



**CITY OF BATTLE CREEK**  
**NOTICE OF INVITATION FOR BIDS**

**IFB# 2020-019B Demolition**

**ISSUE DATE: 8/6/19**

**BID DUE DATE:** August 27, 2019, at 2:00 PM Local Time (office hours 8-12 and 1-5)  
**LOCATION:** Purchasing Department  
10 N. Division Street, Suite 214  
Battle Creek, MI 49014

***NOTE!*** City Hall has security on the 1<sup>st</sup> floor. Please allow extra time to get through security when dropping off your bid.

**Purchasing Contact:** Christine Huff  
**E-mail:** [chluff@battlecreekmi.gov](mailto:chluff@battlecreekmi.gov)

**Technical Questions:** Richard Bolek, 269-966-3382

**DESCRIPTION:** The City is soliciting bids for the purpose of contracting for demolitions of various buildings and their foundations in their entirety. The City will most likely award *by property*, but reserves to award as a whole. Bidders should read entire IFB or call the Purchasing Contact listed above if they have any questions **before** submitting their bids.

If you only received this first page, you may download the complete solicitation from our website at: [battlecreekmi.gov](http://battlecreekmi.gov). Copies of the complete Invitation for Bids document may also be obtained from the Purchasing Department, Room 214, 10 N. Division Street, Battle Creek, Michigan 49014, (269) 966-3390.

Bids must be in the actual possession of the Purchasing Department at the location indicated, on or prior to the exact time and date indicated above. Bids received by the correct time and date shall be opened and the amounts bid shall be publicly read. Late bids shall not be considered.

**BIDDERS ARE STRONGLY ENCOURAGED TO CAREFULLY READ THE ENTIRE INVITATION FOR BID.**

THIS BID IS OFFERED BY: \_\_\_\_\_  
(Company Name)

## 1.0 INSTRUCTIONS TO BIDDERS

1. **BID SUBMISSION:**
  - A. Bids must be submitted in complete original form by mail or messenger to the following address:  
Office of the Purchasing Agent, Room 214, City Hall, 10 N. Division Street, Battle Creek, MI 49014
  - B. Bids will be accepted at the above address until the time and date specified herein, and immediately after will be publicly opened and read aloud. The prevailing clock shall be [www.time.gov](http://www.time.gov).
  - C. All bids shall be tightly sealed in an opaque envelope and plainly marked with the Invitation for Bid number, due date and the bidder's name and address clearly indicated on the envelope.
  - D. Late bids will not be accepted and will be returned to the bidder.
  - E. All bids submitted in response to this invitation shall become the property of the City and be a matter of public record available for review.
  
2. **PREPARATION OF BIDS:**
  - A. The bid shall be legibly prepared with ink or typed.
  - B. If a unit price or extension already entered is to be altered, it shall be crossed out and initialed by the bidder with ink.
  - C. The bid shall be legally signed on the OFFER TO CONTRACT page and the complete address of the bidder given thereon.
  - D. The City is exempt from Federal Excise and State Sales Taxes, and such taxes shall not be included in bid prices
  
3. **SIGNATURES:** All bids, notifications, claims and statements must be signed by an individual authorized to bind the bidder.
  - (a.) CORPORATIONS: Signature of official shall be accompanied by a certified copy of the resolution of the Board of Directors authorizing the individual signing to bind the corporation.
  - (b.) PARTNERSHIPS: Signature of one partner shall be accompanied by a certified copy of the power of attorney authorizing the individual signing to bind all partners. If all partners sign bid no authorization is needed.
  
4. **REJECTION OR WITHDRAWAL:** Submission of additional terms, conditions or agreements with the bid document is grounds for deeming a bid nonresponsive and may result in bid rejection. The City reserves the right to reject any bids and to waive any informalities and minor irregularities defects in bids. Bids may be withdrawn in person by a bidder, or authorized representative, provided their identity is made known and a receipt is signed for the bid, but only if the withdrawal is made prior to the time set for receipt of bids. Bids are an irrevocable offer and may not be withdrawn within 90 days after opening date.
  
5. **AWARD:** The bid will be awarded to that responsible, responsive bidder whose bid, conforming to this solicitation, will be most advantageous to the City, price and other factors considered. Unless otherwise specified in this IFB, the City reserves the right to accept a bid in whole or in part, and to award by item or by group, whichever is deemed to be in the best interest of the City. Any bidder who is in default to the City at the time of submittal of the bid shall have his bid rejected. The City reserves the right to clarify any contractual terms with the concurrence of the Contractor; however, any substantial non-conformity in the offer, as determined by the City, shall be deemed non-responsive and the offer rejected.

In evaluating bids, Owner shall consider the qualifications of the Bidders, and where applicable, operating costs, delivery time, maintenance requirements, performance data, and guarantees of materials and equipment. In addition, the City may conduct such investigations as Owner deems necessary to assist in the evaluation of a Bid and to establish the responsibility, qualifications and financial ability of the Bidders to fulfill the contract.
  
6. **CONTRACT:** A response to an IFB is an offer to contract with the City based upon the terms, conditions, and specifications contained in the City's IFB. Bids do not become contracts unless and until they are executed by the City, eliminating a formal signing of a separate contract. For that reason, all of the terms and conditions of the contract are contained in the IFB, unless any of the terms and conditions are modified by an Addendum or a Contract Amendment.
  
7. **BID RESULTS:** A bid tabulation will be posted on the City's website and will also be on file and available for review after contract award in the Purchasing Department.
  
8. **CHANGES AND ADDENDA TO BID DOCUMENTS:** Each change or addendum issued in relation to this bid document will be on file in the Office of the Purchasing Agent. In addition, to the extent possible, copies will be mailed to each person registered as having received a set of bid documents. It shall be the bidder's responsibility to make inquiry as to changes or

addenda issued. All such changes or addenda shall become part of the contract and all bidders shall be bound by such addenda. Information on all changes or addenda issued will be available at the office of the City Purchasing Agent.

9. **SPECIFICATIONS:** Unless otherwise stated by the bidder, the bid will be considered as being in accordance with the City's applicable standard specifications, and any special specifications outlined in the Bid document. References to a particular trade name, manufacturer's catalogue, or model number are made for descriptive purposes to guide the bidder in interpreting the requirements of the City, and should not be construed as excluding bids. However, the City does reserve the right to specify a sole brand, with no brand substitutions allowed. The bidder, if awarded a contract, will be required to furnish the particular item referred to in the specifications or description unless departure or substitution is clearly noted and described in the bid and allowed by the IFB. The City reserves the right to determine if equipment/product being bid is an acceptable alternate. All goods shall be new unless otherwise so stated in the bid. Any unsolicited alternate bid, or any changes, insertions, or omissions to the terms and conditions, specifications, or any other requirements of this bid, may be considered non-responsive. The City reserves the right to disregard any conflicting terms and conditions submitted by the contractor and hold the contractor to the submitted bid price. Contractors are strongly encouraged to not submit anything with their bid that is not specifically requested in this solicitation.
10. **DELIVERY:** Bids shall include all charges for delivery, packing, crating, containers, etc. Prices bid will be considered as being based on F.O.B. Delivered, freight included.
11. **INTERPRETATION OF BID AND/OR CONTRACT DOCUMENTS:** All inquiries shall be made within a reasonable time prior to the date and time fixed for the bid opening in order that a written response in the form of an addendum, if required, can be processed before the bids are opened. (Inquiries received that are not made in a timely fashion may or may not be considered).
12. **CURRENCY:** Prices calculated by the bidder shall be stated in U.S. dollars.
13. **PRICING:** Prices shall be stated in units of quantity specified in the Bid Document. In case of discrepancy in computing the amount of the bid, the unit price bid will govern.
14. **NOTICE TO PROCEED/PURCHASE ORDER:** The successful bidder may not commence work under this contract until authorized to do so by the Purchasing Agent.
15. **CERTIFICATION:** By signature in the offer section of the Offer and Acceptance page, bidder certifies:
- A. The submission of the offer did not involve collusion or other anti-competitive practices.
  - B. The bidder has not given, offered to give, nor intends to give at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the submitted offer.
  - C. The bidder hereby certifies that the individual signing the bid is an authorized agent for the bidder and has the authority to bind the bidder to the contract.
  - D. The bidder hereby certifies that the firm will abide by the COPELAND ANTI-KICKBACK ACT, Title 18, U.S.C. June 25, 1948, Section 874, Kickbacks from Public Employees.
16. **DEFINITIONS:**
- "CITY" - The City of Battle Creek.
  - "CITY UNIT" - The department of the City that intends to use the resulting contract.
  - "CONTRACTOR" - The bidder whose proposal is accepted by the City.
17. **MICHIGAN CONSTITUTIONAL REQUIREMENT:** Notwithstanding any provision in this Contract to the contrary, and in accordance with Article I, Section 26 of the Michigan Constitution as adopted by the electorate November 7, 2006, The City or its general contractors shall not discriminate against, or grant preferential treatment to, any individual or group on the basis of race, sex, color, ethnicity, or national origin in the operation of this Contract. This section shall not prohibit any action that must be taken to establish or maintain eligibility for any federal program if ineligibility would result in a loss of federal funds in connection with this Contract, nor shall this section be interpreted as prohibiting bona fide qualifications based on sex that are reasonable necessary to the execution of this Contract. In the event of conflict between any term of this Contract and this section, the language of this section shall control.

