheetrock		
Client No.: 43			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	5	Cellulose
		1	Fibrous Glass
			<u>% Non-Fibrous Material</u> 94

Lab No.: 3946245	Description / Location: White Joint Compound		Layer No.: 2
Client No.: 43			
<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.: 3946246	Description / Location: White/Tan Sheetrock		
Client No.: 44			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	5	Cellulose
		Trace	Fibrous Glass
			<u>% Non-Fibrous Material</u> 95

Lab No.: 3946246	Description / Location: White Joint Compound		Layer No.: 2
Client No.: 44			
<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: S. Robb

Date: 5/7/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/7/2010
Project: ODOT (5 Story Bldg)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946247 Description / Location: White/Tan Sheetrock
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	5	Cellulose	95

Lab No.: 3946247 Description / Location: White Joint Compound Layer No.: 3
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	None Detected	None Detected	100

Lab No.: 3946248 Description / Location: Tan Ceiling Tile
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	40	Cellulose	15
		45	Mineral Wool	

Lab No.: 3946249 Description / Location: Tan Ceiling Tile
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	40	Cellulose	15
		45	Mineral Wool	

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. (FC-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: S. Robb

Date: 5/7/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/7/2010
Project: ODOT (5 Story Bldg)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946250 Description / Location: Tan Ceiling Tile
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	40	Cellulose	15
		45	Mineral Wool	

Lab No.: 3946251 Description / Location: Sample Not Received
Client No.: 49

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
Sample Not Received		Sample Not Received		

Lab No.: 3946252 Description / Location: Tan Ceiling Tile
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	40	Cellulose	15
		45	Mineral Wool	

Lab No.: 3946253 Description / Location: Tan Ceiling Tile
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	40	Cellulose	15
		45	Mineral Wool	

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIIHA 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: S. Robb

Date: 5/7/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/7/2010
Project: ODOT (5 Story Bldg)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3946254 Description / Location: Tan Wrap
Client No.: 52

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Cellulose	25

Lab No.: 3946253 Description / Location: Tan Wrap
Client No.: 53

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Cellulose	25

Lab No.: 3946256 Description / Location: Tan Wrap
Client No.: 54

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Cellulose	25

Lab No.: 3946257 Description / Location: Tan Ceiling Tile
Client No.: 52 Duplicate Sample Received

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	15
		45	Mineral Wool	

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: S. Robb

Date: 5/7/2010



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 Heisley Road
Mentor, Ohio 44060

Project Name: ODOT (5 Story Bldg)
Project No.: H10002-11

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# 5318-10

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 : 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 - 54 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): Mentor Z

Received (Name / iATL): _____

Sample Login (Name / iATL): as @ 5/4/10

Sample Prep (Name / iATL): _____

Analysis (Name(s) / iATL): NAC 5/7/10

QA/QC Review (Name / iATL): _____

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

Date:	<u>5/8/10</u>	Time:	<u>10:20</u>
Date:		Time:	
Date:		Time:	
Date:		Time:	
Date:	<u>MAY</u>	Time:	<u>4:00</u>
Date:		Time:	
Date:		Time:	

IATL - 01



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

Project Name: ODOT (5 story Bldg)
Project No.: H10002-11

Sampling Date: _____

Client Sample ID:	iATL Sample ID:	Sample Description / Location	Notes	
01	3946203	Drywall		
02	3946204			
03	3946205			
04	3946206			
05	3946207			
06	3946208	Insulation		
07	3946209			
08	3946210			
09	3946211	Drywall system		
10	3946212			
11	3946213			
12	3946214			
13	3946215			
14	3946216			
15	3946217		CT	
16	3946218			
17	3946219	PIPE Insulation		
18	3946220			
19	3946221			
20	3946222	PIPE Insulation		
21	3946223			
22	3946224			
23	3946225			
24	3946226	Drywall		
25	3946227			
26	3946228			
27	3946229			
28	3946230			



