



**NESHAP RENOVATION / DEMOLITION INSPECTION OF  
ASBESTOS CONTAINING MATERIALS  
AND OTHER HAZARDOUS WASTE MATERIALS  
FOR THE PROPERTY KNOWN AS:**

333 Mason  
Muskegon, MI 49441

**Prepared for:**

City of Muskegon  
933 Terrace Street - Room 202  
Muskegon, MI 49440  
231-724-6760

**Prepared By:**

ETC - Environmental Services  
38900 Huron River Drive  
Romulus, Michigan 48174  
(734) 955-6600

02/09/2016

ETC Job #: 177239

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## 1. Introduction

The City of Muskegon contracted ETC - Environmental Services (ETC) to perform a renovation / demolition inspection of the building located at 333 Mason, Muskegon, MI 49441. This inspection was conducted on 02/09/2016.

The EPA under the National Emission Standards for Hazardous Air Pollutants (NESHAPs) asbestos rule requires that prior to the start of a renovation and/or demolition project, the building must be inspected for asbestos containing materials (ACM's). The purpose of this inspection was to determine the presence and quantity of friable or potentially friable ACM's. Depending on the ACM found and the condition that it is in, removal of the material may be necessary before demolition work is to begin. Prior to the start of a demolition project, it is necessary that friable or potentially friable ACM's be removed.

ETC's certified inspector, Aaron Yankee & Stuart Yankee, conducted the ACBM inspection and identified materials suspected of containing asbestos. Aaron Yankee & Stuart Yankee's State of Michigan Asbestos Building Inspector's certification number is A-42490 & A-4115.

Wherever potential asbestos materials were found, data was collected and recorded regarding quantities and observed conditions of the suspect material. As required by the Occupational Safety and Health (OSHA) and the Environmental Protection Agency (EPA), three (3) samples of each type of material were taken in different locations to determine actual asbestos content.

Included along with this report are copies of the bulk sample results, a site map showing sample locations and a copy of the State of Michigan Notification of Intent to Renovate/Demolish. This information will be necessary for the asbestos abatement contractor selected to perform asbestos abatement activities in the house. ETC has included its information on the second page.

## 2. Information about Asbestos Inspections

### *a. Sampling Procedures*

Representative bulk samples of suspect asbestos containing building materials were randomly collected within each building area. The materials sampled were broken down into distinct homogenous (similar) materials. Homogenous material determination was based on the following criteria:

- Similar physical characteristics (same color and texture, etc.)
- Application (sprayed-on, troweled-on, assembly into a system etc.)
- Material function (Thermal insulation, floor tile, wallboard system etc.)

It is important to note that some companies are only taking one sample of select non-friable materials. While this procedure is allowed under the NESHAPs regulation, the OSHA standard suggests a minimum of three samples of each

homogeneous material. This is a better approach due the potential errors in the analytical method used. **To provide the most accurate information possible and be sure of our results, ETC chooses to take three samples of each sampled material.**

Additionally, some inspection companies have taken to assuming that materials contain asbestos rather than paying for the time and expenses of sampling them. This is not if the clients best interest. If materials are being assumed to contain asbestos, the client must treat them as asbestos containing even if they are not. This can lead to significantly increased costs for the building owner. **In general, ETC only assumes materials to be asbestos when sampling them will ruin their integrity (i.e. fire doors) or when they are too dangerous to sample (i.e. live electrical lines).**

*b. PLM Analysis Methodology*

PLM samples were analyzed utilizing the Environmental Protection Agency's Test Methods: Methods for the determination of Asbestos in Bulk Building Materials (EPA 600/R-93/116, July 1993) and the McCrone Research Institute's The Asbestos Particle Atlas as method references. Additional treatment and tests may be required to accurately define composition (i.e. ashing, extraction, acetone treatment, and TEM).

Analysis was performed by using the bulk sample for visual observation and slide preparation(s) for microscopic examination and identification. The samples analyzed for asbestos (chrysotile, amosite, crocidolite, anthophyllite, and actinolite/tremolite), fibrous non-asbestos constituents (mineral wool, cellulose, etc.) and non-fibrous constituents. Using a stereoscope, the microscopist visually estimated relative amounts of each constituent by determining the volume of each constituent in proportion to the total volume of the sample.

According to NESHAP requirements any bulk sample that has asbestos content above 0% but below 10% should be point counted for final determination of percentage. **Please note, the contract DID NOT include point counting as defined in NESHAP.** Should City of Muskegon wish to have this additional analysis conducted, ETC can send any samples in this range for point counting. However, this will require additional charges for analysis. Therefore, for any samples in the range above 0% but below 10% these results can only be considered estimates.

*c. Interpretation of Inspection Results*

A material is considered by OSHA, the EPA and the State of Michigan to be asbestos-containing if at least one sample collected from the homogenous material has asbestos fibers present in a concentration greater than one percent (>1 %).

A summary of the materials sampled, asbestos content, quantities and locations can be found on the Chart A in Section 4.0 – Summary and Conclusions.

*d. Other Hazardous Materials*

Additionally, a chart showing other hazardous materials (above the household quantity limitations) found at the site is included in Chart B – Section 4.0 – Summary and Conclusions. This lists non-asbestos materials that may be hazardous and require special handling and disposal requirements. Items that might be in this category include things like mercury switches, florescent lighting tubes, halogen lights, Freon in refrigeration units, pesticides, herbicides, paints, solvents, etc.

However, under the Resource Conservation and Recovery Act (RCRA) that addresses hazardous wastes, there is residential household quantity exclusion. Therefore, these materials will only be listed in this chart if they are present in quantities larger than what would be expected in a normal household. For instance, if the home was a farm and had a 55 gallon drum of pesticide present, this would be listed in Chart B. On the other hand if there were a few pesticide containers present as would be found in most homes these materials would not be listed.

### **3. Regulatory Requirements**

There are two main regulations that affect renovation / demolition of residential homes and asbestos materials. The MIOSHA asbestos construction standard has requirements to protect the workers performing the renovation / demolition while the EPA – NESHAPs regulation has requirements that protect the general public and environment.