## 2.0 GENERAL TERMS AND CONDITIONS

- 2.1 MATERIALS AND WORKMANSHIP:** Unless otherwise specified, all materials and workmanship shall be new and of the best grade of their respective kinds for the purpose.
- 2.2 NON-DISCRIMINATION CLAUSE:** The bidder agrees not to discriminate against any employee or applicant for employment, to be employed in the performance of such contract with respect to hire tenure, terms, conditions or privileges, of employment, or any matter directly or indirectly related to employment because of his or her actual or perceived race, color, religion, national origin, sex, age, height, weight, marital status, physical or mental disability, family status, sexual orientation, or gender identity. Breach of this covenant may be regarded as a material breach of the contract as provided for in Act 220 and Act 453 of the Public Acts of 1976, as amended, entitled "Michigan Handicapper's Civil Rights Act" and/or the "Michigan Elliott Larson Civil Rights Act" and/or City of Battle Creek Chapter 214 "Discrimination Prohibited" Ordinance. The bidder further agrees to require similar provisions from any subcontractors, or suppliers. The bidder agrees to comply with the Executive Order 11246 of September 24, 1965, entitled "Equal Employment Opportunity," as amended by Executive Order 11375 of October 13, 1967, as supplemented in Department of Labor regulations (41 CFR, Chapter 60).
- 2.3 ASSIGNMENT OF CONTRACT:** The contractor shall assign no right or interest in this contract in whole or in part and no delegation of any duty of Contractor shall be made without prior written permission of the City.
- 2.4 INDEMNIFICATION:** The contractor shall protect, defend, and save the City, its officials, employees, departments and agents harmless from and against any claims, demands, suits, actions, or proceedings of any kind or nature, in any way resulting from negligent acts or omissions of the contractor or any of its agents, employees, boards, commissions, divisions, departments, or authorities in performing obligations under this agreement. Each party to this agreement agrees that any bond or insurance protection required by this agreement shall limit the terms of this indemnification provision. In case of any action brought against the City by reason of any such claim, suit, action or demand, upon prompt notice from the City, contractor covenants to defend such action or proceeding by counsel that is reasonably satisfactory to the City.
- 2.5 CONTRACT:** The contract shall contain the entire agreement between the City and the Contractor relating to this requirement and shall prevail over any previous contracts, proposals, negotiations, or master agreements in any form.
- 2.6 PROVISIONS REQUIRED BY LAW:** Each provision required by law to be in the contract shall be enforced as though it were included herein, and if any such provision is not inserted, the contract shall be amended to make such insertion or correction.
- 2.7 RELATIONSHIP OF PARTIES:** It is clearly understood that each party shall act in its individual capacity and not as an agent, employee, partner, joint venture, or associate of the other. An employee or agent of one party shall not be deemed or construed to be the employee or agent of the other party for any purpose. Taxes or social security payments shall not be withheld from a City payment issued hereunder; Contractor should make arrangements to directly pay such expenses, if any.
- 2.8 RIGHTS AND REMEDIES:** No provision in this contract shall be construed as a waiver by either party of any existing or future right or remedy available by law in the event of any claim, default, or breach of contract. The failure of either party to insist upon the strict performance of any term or condition of the contract or to exercise or delay the exercise of any right or remedy provided in the contract, or by law, or the acceptance of materials or services, obligations imposed by this contract or by law, shall not be deemed a waiver of any right of either party to insist upon the strict performance of the contract.
- 2.9 ADVERTISING:** Contractor shall not advertise, issue a press release or otherwise publish information concerning this RFP or contract without prior written consent of the City. The City shall not unreasonably withhold permission.
- 2.10 APPLICABLE REGULATIONS/POLICIES:** The Revised Code of the State of Michigan, the Charter of the City of Battle Creek, all City Ordinances, Rules and Regulations and Policies shall apply. It shall be the responsibility of the Proposer to be familiar and comply with said regulations/policies.
- 2.11 ROYALTIES, PATENTS, COPYRIGHTS, NOTICES AND FEES:** Contractor shall give all notices and pay all royalties and fees. Contractor shall defend all suits or claims for infringement of any patent rights and shall save the City harmless from loss on account thereof. Contractor shall comply with all laws, ordinances and codes applicable to any portion of the work. All services, information, computer program elements, reports, and other deliverables that are created under this Agreement shall be the property of the City. The Contractor shall place no restrictions on the City with regard to the distribution of any of these materials; the City shall have full, unrestricted rights to make and distribute unlimited copies of any services, information, computer programs/elements, reports, or any other deliverable. Patents for any item created under this contract shall be assigned to the City.
- 2.12 SUBCONTRACTORS:** No subcontract shall be made by the contractor with any other party for furnishing any of the services herein contracted for without the advance written approval of the City. All subcontractors shall comply with Federal and State laws and regulations that are applicable to the services covered by the subcontractor and shall include all the terms and conditions set forth herein, which shall apply with equal force to the subcontract, as if the subcontractor were the Contractor referred to herein. Contractor is responsible for contract performance whether or not subcontractors are used.
- 2.13 OTHER FEDERAL COMPLIANCE:** Where applicable (such as, but not limited to, Construction Managers) contractor shall comply with: Copeland Anti-kickback Act (18 U.S.C. 874); Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327A 330); Section 306 of the Clean Air Act (42 U.S.C. 1857 (h)); Section 508 of the Clean Water Act (33 U.S.C. 1368); Executive Order 11738, and EPA regulations (40 CFR, Part 15); and the Energy Policy and Conservation Act (Pub. L. 94A 163, 89 Stat. 871).

## TERMS AND CONDITIONS CONSTRUCTION/INSTALLATION/DEMOLITION

1. **ACCIDENT PREVENTION:** The Contractor shall exercise proper precaution at all times for the protection of persons and property and shall be responsible for all the damages to persons or property either on or off the site, which occur as a result of his fault or negligence in connection with the prosecution of the work. The safety provisions of applicable laws and OSHA standards shall be observed and the Contractor shall take or cause to be taken such additional safety and health measures as the city may determine to be reasonably necessary.
2. **CONFLICTS AND OMISSIONS:** The intent of the contract documents is to provide everything necessary for the proper execution of the work. In case of conflict, the work shall not proceed until a decision has been agreed upon by all parties concerned. The City's decision shall be final.
3. **WORKING CONDITIONS:** All work shall be done in accordance with all regulations governing the City Unit wherein the work is to be performed and with minimum possible interference with the proper functioning of the activities of the City Unit. Materials, tools, etc., shall be confined so as not to unduly encumber the premises.
4. **PRIOR EXAMINATION:** Contractor shall familiarize himself with local conditions affecting the job prior to submitting the bid. He shall take his own measurements and be responsible for the correctness of same. Contractor shall be held to have made such examinations and no allowances will be made in his behalf by reason of error or omission on his part. If any part of the Contractor's work depends on proper results upon existing work or the work of another contractor, the Contractor, before commencing work, shall notify the Building Official in writing of any defects that will affect the results.
5. **OTHER CONTRACTS:** The City may let other contracts in connection with the work and the Contractor shall properly connect and coordinate his work with the work of such other contractors. The City shall not be liable for any damages or increased costs occasioned by the failure of other contractors or sub-contractors to execute their work as may be anticipated by these documents.
6. **INSPECTION:** Contractor shall at all times permit and facilitate inspection of the work by the City.
7. **CHANGES:** Contractor shall make changes in the contracted work only as ordered in writing by the City. Work will be performed only based on written authorization from the City. If extra work orders are given in accordance with the provisions of this contract, such work shall be considered a part hereof and subject to each and all of its terms and requirements.
8. **GUARANTEE:** Contractor guarantees to remedy any defects due to faulty materials or workmanship, which appear in the work within one year from the date of final acceptance by the City.
9. **PROTECTION:** Contractor shall properly protect all new and existing structures from damage. Contractor shall comply with all safety rules and regulations as published by the Michigan Dept. of Labor, Bureau of Safety and Regulations.
10. **CLEAN-UP:** Contractor shall at all times keep the premises free from accumulations of waste materials or rubbish caused by his employees or work and at the completion of the work he shall remove all his waste, tools, equipment, staging and surplus materials from the structure and grounds and leave work clean and ready for use.
11. **SAFETY RULES:** Contractor shall perform all work under this contract in conformance with the State of Michigan general safety rules and regulations for the construction industry, being Act 89 of the Public Acts of 1963, as amended.
12. **TERMINATION FOR BREACH:** The City may terminate this contract for violations hereof when violations are not stopped immediately and corrected within a reasonable length of time after notification by the City. In the event of such termination, the City may complete the contracted work and the Contractor will be liable for any excess cost occasioned the City thereby and in such case the City may take possession of and use in completing the work such materials and equipment as may be on the site and necessary therefore.
13. **SUBCONTRACTORS:** Bidders should submit with the Bid all known subcontractors to be associated with their bid, including the type of work to be performed. Bidder shall notify the City of all subcontractors before work begins. All subcontractors shall be bound by all of the requirements of this contract; however, the prime contractor shall be responsible for the performance of their subcontractors.
14. **EMPLOYEES AND SUPERINTENDENCE:** Contractor shall enforce good order among his employees and shall not employ on the work site any disorderly, intemperate or unfit person or anyone not skilled in the work assigned to him. Contractor, or a competent person having authority to act for him, shall be at the worksite at all times.

### SPECIAL TERMS AND CONDITIONS

1. **AWARD:** The City reserves the right to award each property to the lowest, responsive, responsible bidder for that property.
2. **ORDER OF WORK:** If the Contractor has been awarded multiple properties, the City reserves the right to prioritize the sequence in which work shall be completed.
3. **PROPER DISPOSAL OF DEBRIS:** The Contractor must provide the Building Official of Community Services with landfill dump tickets for debris from each house before payment will be made.
4. **CITY WRECKER'S LICENSE:** The Contractor must hold a Wrecker's License with the City of Battle Creek Inspection Division in order to obtain the necessary permit to begin the work. The Wrecker's License requires a performance bond and current insurance verification meeting the requirements herein.
5. **STATE LICENSE:** The State of Michigan requires that any individual or company contracting for the wrecking of a residential structure must have a Residential Builders License or Maintenance and Alteration Contractors License. If a Maintenance and Alteration Contractors license is in force, the license must specify "wrecking" as part of the license. **The bidder MUST provide evidence of the State license with the bid.**
6. **LIQUIDATED DAMAGES FOR DELAY:** If the work is not completed within the time stipulated in the contract documents, including any extensions of time for excusable delays as pre-approved by the Purchasing Agent or Building Office of Community Services, the contractor shall pay the City for the liquidated damages, and not as punishment, a rate of **\$150.00 per day for each calendar day of delay per property beyond the completion date, unless extended in writing by the City**, until the work is completed. No extra allowance will be made for holidays. The City will enforce the liquidated damages for failure to complete the work within the allotted time frame. The City shall have the right to deduct from payment due, or to become due, to the Contractor or to sue for and recover compensation or damages for non performance of this Contract at the time stipulated herein.
7. **CONTRACTOR'S OBLIGATIONS:** The contractor shall give all notices required by, and comply with, all applicable laws, ordinances and codes of federal, state and local government. All disconnections and demolition shall comply with all applicable ordinances and codes, inclusive of all written waivers. Should the contractor fail to observe the foregoing provision and do demolition work at variance with any ordinance, code or written waivers, the contractor shall correct, with no additional cost to the City.
8. **DOCUMENTATION SUBMITTAL:** The following documentation is to be submitted to the Building Official of Community Services 10 days prior to the start of all demolitions.
  - A. A copy of the National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR 61, Subpart M form that is required to be submitted to the Michigan Department of Environmental Quality.
  - B. Written notification of when asbestos removal will commence and end. It is mandatory in order for the City to coordinate an inspection of this process at the site.
9. **MATERIAL REMOVAL:** This solicitation contains a report specifying whether or not asbestos is present in the structure being demolished. Contractor shall be a licensed asbestos abatement firm, or shall subcontract with a licensed asbestos abatement firm, in those cases where asbestos is removed. The City must be notified of all subcontractors, and receive all appropriate licenses for subcontractors, upon bid opening. Not providing this information may result in a bid being deemed non-responsive. Contractor shall be responsible for the actions of their subcontractor. Contractor is responsible for removal of structure, including all structural hazardous material removal as specified in this document, even if completed by a subcontractor.
10. **DUST CONTROL:**
  - A. The Contractor will use all means necessary, and as required by Federal and/or State and/or local laws, if applicable, to control dust on or near the work and on or near all off site areas if such dust is caused by Contractor's operations during performance of the work or if it results from the conditions in which the Contractor leaves the site.
  - B. The Contractor will use all means necessary to protect the adjacent properties before, during, and after, demolition.
  - C. In the event of damage, Contractor shall immediately make all repairs and replacements necessary, to the approval of the City of Battle Creek and at no cost to the City of Battle Creek.

- D. Contractor is responsible for conducting operations in a safe and orderly fashion and in compliance with PA 154 of 1974.

**11. TIME OF COMPLETION:** The Contractor shall promptly begin work under this contract upon receipt of the Purchase Order, and all portions shall be completed and ready for final inspection within 45 calendar. The City may extend this completion date for contractors who are awarded many properties. Such an extension should be requested at the time of contract award. The City will approve the completion extension in writing.

**12. EXTENSION OF TIME:**

- A. **AVOIDABLE DELAYS:** Avoidable delays in the prosecution or completion of the work shall include all delays that might have been avoided by the exercise of care, prudence, foresight or diligence on the part of the contractor.
- B. **UNAVOIDABLE DELAYS:** Unavoidable delays in the prosecution or completion of the work under these contracts shall include all delays that are caused by an act of God, and delays that may be the result of causes beyond the control of the Contractor and that he could not have provided against by the exercise of care, prudence, foresight or diligence. Delays due to equipment failure will not be allowed for more than two (2) days per contract.
- C. **CITY SCHEDULED DELAYS:** If the City deems it necessary, completion dates beyond 45 days may be scheduled without penalty to the Contractor.

