

CITY OF PETOSKEY

***Demolition & Asbestos Removal
915 Petoskey Street & 33 Bridge Street***

INVITATION TO BID

The City of Petoskey requests quotes from qualified firms for Demolition and Asbestos Removal Services. To be performed as part of the State of Michigan's Blight Elimination Program Demolition activities will include two residential buildings at 915 Petoskey Street and 33 Bridge Street, Petoskey, Michigan, 49770. Demolition contractors are invited to review this solicitation and, if interested, complete and return one original and one copy. The contractor selected will be responsible for demolition, abatement and restoration. Quotes for this work are due on or before 2:00 P.M., Friday, August 23, 2013, and are to be delivered or sent to:

City of Petoskey
Department of Public Works
Attention: Bill LaCross
110 West Sheridan Street (If hand delivered)
101 East Lake Street (If mailed)
Petoskey, MI 49770

Bid documents, plans and specifications may be reviewed at City Hall, 101 East Lake Street, Petoskey, Michigan, or may be obtained at www.petoskey.us/bids.

CRITICAL DATES

Identified below are the critical dates associated with this work. Further details and requirements are contained in the specific sections or attachments included in this package.

- Request for Quotes Issued Monday, August 5, 2013
- Mandatory Site Walk-Around Monday, August 12, 2013 at 10:00AM
- Question Deadline Friday, August 16, 2013 at 4:00PM
- Quotes Due Date Tuesday, August 21, 2013 by 2:00PM

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SECTION 1 PROGRAM GOALS AND OBJECTIVES

Demolition of residential and commercial properties is being undertaken as an approved eligible activity under the State of Michigan Land Bank Fast Track Authority's (MLB) Demolition Program. Therefore, the purpose of this Request for Quotes is to secure the services of contractors that can carry out demolition activities as identified within this solicitation.

SECTION 2 MINIMUM QUALIFICATIONS

Quotes will only be accepted from those firms demonstrating a minimum of five (5) years of relevant experience and sufficient capitalization to provide the services required for projects of similar scope and size.

SECTION 3 SCOPE OF WORK FOR RESIDENTIAL BUILDINGS

Description: The services required consist of demolition and clearance activities that include residential buildings located at 915 Petoskey Street and 33 Bridge Street, Petoskey, Michigan, 49770, as directed by the City of Petoskey. The services required consist of demolition and clearance of structures and contents, whether above or below ground on each site.

The scope of work and specifications are provided as follows:

1. Carry out the demolition and clearance activities in accordance with instructions identified in this scope of work or any special instructions that may be furnished by the City of Petoskey.
2. Coordinate demolition and clearance activities, ensuring that all approvals and permits are in place prior to the start of work. Conduct asbestos remediation for 915 Petoskey Street structure in accordance with attached asbestos survey (33 Bridge Street does not require asbestos abatement). As required, notify appropriate state or local agencies of structure containing asbestos.
3. The work area is limited within the structure's property boundaries. If additional workspace is required, Contractor will, at his/her expense, make such arrangements as necessary with the City of Petoskey or the neighboring property owner. Creation of a nuisance at the work-site is prohibited.
4. The worksite and equipment used is to be maintained to ensure the safety of workers and cause no harm to adjacent residents. Further details and requirements can be found on the following website; Michigan Department of Labor and Energy Construction Safety Standards Commission: http://www.michigan.gov/dleg/0,1607,7-154-11407_15368-88962--,00.html
5. The contractor ensures compliance with all requirements related to lead-based paint, asbestos and other hazardous materials. Asbestos surveys have been undertaken for both properties, with only 915 Petoskey Street requiring remediation, as outlined in the attached survey.
6. Demolition of buildings, basements and foundations includes:
 - a. Demolishing all structures on the property with full removal of basement exterior walls **and the floor-slab**. Demolition of all structures on the property without a basement, including the removal of all exterior walls, foundations, footings and slab-on-grade.

Structure containing asbestos will follow removal and disposal standards in accordance with the MDEQ NESHAP Asbestos Program and MDCIS Occupational Health Standards, Part 602, and applicable HUD and EPA requirements. All resulting holes or voids shall be backfilled to grade level and compacted with clean backfill per the requirements in Sections 3 and 4.

- b. Demolition shall be executed in an orderly and careful manner and shall not involve undue hazards to the general public or unnecessary risks to the workers
 - c. The erection of barricades, warning signs, etc. as safety precautions prior to wrecking operations and during wrecking operations shall be performed in strict compliance with all applicable Regulations. The Emmet County Building Code references the type of fences, barricades and other protective structures required, and other phases of the wrecking operation.
 - d. If, for any reason, the above requirements cannot be fully satisfied the Contractor shall immediately notify the City of Petoskey and receive directions regarding the management of special cases. Special care shall be exercised to avoid any damage to adjacent properties.
7. The demolition contractor should keep all building components adequately wet to eliminate dust and prevent the release of particulates into the air.
8. Clearance of sites includes; remove and dispose of all materials and debris in compliance with federal, state or local requirements, compaction, as required. Provide for erosion control; and other incidentals necessary to satisfactorily complete the improvement removal. All debris shall go to a licensed sanitary landfill. Copies of the landfill receipts for every load removed from the project site must be maintained and made available for inspection as requested.
- a) The following items shall be removed and disposed of properly; buildings, foundations, sign footings/bases, stem walls, steps, brush, dead trees and broken limbs, shrubs, bricks, or stone and all rubbish, scrap iron and general debris not particularly mentioned. Driveways, sidewalks flat work and such surfaces may be left standing with perimeters graded to permit moving operations unless specifically addressed on the Work Order provided by the City of Petoskey. The transition between the disturbed areas and the undisturbed areas will be graded to minimize abrupt slope change and possible erosion. Final grade contours will be carried to existing contours such that there is a smooth transition with no ponding of surface waters. Sewer lines to be abandoned at the property line and the end marked with a treated 4X4 post extending 6 inches above finish grade, and a 3' piece of ½ inch re-bar as approved by the City of Petoskey. Waterline shall be removed, cut and capped at the curb stop.
 - b) No existing streets or curbs shall be removed or damaged under this contract and all streets shall be kept open and clear of debris and litter during the performance of this contract.
 - c) Contractor must make arrangements for the discontinuation of natural gas service at both properties.
 - d) Any of the existing surface drainage or drainage structures and appurtenances by its operations will not be obstructed or impaired in any manner
 - e) Any accidental damage or break of any live utility lines will be the Contractor's responsibility to contact the respective utility company and to provide for the immediate repair of such damage at the Contractor's own expense. The Contractor must call Miss Dig at 811 a minimum of 72 hours before beginning this work.

Cleanliness of Work and Streets – Contractor is responsible for maintenance of the work site; which includes but is not limited to; removal of waste materials, rubbish. At the completion of the Work, the premises shall be left rake clean and seeded with a Final Grade.

- a) All materials resulting from demolition Work shall become the property of the Contractor.
- b) All Open Holes shall be backfilled within forty-eight (48) hours after Open Hole inspection.
- c) The backfill material shall be clean soil. Sand may be used up to two (2) feet below grade with the approval of the City of Petoskey.
- d) All excess material (e.g., demolition rubbish, debris) and equipment (e.g., barricades, scaffolds etc.) used by the Contractor shall be promptly removed from the premises when no longer required for completion of the Work.
- e) Wood and other waste shall not be burned at the site, but shall be removed from the site with other debris. After demolition, the lot shall be graded uniformly to conform to the grade of the adjoining properties. The leveling of the lot surface shall be done in a way to preclude excessive runoff into the abutting street, alley, or property or cause pooling in the lot area. 33 Bridge Street property must be regarded near street to permit installation of sidewalk in-line with nearby existing sidewalk.
- f) Waste material including both asbestos containing and non-asbestos containing waste shall be disposed of in compliance with all current Federal, State, and Local laws and regulations and the Specifications. All generated materials and waste manifests shall be furnished to the City of Petoskey. Any Request for Payment submitted without waste tickets included, shall be returned to the Contractor as un-payable.
- g) The Contractor shall be responsible for obtaining approval for transportation and disposal of waste in compliance with applicable EPA, Federal, Michigan and DOT regulations.
 - i. When removing or disposing of lead-based paint materials, such materials should be kept wet and covered during transport to eliminate dust and prevent the release of particulates into the air. Material containing lead-based paint that is exempted from hazardous waste management requirements as household waste may be disposed of in a construction and demolition landfill or a municipal solid waste landfill.
 - ii. When removing or disposing asbestos materials, such materials shall be kept wet and covered during transport to eliminate dust and prevent the release of particulates into the air in compliance with CFR, Title 40, Volume 7, Part 61.150.
9. Upon demolition completion the Contractor shall backfill and finish the property at Final Grade with 3 inches of screened topsoil and seed the site as directed. The grass seed shall be a “NO MOW” Lawn Mix w/ Annual Rye and shall be applied in accordance with the manufacturer’s specifications on lot of razed structure. The City of Petoskey must approve proposed contractor grass seed to ensure specifications are met prior to use.
10. There will be no consideration of additional time or compensation allowed for asbestos issues.