*a. MIOSHA Construction Asbestos Regulations*

The MIOSHA standard establishes a permissible exposure limit (PEL) average over an 8 hour day. This means that this is the maximum level of asbestos that workers and/or employees can be exposed to without respirator protection and protective clothing. Should air sampling during renovation or demolition activities be at or near the PEL the employer will have to:

- Notify Workers
- Worker Training
- Post Danger Signs
- Establish periodic air monitoring regulated areas, and decontamination facilities
- Provide respiratory protection and personnel protective clothing
- Employee Respiration Monitoring
- Record keeping

- Medical Surveillance (if employee will be exposed 30 days per year or more).

Until recently, only schools were federally mandated to conduct asbestos inspections of their buildings. However, with the passage of new MIOSHA regulations, all building owners (in this case City of Muskegon) is now required to notify all renovation / demolition workers of presence, location and quantity of all asbestos containing building materials within the building.

In most cases, it is more practical to have an asbestos contractor removal the ACM from the building prior to renovation / demolition than have the renovation / demolition contractor comply with all these requirements.

*b. NESHAP Requirements*

Prior to beginning a renovation or demolition project, NESHAP (enforced in Michigan by the Department of Environmental Quality – MDEQ) requires a full inspection of the following materials to determine their asbestos content:

- Friable Materials
- Category 1 – Non-friable Materials (Packings, gaskets, resilient floor covering, and asphalt roofing products)
- Category II – Non-friable Materials (All other non-friable materials)

In general, MDEQ requires any identified asbestos materials to be removed prior to renovation or demolition activities that would dislodge, disturb or otherwise affect these materials. There is an exception that if a licensed supervisor will state in writing that the material will not become friable during the renovation / demolition process it may be left in the building. However, be very careful with this exemption. MDEQ has stated that they believe that the only materials that MIGHT qualify for this exemption would be roofing felt and asphalt roofing materials. In order to use even this small exemption, the following would be required from the demolition contractor:

- A licensed asbestos abatement supervisor will sign that the material will not become friable
- The supervisor will have to be on-site during all renovation or demolition to insure that material stays intact.
- If MDEQ reviews that site and finds the material crumbled or disturbed both the contractor and building owner may be cited up to \$27500 per day.
- The waste generated from the activity must be taken to an asbestos dump and they must be informed that the waste is mixed asbestos waste.

It is obviously very expensive and difficult to try and leave ACM within and area / building during renovation or demolition activities. Therefore, ETC recommends that all ACM be removed. This is why ETC does not assume materials to be ACM.

### *c. Notification Requirements*

When performing abatement work within the State of Michigan, notification requirements depend on the quantity of materials and the friability of the material being removed.

If removing friable material above >160 square feet and / or 260 linear feet, the contractor must provide a ten working day notification to Michigan Department of Environmental Quality (MDEQ) and a ten calendar day notification to Michigan Department of Licensing and Regulatory Affairs (LARA) – Asbestos Program. If only non-friable materials are being removed, MDEQ does not want a notification.

If removing above >15 square feet but < 160 square feet, or > 10 linear feet but < 260 linear feet the contractor only needs to notify the LARA as stated above.

For removals of < 15 square feet or < 10 linear feet, not notification is required.

In conjunction with any notification to LARA, the contractor must pay a 1% fee for the project. This fee is to reflect 1% of the total abatement contract amount.

### *d. Abatement Requirements*

Any company hired to remove identified ACM must insure that all asbestos companies, supervisors, workers are be licensed by the LARA. Additionally, these companies must insure that:

- The State of Michigan must be notified of the work in advance
- An asbestos supervisor must be on-site at all times when work is occurring
- All work must be completed within regulated work areas
- All work must be completed utilizing asbestos work practices defined in the MIOSHA regulations
- Have on-site personnel sampling conducted during the removal activities
- The contractor must request and pass (below 0.05 f/cc) a final asbestos clearance performed by a neutral third party prior to dismantling and leaving the site.
- Meet all other current regulations and standards.

In addition to these requirements, ETC strongly recommends that City of Muskegon insure that they receive the following documents from the contractor prior to making final payment:

- Written / signed documentation from the supervisor if any asbestos materials are to be left in place during renovation or demolition (Not recommended)
- Copy of the asbestos abatement notification
- Copy of the personnel monitoring during the work

- Copy of the final asbestos clearance report

By requiring these documents, City of Muskegon will substantially reduce their liability should something occur during the asbestos removal at this site.

#### 4. Summary and Conclusions

***ETC has endeavored to identify potential asbestos containing materials (ACM) that were accessible (without destructive testing) at the time of the inspection, other potential ACM may be buried or inaccessible at the time of the initial survey.***

***As has been evidenced on numerous other demolition and renovation projects, when tearing out or demolishing existing building surfaces, it is very common to encounter other building materials that were not accessible during the initial testing for ACM or lead / cadmium painted surfaces. It is therefore incumbent on City of Muskegon or their selected construction / renovation contractor to refer to the chart of sampled materials consistently during the renovation process. If materials are encountered during this process that are not clearly identifiable on the initial survey chart, ETC should be called to test and verify the asbestos / lead / cadmium content of these items.***

***ETC cannot be held responsible for materials encountered after the initial survey is completed unless we are contacted and given the opportunity to test and verify the material content. The costs associated with this additional testing are not included within the scope of this project and will incur additional charges for the additional sampling and analysis.***

On the following charts, please find:

- Chart A - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. ***If additional materials are encountered that were not previously identified, the contractor is responsible to contact ETC and have these materials tested. These additional sampling costs are not included in the scope of work or price for this survey.***

Quantities that are listed are estimates only; in general, listed quantities represent only what was visible during testing. It is likely that where ACM has been identified throughout specific floors, similar materials and quantities exist on other like floors. It is the contractors'/client's responsibility to verify all amounts of asbestos identified during any bid process, or during future renovation and/or demolition activities. Materials that are identical in both relative location and physical description to already tested materials listed in this report should always be assumed to be ACM.