**13. NOTICE OF DELAYS:** Immediately upon the foreseeability or occurrence of any delay, Contractor shall notify the Community Services Department in writing of the probability of the occurrence and its cause. After the completion of the work, the Community Services Department, will assume that any delays that have occurred in its prosecution and completion have been avoidable delays, except such delays that have been requested in writing and have been approved in advance by the Community Services Department. The Contractor shall make no claims that any delay not called to the attention of the Community Services Department at the time of its occurrence has been an unavoidable delay.

**14. THE CITY OF BATTLE CREEK'S RIGHT TO WITHHOLD CERTAIN AMOUNTS:** The City may withhold from payments to the Contractor such an amount or amounts as may be necessary to cover:

- A. Any Liquidated Damages that have accrued, due to delay;
- B. Any actual damages assessed by MDEQ that are the direct result of contractor negligence;
- C. Failure of the Contractor to make proper payments to a subcontractor;
- D. Failure to provide the City with landfill tickets;
- E. Damage to city or neighboring property caused by the Contractor and not remedied.

**15. PENALTIES FOR TERMINATION FOR NON-PERFORMANCE:** If a Contractor has a contract terminated by the City for non-performance, the Contractor may be removed from the bidders list and debarred from bidding on future bids for an indefinite period of time, commencing on the date of the termination notice. The City may reinstate a vendor when it is in the City's best interest to do so.

**16. MDEQ NOTIFICATION:** The Contractor shall abide by the requirement to notify the Michigan Department of Environmental Quality (MDEQ) Air Quality Division of intent to demolish. Notification must be submitted a minimum of 10 working days prior to beginning demolition. The contractor must also provide a copy of this notice to The Building Official of Community Services, 10 days prior to beginning demolition.

**17. LAND OWNER(S) NOTIFICATION:** The demolition contractor is to notify all land owners within 100 feet of the demolition site 10 days prior to the start of all demolitions.

- A. A copy of the national Emission Standards Air Pollutants (NESHAP), 40 CFR 61, Subpart Form that is required to be submitted to the Michigan Department of Environmental Quality.

**18. CONTRACTOR'S INSURANCE:**

- A. The Contractor shall at the time of execution of this contract, file with the City the Certificate of Insurance, which shall cover all of his insurance as required herein, including evidence of payment of premiums thereon, and the policy or policies or insurance covering said City and their officers, agents and employees. Each such policy and certificate shall be satisfactory to the City. Nothing contained in these insurance requirements is

to be construed as limiting the extent of the Contractor's responsibility for payment of damages resulting from his operations under this Contract.

- B. The contractor shall maintain insurances in force at all times during the term of this agreement at the minimum amounts and types as indicated. Sole proprietors are not required to have workers' compensation insurance.

**Coverage Afforded**

		<b><u>Limits of Liability</u></b>
Workers' Compensation:		\$ 100,000 or statutory limit
Commercial General Liability: including XCU	Bodily Injury Property Damage or Combined Single Limit	\$1,000,000 each occurrence \$1,000,000 each occurrence \$1,000,000
Automobile Liability:	Bodily Injury Liability Property Damage or Combined Single Limit	\$ 300,000 each person \$ 500,000 each occurrence \$ 500,000 \$ 500,000

The City of Battle Creek shall be listed as an additional insured on general liability coverage, and shall be provided with a Certificate of Insurance, prior to award, that reflects this additional insured status. A 30-day notice of cancellation or material change shall be provided to the City and so noted on the Certificate of Insurance. All certificates and notices shall be sent to City of Battle Creek, P.O. Box 1717, Battle Creek, Michigan 49016.

- 19. **VENDOR EVALUATION:** Experience with the City shall be taken into consideration when evaluating responsibility of the vendor.
- 20. **PAYMENT:** Payment shall be made within 30 days of submittal of a correct invoice for complete demolition of each property.
- 21. **FINES:** In the event that the City is fined by MDEQ or any other government agency solely due to the negligence of the contractor in following the rules and regulations of that government agency, the City may seek actual damages against Contractor, pursuant to all legal means of collection. In no case shall the City seek damages greater than the fine(s).
- 22. **VENUE:** Any party bringing a legal action or proceeding against any other party arising out of or relating to this Agreement or the transactions it contemplates shall bring the legal action or proceeding:
  - (i) in the United States District Court for the Western District of Michigan; or
  - (ii) in any court of the State of Michigan sitting in Calhoun County, if there is no federal subject matter jurisdiction.
- 23. **GOVERNING LAW:** This agreement shall be enforced under the laws of the State of Michigan. Contractor must comply with all applicable federal, state, county, and City laws, ordinances, and regulations. Contractor shall ensure payment of all taxes, licenses, permits, and other expenses of any nature associated with the provision of services herein. Contractor shall maintain in current status all Federal, State and Local licenses and permits required for the operation of the business conducted by the Contractor.



## SPECIFICATIONS

1. The City has contracted with a qualified materials testing firm to provide hazardous material testing on buildings and supply the City with reports for the abatement of the hazardous materials. If applicable, these specifications will be included with this IFB.
2. The Contractor shall provide the City's Building Official of Community Services with landfill dump tickets for debris from each house before payment will be made.
3. Contractor shall remove all foundations, exterior walls, basement walls, and accessory structures (attached or unattached) on the property. Contractor will remove concrete slabs, driveway and approaches. Contractor will remove no structure substantially as a whole, but demolish on the premises. Contractor shall demolish masonry walls in small sections and remove structures, steel, cast iron, and heavy timber framing by individual pieces. Contractor shall remove from the structure all interior partitions, piers, chimneys, columns, piping, furnaces apparatus, debris, etc. No construction debris shall be buried onsite.
4. The basement or part basements shall be entirely cleaned out of debris, including that debris resulting from the demolition of the structures. Following the removal of debris the floor slabs and footings shall be completely removed. An Open Hole Inspection must be performed prior to any fill placed in the hole. Concrete and masonry steps or porches shall be removed.
5. Adequate protection of persons and property shall be provided at all times. Contractor shall provide fencing, or if not feasible, then a person on the ground, in addition to any worker(s) operating equipment to monitor work area, insuring work area is clear of pedestrians or dangerous situations. Execute work in such a way as to avoid hazards to persons and property, protect entrance to the use of adjacent buildings and prevent interruption of free passage to and from such adjacent building.
6. Contractor shall raze structures in conformance with all State and Local laws.
7. The contractor shall grade the site to match the elevations of the site perimeter. Continuity of these grades will be maintained throughout the site by direction of the City. Retaining walls shall be removed, at the discretion of the city. Contractor is to fill the entire area with 4 inches of top soil and plant grass seed. All roots, sticks, rocks and similar objects shall be removed from the top six inches or graded areas. The Inspection Division prior to final payment will determine adequacy of grading.
8. The contractor shall, at his own expense, secure and pay to the appropriate department of the local government, the fees or charges for all permits for water, demolition, sidewalks, sheds, removal of abandoned water taps, sealing of house connection drains, pavement cuts, and repaving of streets and sidewalks and all other building, electrical, plumbing, gas and sewer permits necessary under the local regulatory body or any of its agencies.
9. The contractor shall comply with the applicable laws and ordinances governing the disposal of materials, debris, rubbish and trash on or off the project area, and shall commit no trespass on any public or private property in any operation due to or connected with the demolition and site clearance.
10. The contractor shall be responsible for all salvageable materials of the structure for which he has received a notice to proceed, whether or not he has removed such materials from said structure.
11. Only such property may be salvaged by the contractor as the City is authorized by the laws of the State of Michigan and the ordinances of the City of Battle Creek to declare as such and to have removed from the premises, and in the event of any doubt respecting the ownership or the right of salvage of any particular property, the contractor shall request from the City a written statement with respect thereto.
12. Subject to the above, all salvage becomes the property of the contractor, but storage of such materials and equipment on the project area will not be permitted.
13. Personal property of third persons or of occupants of buildings on the site shall not become the property of the contractor.

14. The person intending to cause a demolition or an excavation shall deliver written notice of such intent to the owner of each potentially affected adjoining lot, building or structure at least one week prior to the commencement of work. The notice shall request license to enter the potentially affected lot, building or structure prior to commencement of work and at reasonable intervals during the work to inspect and preserve the lot, building or structure from damage.
15. If afforded the necessary license to enter the adjoining lot, building or structure, the person causing the demolition or excavation to be made shall at all times and at his or her own expense preserve and protect the lot, building or structure from damage or injury. If the necessary license is not afforded, it shall be the duty of the owner of the adjoining lot, building or structure to make safe his or her own property, for the prosecution of which said owner shall be granted the necessary license to enter the premises of the demolition or excavation.
16. All waste materials shall be removed in a manner that prevents injury or damage to persons, adjoining properties and public rights-of-way.
17. If the person causing a demolition or excavation to be made is not afforded license to enter an adjoining structure, that person shall immediately notify in writing both the code official and the owner of the adjoining property that the responsibility of providing support to the adjoining lot, building or structure has become the exclusive responsibility of the owner of the adjoining property.
18. Where a structure has been demolished or removed, the vacant lot shall be filled, graded and maintained in conformity to the established elevation of the street grade at curb level nearest to the point of demolition or excavation. Provision shall be made to prevent the accumulation of water or damage to any foundations on the premises or the adjoining property.
19. All service utility connections shall be discontinued and capped in accordance with the approved rules and the requirements of the authority having jurisdiction.
20. The contractor shall daily keep all public sidewalks, streets and alleys clean to the satisfaction of the City of Battle Creek. The contractor shall leave all parcels in the contract in a condition acceptable to the City of Battle Creek before final payment will be approved.
21. Contractor is responsible for the demolition of the entire structure, including all structural hazardous materials identified herein and all actions of any subcontractor(s). Removal of any materials from this site shall meet all local, State, and Federal standards and laws.

### PRICE SHEET

We propose to furnish all labor, materials, equipment, tools and services required to complete the work in accordance with the specifications and conditions contained herein in consideration of the sum or sums stated below.

<b>ITEM</b>	<b>ADDRESS</b>	<b>PRICE (NO CENTS)</b>
1	14 Fonda Ave., Battle Creek, MI.	\$_____ <b>.00</b>
2	15 Fremont Place., Battle Creek, MI.	\$_____ <b>.00</b>
3	10 Oneita Ave., Battle Creek, MI.	\$_____ <b>.00</b>

For 10 Oneita demolition: This property is in imminent danger and contractor shall treat the property as contaminated and shall dump all materials into a Class 1 landfill. Contractor shall provide MDEQ a letter of imminent danger with their 10-day demolition notice. The City will provide the letter of imminent danger to the contractor awarded the demolition of that property.

Provide names of any and all subcontractors AND the specific work that they would do (be sure to provide copies of their licenses):

---

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### OFFER TO CONTRACT:

**TO THE CITY OF BATTLE CREEK:** We hereby offer and agree to furnish the materials, transportation, or service in compliance with all terms, conditions, specifications, and amendments in the Invitation for Bid and any written exceptions in the offer. We understand that the items in this Invitation to Bid, including, but not limited to, all required certificates are fully incorporated herein as a material and necessary part of the contract. The undersigned hereby states, under penalty of perjury, that all information provided is true, accurate, and complete and states that he/she has authority to submit this bid, which will result in a binding contract if accepted by the City of Battle Creek. We agree to complete the contract within 45 calendar days of the date of the purchase order. The City may extend this completion date for contractors who are awarded many properties. Such an extension should be requested at the time of contract award. The City will approve the completion extension in writing. Warranty: Contractor shall remove and replace at no additional cost to the City any defects in workmanship or materials that may be apparent or may develop within a period of one (1) year from the date of final acceptance.