The City of Petoskey shall monitor the site during all phases of demolition and backfilling including the type of backfill material used. The City of Petoskey shall be the sole approving agency for payment. Site is not to be accessed by “climbing” curbs. Use the existing driveway for site access and for off-loading dumpsters. Contractor will be responsible for replacement of all damaged walks and curbs.

SECTION 4 PERFORMANCE REQUIREMENTS

The contractor must:

- a) Begin work within 30 days after receiving a notice to proceed from the City of Petoskey. It is the Contractor responsibility to notify the City of Petoskey within 24 hours if the site is not accessible. At least 10 days prior to the start of any activities, the Contractor must file a notification of Intent to Renovate/Demolish with the Michigan Department of Environmental Quality with copies to Occupational Health Division, Asbestos Program and the City of Petoskey.
- b) Complete load-out within 48 hours after knockdown.
- c) Backfill all open holes within 48 hours after Open Hole Inspection by Inspector. All open holes must be secured overnight with construction fencing.

If unforeseen circumstances arise or work must be performed outside of the Contractors usual workweek, modifications to schedules may be requested and written approval must be received in writing from the City of Petoskey.

SECTION 5 PRICE PROPOSAL

Contractors shall submit a price quote using the format provided in Appendix B. Pricing quotes should be the last sheet of the response.

SECTION 6 OTHER TERMS AND CONDITIONS

In addition, to the scope of services identified in Section 3, Contractors must comply with other federal and administrative requirements which will ensure that all work is performed and carried out to ensure timely and effective performance. Contract terms will be further detailed in the final contract executed between the City of Petoskey and the Contractor. Contractual requirements include;

1. Project Oversight - The contractor is to be responsible for:
 - a) Providing and maintaining all qualified personnel, equipment, materials and other resources necessary to perform activities identified in Section 4, Scope of Services in a timely manner.
 - b) Ensuring all appropriate operational control of demolition activities assigned, initiating all necessary measures to ensure adequate quality control, which includes but not limited to: completion of all documentation, maintaining document controls and records related to activities carried out.
 - c) Identifying a Project Manager or designated representative who will serve as the Contractor's contact person and has final authority for the Contractor on all matters relating to the contract.
 - d) Coordinating with the City of Petoskey on matters relating to project requirements, completion and actions that require immediate attention or that impact on the results or quality of the work to be performed.
2. Compensation is based on the satisfactory completion of work and the submission of a properly executed and completed request for payment form.

3. Rescheduling, postponement and Termination- the City of Petoskey reserves the right, in part or in whole, to reschedule, indefinitely postpone work, or terminate the services of any contract that is entered into between the Contractor and the City of Petoskey. Contracts may be terminated for any of the following circumstances; failure of the Contractor to perform the services detailed in the executed contract, including any modifications, failure of the Contractor to meet performance requirements or any other terms or conditions of the contract. the City of Petoskey has the right to terminate a contract at any time at its convenience by giving the Contractor ten (10) business days written notice of termination for convenience
4. Except as provided in the contractor's proposal and approved by The City of Petoskey, the Contractor cannot reassign or transfer work to subcontractors without authorization from the City of Petoskey.
5. The Contractor is responsible for the accuracy of the work performed and is required to make all necessary revisions or corrections resulting from errors and omissions on the part of the Contractor without additional compensation. Acceptance of the work by the City of Petoskey will not relieve the Contractor of the responsibility for subsequent correction of any such errors and omissions and the clarification of ambiguities.
6. Contractor is required to maintain insurance as described in Part 2, at its expense; In lieu of Performance and Payment Bonds the Contractor shall provide an Irrevocable Letter of Credit for One Hundred percent (100%) of the Contract price.
7. Permits - It is the Contractor's responsibility to obtain all permits necessary to perform the work as specified and assume any fees associated with doing so
8. As required, the Contractor must comply with Section 3 requirements, described in Appendix A.
11. No reimbursement is contemplated to be paid for travel under contracts awarded.
12. The Contractor may only proceed with this work upon notification from The City of Petoskey.

SECTION 7 SUBMISSION REQUIREMENTS AND INSTRUCTIONS

Contractors submitting a quote for this work must complete and submit all required forms, documents or additional information requested. Contractors shall submit one original and one copy of each quote. Quotes are to be submitted in a sealed envelope, which is clearly marked with the following information:

- Demolition of Residential Buildings
- Company's Name and Address
- Quotes Due Date Tuesday, August 21, 2013 by 2:00PM
- Attention: Bill LaCross

The quotes must be received no later than 2 pm on Tuesday, August 21, 2013 at:

City of Petoskey
101 E Lake Street
Petoskey, Michigan 49770
Attention: Bill LaCross

Quotes can be mailed to the above address or may be delivered in person to 110 West Sheridan. If mailed, responses must be received on or before August 21, 2013 by 2pm. Quotes received after the deadline will be rejected.

Quotes must be signed by an officer or representative of the company who is authorized to bind the company to an agreement obligation with the City of Petoskey. Proposals submitted by partnership or joint venture must list the full names and addresses of all parties.

Quotes received become the property of the City of Petoskey. The City of Petoskey is not responsible for any costs associated with the preparation or submission of Proposals.

Responses received will not be available for review. News releases regarding the selections and any issues related to these quotes are made only with the prior approval of the City of Petoskey. All firms submitting a quote will be notified of the City of Petoskey's selection. Failure to submit a complete application may result in the disqualification of the bidder's submission.

The City of Petoskey may make changes to the requirements of these quotes as deemed necessary. Such changes, if made will be in writing, issued through the City of Petoskey and will be sent to each Respondent who is on record. If changes are made, the City of Petoskey may, at its discretion, extend the time allowed for submission of proposals.

**ATTACHMENT A
Submission for Demolition of Residential Buildings**

For City of Petoskey

**PART 1
Organizational Information**

Company Name: _____

Company's Type of Legal Entity (check one)
 Sole Proprietorship Limited Liability Corporation
 Partnership Limited Liability Partnership
 Corporation Other: _____

Taxpayer ID No. _____

Address Street City State Zip Code:

Company Website Address: _____

Email Address: _____

Phone Number: _____

Contact Information:

Name: _____

Phone Number: _____ **email address:** _____

Address if different from above:

If this is a joint application, include an additional sheet providing all information above for any sub-contractors you intend to use.

PART 2
Documents Required for Submission with Proposal

Company Name: _____

These documents must be submitted and found acceptable. Failure to submit, incomplete information or documents found to be unacceptable will result in disqualifying the quote.

1. Evidence of Insurance:

The insurance requirement shall be written not less than any limits of liability specified herein, or required by the law, whichever is greater, and shall include contractual liability insurance as applicable to the Contractor's obligations.

Comprehensive <u>General Liability</u>	Each <u>Occurrence</u>	Aggregate <u>Amount</u>
Bodily Injury	\$500,000	\$1,000,000
Personal Injury	\$500,000	\$1,000,000
Property Damage	\$500,000	\$1,000,000
 Automobile <u>Liability</u>	 Each <u>Occurrence</u>	
	\$1,000,000	

Certificates of Insurance acceptable to the City shall be filed with the City prior to the commencement of the work. These certificates shall contain a provision that coverage afforded under these policies will not be cancelled until at least fifteen (15) day's prior notice has been given to the City. The City of Petoskey shall be named on the policy as an additional insured.