Chain of Custody / Sample Log

Bulk Asbestos

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

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

Project Name: ODOT (5 story Bldg)
 Project No.: H10002-11

Sampling Date: _____

Client Sample ID:	iATL Sample ID:	Sample Description / Location	Notes
29	3946231	Drywall	
30	3946232	}	
31	3946233		
32	3946234	Textured Drywall	
33	3946235	}	
34	3946236		
35	3946237	Drywall system	
36	3946238	}	
37	3946239		
38	3946240	}	
39	3946241		
40	3946242	Drywall system	
41	3946243	}	
42	3946244		
43	3946245	}	
44	3946246		
45	3946247	}	
46	3946248		
47	3946249	CT	
48	3946250	}	
49	3946251		CT
50	3946252	}	sample not received as of 5/4/10
51	3946253		
52	3946254	}	
53	3946255		CT/ly MATERIAL
54	3946256	}	
52	3946257		duplicate sample received, IATL # assigned randomly

as of 5/4/10

CERTIFICATE OF ANALYSIS

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

Report Date: 5/21/2010
Project: ODOT (Gillota Fuel)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3961180	Description / Location: Tan/Brown Plaster Ceiling			
Client No.: 01				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	1	Hair	99

Lab No.: 3961181	Description / Location: Tan/Brown Plaster Ceiling			
Client No.: 02				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	Trace	Hair	100

Lab No.: 3961182	Description / Location: Tan/Brown Plaster Ceiling			
Client No.: 03				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	Trace	Hair	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. Solebello

Approved By:

Date: 5/21/2010

Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

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

Report Date: 5/21/2010
Project: ODOT (Gillota Fuel)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3961183 **Description / Location:** White/Brown Sheetrock Ceiling
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	15	Cellulose	85

Lab No.: 3961183 **Description / Location:** Tan Texture Ceiling **Layer No.:** 2
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	None Detected	None Detected	100

Lab No.: 3961184 **Description / Location:** White/Brown Sheetrock Ceiling
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	10	Cellulose	90

Lab No.: 3961184 **Description / Location:** Tan Texture Ceiling **Layer No.:** 2
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	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. Solebello

Date: 5/21/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/21/2010
Project: ODOT (Gillota Fuel)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3961185 **Description / Location:** White/Brown Sheetrock Ceiling
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	10	Cellulose	90

Lab No.: 3961185 **Description / Location:** Tan Texture Ceiling **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>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3961186 **Description / Location:** Brown Plaster Wall On Block
Client No.: 07

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	Trace	Hair	100

Lab No.: 3961187 **Description / Location:** Brown Plaster Wall On Block
Client No.: 08

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	Trace	Hair	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. Solebello

Date: 5/21/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/21/2010
Project: ODOT (Gillota Fuel)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3961188
Client No.: 09
Description / Location: White Plaster
Wall On Block

<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.: 3961188
Client No.: 09
Description / Location: Brown Plaster
Wall On Block
Layer No.: 2

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	1	Hair	99

Lab No.: 3961189
Client No.: 10
Description / Location: White/Tan Plaster
Ceiling

<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.: 3961189
Client No.: 10
Description / Location: Brown Plaster
Ceiling
Layer No.: 2

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	Trace	Hair	100

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AJHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

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

Analysis Performed By: L. Solebello

Date: 5/21/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/21/2010
Project: ODOT (Gillota Fuel)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3961190	Description / Location: White Plaster Ceiling			
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

Lab No.: 3961190	Description / Location: Brown Plaster Ceiling			Layer No.: 2
Client No.: 11				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	1	Hair	99

Lab No.: 3961191	Description / Location: White/Tan Plaster Ceiling			
Client No.: 12				
<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.: 3961191	Description / Location: Brown Plaster Ceiling			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 Trace	Chrysotile	1	Hair	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 <0.23% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: L. Solebello

Date: 5/21/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/21/2010
Project: ODOT (Gillota Fuel)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3961192 Description / Location: White/Brown Sheetrock Wall
Client No.: 13

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Cellulose	90

Lab No.: 3961192 Description / Location: White Texture Wall Layer No.: 2
Client No.: 13

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

Lab No.: 3961193 Description / Location: White/Brown Sheetrock Wall
Client No.: 14

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Cellulose	85

Lab No.: 3961193 Description / Location: White Texture Wall Layer No.: 2
Client No.: 14

% 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: L. Solebello

Date: 5/21/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/21/2010
Project: ODOT (Gillota Fuel)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3961194	Description / Location: White/Brown Sheetrock Wall		
Client No.: 15			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	85
		Cellulose	

Lab No.: 3961194	Description / Location: White Texture Wall		Layer No.: 2
Client No.: 15			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	100
		None Detected	

Lab No.: 3961195	Description / Location: Blue/Tan Plaster Wall On Metal Lath		
Client No.: 16			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	100
		None Detected	