We acknowledge receipt of the following addendum(s): \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

**I certify, under penalty of perjury, that I have the legal authorization to bind the firm hereunder, and that our firm is not debarred from doing business under the Federal Excluded Parties List System (epls.gov).**

**I, the Contractor or Contractor's legally authorized signer, further certify compliance with the City of Battle Creek Ordinance Chapter 214, Discrimination Prohibited. I further acknowledge and agree that the Contractor's violation of Chapter 214 shall be a material breach of this contract. In addition, Contractor acknowledges and agrees that it shall be liable for any costs or expenses incurred by the City in obtaining from other sources, the work and services to be rendered or performed or the goods or properties to be furnished or delivered to the City under the contract as a result of a material breach in the Contract for violations of Chapter 214.**

\_\_\_\_\_  
Company Name

For clarification of this offer, contact:

\_\_\_\_\_  
Address

Name: \_\_\_\_\_

\_\_\_\_\_  
City State Zip

Phone: \_\_\_\_\_

\_\_\_\_\_  
Signature of Person Authorized to Sign

Fax: \_\_\_\_\_

\_\_\_\_\_  
Printed Name

Email: \_\_\_\_\_

\_\_\_\_\_  
Title

---

### ACCEPTANCE OF OFFER:

The Offer is hereby accepted for the following items: \_\_\_\_\_

The Contractor is now bound to sell the materials or services listed by the attached contract and based upon the Invitation for Bid, including all terms, conditions, specification, amendments, etc. and the Contractor's Offer as accepted by the City.

This contract shall henceforth be referred to as Contract No. **2020-019B**. The Contractor has been cautioned not to commence any billable work or to provide any material or service under this contract until Contractor receives purchase order and/or a notice to proceed from the City of Battle Creek Purchasing Agent.

**COUNTERSIGNED:**

**APPROVED AS TO FORM BY:**

\_\_\_\_\_  
City Manager Date

\_\_\_\_\_  
City Attorney

\_\_\_\_\_  
Witness Signature

Date: \_\_\_\_\_

**ATTACHMENT A - DISADVANTAGED BUSINESS (DBE) FORM**

**I. YOUR FIRM'S BACKGROUND:**

Is your firm an MBE (at least 51% minority ownership)?     YES     NO  
 Is your firm a WBE (at least 51% woman ownership)?     YES     NO  
 Are you subcontracting any part of this project?     YES     NO

**II. SUBCONTRACTING INFORMATION:** If subcontracting any part of the project, the bidder/contractor expressly agrees that:

- (1) If awarded a contract as a result of this bid, the major subcontractors used in the prosecution of the work will be those listed below, and
- (2) The following list includes all subcontractors who will perform work representing approximately five percent (5%) or more of the Total Base Bid.
- (3) The Bidder represents that the subcontractors listed below are financially responsible and are qualified to do the work required.

SUBCONTRACTOR NAME	City/State	Trade or Commodity	MBE	WBE	Approximate dollar value
_____	_____	_____	Y / N	Y / N	\$ _____
_____	_____	_____	Y / N	Y / N	\$ _____
_____	_____	_____	Y / N	Y / N	\$ _____
_____	_____	_____	Y / N	Y / N	\$ _____
_____	_____	_____	Y / N	Y / N	\$ _____
_____	_____	_____	Y / N	Y / N	\$ _____
_____	_____	_____	Y / N	Y / N	\$ _____

**III. DBE RECRUITMENT ACTIVITY LOG:** List the MBE's and WBE's that were approached about being a subcontractor for this job, but who are NOT listed above as a subcontractor.

NAME OF FIRM APPROACHED, BUT NOT USED ON THIS PROJECT	City/State	Trade or Commodity	MBE	WBE	Reason not used on this project
_____	_____	_____	Y / N	Y / N	_____
_____	_____	_____	Y / N	Y / N	_____
_____	_____	_____	Y / N	Y / N	_____
_____	_____	_____	Y / N	Y / N	_____

**ATTACHMENT B**

**HAZARDOUS MATERIAL SPECIFICATIONS**



**NESHAP RENOVATION / DEMOLITION INSPECTION OF  
ASBESTOS CONTAINING MATERIALS  
AND OTHER HAZARDOUS WASTE MATERIALS**



**FOR THE PROPERTY KNOWN AS:**

14 Fonda Ave.  
Battle Creek, MI 49014

**Prepared for:**

City of Battle Creek  
10 North Division St, Room 117  
Battle Creek, MI  
49017

**Prepared By:**

Heather Davis  
Michigan Certification #: A-48908  
Environmental Testing & Consulting, Inc.  
38900 West Huron River Drive  
Romulus, Michigan 48174  
(734) 955-6600  
ETC Job #: 205767

4/17/2018  
**Date of Survey**

4/19/2018  
**Date of Report**

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  - Chart B – Other Hazardous Materials Located
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## **Appendices**

*Appendix A - Polarized Light Microscopy Asbestos Analysis Results*

*Appendix B – Site Map*

*Appendix C - State of Michigan Notification of Intent to Renovate or Demolish*



## 1. Introduction

City of Battle Creek contracted Environmental Testing & Consulting, Inc. (ETC) to perform a renovation/demolition inspection of the building located at 14 Fonda Ave., Battle Creek, MI 49014. This inspection was conducted on 4/17/2018.

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 can 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, Heather Davis, conducted the asbestos containing building material (ACBM) inspection and identified materials suspected of containing asbestos. Heather Davis's State of Michigan Asbestos Building Inspector's certification number is A-48908.

Wherever potential asbestos materials were found, data was collected and recorded regarding quantities and observed conditions of the suspected 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 on the property. ETC has included its information on the second page.

## 2. Information about Asbestos Inspections

### *a. Sampling Procedures*

Representative bulk samples of suspected 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 NESHAP 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 in the client's 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*

Polarized Light Microscopy (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 were 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 an 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 Battle Creek 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, information showing other hazardous materials (above the household quantity limitations) found at the site is included on Chart B in Section 4.0 – Summary and Conclusions. This lists non-asbestos materials that may be hazardous, and that may 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 – NESHAP 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
- Provide worker training
- Post danger signs
- Establish periodic air monitoring regulated areas and decontamination facilities
- Provide respiratory protection and personnel protective clothing
- Conduct employee respiration monitoring
- Maintain/provide record keeping

- Perform 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 Battle Creek, are now required to notify all renovation/demolition workers of the presence, location and quantity of all ACM's within the building.

In most cases, it is more practical to have an asbestos contractor remove 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, prior to renovation or demolition activities, requires any identified asbestos materials be removed 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 signed document from a licensed asbestos abatement supervisor that the material will not become friable
- The supervisor will have to be on-site during all renovation or demolition to insure that the material stays intact.
- 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 an area/building during renovation or demolition activities. If the MDEQ reviews the site and finds the material crumbled or disturbed, both the contractor and building owner may be sited up to \$27,500 per day. 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 **greater than** 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 require a notification.

If removing **more than** 15 square feet but **less than** 160 square feet, or **greater than** 10 linear feet but **less than** 260 linear feet, the contractor only needs to notify LARA as stated above.

For removals of **less than** 15 square feet or **less than** 10 linear feet, no notification is required.

In conjunction with any notification to LARA, the contractor must pay a 1% fee for the project. This fee must 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, and workers are licensed by 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.
- On-site personnel sampling be conducted during the removal activities.
- Prior to dismantling and leaving the site, the contractor must request and pass (below 0.05 f/cc) a final asbestos clearance performed by a neutral.
- Meet all other current regulations and standards.

In addition to these requirements, ETC strongly recommends that City of Battle Creek 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 Battle Creek 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 Battle Creek 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, grey with white skim	No	7000 SF	Throughout
2	<b>Texture, white/green</b>	<b>YES</b>	<b>2100 SF</b>	<b>Room 1-6, 9-11, 13</b>
3	<b>Duct wrap, grey</b>	<b>YES</b>	<b>200 SF</b>	<b>Throughout</b>
4	<b>Transite, grey</b>	<b>YES</b>	<b>121 SF</b>	<b>Room 12</b>
5	Ceiling panel, white with holes	No	162 SF	Room 12
6	<b>9x9 Floor tile, white and black</b>	<b>YES</b>	<b>240 SF</b>	<b>Room 5, 19</b>
7	Covebase, stain	No	30 SF	Room 11, 12
8	Mastic, tan	No	30 SF	Room 11, 12
9	Blown-in-insulation, grey	No	1400 SF	Room 1-6
10	<b>Drywall, white</b>	<b>YES</b>	<b>1500 SF</b>	<b>Room 1, 8-15, 19</b>
11	Mastic, black	No	240 SF	Room 5, 19
12	<b>12x12 Floor tile, green</b>	<b>YES</b>	<b>50 SF</b>	<b>Room 12</b>
13	Mastic, black	No	50 SF	Room 12
14	12x12 Peel and stick, tan	No	350 SF	Room 12
15	Glue, yellow	No	900 SF	Room 11, 12
16	Linoleum, white	No	350 SF	Room 12
17	<b>12x12 Floor tile, red</b>	<b>YES</b>	<b>192 SF</b>	<b>Room 5</b>
18	Linoleum, red	No	20 SF	Room 3, 12
19	Poured concrete, grey	No	1305 SF	Room 17, 18
20	<b>Window glaze, white</b>	<b>YES</b>	<b>36 windows</b>	<b>Exterior</b>
21	Foundation caulk, white	No	10 SF	Exterior
22	House wrap, tan	No	3000 SF	Exterior
23	Shingle, black	No	1500 SF	Exterior
24	Asphalt shingle, blue/white	No	3000 SF	Exterior
25	Fiberboard, brown	No	3000 SF	Exterior
26	Linoleum, tan	No	20 SF	Room 10, 15 (closet)
27	Linoleum, blue	No	10 SF	Room 10 (closet)



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

<b>Material #</b>	<b>Material Description</b>	<b>Quantity</b>	<b>Location</b>
1	Florescent Light Bulb	1	Room 15

**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:



Heather Davis  
State of Michigan Certified Asbestos Building Inspector  
State of Michigan Card #: A-48908

# **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

## REVISED REPORT

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

Project Location :  
14 Fonda Ave, Battle Creek, MI 49014

Attention : Rick Bolek

Client Project : N/A

ETC Job : 205767  
Report Date : 4/19/2018

Login #	Sample ID	Work Requested	Completed
720188	01A	Asbestos Analysis	04/19/2018
720189	01B	Asbestos Analysis	04/19/2018
720190	01C	Asbestos Analysis	04/19/2018
720191	01D	Asbestos Analysis	04/19/2018
720192	01E	Asbestos Analysis	04/19/2018
720193	01F	Asbestos Analysis	04/19/2018
720194	01G	Asbestos Analysis	04/19/2018
720195	02A	Asbestos Analysis	04/19/2018
720196	02B	Asbestos Analysis	04/19/2018
720197	02C	Asbestos Analysis	04/19/2018
720198	02D	Asbestos Analysis	04/19/2018
720199	02E	Asbestos Analysis	04/19/2018
720200	03A	Asbestos Analysis	04/19/2018
720201	03B	Asbestos Analysis	04/19/2018
720202	03C	Asbestos Analysis	04/19/2018
720203	04A	Asbestos Analysis	04/19/2018
720204	04B	Asbestos Analysis	04/19/2018
720205	04C	Asbestos Analysis	04/19/2018
720206	05A	Asbestos Analysis	04/19/2018
720207	05B	Asbestos Analysis	04/19/2018

This report is intended for use solely by the individual or entity to which it is addressed. This report may not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. It may contain information that is privileged, confidential and otherwise exempt by law from disclosure. If the reader of this information is not the intended recipient or an employee of its intended recipient, you are herewith notified that any dissemination, distribution or copying of this information is strictly prohibited. If you have received this information in error, please notify ETL immediately. Thank you.