2. Section 3 Compliance Plan

3. Signature Page

4. Documentation Information

5. Quotes - one original and one (1) copy

6. Answers to Questions below:

- a. Is your Company currently the subject of any regulatory investigation? If yes, please explain.
- b. Has your Company ever failed to complete work within the last 5 years? If yes, please explain.
- c. Has your Company been found non compliant or plead guilty to any regulatory violation within the last 5 years? If yes, please explain.

PART 3
PROPERTY LIST

33 Bridge Street, Petoskey, Michigan, 49770
915 Petoskey Street, Petoskey, Michigan, 49770

PART 4
Completeness Checklist

Use this form to check to ensure that all documents are included with your submission

_____ Part 1 – Organizational Information

_____ Part 2 – Required Documents for Submission

_____ Appendix B – Price Quote(s)

Appendix D – RFP/Contract Definitions

I. DEFINITIONS

Capitalized terms, or pronouns defined herein, or used in the remaining Contract Documents, incorporated by reference, shall have the definitions set forth herein unless a different meaning is made clear by the context.

ADEQUATELY WET – means sufficiently mixed or penetrate with liquid to prevent the release of particulates or visible emissions.

ASBESTOS CONTAINING MATERIAL (ACM) – includes both friable (i.e., easily crumbled or reduced to particles) asbestos-containing material or Class I non-friable asbestos-containing material.

BACKFILL- means filling the Open Hole left after removal of the Foundation to Final Grade level, with approved Backfill material according to the Specifications.

BULLETINS- means any additional Contract provisions, changes, revisions or clarifications of the Contract Documents issued in writing by the Director; on behalf of the MLB, to prospective proposers prior to the receipt of the proposals.

CHANGE ORDERS- means any material change to the overall scope of the Contract, which requires prior approval by the MLB. Example: changes in Contract price, which may result from changes in Scope of Work requirements.

MLB- means the Michigan Land Bank, a municipal corporation.

CLASS A LICENSE- means a wrecking Contractor's license authorizing the holder thereof to wreck all types of buildings and structures including wood frame masonry, steel frame and reinforced concrete buildings and structures unlimited by height.

CLASS B LICENSE- means a wrecking Contractor's license authorizing the holder thereof to wreck non-concrete or steel frame structures less than or equal to three (3) stories or thirty-five (35) feet in height.

COMPLETE WORK- means the Contractor's compliance with all licensing, permit, safety, and environmental requirements as well as site clearance, demolition of all buildings to include exterior walls, basement walls, basement foundations, footings, and slab-on-grade, appurtenances, contiguous buildings, fences, concrete walks, drives, transportation of debris, and backfilling and finishing the site surface with a Final Grade.

CONTRACT or CONTRACT DOCUMENTS- means all directions, requirements, standards, terms and conditions of performance as specified in this RFP in addition to any additional Contract provisions, changes, revisions or clarifications authorized by the Director or the Director's designee.

CONTRACTOR- means the individual or legal entity contracting with the City of Petoskey for performance of the prescribed Work.

DEMOLITION OFFICE – means TBD

DRAWINGS or CONTRACT DRAWINGS- means those drawings specifically entitled, dated and listed in this RFP, the Contract or any Bulletin.

EMERGENCY- means any building of such questionable structural integrity that it is deemed to be in imminent danger of collapse as determined by a Michigan Land Bank Building Official.

EMERGENCY DESIGNATED STRUCTURES – any building declared an Emergency that is awarded to a Contractor for demolition in accordance with these Specifications.

EXPERIENCED – means the Proposer/Wrecking Company has at least three years demolition experience and has demolished at a minimum ten (10) residential structures.

EXTRA WORK- means Work other than that expressly stated or implied in the Contract Documents at the time of execution of the Contract.

FINAL GRADE- means removing all excess material, rubbish, and debris from the premises, and leveling the surface of the lot to conform to the grade of the abutting properties. The leveling of the lot surface shall prevent excessive liquid run off into the abutting street, alley or adjacent properties or cause pooling.

FOUNDATION – all parts of a demolished structure still existing in the ground after Knockdown and Load-out, including but not limited, to basement walls, basement foundations, footings and slab on grade foundations.

HAZARDOUS MATERIALS- explosives, pyrotechnics, flammable gas, flammable compressed gas, nonflammable compressed gas, flammable liquid, combustible liquid, oxidizing materials, poisonous gas, poisonous liquid, irritating material, etiologic material, radioactive material, corrosive material, or liquefied petroleum gas. Michigan Fire Prevention Code, Public Act 207 of 1941 Also see Title 48 CFR, Part 171.8, Part 172.101, 40 CFR 26.13, and 49 CFR 171.8.

KNOCKDOWN- means the structure is brought down into the basement area or in a neat pile on the grade.

LOAD-OUT or LOAD-OUT PHASE- means the removal of demolition debris after Knockdown , occurring prior to the removal of the Foundation.

NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) - are air quality standards issued under the Clean Air Act for emissions standards set by the United States Environmental Protection Agency (EPA) for an air pollutant not covered by The National Ambient Air Quality Standards (NAAQS) that may cause an increase in fatalities or in serious, irreversible, or incapacitating illness.

NOTICE- means written notice.

OPEN HOLE – is a depression in the earth resulting from excavation and removal of all demolition debris and the Foundation of the structure after Knockdown.

PAYMENT BOND- is a bond secured by the Contractor that assures payment as required by law to all persons supplying labor and material in the execution of the Work provided for in the Contract.

PERFORMANCE BOND- is a bond executed in connection with a Contract to secure fulfillment of all the Contractor's Contractual obligations.

PERMIT – is an official certificate, that authorizes performance of a specified activity (i.e., construction, repair, demolition), issued by the approving authority with proper jurisdiction.

REQUEST FOR PAYMENT- means an invoice submitted by the Contractor for Work performed under the Contract.

RESPONSIBLE PROPOSER- is a Contractor possessing the demonstrated judgment, skill, ability, capacity, experience and integrity, requisite and necessary to perform the Work to standards and in the specified time, without regard to competing Contract commitments. See e.g., MCL 123.501

RESPONSIVE PROPOSAL- is a proposal that conforms, in all-material aspects, to the terms, conditions, specifications and requirements of the solicitation. See e.g., MCL 123.502

SCOPE OF WORK- encompasses all Contract performance requirements expressly stated or implied that are required to be furnished and completed by the Contractor in order to properly satisfy all Contract terms and conditions, except "Extra Work" as defined herein.

SITE- means the area bounded by the perimeter of the address supplied in the Contract or Notice to Proceed in which the Contractor has agreed to confine its operations. In special cases it may include other adjacent areas as may be designated by the Director or the Director's designee.

SPECIFICATIONS- means all of the directions, requirements, standards, terms and conditions of performance as specified in this RFP and the other Contract Documents.

SUBCONTRACTOR- means a person, firm, or corporation, other than the Contractor or its employees that Contracts with the Contractor to furnish, labor, labor and materials, or labor and equipment, at the site, but shall not include one who merely furnishes materials or equipment. All subcontractors shall be approved in advance by the Department.

SURETY BOND- in this context includes a Performance and Payment Bond as defined above and shall satisfy the requirements of 24 CFR 85.36(h)(1)-(3).

TOXIC MATERIALS- means any of 77 toxic substances and 63 flammable substances under the accident prevention provision of Section 112(r) of the Clean Air Act (CAA) and listed in Title 40, Part 68 of the Code of Federal Regulations (CFR); that in sufficient concentration, alone or in combination, poses a severe threat of gross damage to or destruction of the health, safety, or welfare of human, animal, or desirable plant life, or of the environment. Also see, Michigan Fire Prevention Code, Michigan Public Act 207 of 1941. It is important to note that Toxic Materials are a sub-set of Hazardous Materials consequently regulations concerning such substances are thoroughly addressed at the State and Federal Levels.

UTILITIES- means all public or private utility companies such as DTE Energy, SBC Ameritech Telephone Co., the Detroit Water and Sewerage Department, and the Detroit Public Lighting Department, to include name changes of any Utility listed.

UNBALANCED PROPOSAL- is a Proposal offer that contains a substantial variation in price to the extent that it affects the proposal process by giving the Proposer an advantage or benefit not allowed other Proposers.