- Chart B – Is a list of other hazardous materials (above RCRA household quantity levels) that will require special handling and disposal by the contractor.

Chart A – Materials Sampled and Asbestos Content				
Material #	Material Description	Asbestos	Quantity	Location (Refer to map in Appendix B)
1	Plaster, Wall & Ceilings, Gray Base, White Finish	No	7,600 SF	Throughout
2	<b>Duct Wrap, Gray Paper within Walls &amp; Basement</b>	<b>Yes</b>	<b>150 SF</b>	<b>Throughout &amp; Basement</b>
3	Chimney Cement, White	No	2 SF	Basement 16
4	Linoleum, White	No	300 SF	Basement 16
5	Drywall, White	No	1200 SF	Rooms 5-6 & 16
6	Mud / Joint Compound, White	No	1200 SF	Rooms 4-6
7	Blown-In, Beiges Walls & Ceilings	No	3400 SF	Throughout
8	Roof, Black Shingles	No	1200 SF	Exterior
9	Floor Tile, Brown, 9x9	No	150 SF	Room 2
10	Linoleum, Green	No	150 SF	Room 2
11	Floor Tile, 12x12, Green Marble, Stick On	No	170 SF	Room 10
12	Linoleum, Black/White	No	170 SF	Room 10
13	Linoleum, Beige Square Pattern	No	50 SF	Room 111
14	Floor Tile, 12x12, White	No	40 SF	Room 12
15	Linoleum, Beige/Gold	No	40 SF	Room 12
16	House Wrap, Tan Paper	No	3900 SF	Exterior

**Chart B – Other Hazardous Materials Located**  
(Above the household quantity Limitations)

Material #	Material Description	Quantity	Location
1	Smoke Detectors	6	Rooms 4, 6-8 & 16
2	Thermostat	2	Room 9
3	Florescent Light Bulbs, CFL's 2; 4" Rectangle Bulbs 3	5	Room 1

**5. Inspector's Information**

All inspection work was completed by a Michigan certified asbestos abatement inspector as detailed below.

This report reviewed and submitted by:



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Aaron Yankee & Stuart Yankee  
State of Michigan Certified Asbestos Building Inspector  
State of Michigan Card #: A-42490 & A-4115

# **APPENDICES**

## **APPENDIX A**

# **POLARIZED LIGHT MICROSCOPY ASBESTOS ANALYSIS RESULT FORMS**

# ENVIRONMENTAL TESTING LABORATORIES, INC.



38900 HURON RIVER DRIVE, SUITE 200  
ROMULUS, MICHIGAN 48174  
(734) 955-6600  
FAX: (734) 955-6604

To : Environmental Testing And Consulting Inc.  
38900 Huron River Drive  
Romulus, MI 48174

Project Location : Vacant Residence  
333 Mason, Muskegon, MI

Attention : Samantha Ferguson

Client Project : N/A

ETC Job : 177239

Report Date : 2/17/2016

Login #	Sample ID	Work Requested	Completed
394011	01A	Asbestos Analysis	02/16/2016
394012	01B	Asbestos Analysis	02/16/2016
394013	01C	Asbestos Analysis	02/16/2016
394014	01D	Asbestos Analysis	02/16/2016
394015	01E	Asbestos Analysis	02/17/2016
394016	01F	Asbestos Analysis	02/17/2016
394017	01G	Asbestos Analysis	02/17/2016
394018	02A	Asbestos Analysis	02/17/2016
394019	02B	Asbestos Analysis	02/17/2016
394020	02C	Asbestos Analysis	02/17/2016
394021	03A	Asbestos Analysis	02/17/2016
394022	03B	Asbestos Analysis	02/17/2016
394023	04A	Asbestos Analysis	02/17/2016
394024	04B	Asbestos Analysis	02/17/2016
394025	05A	Asbestos Analysis	02/17/2016
394026	05B	Asbestos Analysis	02/17/2016
394027	06A	Asbestos Analysis	02/17/2016
394028	06B	Asbestos Analysis	02/17/2016
394029	07A	Asbestos Analysis	02/17/2016
394030	07B	Asbestos Analysis	02/17/2016

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Login #	Sample ID	Work Requested	Completed
394031	08A	Asbestos Analysis	02/17/2016
394032	08B	Asbestos Analysis	02/17/2016
394033	09A	Asbestos Analysis	02/17/2016
394034	09B	Asbestos Analysis	02/17/2016
394035	10A	Asbestos Analysis	02/17/2016
394036	10B	Asbestos Analysis	02/17/2016
394037	11A	Asbestos Analysis	02/17/2016
394038	11B	Asbestos Analysis	02/17/2016
394039	12A	Asbestos Analysis	02/17/2016
394040	12B	Asbestos Analysis	02/17/2016
394041	13A	Asbestos Analysis	02/17/2016
394042	13B	Asbestos Analysis	02/17/2016
394043	14A	Asbestos Analysis	02/17/2016
394044	14B	Asbestos Analysis	02/17/2016
394045	15A	Asbestos Analysis	02/17/2016
394046	15B	Asbestos Analysis	02/17/2016
394047	16A	Asbestos Analysis	02/17/2016
394048	16B	Asbestos Analysis	02/17/2016

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Reviewed by:



Quality Assurance Coordinator

**Polarized Light Microscopy Asbestos Analysis Report**

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 333 Mason, Muskegon, MI

**ETC Job :** 177239  
**Client Project :** N/A  
**Date Collected :** 02/09/2016  
**Date Received :** 02/11/2016  
**Date Analyzed :** 02/16/2016

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
394011 01A Din 9-E Wall Layer-1 Analyst: Alex Vande Guchte	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
394011 01A Din 9-E Wall Layer-2 Analyst: Alex Vande Guchte	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
394012 01B Liv 1-S Wall Layer-1 Analyst: Alex Vande Guchte	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
394012 01B Liv 1-S Wall Layer-2 Analyst: Alex Vande Guchte	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
394013 01C Din 9-Ceiling At Stairs Layer-1 Analyst: Alex Vande Guchte	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
394013 01C Din 9-Ceiling At Stairs Layer-2 Analyst: Alex Vande Guchte	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested.

## Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 333 Mason, Muskegon, MI

**ETC Job :** 177239  
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**Date Received :** 02/11/2016  
**Date Analyzed :** 02/16/2016

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
394014 01D Kit 10-N Wall Layer-1 Analyst: Alex Vande Guchte	Plaster	Grey Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
394014 01D Kit 10-N Wall Layer-2 Analyst: Alex Vande Guchte	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
394015 01E Bed 8-Ceiling Layer-1 Analyst: Alex Vande Guchte	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
394015 01E Bed 8-Ceiling Layer-2 Analyst: Alex Vande Guchte	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
394016 01F Bed 6-Wall Layer-1 Analyst: Alex Vande Guchte	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
394016 01F Bed 6-Wall Layer-2 Analyst: Alex Vande Guchte	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected

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**Date Analyzed :** 02/17/2016

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
394017 01G Bed 7-Wall Layer-1 Analyst: Alex Vande Guchte	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
394017 01G Bed 7-Wall Layer-2 Analyst: Alex Vande Guchte	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
394018 02A Rm 6 Riser To 2nd Fl Analyst: Alex Vande Guchte	Paper Duct Wrap (in walls & basement)	Grey Fibrous Homogenous	80% Cellulose		20% Chrysotile
394019 02B Rm 7 Riser To 2nd Fl Analyst: Alex Vande Guchte	Paper Duct Wrap (in walls & basement)	Grey Fibrous Homogenous	75% Cellulose		25% Chrysotile
394020 02C Rm 8 Riser To 2nd Fl Analyst: Alex Vande Guchte	Paper Duct Wrap (in walls & basement)	Grey Fibrous Homogenous	75% Cellulose		25% Chrysotile
394021 03A Bsmt To Water Heater Analyst: Alex Vande Guchte	Chimney Cement	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
394022 03B Bsmt To Water Heater Analyst: Alex Vande Guchte	Chimney Cement	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
394023 04A Bsmt N Side Analyst: Alex Vande Guchte	Linoleum	White Fibrous Homogenous	5% Cellulose	95% Other	None Detected
394024 04B Bsmt N Side Analyst: Alex Vande Guchte	Linoleum	White Fibrous Homogenous	5% Cellulose	95% Other	None Detected
394025 05A Bsmt Ne Analyst: Alex Vande Guchte	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
394026 05B 4 Landing Ceiling Analyst: Alex Vande Guchte	Drywall	White Non-Fibrous Homogenous	6% Cellulose	94% Other	None Detected
394027 06A Bed 6 Wall Corner Analyst: Alex Vande Guchte	Mud/Joint Compound	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
394028 06B Bed 6 Analyst: Alex Vande Guchte	Mud/Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
394029 07A Bed 8-Wall Analyst: Alex Vande Guchte	Blown-In Insulation (from walls & ceilings)	Beige Fibrous Homogenous	100% Cellulose		None Detected

## Polarized Light Microscopy Asbestos Analysis Report

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
394030 07B Bed 8-Wall Analyst: Alex Vande Guchte	Blown-In Insulation (from walls & ceilings)	Beige Fibrous Homogenous	100% Cellulose		None Detected
394031 08A Ext Peak Near Bed 7 Analyst: Alex Vande Guchte	Roof Shingle	Black Non-Fibrous Homogenous	7% Cellulose	93% Other	None Detected
394032 08B Ext Peak Near Bed 7 Analyst: Alex Vande Guchte	Roof Shingle	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
394033 09A Bed 2 Analyst: Alex Vande Guchte	9x9 Floor Tile	Brown Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
394034 09B Bed 2 Analyst: Alex Vande Guchte	9x9 Floor Tile	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
394035 10A Bed 2 Analyst: Alex Vande Guchte	Linoleum	Green Fibrous Homogenous	100% Cellulose		None Detected
394036 10B Bed 2 Analyst: Alex Vande Guchte	Linoleum	Green Fibrous Homogenous	100% Cellulose		None Detected

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested.

## Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 333 Mason, Muskegon, MI

**ETC Job :** 177239  
**Client Project :** N/A  
**Date Collected :** 02/09/2016  
**Date Received :** 02/11/2016  
**Date Analyzed :** 02/17/2016

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
394037 11A Kitch 10 Analyst: Alex Vande Guchte	12x12 Marble Patterned Stick-On Floor Tile	Green Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
394038 11B Kitch 10 Analyst: Alex Vande Guchte	12x12 Marble Patterned Stick-On Floor Tile	Green Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
394039 12A Kitch 10 Analyst: Alex Vande Guchte	Linoleum	Black/White Fibrous Homogenous	50% Cellulose	50% Other	None Detected
394040 12B Kitch 10 Analyst: Alex Vande Guchte	Linoleum	Black/White Fibrous Homogenous	50% Cellulose	50% Other	None Detected
394041 13A Bath 11 Analyst: Alex Vande Guchte	Square Patterned Linoleum	Beige Fibrous Homogenous	3% Cellulose	97% Other	None Detected
394042 13B Bath 11 Analyst: Alex Vande Guchte	Square Patterned Linoleum	Beige Fibrous Homogenous	2% Cellulose	98% Other	None Detected
394043 14A Pantry 12 Analyst: Alex Vande Guchte	12x12 Floor Tile	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

## Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 333 Mason, Muskegon, MI

**ETC Job :** 177239  
**Client Project :** N/A  
**Date Collected :** 02/09/2016  
**Date Received :** 02/11/2016  
**Date Analyzed :** 02/17/2016

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
394044 14B Pantry 12 Analyst: Alex Vande Guchte	12x12 Floor Tile	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
394045 15A Pantry 12 Analyst: Alex Vande Guchte	Linoleum	Beige/Gold Fibrous Homogenous	70% Cellulose	30% Other	None Detected
394046 15B Pantry 12 Analyst: Alex Vande Guchte	Linoleum	Beige/Gold Fibrous Homogenous	70% Cellulose	30% Other	None Detected
394047 16A Ext N Analyst: Alex Vande Guchte	Paper House Wrap	Tan Fibrous Homogenous	70% Cellulose	30% Other	None Detected
394048 16B Ext N Analyst: Alex Vande Guchte	Paper House Wrap	Tan Fibrous Homogenous	100% Cellulose		None Detected



Lab Supervisor/Other Signatory



Analyst: Alex Vande Guchte

400 Point Count Results by EPA 600/R-93/116 PLM (denoted by "PC")  
 Item 198.1: PLM Methods for Identifying and Quantitating Asbestos in Bulk Samples  
 Item 198.6: PLM Methods for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples  
 EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials  
 EPA 600/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested.