---

Login #	Sample ID	Work Requested	Completed
720208	05C	Asbestos Analysis	04/19/2018
720209	06A	Asbestos Analysis	04/19/2018
720210	06B	Asbestos Analysis	04/19/2018
720211	06C	Asbestos Analysis	04/19/2018
720212	07A	Asbestos Analysis	04/19/2018
720213	07B	Asbestos Analysis	04/19/2018
720214	07C	Asbestos Analysis	04/19/2018
720215	08A	Asbestos Analysis	04/19/2018
720216	08B	Asbestos Analysis	04/19/2018
720217	08C	Asbestos Analysis	04/19/2018
720218	09A	Asbestos Analysis	04/19/2018
720219	09B	Asbestos Analysis	04/19/2018
720220	09C	Asbestos Analysis	04/19/2018
720221	10A	Asbestos Analysis	04/19/2018
720222	10B	Asbestos Analysis	04/19/2018
720223	10C	Asbestos Analysis	04/19/2018
720224	11A	Asbestos Analysis	04/19/2018
720225	11B	Asbestos Analysis	04/19/2018
720226	11C	Asbestos Analysis	04/19/2018
720227	12A	Asbestos Analysis	04/19/2018
720228	12B	Asbestos Analysis	04/19/2018
720229	12C	Asbestos Analysis	04/19/2018
720230	13A	Asbestos Analysis	04/19/2018
720231	13B	Asbestos Analysis	04/19/2018
720232	13C	Asbestos Analysis	04/19/2018
720233	14A	Asbestos Analysis	04/19/2018
720234	14B	Asbestos Analysis	04/19/2018

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Login #	Sample ID	Work Requested	Completed
720235	14C	Asbestos Analysis	04/19/2018
720236	15A	Asbestos Analysis	04/19/2018
720237	15B	Asbestos Analysis	04/19/2018
720238	15C	Asbestos Analysis	04/19/2018
720239	16A	Asbestos Analysis	04/19/2018
720240	16B	Asbestos Analysis	04/19/2018
720241	16C	Asbestos Analysis	04/19/2018
720242	17A	Asbestos Analysis	04/19/2018
720243	17B	Asbestos Analysis	04/19/2018
720244	17C	Asbestos Analysis	04/19/2018
720245	18A	Asbestos Analysis	04/19/2018
720246	18B	Asbestos Analysis	04/19/2018
720247	18C	Asbestos Analysis	04/19/2018
720248	19A	Asbestos Analysis	04/19/2018
720249	19B	Asbestos Analysis	04/19/2018
720250	19C	Asbestos Analysis	04/19/2018
720251	20A	Asbestos Analysis	04/19/2018
720252	20B	Asbestos Analysis	04/19/2018
720253	20C	Asbestos Analysis	04/19/2018
720254	21A	Asbestos Analysis	04/19/2018
720255	21B	Asbestos Analysis	04/19/2018
720256	21C	Asbestos Analysis	04/19/2018
720257	22A	Asbestos Analysis	04/19/2018
720258	22B	Asbestos Analysis	04/19/2018
720259	22C	Asbestos Analysis	04/19/2018
720260	23A	Asbestos Analysis	04/19/2018
720261	23B	Asbestos Analysis	04/19/2018

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Login #	Sample ID	Work Requested	Completed
720262	23C	Asbestos Analysis	04/19/2018
720263	24A	Asbestos Analysis	04/19/2018
720264	24B	Asbestos Analysis	04/19/2018
720265	24C	Asbestos Analysis	04/19/2018
720266	25A	Asbestos Analysis	04/19/2018
720267	25B	Asbestos Analysis	04/19/2018
720268	25C	Asbestos Analysis	04/19/2018
720269	26A	Asbestos Analysis	04/19/2018
720270	26B	Asbestos Analysis	04/19/2018
720271	26C	Asbestos Analysis	04/19/2018
720272	27A	Asbestos Analysis	04/19/2018
720273	27B	Asbestos Analysis	04/19/2018
720274	27C	Asbestos Analysis	04/19/2018

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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 :**  
 14 Fonda Ave, Battle Creek, MI 49014

**ETC Job :** 205767  
**Client Project :** N/A  
**Date Collected :** 04/17/2018  
**Date Received :** 04/18/2018  
**Date Analyzed :** 04/19/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
720188 01A Rm 12 S Wall Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720188 01A Rm 12 S Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720189 01B Rm 10 E Wall Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720189 01B Rm 10 E Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720190 01C Rm 11 W Wall Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720190 01C Rm 11 W Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
720191 01D Rm 14 W Wall Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720191 01D Rm 14 W Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
720192 01E Rm 6 Ceiling Center Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720192 01E Rm 6 Ceiling Center Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720193 01F Rm 4 W Wall Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720193 01F Rm 4 W Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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**Client Project :** N/A  
**Date Collected :** 04/17/2018  
**Date Received :** 04/18/2018  
**Date Analyzed :** 04/19/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
720194 01G Rm 10 N Wall Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720194 01G Rm 10 N Wall Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720195 02A Rm 7 Center Ceiling Layer-1 Analyst: Scott Larabell	Texture	White/Green Non-Fibrous Homogenous	5% Cellulose	92% Other	3% Chrysotile
720195 02A Rm 7 Center Ceiling Layer-2 Analyst: Scott Larabell	Drywall	Grey Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
720196 02B Rm 5 S Wall Layer-1 Analyst: Scott Larabell		Not Analyzed			
720196 02B Rm 5 S Wall Layer-2 Analyst: Scott Larabell	Drywall	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
720197 02C Rm 6 NW Ceiling Layer-1 Analyst: Scott Larabell		Not Analyzed			
720197 02C Rm 6 NW Ceiling Layer-2 Analyst: Scott Larabell	Drywall	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
720198 02D Rm 13 Ceiling Center Layer-1 Analyst: Scott Larabell		Not Analyzed			
720198 02D Rm 13 Ceiling Center Layer-2 Analyst: Scott Larabell	Drywall	Grey Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
720199 02E Rm 11 Center Ceiling Layer-1 Analyst: Scott Larabell		Not Analyzed			
720199 02E Rm 11 Center Ceiling Layer-2 Analyst: Scott Larabell	Drywall	Grey Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
720200 03A Rm 7 Duct Analyst: Scott Larabell	Duct Wrap	Grey Fibrous Homogenous	15% Cellulose	65% Other	20% Chrysotile

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
720201 03B Rm 17 Duct Analyst: Scott Larabell		Not Analyzed			
720202 03C Rm 17 Duct Analyst: Scott Larabell		Not Analyzed			
720203 04A Rm 12 SE Ceiling Analyst: Scott Larabell	Transite	Grey Fibrous Homogenous	25% Cellulose	45% Other	30% Chrysotile
720204 04B Rm 12 Center Ceiling Analyst: Scott Larabell		Not Analyzed			
720205 04C Rm 12 SW Ceiling Analyst: Scott Larabell		Not Analyzed			
720206 05A Rm 12 NE Ceiling Analyst: Scott Larabell	Ceiling Panel	White Fibrous Homogenous	80% Cellulose	20% Other	None Detected
720207 05B Rm 12 N Ceiling Analyst: Scott Larabell	Ceiling Panel	White Fibrous Homogenous	70% Cellulose	30% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
720208 05C Rm 12 NW Ceiling Analyst: Scott Larabell	Ceiling Panel	White Fibrous Homogenous	80% Cellulose	20% Other	None Detected
720209 06A Rm 19 N Floor Analyst: Scott Larabell	9x9 Floor Tile	White/Black Non-Fibrous Homogenous	2% Cellulose	96% Other	2% Chrysotile
720210 06B Rm 19 Center Floor Analyst: Scott Larabell		Not Analyzed			
720211 06C Rm 19 S Floor Analyst: Scott Larabell		Not Analyzed			
720212 07A Rm 12 S Wall Analyst: Scott Larabell	Covebase	Stain Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720213 07B Rm 12 W Wall Analyst: Scott Larabell	Covebase	Stain Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720214 07C Rm 12 E Wall Analyst: Scott Larabell	Covebase	Stain Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
720215 08A Rm 12 S Wall Analyst: Scott Larabell	Mastic	Tan Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
720216 08B Rm 12 W Wall Analyst: Scott Larabell	Mastic	Tan Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
720217 08C Rm 12 E Wall Analyst: Scott Larabell	Mastic	Tan Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
720218 09A Rm 3 Ceiling Center Analyst: Scott Larabell	Blown-In Insulation	Grey Fibrous Homogenous	90% Mineral wool 2% Cellulose	8% Other	None Detected
720219 09B Rm 4 Center Ceiling Analyst: Scott Larabell	Blown-In Insulation	Grey Fibrous Homogenous	85% Mineral wool 3% Cellulose	12% Other	None Detected
720220 09C Rm 1 Center Ceiling Analyst: Scott Larabell	Blown-In Insulation	Grey Fibrous Homogenous	2% Cellulose 80% Mineral wool	18% Other	None Detected

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**Client Project :** N/A

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
720221 10A Rm 1 S Ceiling Layer-1 Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
720221 10A Rm 1 S Ceiling Layer-2 Analyst: Scott Larabell	Texture	White Non-Fibrous Homogenous	4% Cellulose	94% Other	2% Chrysotile
720222 10B Rm 10 Center Ceiling Layer-1 Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
720222 10B Rm 10 Center Ceiling Layer-2 Analyst: Scott Larabell		Not Analyzed			
720223 10C Rm 9 S Ceiling Layer-1 Analyst: Scott Larabell	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
720223 10C Rm 9 S Ceiling Layer-2 Analyst: Scott Larabell		Not Analyzed			
720224 11A Rm 19 N Floor Analyst: Scott Larabell	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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**Date Collected :** 04/17/2018  
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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
720225 11B Rm 19 Center Floor Analyst: Scott Larabell	Mastic	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
720226 11C Rm 19 S Floor Analyst: Scott Larabell	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720227 12A Rm 12 E Floor Analyst: Scott Larabell	12x12 Floor Tile	Green Non-Fibrous Homogenous	3% Cellulose	94% Other	3% Chrysotile
720228 12B Rm 12 SE Floor Analyst: Scott Larabell		Not Analyzed			
720229 12C Rm 12 E Floor Analyst: Scott Larabell		Not Analyzed			
720230 13A Rm 12 E Floor Analyst: Scott Larabell	Mastic	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
720231 13B Rm 12 SE Floor Analyst: Scott Larabell	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected



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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
720232 13C Rm 12 E Floor Analyst: Scott Larabell	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720233 14A Rm 12 E Floor Analyst: Scott Larabell	12x12 Peel and Stick	Tan Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720234 14B Rm 12 SE Floor Analyst: Scott Larabell	12x12 Peel and Stick	Tan Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720235 14C Rm 12 E Floor Analyst: Scott Larabell	12x12 Peel and Stick	Tan Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720236 15A Rm 12 N Wall Analyst: Scott Larabell	Glue	Yellow Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
720237 15B Rm 12 W Wall Analyst: Scott Larabell	Glue	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720238 15C Rm 12 E Wall Analyst: Scott Larabell	Glue	Yellow Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
720239 16A Rm 12 Center Floor Analyst: Scott Larabell	Linoleum	White Non-Fibrous Homogenous	12% Cellulose	88% Other	None Detected
720240 16B Rm 12 S Floor Analyst: Scott Larabell	Linoleum	White Non-Fibrous Homogenous	12% Cellulose	88% Other	None Detected
720241 16C Rm 12 SW Floor Analyst: Scott Larabell	Linoleum	White Non-Fibrous Homogenous	8% Cellulose	92% Other	None Detected
720242 17A Rm 5 N Floor Analyst: Scott Larabell	12x12 Floor Tile	Red Non-Fibrous Homogenous	2% Cellulose	96% Other	2% Chrysotile
720243 17B Rm 5 W Floor Analyst: Scott Larabell		Not Analyzed			
720244 17C Rm 5 E Floor Analyst: Scott Larabell		Not Analyzed			
720245 18A Rm 3 Under Sink Analyst: Scott Larabell	Linoleum	Red Non-Fibrous Homogenous	15% Cellulose	85% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
720246 18B Rm 3 Under Sink Analyst: Scott Larabell	Linoleum	Red Non-Fibrous Homogenous	20% Cellulose	80% Other	None Detected
720247 18C Rm 12 Under Sink Analyst: Scott Larabell	Linoleum	Red Non-Fibrous Homogenous	20% Cellulose	80% Other	None Detected
720248 19A Rm 17 Center Floor Analyst: Scott Larabell	Poured Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720249 19B Rm 17 W Floor Analyst: Scott Larabell	Poured Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720250 19C Rm 17 W Floor Analyst: Scott Larabell	Poured Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720251 20A Ext Window Rm 12 Analyst: Scott Larabell	Window Glaze	White Non-Fibrous Homogenous	2% Cellulose	95% Other	3% Chrysotile
720252 20B Ext Window Rm 11 Analyst: Scott Larabell		Not Analyzed			

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
720253 20C Ext Window Rm 10 Analyst: Scott Larabell		Not Analyzed			
720254 21A NE Wall Ext House Analyst: Scott Larabell	Foundation Caulk	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720255 21B NE Wall Ext House Analyst: Scott Larabell	Foundation Caulk	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
720256 21C NE Wall Ext House Analyst: Scott Larabell	Foundation Caulk	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
720257 22A Ext Wall N Analyst: Scott Larabell	House Wrap	Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected
720258 22B Ext Wall W Analyst: Scott Larabell	House Wrap	Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected
720259 22C Ext Wall NW Analyst: Scott Larabell	House Wrap	Tan Fibrous Homogenous	85% Cellulose	15% Other	None Detected

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## Polarized Light Microscopy Asbestos Analysis Report

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

**Location :**  
 14 Fonda Ave, Battle Creek, MI 49014

**ETC Job :** 205767  
**Client Project :** N/A  
**Date Collected :** 04/17/2018  
**Date Received :** 04/18/2018  
**Date Analyzed :** 04/19/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
720260 23A N Ext Roof Analyst: Scott Larabell	Shingle	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
720261 23B NE Ext Roof Analyst: Scott Larabell	Shingle	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720262 23C NW Ext Roof Analyst: Scott Larabell	Shingle	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
720263 24A Ext Wall N Analyst: Scott Larabell	Asphalt Siding	Blue/White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
720264 24B Ext Wall W Analyst: Scott Larabell	Asphalt Siding	Blue/White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
720265 24C Ext Wall NW Analyst: Scott Larabell	Asphalt Siding	Blue/White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
720266 25A Ext Wall N Analyst: Scott Larabell	Fiberboard	Brown Fibrous Homogenous	80% Cellulose	20% Other	None Detected

## Polarized Light Microscopy Asbestos Analysis Report

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

**Location :**  
 14 Fonda Ave, Battle Creek, MI 49014

**ETC Job :** 205767  
**Client Project :** N/A  
**Date Collected :** 04/17/2018  
**Date Received :** 04/18/2018  
**Date Analyzed :** 04/19/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
720267 25B Ext Wall W Analyst: Scott Larabell	Fiberboard	Brown Fibrous Homogenous	85% Cellulose	15% Other	None Detected
720268 25C Ext Wall NW Analyst: Scott Larabell	Fiberboard	Brown Fibrous Homogenous	85% Cellulose	15% Other	None Detected
720269 26A Rm 10 Closet Analyst: Scott Larabell	Linoleum	Tan Non-Fibrous Homogenous	7% Cellulose	93% Other	None Detected
720270 26B Rm 10 Closet Analyst: Scott Larabell	Linoleum	Tan Non-Fibrous Homogenous	8% Cellulose	92% Other	None Detected
720271 26C Rm 15 Closet Analyst: Scott Larabell	Linoleum	Tan Non-Fibrous Homogenous	12% Cellulose	88% Other	None Detected
720272 27A Rm 10 Closet Analyst: Scott Larabell	Linoleum	Blue Non-Fibrous Homogenous	20% Cellulose	80% Other	None Detected
720273 27B Rm 10 Closet Analyst: Scott Larabell	Linoleum	Blue Non-Fibrous Homogenous	15% Cellulose	85% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location :  
 14 Fonda Ave, Battle Creek, MI 49014

ETC Job : 205767  
 Client Project : N/A  
 Date Collected : 04/17/2018  
 Date Received : 04/18/2018  
 Date Analyzed : 04/19/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
720274 27C Rm 10 Closet Analyst: Scott Larabell	Linoleum	Blue Non-Fibrous Homogenous	18% Cellulose	82% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Scott Larabell

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.2etil.com

**Bulk Asbestos  
 Chain of Custody**

ETL Project #: 205767

<b>Client:</b> ETC	<b>Contact:</b> Liv Hagerman	<b>Project Location/name:</b> 14 Fonda Ave, Battle Creek MI
<b>Address:</b> 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	<b>Phone:</b> (734) 955-6600	<b>Client Project #:</b>
	<b>Fax:</b> (734) 955-6604	<b>Date Sampled:</b> 4/17/18
	<b>E-mail:</b> results@2etil.com	
<b>Please Provide Results:</b> <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		

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

**PLM Instructions**  
 (Check all that apply) 3 days

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

\* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	01A-G		
	02A-E	See	
	03A-C	attached	
		sheets	
	27A-C		

	Name/Organization	Date	Time
Relinquished (Name/Organization):	Heather Davis	4/17/18	5:30 am/pm
Received (Name/ETL):	Brittany Walls	4/18/18	11:00 am/pm
Stereoscopical Analysis (Name/ETL):	Scott Swabell	4-18-18	12:00 am/pm
Sample Login (Name/ETL):	Brittany Walls	4/18/18	11:45 am/pm
Analysis (Name/ETL):	Scott Swabell	4-18-18	12:00 am/pm
IA/QC Review (Name/ETL):	Brittany Walls	4/19/18	2:53 am/pm
Special Instructions:		Remarks	



# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 5/7/2015

Job #:	Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
205767					14 Fonda Ave, Battle Creek	4/17/18		
	01	Material: Plaster gray w/ white skim	F	A	Rm 12 south wall 720188	Throughout	7000 SF	19
				B	Rm 10 east wall 189			
				C	Rm 11 west wall 190			
				D	Rm 14 west wall 191			
				E	Rm 6 ceiling center 192			
				F	Rm 4 west wall 193			
				G	Rm 10 north wall 194			
	02	Material: Texture white / green	f	A	Rm 9 center ceiling 195	13, 9, 10, 11, 2nd floor	2100 SF	18
				B	Rm 5 south wall 196			
				C	middle NW ceiling 197			
				D	Rm 13 ceiling center 198			
				E	Rm 11 center ceiling 199 2nd floor			
		Material:						

<1000 SF = 3 samples

1000 - <5000 = 5 samples

>5000 = 7 samples

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

Revision date 5/7/2015

Job #:	205767		14 Fonder Ave, Battle Creek		4/17/18	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location				
3	Material: Duct wrap Description: grey	F	A	Rm 7 duct 7200200		Throughout ducts	200 SF	19
	Material: Description		B	Rm 17 duct 201				
	Material: Description		C	Rm 17 duct 202				
	Material: Description							
	Material: Description							
	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 #:	205 767	14 Fonda Ave, Battle Creek	4/17/18				
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
04	Material: Transite	F	A	Rm 12 SE ceiling 7200203	12	121 SF	27
	Description: grey		B	Rm 12 center ceiling 204			
			C	Rm 12 SW ceiling 205			
05	Material: Ceiling Panel	NF	A	Rm 12 NE ceiling 206	12	162 SF	10
	Description: white w/ holes		B	Rm 12 North ceiling 207			
			C	Rm 12 NW ceiling 208			
06	Material: 9x9 floor Tile	NF	A	Rm 19 north floor 209	19, 5	240 SF	15
	Description: white & black		B	Rm 19 center floor 210			
			C	Rm 19 south floor 211			
07	Material: <del>baseboard</del> Covebase	NF	A	Rm 12 south wall 212	12, 11	30 SF	43
	Description: stain		B	Rm 12 west wall 213			
			C	Rm 12 east wall 214			
08	Material: Mastic	NF	A	Same as 07A 215	12, 11	30 SF	43
	Description: tan		B	Same as 07B 216			
			C	Same as 07C 217			
09	Material: Blown-Fn Insulation	F	A	Rm 3 ceiling center 218	2nd floor ceilings	1400 SF	27
	Description: grey		B	Rm 4 center ceiling 219			
			C	Rm 1 center ceiling 220			
10	Material: Drywall	F	A	Rm 1 south ceiling 221	1, 1st floor ceilings	1500 SF	27
	Description: white		B	Rm 10 center ceiling 222			
			C	Rm 9 south ceiling 223			

# Asbestos Material Sampling Summary Sheet Miscellaneous materials

Revision date 5/7/2015

Job #:	Material Description		Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
205767	14 fonda Ave					4/17/18		
11	Material: Mastik Description: black	NF	A B C	Same as 06A Same as 06B Same as 06C	7200224 2225	19,5 SF	240 SF	15
12	Material: 12x12 floor tile Description: green	NF	A B C	Rm 12 east floor Rm 12 SE floor Rm 12 east floor	227 228 229	12 SF	50 SF	33
13	Material: Mastik Description: black	NF	A B C	Same as 12A Same as 12B Same as 12C	230 231 232	12 SF	50 SF	33
14	Material: 12x12 PFS Description: tan	NF	A B C	Same as 12A Same as 12B Same as 12C	233 234 235	12 SF	350 SF	33
15	Material: Glue Description: yellow	NF	A B C	Rm 12 north wall Rm 12 west wall Rm 12 east wall	236 237 238	12,11 SF	900 SF	13
16	Material: <del>white</del> white Description: white linoleum	NF	A B C	Rm 12 center floor Rm 12 south floor Rm 12 SW floor	239 240 241	12 SF	350 SF	32
17	Material: 12x12 floor tile Description: red	NF	A B C	Rm 5 north floor Rm 5 west floor Rm 5 east floor	242 243 244	5 SF	192 SF	22