WORK- is the explicit and implicit Contract Requirements as defined in the Scope of Work.

FREQUENTLY ASKED QUESTIONS

1. Is the entire document required to be turned in at the time of bid or only the documents to be filled?

You only need to return the forms which require you to submit information to the City of Petoskey and any additional documentation which supports your submittal. It is not necessary to return the instructions and the requirements sent to you. Pay particular attention to the required submittal information and the checklist included to ensure that all required information is returned.

3. The document states that the Contractor will obtain permits. Will the Contractor be required to obtain utility clearances?

No. MLB will pay for and provide all utility clearances as specified in the bid documents. Contractor is responsible for the cost of the demo permit estimated at \$150 for an average residential structure.

4. What is the meaning of ABATED?

Asbestos will be removed by a licensed contractor.

5. Will partial payments be allowed at open hole?

NO. Contractors shall invoice for work upon completion.

Appendix B – Pricing

Address	Abatement Cost	Demolition Cost	Total Cost
915 Petoskey Street			
33 Bridge Street	N/A		

Total Cost \$ _____

M A C K I N A C

environmental technology, inc.



**ASBESTOS SURVEY
RESIDENTIAL HOUSE
915 PETOSKEY STREET, PETOSKEY, MICHIGAN**

May 22, 2013
(Date of Assessment: May 10, 2013)

Prepared by:
*Mackinac Environmental Technology, Inc.
Petoskey, Michigan
MET Project No: M13-2108*

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LIST OF ATTACHMENTS

- Attachment #1: MDELG Accreditation Documentation

- Attachment #2: Figure 1, Site Plans

- Attachment #3: Laboratory Analytical Report

- Attachment #4: Photographs

1.0 INTRODUCTION

Mackinac Environmental Technology, Inc. (MET) conducted an Asbestos Survey (survey) of a residential house (house). The house is located at 915 Petoskey Street, Petoskey, Michigan. The survey was conducted on May 10, 2013 by Edward Radecki, a certified asbestos inspector (#30041). A copy of his Michigan Accreditation is included in **Attachment #1**.

House Description

- Date of Construction: 1900 (approximate)
- Size: 1,600 square-foot (sqf), two story house over a partial basement and crawl space.
- Construction: The house is wood-framed with peaked roof (finished with shingles - recent installation). The exterior is finished with wood clapboard. Nine original windows (finished with glazing) remain.
- Interior Walls and Ceilings: Plaster with newer additions of wood paneling and drywall (over some of the original plaster walls). Some plaster ceilings are covered with 12" x 12" tile (nailed) and 2' x 2' tile (nailed). Observed insulation in the walls and above ceilings is fiberglass and paper blow-in.
- Flooring: The flooring is hardwood. The hardwood is covered with linoleum (eight discrete types) and carpet. Recent renovations include placement of a top layer of snap-in flooring and 12" x 12" adhesive flooring in the bathroom.
- Heating: The original newer forced-air furnace was observed in the basement. Air ducts running from the furnace are covered with a paper duct wrap (the duct wrap is a presumed asbestos containing material – PACM). The paper duct wrap was not observed on air ducts running vertically from the basement or at the heat registers.

Applicable Asbestos Regulations and Standards: The survey was conducted in general accordance with the USEPA's Asbestos Hazard Emergency Response Act (AHERA) and OSHA's Asbestos Standard for General Industry (29 CFR1910.1001). References are included in Section 5.0.

Description of Survey: The objective of the survey was to visually assess all functional spaces in the house to determine the presence of presumed asbestos containing materials (PACMs) and SACMs. Samples of observed SACMs were collected and submitted to a contract laboratory for analysis to determine whether the sample contains asbestos. An asbestos-containing material (ACM) is defined by the United States Environmental Protection Agency (USEPA) as any material or product which contains more than one-percent (1%) asbestos.

MET collected 19 bulk samples of SACM. Sample locations are depicted on Figure 1, Site Plans (1st Floor, 2nd Floor and Basement) in **Attachment #2**. Each sample was placed into an air-tight zip-loc bag and triple bagged prior to shipment to the analytical laboratory for analysis. The samples were submitted to EMSL Analytical Inc. for polarized light microscopy (PLM) analysis via USEPA Method 600 to determine the presence or absence of asbestos fibers in the material. The laboratory was instructed to analyze each sample set until first positive result. In addition, the laboratory split some samples based on layering. This effort resulted in the analysis of 37 samples.

Limitations and Assumptions:

1. Observed insulation included original paper blow-in and newer pink fiberglass. Neither material was classified as a SACM.
2. Paper insulation around air ducts: Air duct runs in the basement are covered with a paper wrap. This thermal system insulation is a presumed asbestos containing material (PACM). MET did not observe the subject material outside the basement. However, it is possible that some air ducts that are buried in walls may include some of the subject wrap.
3. MET collected shingle samples from the 1st and 2nd story roofs. Evidence of older roofing materials was not evident. However, it is possible that older roofing material is located under the roofing material that was sampled. Based on the absence of analytical data proving otherwise, any older roofing that is encountered during the demolition is a PACM. The PACM roofing would be classified as a Category 1 material that is not likely to become friable in its present state or during demolition. Removal of PACM roofing can be completed as part of the demolition by the demolition contractor. Under MIOSHA, the demolition contractor is required to have a "Qualified" person supervise the work, remove the roofing in a manner that will not result in dislodging asbestos fibers and place the subject roofing material in a lined container for disposal at a Type II landfill.

2.0 HOMOGENEOUS AREA INVENTORY

Area #	Sample #	SACM Material	Location	Quantity	Asbestos
1	1-AB	Linoleum flooring 6	2 nd Floor Landing	180 SQF	NO
2	2	Linoleum flooring 7	2 nd Floor Bed 3	100 SQF	NO
3	3-AB	Linoleum flooring 1	1 st Floor Hall – top layer	54 SQF	NO
4	4-AB	Linoleum flooring 3	1 st Floor Hall – bottom layer	54 SQF	NO
5	5	Linoleum flooring 4	1 st Floor Bed 4 – top layer	100 SQF	NO
6	6-AB	Linoleum flooring 5	1 st Floor Foyer	120 SQF	NO
7	7	12" x 12" tile - nailed	2 nd Floor Landing & 1 st Floor Hall ceiling	144 SQF	NO
8	8-ABC	Window Glazing	Original windows	9 Windows	NO
9	9	12" x 12" tile	Dining Room ceiling	100 SQF	NO
10	10	2' x 2' tile	Foyer ceiling	120 SQF	NO
11	11-ABC	Drywall	Kitchen & Bedroom 1	550 SQF	NO
12	12-ABCDEFGF	Plaster	Original walls & ceilings throughout	>1000 SQF	NO
13	13	Wall paper	Living Room ceiling	190 SQF	NO
14	14	Linoleum flooring 2	2 nd Floor Bedroom 3	100 SQF	NO
15	15	Linoleum flooring 8	1 st Floor Bedroom 4 – bottom layer	100 SQF	NO
16	16	House Wrap	Two story	940 SQF	NO
17	17	Shingle	Two story roof	1300 SQF	NO
18	18	Shingle	Single story roof	500 SQF	NO
19	19	Grout	Chimney	160 SQF	NO
20	PACM	Duct Wrap	Basement air ducts from furnace	50 SQF	YES
21	PACM	Duct Tape -	Basement air ducts from furnace	7 SQF	YES
22	PACM	Furnace seal	Furnace	4 LF	YES

SQF = Square Feet LF = Lineal Feet

3.0 SURVEY RESULTS

- Sample locations are depicted on the Site Plans (1st Floor, 2nd Floor and Basement) in **Attachment #2**.
- A complete copy of the laboratory analytical report is included in **Attachment #3**.
- Photographs depicting conditions are included in **Attachment #4**.

Asbestos Containing Material: The following table presents a summary of the material that tested positive for asbestos fibers.

Area #	Material	Location	Quantity
20	Duct Wrap	Basement – Paper cover on 9” diameter air ducts.	50 SQF
21	Duct Tape	Basement – Tape wrap on air ducts.	7 SQF
22	Furnace seal	Furnace – Gasket behind access door.	4 LF

SQF = Square Feet LF = Lineal Feet

4.0 DISCUSSION

MET's May 10, 2013 Asbestos Survey identified asbestos in three materials.