**ENVIRONMENTAL TESTING LABORATORIES, INC**

38900 Huron River Drive  
 Romulus, Michigan 48174  
 (734) 955-6600  
 Fax: (734) 992-2261  
[www.2etl.com](http://www.2etl.com)

**Bulk Asbestos  
 Chain of Custody**

ETL Project #: \_\_\_\_\_

Client: <b>ETC</b>	Contact: <b>AARON VANKEE</b> <b>STU VANKEE</b>	Project Location/name: <b>MUSKEGON BLIGHT</b> <b>333 MASON AVE</b>
	Phone:	
Address: <b>Romulus</b>	Fax:	Client Project #: <b>177239</b>
	E-mail:	
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		Date Sampled: <b>2-9-16</b>

Turnaround Time (TAT):  RUSH  Same Day  24 hr  48 hr  Standard (3+ days)  Other \_\_\_\_\_

**PLM Instructions**  
 (Check all that apply)

<input checked="" type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input type="checkbox"/> Stop at 1st Positive - Clearly mark Homogenous Group
<input type="checkbox"/> Point Counting: 400 Points*	
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	<input type="checkbox"/> Soil or Vermiculite Analysis *

\* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
394011	01A - 01G	See sample SUMMARY of sheets	
↓	02A - 02C		
↓	03A - 16B		
394048			

	Name/ETL	Date	Time
Relinquished (Name/Organization):	<b>STU VANKEE/ETC</b>	<b>2-9-16</b>	am/pm <b>2</b>
Received (Name/ETL):	<i>[Signature]</i>	<b>2/11/16</b>	am/pm
Stereoscopical Analysis (Name/ETL):	<i>[Signature]</i>	<b>2/11/16</b>	am/pm
Sample Login (Name/ETL):	<i>[Signature]</i>	<b>2/11/16</b>	am/pm
Analysis (Name/ETL):	<i>[Signature]</i>	<b>2/11/16</b>	am/pm
QA/QC Review (Name/ETL):			am/pm

Special Instructions:	Remarks:
-----------------------	----------

## Asbestos Material Sampling Summary Sheet Surfacing materials

Revision date 5/7/2015

Job #:	Building:			Date:			
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
	Material: PLASTER	F	A	DIN 9 - EAST WALL	THROUGHOUT		
01	WALL & ceiling GRAY BASE WHITE FINISH		B	LIV 1 - SOUTH WALL			
			C	DIN 9 - CEILING @ STAIRS			
			D	KIT 10 - N WALL			
			E	BED 8 - CEILING			
			F	BED 6 - WALL			
			G	BED 7 - WALL			
			Material:				
	Material:						

000 SF = 3 samples

1000 - <5000 = 5 samples

**Asbestos Material Sampling Summary Sheet**  
**TSI (Thermal System Insulation) materials**

Revision date 5/7/2015

Job #: 177239		Building: 333 MASON AVE			Date: 2-9-16			
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
02	Material: DUCT WRAP	F	A	RM 6	RISER to 2nd FL 	THROUGHOUT + BASEMENT	150 SF	394018
	Description: gray paper		B	RM 7				
	WITHIN WALLS & BASEMENT		C	RM 8				
Material:								
Description:								
Material:								
Description:								
Material:								
Description:								
Material:								
Description:								
Material:								
Description:								

3 samples with the exception of patches less than 6 LF or 6 SF, then only 1 sample

**Asbestos Material Sampling Summary Sheet**  
**Miscellaneous materials**

Revision date 5/7/2015

Job #: 177239		Building: 333 MASON AVE MUSKOGEE			Date: 2-9-16		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
03	Material: CHIMNEY CEMENT	NF	A	BASEMENT TO water heater	<del>BASEMENT</del>	25F	394021
	Description: WHITE		B				394022
04	Material: LINOLEUM	F	A	BASEMENT NORTH SIDE		300 SF	394023
	Description: WHITE		B				394024
05	Material: DRYWALL	F	A	BASEMENT NE		1200 SF	394025
	Description: WHITE		B				<del>BASEMENT</del> LAUNDRY CEILING
06	Material: MUD / JOINT compound	F	A	BED 6	WALL CORNER	1200 SF	394027
	Description: WHITE		B				BED 6
07	Material: BLOWN IN	F	A	BED 8	- WALL		394029
	Description: BEIGES wall ceiling		B				BED 8
08	Material: ROOF	NF	A	EXT. PEAK NEAR BED 7			394031
	Description: BLACK SHINGLES		B				
09	Material: FLOOR TILE	F	A	BED 2		150 SF	394033
	Description: BROWN 9x9 inch		B				BED 2
10	Material: LINOLEUM	F	A	BED 2	UNDER #9	150 SF	394035
	Description: green		B				BED 2
11	Material: FLOOR TILE	F	A	KITCH 10		170 SF	394037
	Description: 12x12 INCH green MARBLE - STICKON		B				KITCH 10
12	Material: LINOLEUM	F	A	KITCH 10		170 SF	394039
	Description: <del>WHITE</del> BLACK/WHITE		B				KITCH 10 (UNDER #11)