Lab No.: 3961195	Description / Location: Brown Plaster Wall On Metal Lath		Layer No.: 2
Client No.: 16			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>% Non-Fibrous Material</u>
PC 0.25	Chrysotile	Trace	PC 99.75
		Hair	

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: L. Solebello

Date: 5/21/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/21/2010
Project: ODOT (Gillota Fuel)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3961196	Description / Location: Blue/Tan Plaster			
Client No.: 17	Wall On Metal Lath			
<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.: 3961196	Description / Location: Brown Plaster				Layer No.: 2
Client No.: 17	Wall On Metal Lath				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC Trace	Chrysotile	1	Hair	99	

Lab No.: 3961197	Description / Location: Blue/Tan Plaster			
Client No.: 18	Wall On Metal Lath			
<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.: 3961197	Description / Location: Brown Plaster				Layer No.: 2
Client No.: 18	Wall On Metal Lath				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC 0.25	Chrysotile	1	Hair	PC 98.75	

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Performed By: L. Solebello

Date: 5/21/2010

CERTIFICATE OF ANALYSIS

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

Report Date: 5/21/2010
Project: ODOT (Gillota Fuel)
Project No.: H10002-11

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3961198 **Description / Location:** Grey 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>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 3961198 **Description / Location:** Tan 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

Lab No.: 3961199 **Description / Location:** Grey Floor Tile
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.: 3961199 **Description / Location:** Tan 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

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: L. Solebello

Date: 5/21/2010



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 Heisley Road
Mentor, Ohio 44060

Project Name: ODOT (Gillota Fuel)
Project No.: H10002-11

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# 5318-10

Matrix:

<input type="checkbox"/> Air	<input type="checkbox"/> Soil	<input checked="" type="checkbox"/> Bulk	<input type="checkbox"/> Other _____
<input type="checkbox"/> Water	<input type="checkbox"/> Paint	<input type="checkbox"/> Surface Dust / Wipe	

Analysis Method:

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

<input type="checkbox"/> PLM : Point Counting	<input type="checkbox"/> PLM : Analyze Until Positive (Positive Stop)
<input type="checkbox"/> PC : via ELAP 198.1	<input type="checkbox"/> AUP : by Homogenous Area as Noted
<input type="checkbox"/> PC : 400 Points	<input type="checkbox"/> AUP : by Material Type as Noted
<input type="checkbox"/> PC : 800 Points *	
<input type="checkbox"/> PC : other _____ Points *	<input type="checkbox"/> PLM : Non-Building Material *, **(Dust, Wipe, Tape, Soil)
	<input type="checkbox"/> Soil or Vermiculite Analysis *, **
<input type="checkbox"/> PLM : Gravimetric Reduction	<input type="checkbox"/> PLM: Instructions for Multi-Layered Samples
<input type="checkbox"/> PLM : NOB via 198.6	<input type="checkbox"/> Analyze and Report All Separable Layers per EPA 600
<input type="checkbox"/> PLM : Friable via EPA 600 2.3	<input type="checkbox"/> Report Composite for Drywall Systems per NESHAP
<input type="checkbox"/> If <1% by PLM, to TEM via 198.4 *	<input type="checkbox"/> Report All Layers and Composite Where Applicable
<input type="checkbox"/> If <1% by PLM, Hold for Instructions	<input type="checkbox"/> 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 - 20 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): <u>Methi'z</u>	Date: <u>5/17/10</u>	Time: <u>12:00</u>
Received (Name / iATL): _____	Date: _____	Time: _____
Sample Login (Name / iATL): _____	Date: _____	Time: _____
Sample Prep (Name / iATL): _____	Date: _____	Time: _____
Analysis(Name(s) / iATL): _____	Date: _____	Time: _____
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____
Archived / Released: _____	Date: _____	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: H2W Environmental Consultants, LLC
6105 Heisley Road Mentor, Oh 44060

Project Name: ODOT (GILLOTA FUEL)
Project No.: H10002-11

Sampling Date: 5/12/10

Client Sample ID:	iATL Sample ID:	Sample Description / Location	Notes
01		Smooth Ceiling plaster	
02		}	
03			
04			Textured Drywall Ceiling
05		}	
06			
07		Wall Plaster on Block	
08		}	
09			
10			Heavy Textured Ceiling Plaster
11		}	
12			
13			Textured Drywall wall
14		}	
15			
16			Wall plaster on metal lath
17		}	
18			
19			FT
20		}	

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.