1. Duct Wrap (PACM): The material is located on basement air ducts that run from the furnace.
 - Category 1 Thermal Insulation
 - Damaged and Friable in its current state.
 - 50 SQF

2. Duct Tape (PACM): The material is located on basement air ducts that run from the furnace.
 - Category 1 Thermal Insulation
 - Damaged and Friable in its current state.
 - 7 SQF

3. Furnace Seal (PACM): Gasket material under the front access panel.
 - Category 1 Thermal Insulation
 - May become damaged and friable if removed from the furnace.
 - 4 LF

Requirements for Demolition:

1. All regulated ACM that is friable or may become friable during the demolition process must be properly removed from the house prior to demolition. This includes all thermal system insulation from the basement (duct wrap, duct tape and furnace seal).

2. The removal must be conducted by a licensed asbestos abatement contractor.

3. A "Notice of Intent to Renovate/Demolish" must be filled in and submitted to the NESHAP Asbestos Program. This is followed by a mandatory 10 business day waiting period. This notification pertains to the asbestos removal and the demolition; each requires a notification.

5.0 CLOSING

Mackinac Environmental Technology, Inc. appreciates the opportunity to provide these consulting services. If you have any questions regarding this letter report, please do not hesitate to contact this office.

Sincerely,

Mackinac Environmental Technology, Inc.



Edward Radecki

Project Manager

Asbestos Inspector (#A30041)

6.0 REFERENCES

➤ **Asbestos Standard for General Industry (29 CFR1910.1001).**

The MIOSHA regulations apply to general housekeeping activities, maintenance and minor renovations in buildings constructed on or prior to 1980 that contain (or may contain) an ACM. It is intended to prevent the inadvertent exposure of employees and the general public to airborne asbestos fibers. Section (j)(2) of the Standard requires building owners to:

1. Determine the presence, location and quantity of all ACM in the building or work site (i.e. conduct an asbestos survey of the building).
2. Inform employees who will perform housekeeping, maintenance or renovation activities in those areas of the presence and location of the ACM that may be contacted/disturbed during their work activities.
3. If ACM is present, all housekeeping personnel (i.e. mechanical systems workers, electricians, custodians, plumbers, etc.) must be given an annual asbestos awareness training course as required under 29 CFR 1910.1001(j)(7)(iv).
4. Under MIOSHA, any ACM that is friable or may become friable is regulated. MIOSHA stipulates that the ACM may be properly removed by trained workers under supervision from a competent person (.e. a licensed asbestos abatement contractor).

➤ **National Emission Standards for Hazardous Air Pollutants - NESHAP (Section 112 of the Clean Air Act)**

These regulations pertain to building demolition or significant renovation (i.e. removal of a load-bearing wall). Under NESHAP, ACM material that is friable in its current state, or is considered to become friable if damaged or improperly removed, is regulated.

The regulated material must be removed from the building prior to demolition. In addition, the regulations require submittal of a form describing the abatement or demolition and a 10-business day waiting period.

ATTACHMENT #1



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MICHIGAN ASBESTOS PROGRAM - Verify and Search

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Name and Address

Name RADECKI, EDWARD A.
 Address P.O. Box 485 W1357 Pointe LaBarbe Road
 City, State, Zip SAINT IGNACE, MI 49781

License Information

License Type	ID #	Status	Expiration Date	Training Expiration Date
Inspector	A30041	Apprvd - Full	12/01/2013	09/07/2013

[PREVIOUS PAGE](#)

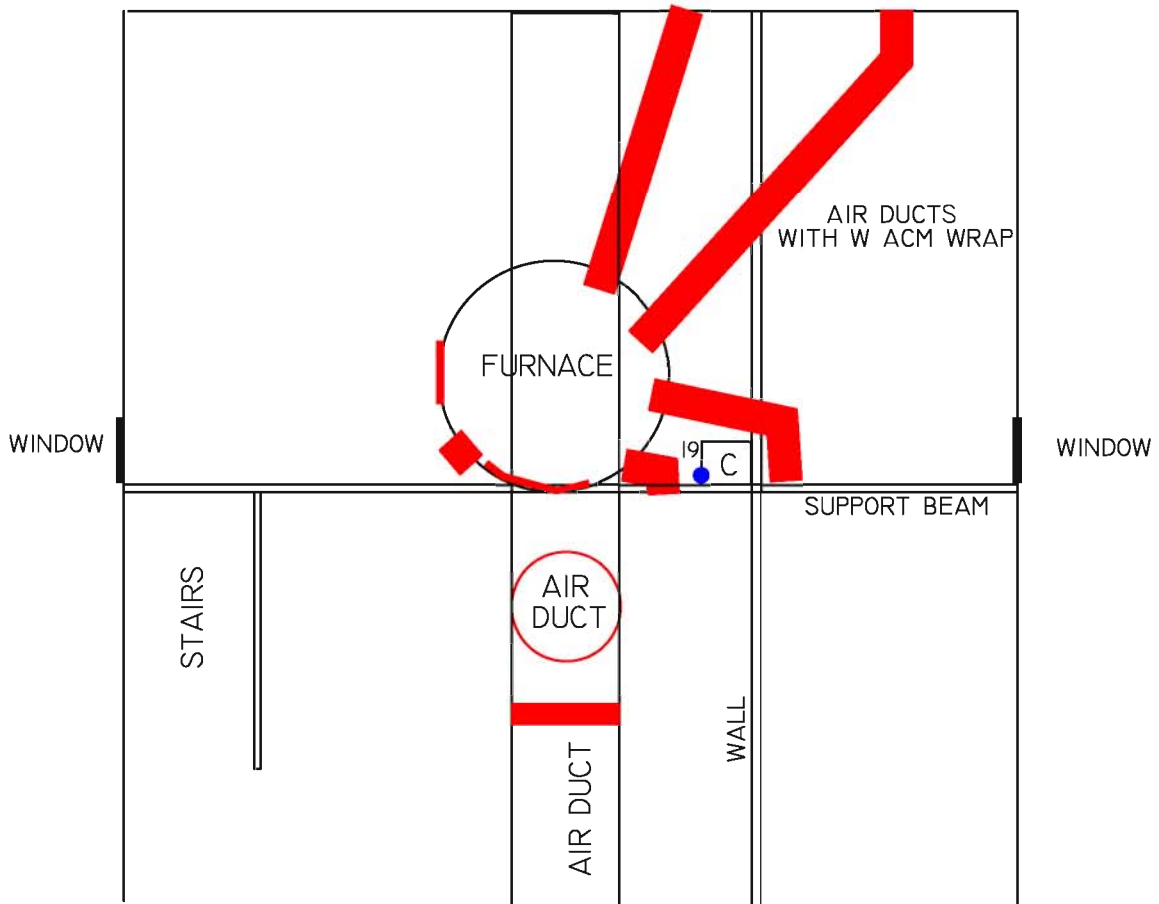
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ATTACHMENT #2