**Asbestos Material Sampling Summary Sheet**  
**Miscellaneous materials**

Revision date 5/7/2015

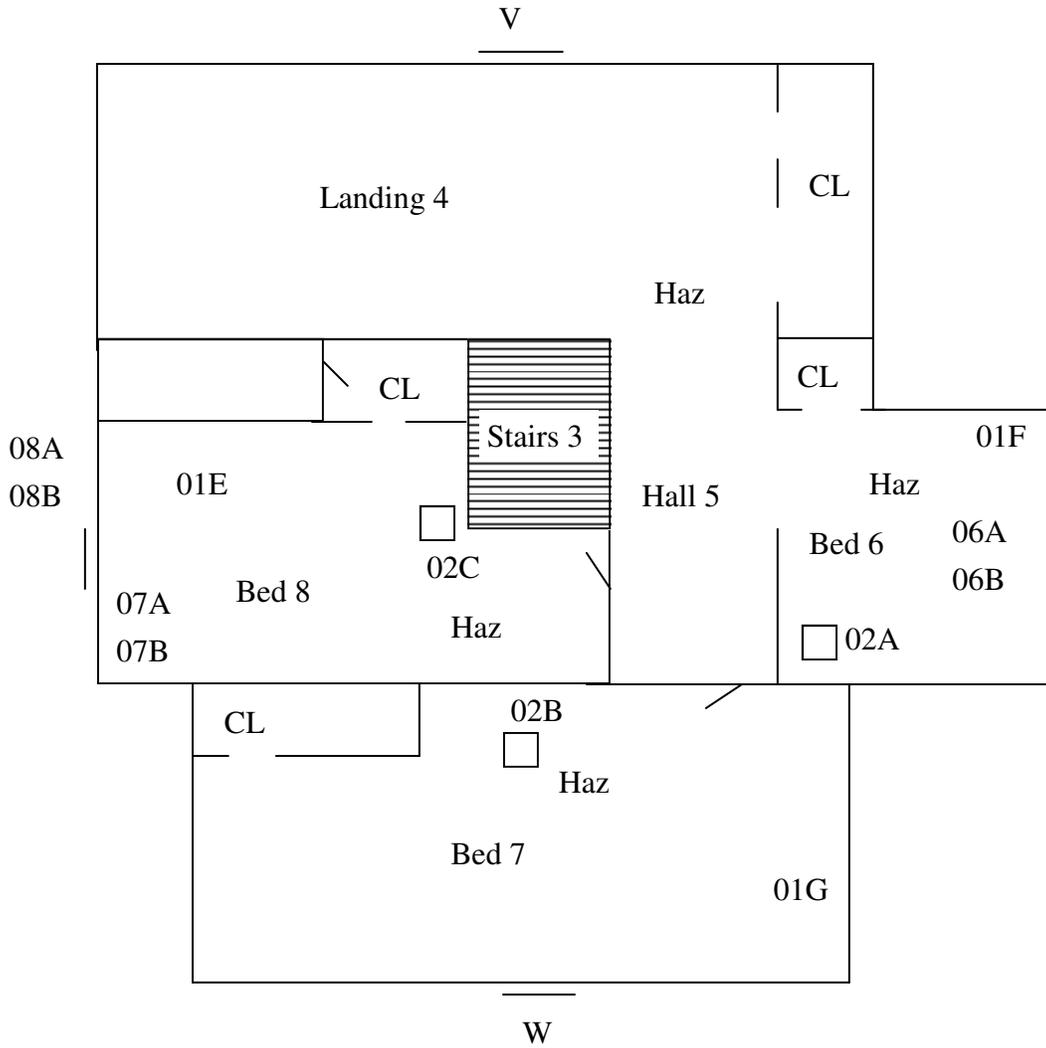
Job #: 177239		Building: 333 MASON AVE			Date: 2-9-16		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
13	Material: LINOLEUM	F	A	BATH 11	11	50 SF	394041
	Description: BELGE SQ. PATTEEN		B	BATH 11			394042
14	Material: FLOOR TILE	F	A	PANTRY 12	12	40 SF	394043
	Description: 12x12 inch white		B	PANTRY 12			394044
15	Material: LINEOLEUM	F	A	PANTRY 12 UNDER #12	12	40 SF	394045
	Description: BELGE / GOLD		B	PANTRY 12 UNDER #12			394046
16	Material: HOUSE WRAP	F	A	EXTERIOR - NORTH			394047
	Description: TAN PAPER		B	1 4			394048
	Material:						
	Description:						
	Material:						
	Description:						
	Material:						
	Description:						
	Material:						
	Description:						

# **APPENDIX B**

## **SITE MAP**



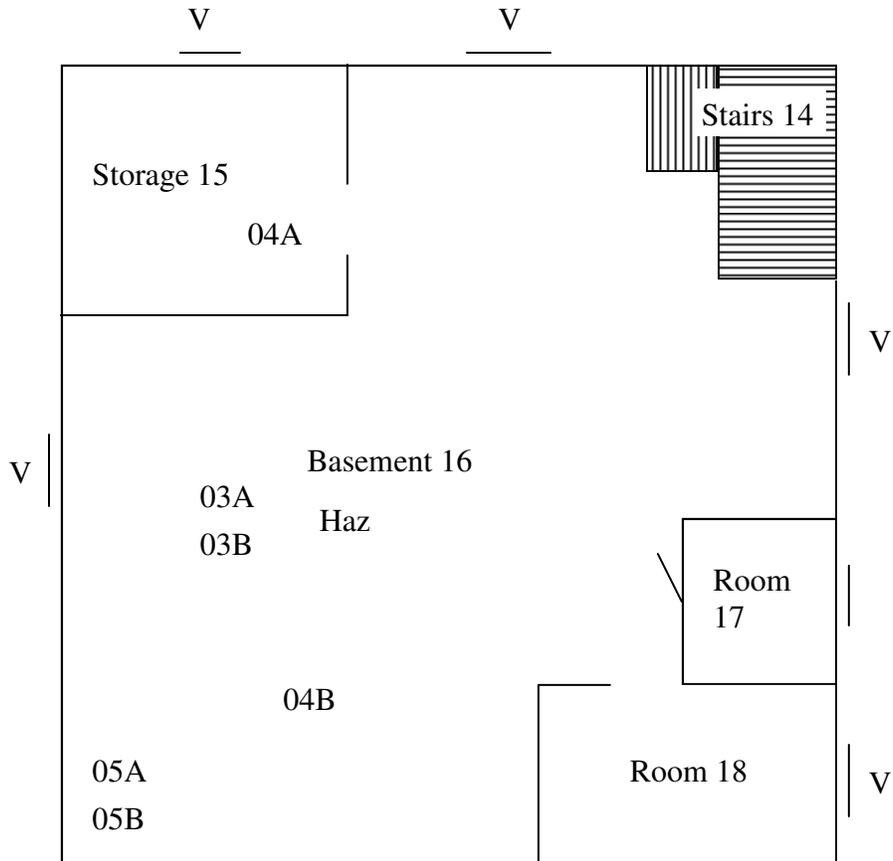
2nd floor



Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.