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

Revision date 5/7/2015

Job #:	Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
205767					14 Fonda Ave	4/17/18		
18	Material: Linoleum Description: red	NF	A B C	Rm 3 under sink 200215 Rm 3 under sink 2010 Rm 12 under sink 2017	3, 12	20 SF	36	
19	Material: Poured Concrete Description: grey	NF	A B C	Rm 17 center floor 2008 Rm 17 west floor 2044 Rm 17 east floor 250	8, 17, 18	1305 SF	20	
20	Material: window Glaze Description: white	NF	A B C	ext window Rm 12 251 ext window Rm 11 252 ext window Rm 10 253	ext windows	36 UNITS	7	
21	Material: foundation caulk Description: white	NF	A B C	NE wall ext house 254 NE wall ext house 255 NE wall ext house 256	ext house	10 SF	47	
22	Material: House wrap Description: tan	NF	A B C	EXT wall north 257 EXT wall west 258 ext wall NW 259	ext house	3000 SF	34	
23	Material: Shingle Description: black	NF	A B C	north ext roof 260 north east ext roof 261 NW ext roof 262	ext house roof	1500 SF	4	
24	Material: Asphalt siding Description: blue/white	NF	A B C	same as 22A 263 same as 22B 264 same as 22C 265	ext house	3000 SF	8	

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

Revision date 5/7/2015

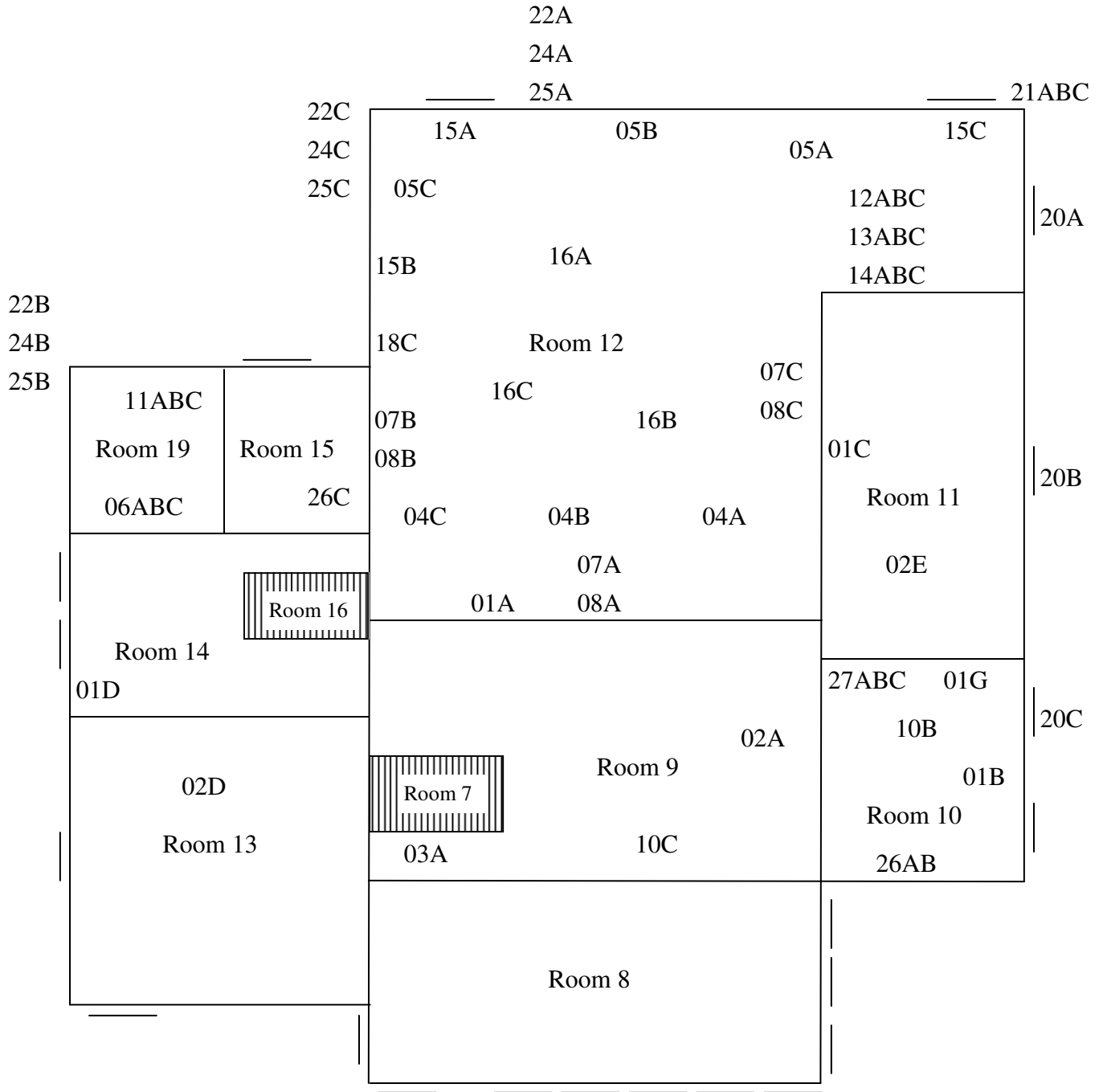
Job #:	205767		14 Fordan Ave		4/17/18		Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location					
25	Material: fiber board	F	A	same as 24A	720266	ext house	3000 SF	41	
	Description: brown		B	same as 24B	267				
			C	same as 24C	268				
26	Material: Linoleum	NF	A	Rm 10 closet	269	10, 15 closets	20 SF	47	
	Description: tan		B	Rm 10 closet	270				
			C	Rm 15 closet	271				
27	Material: Linoleum	NF	A	Rm 10 closet	272	10 closet	10 SF	46	
	Description: blue		B	Rm 10 closet	273				
			C	Rm 10 closet	274				
	Material: Description								
	Material: Description								
	Material: Description								
	Material: Description								

# **APPENDIX B**

## **SITE MAP**

1st floor

14 Fonda Ave, Battle Creek, MI 49014

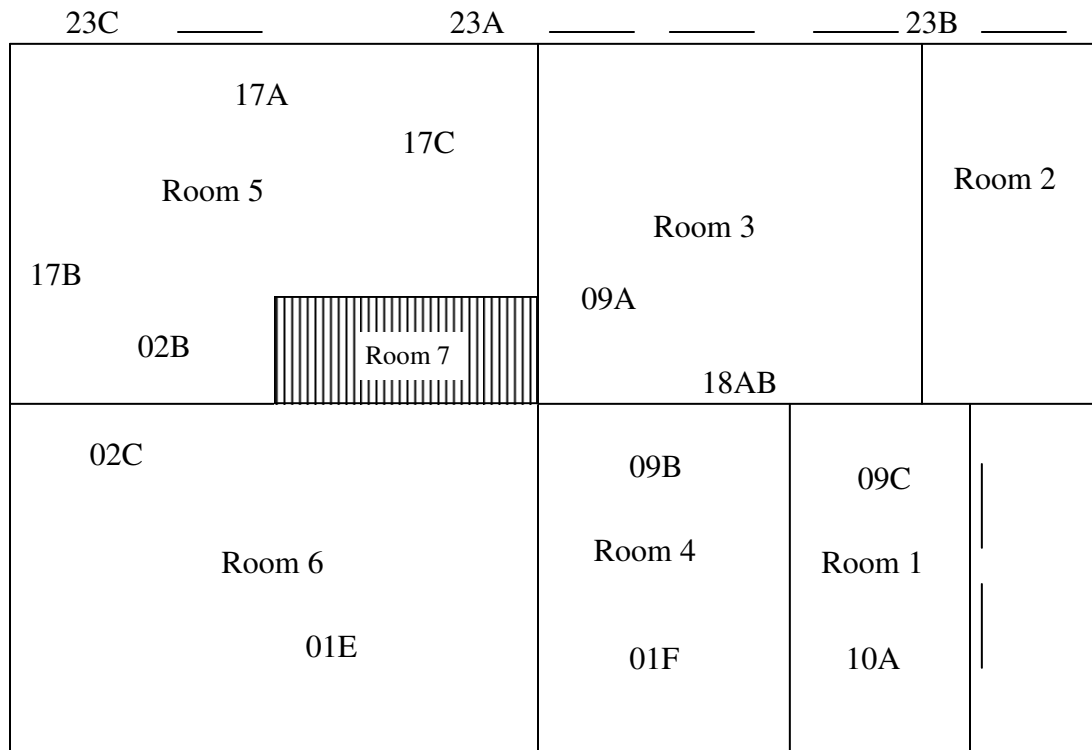


Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

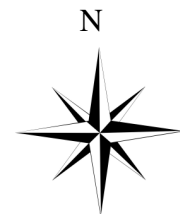


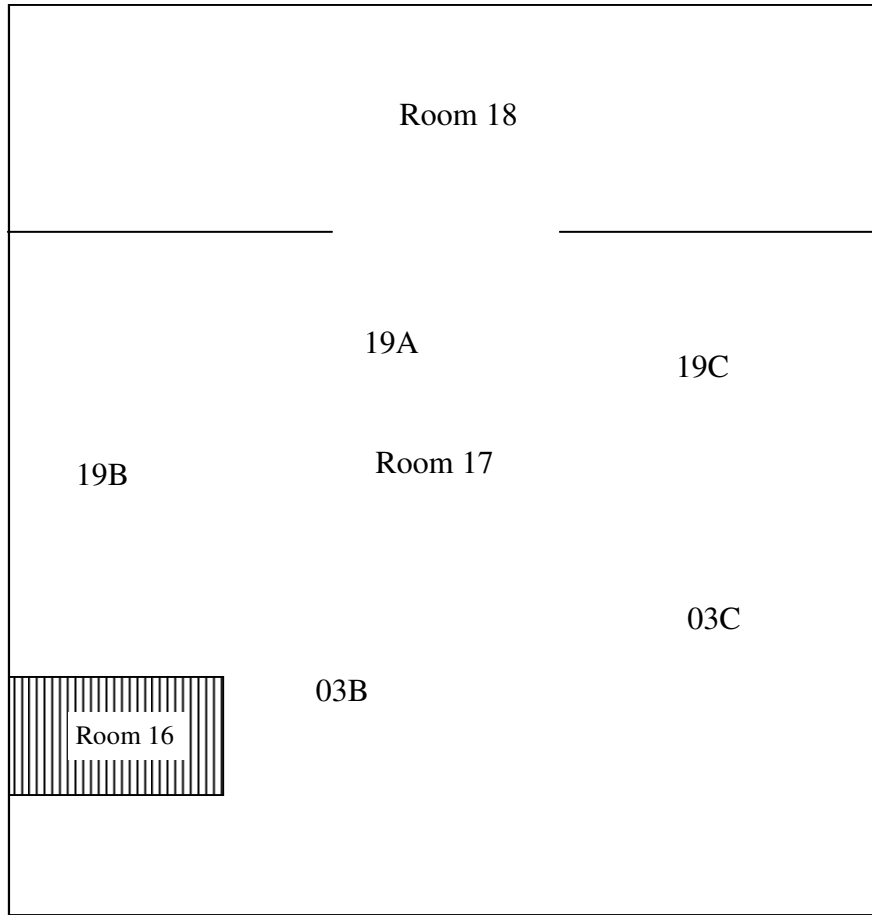
City of Battle Creek  
205767



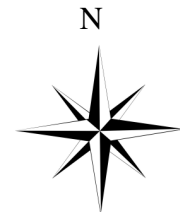


Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.





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**

# **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 ln. 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 ln. 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:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

### WASTE TRANSPORTER 2:

### 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 **not** removed prior to demo.

Category I

Category II

Units of Measure

				<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**, please use the e-submittal process. For more information visit <http://www.michigan.gov/air>, under Air Links click on Asbestos NESHAP Program.