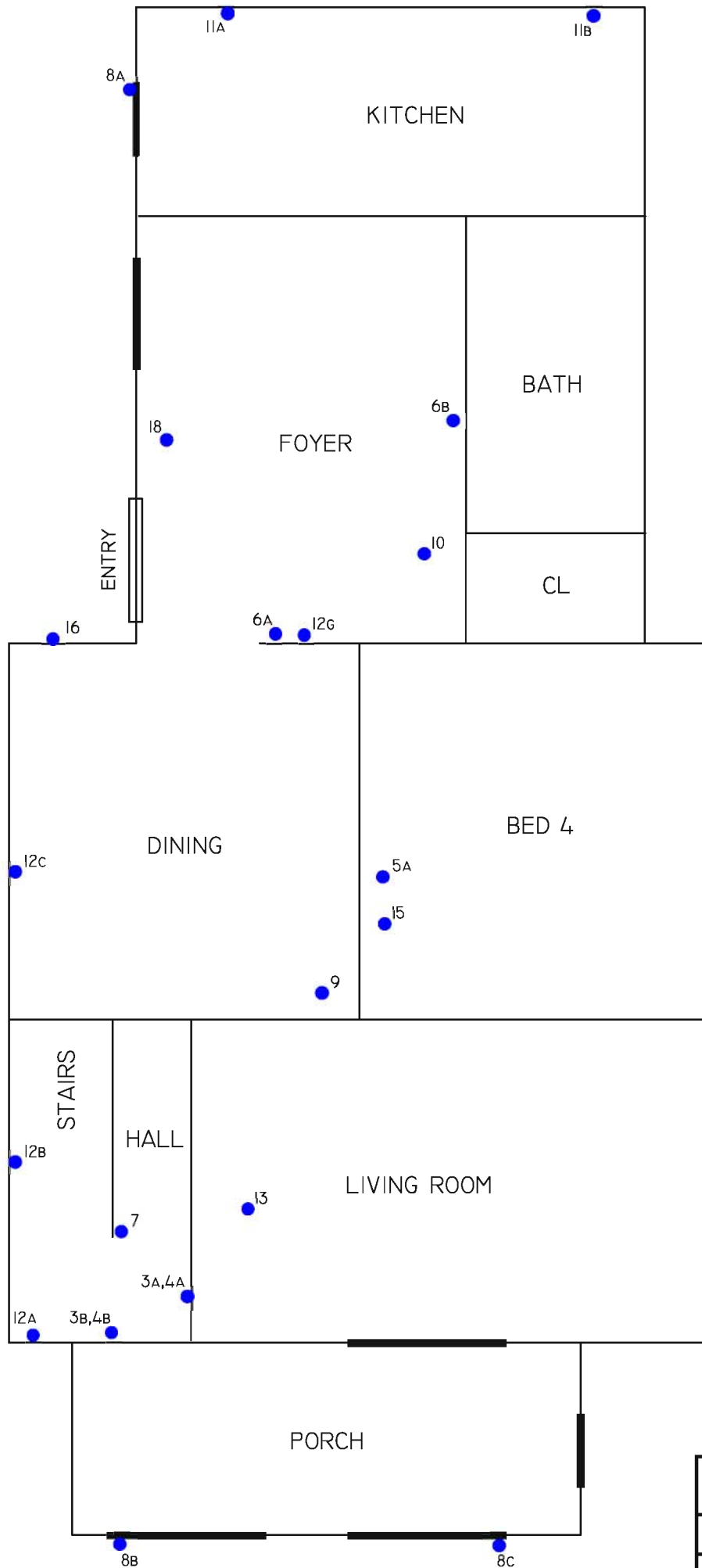
BASEMENT



LEGEND

-  SACM SAMPLE LOCATION
-  ASBESTOS CONTAINING MATERIAL (ACM)

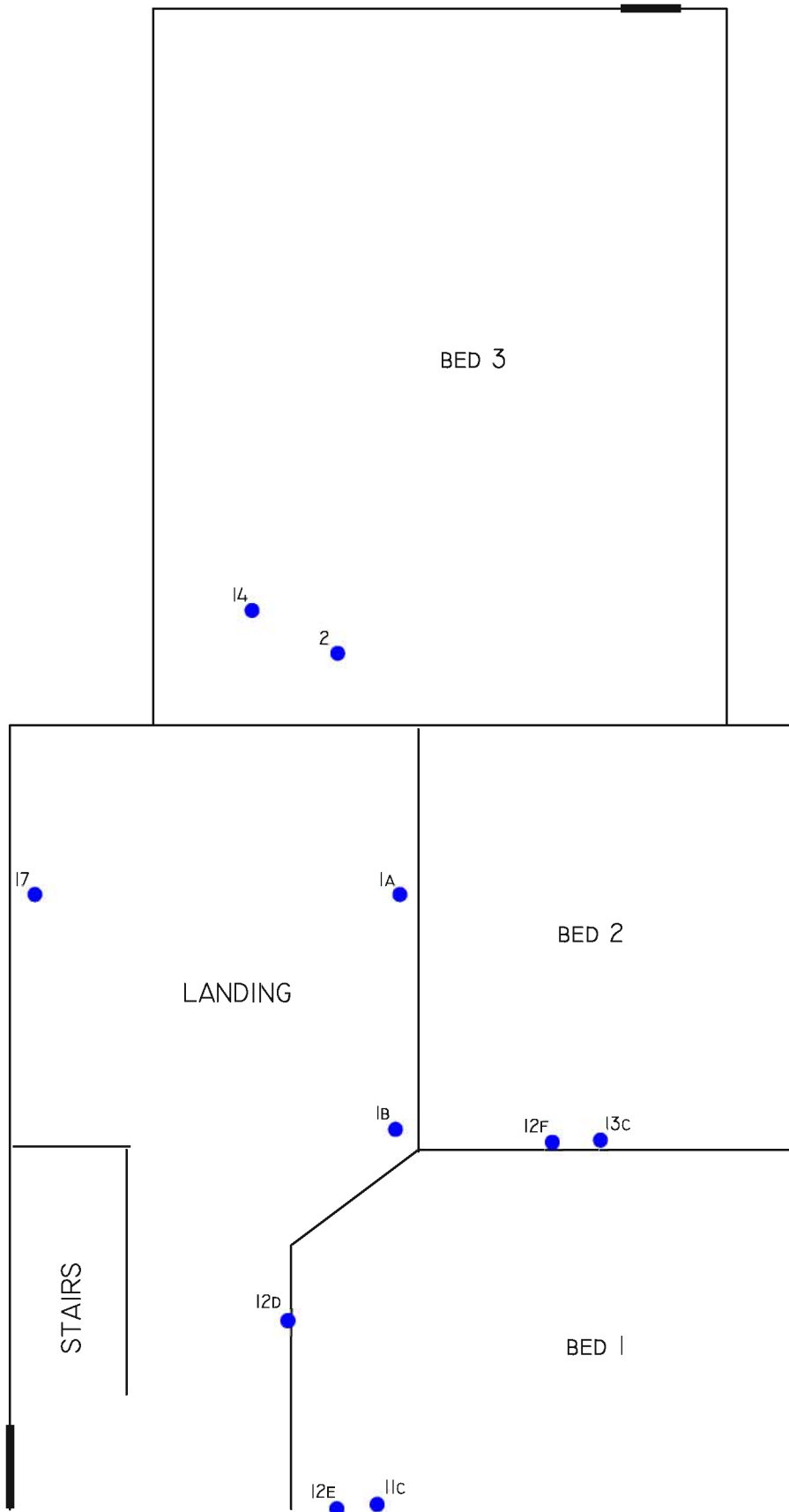
915 PETOSKEY STREET PETOSKEY, MICHIGAN	M13-2108
SITE PLAN - BASEMENT	FIGURE 1
 MACKINAC ENVIRONMENTAL TECHNOLOGY, INC. <i>Environmental Consulting & Construction</i>	05/05/13



LEGEND

3 ● SACM SAMPLE LOCATION

915 PETOSKEY STREET PETOSKEY, MICHIGAN		M13-2108
SITE PLAN - 1ST FLOOR		FIGURE 1
		05/05/13
 MACKINAC ENVIRONMENTAL TECHNOLOGY, INC. <i>Environmental Consulting & Construction</i>		



LEGEND

3 ● SACM SAMPLE LOCATION

915 PETOSKEY STREET		M13-2108
PETOSKEY, MICHIGAN		FIGURE 1
SITE PLAN - 2ND FLOOR		05/05/13
 MACKINAC ENVIRONMENTAL TECHNOLOGY, INC. <i>Environmental Consulting & Construction</i>		

ATTACHMENT #3



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CustomerPO: M13-2108
ProjectID:

Attn: **Ed Radecki**
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Saint Ignace, MI 49781

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Fax: (906) 643-9977
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Collected:

Project: 1413-2108- 915 PETOSKEY

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1A 041312407-0001	2ND FLOOR LANDING - LINOLEUM FLOORING 6	Red/Black Fibrous Homogeneous	20%	Cellulose	80% Non-fibrous (other) None Detected
1B 041312407-0002	2ND FLOOR LANDING - LINOLEUM FLOORING 6	Red/Black Fibrous Homogeneous	15%	Cellulose	85% Non-fibrous (other) None Detected
2A 041312407-0003	2ND FLOOR BEDROOM 3 - LINOLEUM FLOORING 7	Black Fibrous Homogeneous	30%	Cellulose	70% Non-fibrous (other) None Detected
3A-Linoleum 041312407-0004	1ST FLOOR HALL- TOP LAYER - LINOLEUM FLOORING 1	Tan/Black Fibrous Homogeneous	20%	Cellulose	80% Non-fibrous (other) None Detected
3A-Mastic 041312407-0004A	1ST FLOOR HALL- TOP LAYER - LINOLEUM FLOORING 1	Brown Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected
3B-Linoleum 041312407-0005	1ST FLOOR HALL- TOP LAYER - LINOLEUM FLOORING 1	Tan/Black Fibrous Homogeneous	20%	Cellulose	80% Non-fibrous (other) None Detected