Basement



Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.



**APPENDIX C**

**PHOTOGRAPHS**



Side A (Front of House)



Side B



Side C



Side C (Back of House)



Haz



Haz



Haz



Haz



Haz



Haz



Haz



Haz



Haz

## **APPENDIX D**

# **STATE OF MICHIGAN NOTIFICATION OF INTENT TO REMOVE/DEMOLISH**

# NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
(MDEQ) AIR QUALITY DIVISION  
NESHAP, 40 CFR Part 61, Subpart M



MICHIGAN DEPARTMENT OF LICENSING AND  
REGULATORY AFFAIRS (LARA), ASBESTOS PROGRAM,  
P.A. 135 OF 1986, AS AMENDED, Section 220 (1-4) or (8)

**DEQ/LARA USE ONLY**

Postmark Date \_\_\_/\_\_\_/\_\_\_ Rec'd Date \_\_\_/\_\_\_/\_\_\_  
 Emergency Date \_\_\_/\_\_\_/\_\_\_ Valid No. \_\_\_\_\_  
 OK  Send Def Ltr. Date of Def Ltr. \_\_\_/\_\_\_/\_\_\_  
 FOLLOW UP \_\_\_/\_\_\_/\_\_\_ Spoke w/ \_\_\_\_\_  
 Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Notification No. \_\_\_\_\_ Trans No. \_\_\_\_\_

**Calculate LARA Asbestos Project Fee:** (1% Project Fee)  
 Total Project Cost: \_\_\_\_\_ x 0.01 = \_\_\_\_\_  
 Type of Contractor: \_\_\_\_\_ License No.: \_\_\_\_\_  
 Licensing Authority: \_\_\_\_\_

**1. NOTIFICATION:**  
 Date of Notification: \_\_\_\_\_  
 Date of Revision(s): \_\_\_\_\_  
 Notification Type:  Original  Revised  Canceled  Annual  
**Mark appropriate boxes: (both DEQ and LARA may apply):**  
**DEQ (NESHAP) [260 In. ft./160 sq. ft. or more is threshold]**  
 Planned Renovation – 10 working days notice  
 Emergency Renovation  
 Scheduled Demolition – 10 working days notice  
 Intentional Burn – 10 working days notice  
 Ordered Demolition  
**LARA (MIOSHA) [Will not accept annual notifications]**  
 Demo, Reno, Encap. (>10 In. ft./15 sq. ft.) 10 calendar days notice  
 Emergency Renovation/Encapsulation

**2. PROJECT SCHEDULE:**

	START DATE	END DATE
* Renovation	_____	_____
+Asb. Removal	_____	_____
+Demolition:	_____	_____
Encapsulation:	_____	_____

**Work Schedule:** Please indicate the anticipated days of the week and work hours for the purpose of scheduling a compliance inspection.

	Days of the Week	Work Hours
Asb. Removal:	_____	_____
Demolition:	_____	_____
Encapsulation:	_____	_____

\* Includes setup, build enclosure, asbestos removal, demobilizing, etc.  
 +Include only those dates you are conducting asbestos removal/demo.  
 Check here if this is a multi-phased project, attach a schedule showing the start/end date of each phase.

**3. ABATEMENT CONTRACTOR:** Internal Project #: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_  
 E-mail: \_\_\_\_\_  
 Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

**4. DEMOLITION CONTRACTOR:** Internal Project #: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_  
 E-mail: \_\_\_\_\_  
 Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

**5. FACILITY OWNER:** ("Facility" includes Bridges)  
 Name: \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_  
 E-mail: \_\_\_\_\_  
 Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

**6. FACILITY DESCRIPTION:**  
 Facility Name: \_\_\_\_\_  
 Location Address/Description: \_\_\_\_\_  
 \_\_\_\_\_ If Apt. # of units: \_\_\_\_\_  
 City/Twp. \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 County: \_\_\_\_\_ Nearest Crossroad: \_\_\_\_\_  
 Size: (sq. ft.) \_\_\_\_\_ No. of Floors: \_\_\_\_\_ Floor No.: \_\_\_\_\_  
 Age: \_\_\_\_\_ Present Use: \_\_\_\_\_ Prior Use: \_\_\_\_\_  
 Specific Location(s) in Facility: \_\_\_\_\_

**7. DISPOSAL SITE:**  
 Name: \_\_\_\_\_  
 Location Address: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_

8. WASTE TRANSPORTER 1:	WASTE TRANSPORTER 2:
Name: _____	_____
Address: _____	_____
City/State/Zip: _____	_____
Phone: _____	_____

**9. ORDERED DEMOLITIONS:** (See NESHAP regulations for definition of "Ordered Demolition.") A copy of the official Order must accompany this notification.  
 Gov't Agency Ordering Demo: \_\_\_\_\_  
 Name/Title of Person Signing Order: \_\_\_\_\_  
 \_\_\_\_\_  
 Date of Order: \_\_\_\_\_ Date Ordered to Begin: \_\_\_\_\_

**10. IS ASBESTOS PRESENT?**  Yes  No  To be removed prior to demolition

**Estimate the amount of asbestos:** Include RACM (Regulated Asbestos Containing Material) to be removed, encapsulated, etc. Also include the amount and type (floor tile, roofing, etc.) of non-friable Category I and/or Category II ACM that will not be removed prior to demolition. (NOTE: In a demolition, cementitious ACM cannot remain in a structure, as it is likely to become regulated in the demolition/handling process. It must be removed prior to demolition.)