Analyst(s)
Kevin Ream (37)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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			% Fibrous	% Non-Fibrous	% Type
3B-Mastic 041312407-0005A	1ST FLOOR HALL- TOP LAYER - LINOLEUM FLOORING 1	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
4A 041312407-0006	1ST FLOOR HALL- BOTTOM LAYER - LINOLEUM FLOORING 3	Brown/Green Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
4B 041312407-0007	1ST FLOOR HALL- BOTTOM LAYER - LINOLEUM FLOORING 3	Brown/Green Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
5A 041312407-0008	1ST FLOOR BEDROOM 4- TOP LAYER - LINOLEUM FLOORING 4	Various Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
6A 041312407-0009	1ST FLOOR FOYER - LINOLEUM FLOORING 5	Tan/Black Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (other)	None Detected
6B 041312407-0010	1ST FLOOR FOYER - LINOLEUM FLOORING 5	Tan Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (other)	None Detected

Analyst(s)
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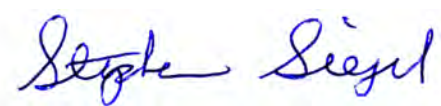
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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
7 041312407-0011	2ND FLOOR LANDING & 1ST FLOOR HALL - 12" X 12" CEILING TILE- NAILED	Brown/White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
8A 041312407-0012	ORIGINAL WINDOWS - WINDOW GLAZING	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
8B 041312407-0013	ORIGINAL WINDOWS - WINDOW GLAZING	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
8C 041312407-0014	ORIGINAL WINDOWS - WINDOW GLAZING	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
9 041312407-0015	DINING ROOM - 12" X 12" CEILING TILE- NAILED	Brown/White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
10 041312407-0016	FOYER - 2' X 2' CEILING TILE	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (other)	None Detected
11A 041312407-0017	KITCHEN & BEDROOM 1 - DRYWALL	Various Fibrous Homogeneous	20% Cellulose 2% Glass	78% Non-fibrous (other)	None Detected

Analyst(s)
Kevin Ream (37)


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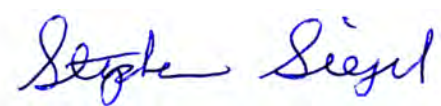
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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
11B 041312407-0018	KITCHEN & BEDROOM 1 - DRYWALL	Various Fibrous Homogeneous	20% Cellulose 2% Glass	78% Non-fibrous (other)	None Detected
11C 041312407-0019	KITCHEN & BEDROOM 1 - DRYWALL	Various Fibrous Homogeneous	20% Cellulose 2% Glass	78% Non-fibrous (other)	None Detected
12A-Base Coat 041312407-0020	ORIGINAL WALLS & CEILINGS THROUGHOUT - PLASTER	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
12A-Skim Coat 041312407-0020A	ORIGINAL WALLS & CEILINGS THROUGHOUT - PLASTER	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
12B-Base Coat 041312407-0021	ORIGINAL WALLS & CEILINGS THROUGHOUT - PLASTER	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
12B-Skim Coat 041312407-0021A	ORIGINAL WALLS & CEILINGS THROUGHOUT - PLASTER	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)
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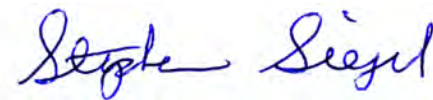
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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
12C 041312407-0022	ORIGINAL WALLS & CEILINGS THROUGHOUT - PLASTER	Various Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
12D 041312407-0023	ORIGINAL WALLS & CEILINGS THROUGHOUT - PLASTER	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
12E 041312407-0024	ORIGINAL WALLS & CEILINGS THROUGHOUT - PLASTER	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
12F 041312407-0025	ORIGINAL WALLS & CEILINGS THROUGHOUT - PLASTER	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
12G 041312407-0026	ORIGINAL WALLS & CEILINGS THROUGHOUT - PLASTER	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
13 041312407-0027	LIVING ROOM CEILING - WALL PAPER	Tan Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

Analyst(s)
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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
14 041312407-0028	2ND FLOOR BEDROOM 3 - LINOLEUM FLOORING 2	Black Fibrous Homogeneous	30%	Cellulose	70% Non-fibrous (other) None Detected
15 041312407-0029	1ST FLOOR BEDROOM 4- BOTTOM LAYER - LINOLEUM FLOORING 8	Black Fibrous Homogeneous	30%	Cellulose	70% Non-fibrous (other) None Detected
16 041312407-0030	- HOUSE WRAP	Brown Fibrous Homogeneous	80%	Cellulose	20% Non-fibrous (other) None Detected
17 041312407-0031	TWO STORY ROOF - SHINGLE	Black Fibrous Homogeneous	20%	Glass	80% Non-fibrous (other) None Detected
18 041312407-0032	SINGLE STORY ROOF - SHINGLE	Black/Green Fibrous Homogeneous	25%	Cellulose	75% Non-fibrous (other) None Detected
19 041312407-0033	CHIMNEY - GROUT	Gray Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected

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Samples analyzed by EMSL Analytical, Inc. Plymouth Meeting, PA

Initial report from 05/21/2013 16:52:38

Asbestos Lab Services Chain of Custody

EMSL Order Number (Lab Use Only):

041312407

Indianapolis, IN
2001 East 52nd Street
Indianapolis, IN 46205
PHONE: (317) 803-2997
FAX: (317) 803-3047

Company: Macknac Environmental Technology, Inc.
 Street: 300 Ferry Lane P.O. Box 485
 City/State/Zip: St. Ignace, MI 49781
 Report To (Name): Edward Radecki
 Telephone: 9086439948
 Project Name/Number: M13-2108-915 Potoskey
 Please Provide Results: Email Purchase Order: M13-2108 State Samples Taken: M

EMSL-Bill to: Same Different
 If Bill to be Different note instructions in Comments**
 Third Party Billing requires written authorization from third party

Fax: 908.643.9977
Email Address: met@saul.com

Turnaround Time (TAT) Options* - Please Check
 3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. There is a premium charge for 3 Hour TEM/HERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air Check if samples are from NY
 NIOSH 7400
 w/ OSHA 8hr. TWA

TEM - Air 4-4.5hr TAT (AHERA only)
 AHERA 40 CFR, Part 763
 NIOSH 7402
 EPA Level II
 ISO 10312

TEM - Dust
 Microvac - ASTM D 5755
 Wipe - ASTM D6480
 Carpet Sonication (EPA 600/J-63/167)

PLM - Bulk (reporting limit)
 PLM EPA 600/R-83/118 (<1%)
 PLM EPA NOB (<1%)
 Point Count
 400 (<0.25%) 1000 (<0.1%)
 Point Count w/ Gravimetric
 400 (<0.25%) 1000 (<0.1%)
 NYS 198.1 (friable in NY)
 NYS 198.8 NOB (non-friable-NY)
 NIOSH 9002 (<1%)

TEM - Bulk
 TEM-EPA NOB
 NYS NOB 198.4 (non-friable-NY)
 Chatfield SOP
 TEM Mass Analysis-EPA 600 sec. 2.5

Soil/Rock/Vermiculite
 PLM CARB 435 - A (0.25% sensitivity)
 PLM CARB 435 - B (0.1% sensitivity)
 TEM CARB 435 - B (0.1% sensitivity)
 TEM CARB 435 - C (0.01% sensitivity)
 EPA Protocol (Semi-Quantitative)
 EPA Protocol (Quantitative)

TEM - Water: EPA 100.2
 Fibers >10um Waste Drinking
 All Fiber Sizes Waste Drinking

Check For Positive Stop - Clearly Identify Homogenous Group Filter Pore Size (Air Samples): 0.8um 0.45um

Samplers Name: ED Radecki Samplers Signature: Ed Radecki

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
	SEE ATTACHED		

Client Sample # (s): 1 - 19 Total # of Samples: 33
 Requisitioned (Client): Ed Radecki Date: 5/14/13 Time: 8:30
 Received (Lab): S. Christy Feagy Date: 5-15-13 Time: 10:10 AM

Comments/Special Instructions:

Per ED 10:10 AM 5-15-13
1WK TAT: PLM
SC

33

041312407
Chain of Custody

EMSL Analytical, Inc.
2001 East 52nd Street
Indianapolis, IN 46205

EMSL

Asbestos Lab Services

Phone: (317) 803-2997
Fax: (317) 803-3047
<http://www.emsl.com>

Please print all information legibly.

Client Sample # (s): 1 – 19		Total Sample #: 33
Relinquished: <i>EJ Kubi</i>	Date: 05/14/13	Time: 8:30
Received:	Date:	Time:
Relinquished:	Date:	Time:
Received:	Date:	Time:

Note: Analyze each sample set to first positive

SAMPLE #		SAMPLE DESCRIPTION	SAMPLE LOCATION
1	A	Linoleum flooring 6	2 nd Floor Landing
	B	Linoleum flooring 6	2 nd Floor Landing
2	A	Linoleum flooring 7	2 nd Floor Bedroom 3
3	A	Linoleum flooring 1	1 st Floor Hall – top layer
	B	Linoleum flooring 1	1 st Floor Hall – top layer
4	A	Linoleum flooring 3	1 st Floor Hall – bottom layer
	B	Linoleum flooring 3	1 st Floor Hall – bottom layer
5	A	Linoleum flooring 4	1 st Floor Bedroom 4 – top layer
6	A	Linoleum flooring 5	1 st Floor Foyer
	B	Linoleum flooring 5	1 st Floor Foyer
7		12" x 12" ceiling tile - nailed	2 nd Floor Landing & 1 st Floor Hall
8	A	Window Glazing	Original windows
	B	Window Glazing	Original windows
	C	Window Glazing	Original windows
9		12" x 12" ceiling tile - nailed	Dining Room
10		2' x 2' ceiling tile	Foyer
11	A	Drywall	Kitchen & Bedroom 1
	B	Drywall	Kitchen & Bedroom 1
	C	Drywall	Kitchen & Bedroom 1
12	A	Plaster	Original walls and ceilings throughout
	B	Plaster	Original walls and ceilings throughout
	C	Plaster	Original walls and ceilings throughout
	D	Plaster	Original walls and ceilings throughout
	E	Plaster	Original walls and ceilings throughout
	F	Plaster	Original walls and ceilings throughout
	G	Plaster	Original walls and ceilings throughout
13		Wall paper	Living Room ceiling
14		Linoleum flooring 2	2 nd Floor Bedroom 3
15		Linoleum flooring 8	1 st Floor Bedroom 4 – bottom layer
16		House Wrap	
17		Shingle	Two story roof
18		Shingle	Single story roof
19		Grout	Chimney

M13-2108 – 915 Petoskey (05/10/13)

ATTACHMENT #4

RESIDENTIAL HOUSE – 915 PETOSKEY STREET, PETOSKEY
Photographs by E. Radecki on 05/10/13



1. Street side view of the house.



2. Back side view of the house. Note the roofing: S-17 shingles on the front roof; S-18 shingles on the back roof.

Asbestos Containing Material



3. Basement: Furnace is on the left hand side; a vertical air duct is on the right hand side. Duct tape (10" strip on top & 4" strip in the middle) is a PACM.



4. Basement: Four, 9"-diameter air ducts exit the furnace. The ducts are covered in a duct wrap (PACM).



5. Basement: One of the 9"-diameter air ducts that exit the furnace. The ducts are covered in a duct wrap (PACM).



6. Basement: One of the 9"-diameter air ducts that exit the furnace. The ducts are covered in a duct wrap (PACM).

RESIDENTIAL HOUSE – 915 PETOSKEY STREET, PETOSKEY
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7. Furnace: The gasket/seal around the access door is a PACM.



8. Furnace: Note the duct wrap on the furnace and duct "stub" (PACM).



9. Vertical air duct : Duct tape (10" strip on top & 4" strip in the middle is a PACM); Chimney Grout (S-19) is not an ACM.

RESIDENTIAL HOUSE – 915 PETOSKEY STREET, PETOSKEY
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Material that Tested Negative for Asbestos



10. Heat register on the 2nd Floor – no insulation (Note: several registers are covered with flooring and wall board).



11. Heat register on the 2nd Floor – no insulation



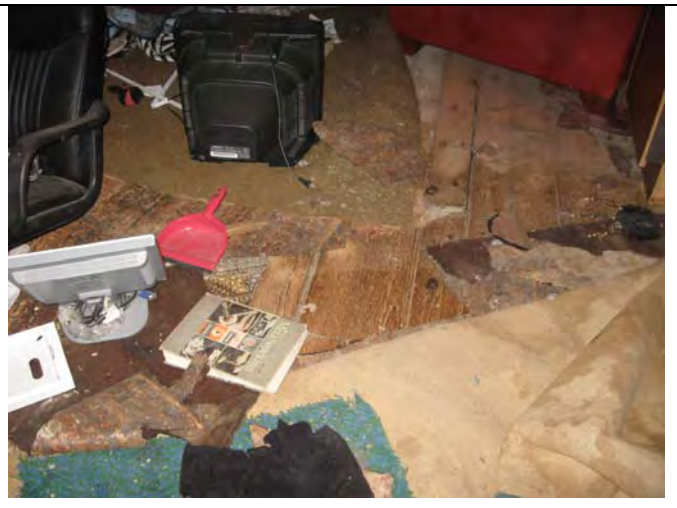
12. Heat register on the 1st Floor – no insulation. (Note: several registers are covered with flooring and wall board). Wall paper (S-13) covers the plaster (S-12) ceiling (portions).



13. Front Porch windows with glazing (S-8).



14. 2nd Floor Landing - Linoleum (S-1)



15. 2nd Floor Bed 3 - Linoleum (S-2 & S-14)

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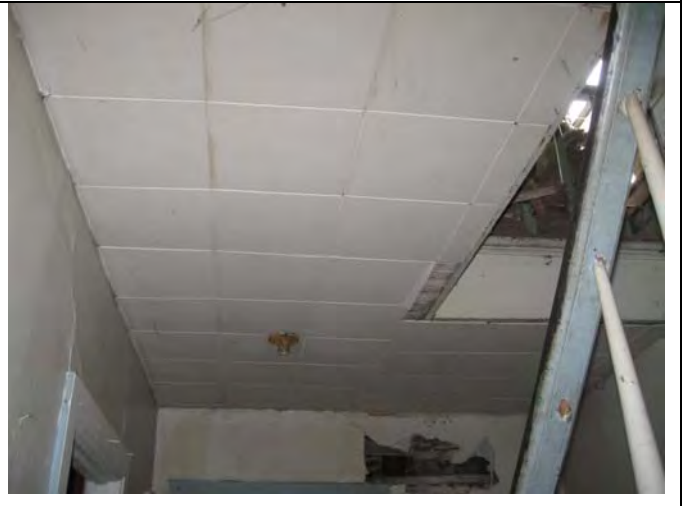
16. 1st Floor Hall - linoleum (S-3 & S-4). The new snap-in surface flooring in the Foyer is not a SACM.



17. 1st Floor Bed 4 - linoleum (S-5 & S-15).



18. 1st Floor Foyer - linoleum (S-6) and the bathroom (the new 12" x 12" adhesive flooring is not an SACM). The new snap-in surface flooring in the Foyer is not a SACM.



19. 2nd Floor Landing & 1st Floor Hall - 12" x 12" ceiling tile (S-7) – nailed.



20. Dining Room - 12" x 12" ceiling tile (S-9) – nailed.



21. 1st Floor Foyer – 2' x 2' ceiling tile (S-10) – new installation.

RESIDENTIAL HOUSE – 915 PETOSKEY STREET, PETOSKEY
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22. Kitchen – New drywall (S-11) was placed over the plaster.



23. Plaster (S-12). Original finish on walls and ceilings.



24. House Wrap (S-16).