RACM to be Removed	RACM to be Encapsulated	Non-friable ACM <u>not</u> removed prior to demo.		Units of Measure	
		Category I	Category II		
				<input type="checkbox"/> Ln. Ft.	<input type="checkbox"/> Ln. M.
				<input type="checkbox"/> Sq. Ft.	<input type="checkbox"/> Sq. M.
				<input type="checkbox"/> Cu. Ft.*	<input type="checkbox"/> Cu.M.*

\*Volume (cubic ft./meters) should be used only if unable to measure by linear/square measure (example: asbestos has fallen off of surface).

(continued on reverse side)

**NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH (continued)**

**11. PROJECT DESCRIPTION:** Complete **A) for Renovation** (asbestos removal/encapsulation) and/or **B) for Demolition:**

**A) RENOVATION:** Mark all surfaces/types of RACM to be removed:

- Piping     Fittings     Boiler(s)     Tanks(s)  
 Beam(s)     Duct(s)     Tunnel(s)     Ceiling Tile(s)  
 Mag Block     Other (describe) \_\_\_\_\_

**Encapsulation (for LARA):** Mark surfaces/types to be encapsulated:

- Piping     Fittings     Boiler(s)     Tank(s)  
 Beam(s)     Duct(s)     Tunnel(s)     Ceiling Tile(s)  
 Other (describe) \_\_\_\_\_

**Method of removal:** Describe how the asbestos will be removed from the surface (example: glove bag, scrape with hand tools, cut in sections and carefully lower, etc.): \_\_\_\_\_  
 \_\_\_\_\_

**B) DEMOLITION:** Describe the method of demolition of facility, bridge, etc., and indicate if complete or partial. If partial, describe which part of facility bridge, etc., will be demolished: \_\_\_\_\_  
 \_\_\_\_\_

**12. ENGINEERING CONTROLS:** Describe work practices and engineering controls used to prevent visible emissions before, during, and after removal, and until proper disposal: \_\_\_\_\_  
 \_\_\_\_\_

**13. UNEXPECTED ASBESTOS:** Describe the steps you intend to follow in the event that unexpected RACM is found or previously non-friable asbestos becomes friable (crumbled, pulverized, reduced to powder, etc.) and therefore regulated: \_\_\_\_\_  
 \_\_\_\_\_

**14. PROCEDURE(S) USED TO DETECT THE PRESENCE OF ASBESTOS:** **A)** Indicate how you determined whether or not asbestos is in the facility. If analytical sampling was used, describe method of analysis. (The determination of the presence or absence of asbestos must be made prior to submitting a renovation/demolition notification.): \_\_\_\_\_  
 \_\_\_\_\_

**B)** Name, address, and phone number of company performing asbestos survey: \_\_\_\_\_

**C)** Name, accreditation number of inspector, and date of inspection: \_\_\_\_\_

**15. EMERGENCY RENOVATIONS:** Date/time of emergency: \_\_\_\_\_ Describe the sudden, unexpected event: \_\_\_\_\_  
 \_\_\_\_\_

Explain how the event caused unsafe conditions, and/or would cause equipment damage and/or an unreasonable financial burden: \_\_\_\_\_  
 \_\_\_\_\_

**16.** I certify that an individual trained in the provisions of 40 CFR Part 61, Subpart M, will be on-site during the renovation and during demolition involving RACM above the threshold and/or during an ordered demolition. Evidence that this person has completed the required training will be available for inspection at the renovation or demolition site.

\_\_\_\_\_  
*Signature of Owner or Abatement Contractor      Date*

\_\_\_\_\_  
*Signature of Owner or Demolition Contractor      Date*

**17. Signature Requirements for Projects with Negative Pressure Enclosures: (required by LARA)**  
 Per Section 221(1)(2) of P.A. 135 of 1986, as amended, clearance air monitoring is required for any asbestos abatement project involving 10 linear feet/15 square feet or more of friable material which is performed within a negative pressure enclosure. *I (the building owner or lessee) have been advised by the contractor of my responsibility under Act 135 to have clearance air monitoring performed on this project.*

\_\_\_\_\_  
*Signature of Building Owner or Lessee      Date*

\_\_\_\_\_  
*Signature of Asbestos Abatement Contractor Representative      Date*

**NOTE:** It is not mandatory that a signed copy be sent to LARA unless requested. For affected projects, this section of the notification form must be completed, signed, and made part of your records before the project begins.

**18. I certify that the above information is correct:**

\_\_\_\_\_  
*Printed Name of Owner/Operator      Date*

\_\_\_\_\_  
*Signature of Owner/Operator      Date*

**MAILING ADDRESSES/PHONE NUMBERS:** (See Item 1 to determine which agency requirements/regulations are applicable to your project.)

For **Public Act 135 of 1986, as amended, Section 220 (1-4) or (8)**, mail to address below. For more info visit: <http://www.michigan.gov/asbestos>

MIOSHA Asbestos Program  
 LARA, CSHD  
 P.O. Box 30671  
 Lansing, MI 48909-8171

517.636.4551 (office), 517.322.1713 (fax)

For **NESHAP Demolitions/Renovations, 40 CFR, Part 61, Subpart M**, mail notifications to the appropriate address below (by county of subject facility): For more info visit <http://www.michigan.gov/deq> click on Air, then Asbestos NESHAP Program.

**All Counties (except Wayne County)**

NESHAP Asbestos Program  
 DEQ, AQD  
 P.O. Box 30260  
 Lansing, MI 48909-7760

517.241.7463 (Office)  
 517.373.7064 (Revision Line)

**Wayne County Only**

NESHAP Asbestos Program  
 Detroit Field Office, DEQ, AQD  
 Cadillac Place, Suite 2-300  
 3058 West Grand Boulevard  
 Detroit, MI 48202

313.456.4686 (Office)  
 313.456.2558 (Revision Line)