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

517.284.6777 (Office)



**NESHAP RENOVATION / DEMOLITION INSPECTION OF  
ASBESTOS CONTAINING MATERIALS  
AND OTHER HAZARDOUS WASTE MATERIALS**



**FOR THE PROPERTY KNOWN AS:**

15 Freemont Place  
Battle Creek, MI 49017

**Prepared for:**

City of Battle Creek  
10 North Division Street - Rm 117  
Battle Creek, MI 49017  
269-966-3323

**Prepared By:**

Wade Wiltse  
Michigan Certification #: A-51051  
Environmental Testing & Consulting, Inc.  
38900 West Huron River Drive  
Romulus, Michigan 48174  
(734) 955-6600  
ETC Job #: 222946

06/25/2019  
**Date of Survey**

07/03/2019  
**Date of Report**

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## **Appendices**

*Appendix A - Polarized Light Microscopy Asbestos Analysis Results*

*Appendix B - Site Map*

*Appendix C - Photographs*

*Appendix D - State of Michigan Notification of Intent to Renovate or Demolish*

## 1. Introduction

City of Battle Creek contracted Environmental Testing & Consulting, Inc. (ETC) to perform a renovation/demolition inspection of the building located at 15 Freemont Place, Battle Creek, MI 49017. This inspection was conducted on 06/25/2019.

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 can 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, Wade Wiltse, conducted the asbestos containing building material (ACBM) inspection and identified materials suspected of containing asbestos. Wade Wiltse's State of Michigan Asbestos Building Inspector's certification number is A-51051.

Wherever potential asbestos materials were found, data was collected and recorded regarding quantities and observed conditions of the suspected 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 on the property. ETC has included its information on the second page.

## 2. Information about Asbestos Inspections

### *a. Sampling Procedures*

Representative bulk samples of suspected ACBMs 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 NESHAP 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 in the client's 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*

Polarized Light Microscopy (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 were 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 an 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 Battle Creek 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, information showing other hazardous materials (above the household quantity limitations) found at the site is included on Chart B in Section 4.0 – Summary and Conclusions. This lists non-asbestos materials that may be hazardous, and may 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 – NESHAP 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
- Provide worker training
- Post danger signs
- Establish periodic air monitoring regulated areas and decontamination facilities
- Provide respiratory protection and personnel protective clothing
- Conduct employee respiration monitoring
- Maintain/provide record keeping
- Perform 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 Battle Creek, are now required to notify all renovation/demolition workers of the presence, location and quantity of all ACBM's within the building.

In most cases, it is more practical to have an asbestos contractor remove 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, prior to renovation or demolition activities, requires any identified asbestos materials be removed 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 signed document from a licensed asbestos abatement supervisor that the material will not become friable
- The supervisor will have to be on-site during all renovation or demolition to insure that the material stays intact.
- 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 an area/building during renovation or demolition activities. If the MDEQ reviews the site and finds the material crumbled or disturbed, both the contractor and building owner may be sited up to \$27,500 per day. 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 **greater than** 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 require a notification.

If removing **more than** 15 square feet but **less than** 160 square feet, or **greater than** 10 linear feet but **less than** 260 linear feet, the contractor only needs to notify LARA as stated above.

For removals of **less than** 15 square feet or **less than** 10 linear feet, no notification is required.

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

#### *d. Abatement Requirements*

Any company hired to remove identified ACM must ensure that all asbestos companies, supervisors, and workers are licensed by 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.
- On-site personnel sampling be conducted during the removal activities.
- Prior to dismantling and leaving the site, the contractor must request and pass (below 0.05 f/cc) a final asbestos clearance performed by a neutral.
- Meet all other current regulations and standards.

In addition to these requirements, ETC strongly recommends that City of Battle Creek ensure 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 Battle Creek will substantially reduce its 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. However, other potential ACM may be buried or have been 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 Battle Creek or its 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 City of Battle Creek 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 for contacting ETC and having 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, Over Lath – Grey	No	16,128 SF	Throughout
<b>2</b>	<b>Duct Wrap – White</b>	<b>Yes</b>	<b>320 SF</b>	<b>Rooms 1, 4, 6</b>
3	Rolled-In Insulation – Yellow	No	3887 SF	Throughout
4	Blown-In Insulation – Grey	No	3887 SF	Throughout 1 <sup>st</sup> & 2 <sup>nd</sup> Floors
5	Drywall – White	No	1509 SF	Rooms 5-7
6	Mud & Tape – White	No	1509 SF	Rooms 5-7
7	Floor Tile – Black	No	158 SF	Rooms 5, 14
8	Construction Adhesive on # 7 – Brown	No	158 SF	Rooms 5, 14
9	Grout – Grey	No	158 SF	Rooms 5, 14
10	Linoleum – Tan	No	128 SF	Room 5
11	Floor Pad – Yellow	No	135 SF	Room 7
12	12 x 12 P & S – Black	No	270 SF	Room 8
13	Chimney Block Mortar – Grey	No	320 SF	Room 13
<b>14</b>	<b>Stack Cement – Grey</b>	<b>Yes</b>	<b>320 SF</b>	<b>Room 13</b>
15	Chimney Brick – Red	No	320 SF	Room 13
16	Cinder Block – Grey	No	1352 SF	Throughout Basement
17	Cinder Block Mortar - Grey	No	1352 SF	Throughout Basement
18	Foundation Concrete – Grey	No	1352 SF	Throughout Basement
19	Concrete Chip – Grey	No	2404 SF	Throughout Basement
20	Tile – White	No	15 SF	Room 14
21	Grout – Grey	No	15 SF	Room 14
22	Cork Board – Brown	No	55 SF	Room 13
23	Window Caulk – White	No	24 Units	Throughout
24	Exterior Caulk – White	No	5 SF	Exterior
25	Window Glaze	No	24 Units	Exterior
26	House Wrap – Brown	No	336 SF	Exterior
27	House Shingle – Grey	No	2704 SF	Exterior
28	House Shingle – Black	No	2704 SF	Exterior
29	Shed Shingle – Grey	No	325 SF	Exterior Shed
30	Shed Shingle – Black	No	325 SF	Exterior Shed
31	Floor Tile – Red	No	15 SF	Room 9

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

Material #	Material Description	Quantity	Location
	None Found		

**5. Inspector's Information**

The information contained in this report is a true and accurate representation of the conditions and activities at this property at the time of the investigation, based on the professional judgment of the person(s) who conducted and reported this survey. All inspection work was completed by a Michigan certified asbestos inspector as detailed below.

*Wade Wiltse*

Wade Wiltse  
State of Michigan Certification #: A-51051

## **APPENDIX A**

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





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

**ETL Job:** 222946  
**Client Project:** 222946  
**Report Date:** 7/2/2019

**Attention:** Rick Bolek

**Project Location:** 15 Freemont Place, Battle Creek, MI 49017  
Vaccant Residence

Lab Sample Number	Client Sample Number	Sample Type	Completed
1050636	01A	Asbestos PLM	07/02/2019
1050637	01B	Asbestos PLM	07/02/2019
1050638	01C	Asbestos PLM	07/02/2019
1050639	01D	Asbestos PLM	07/02/2019
1050640	01E	Asbestos PLM	07/02/2019
1050641	01F	Asbestos PLM	07/02/2019
1050642	01G	Asbestos PLM	07/02/2019
1050643	02A	Asbestos PLM	07/02/2019
1050644	02B	Asbestos PLM	07/02/2019
1050645	02C	Asbestos PLM	07/02/2019
1050646	03A	Asbestos PLM	07/02/2019
1050647	03B	Asbestos PLM	07/02/2019
1050648	03C	Asbestos PLM	07/02/2019
1050649	04A	Asbestos PLM	07/02/2019
1050650	04B	Asbestos PLM	07/02/2019
1050651	04C	Asbestos PLM	07/02/2019
1050652	05A	Asbestos PLM	07/02/2019

Lab Sample Number	Client Sample Number	Sample Type	Completed
1050653	05B	Asbestos PLM	07/02/2019
1050654	05C	Asbestos PLM	07/02/2019
1050655	06A	Asbestos PLM	07/02/2019
1050656	06B	Asbestos PLM	07/02/2019
1050657	06C	Asbestos PLM	07/02/2019
1050658	07A	Asbestos PLM	07/02/2019
1050659	07B	Asbestos PLM	07/02/2019
1050660	07C	Asbestos PLM	07/02/2019
1050661	08A	Asbestos PLM	07/02/2019
1050662	08B	Asbestos PLM	07/02/2019
1050663	08C	Asbestos PLM	07/02/2019
1050664	09A	Asbestos PLM	07/02/2019
1050665	09B	Asbestos PLM	07/02/2019
1050666	09C	Asbestos PLM	07/02/2019
1050667	10A	Asbestos PLM	07/02/2019
1050668	10B	Asbestos PLM	07/02/2019
1050669	10C	Asbestos PLM	07/02/2019
1050670	11A	Asbestos PLM	07/02/2019
1050671	11B	Asbestos PLM	07/02/2019
1050672	11C	Asbestos PLM	07/02/2019
1050673	12A	Asbestos PLM	07/02/2019
1050674	12B	Asbestos PLM	07/02/2019
1050675	12C	Asbestos PLM	07/02/2019
1050676	13A	Asbestos PLM	07/02/2019
1050677	13B	Asbestos PLM	07/02/2019
1050678	13C	Asbestos PLM	07/02/2019

Lab Sample Number	Client Sample Number	Sample Type	Completed
1050679	14A	Asbestos PLM	07/02/2019
1050680	14B	Asbestos PLM	07/02/2019
1050681	14C	Asbestos PLM	07/02/2019
1050682	15A	Asbestos PLM	07/02/2019
1050683	15B	Asbestos PLM	07/02/2019
1050684	15C	Asbestos PLM	07/02/2019
1050685	16A	Asbestos PLM	07/02/2019
1050686	16B	Asbestos PLM	07/02/2019
1050687	16C	Asbestos PLM	07/02/2019
1050688	17A	Asbestos PLM	07/02/2019
1050689	17B	Asbestos PLM	07/02/2019
1050690	17C	Asbestos PLM	07/02/2019
1050691	18A	Asbestos PLM	07/02/2019
1050692	18B	Asbestos PLM	07/02/2019
1050693	18C	Asbestos PLM	07/02/2019
1050694	19A	Asbestos PLM	07/02/2019
1050695	19B	Asbestos PLM	07/02/2019
1050696	19C	Asbestos PLM	07/02/2019
1050697	20A	Asbestos PLM	07/02/2019
1050698	20B	Asbestos PLM	07/02/2019
1050699	20C	Asbestos PLM	07/02/2019
1050700	21A	Asbestos PLM	07/02/2019
1050701	21B	Asbestos PLM	07/02/2019
1050702	21C	Asbestos PLM	07/02/2019
1050703	22A	Asbestos PLM	07/02/2019
1050704	22B	Asbestos PLM	07/02/2019

Lab Sample Number	Client Sample Number	Sample Type	Completed
1050705	22C	Asbestos PLM	07/02/2019
1050706	23A	Asbestos PLM	07/02/2019
1050707	23B	Asbestos PLM	07/02/2019
1050708	23C	Asbestos PLM	07/02/2019
1050709	24A	Asbestos PLM	07/02/2019
1050710	24B	Asbestos PLM	07/02/2019
1050711	24C	Asbestos PLM	07/02/2019
1050712	25A	Asbestos PLM	07/02/2019
1050713	25B	Asbestos PLM	07/02/2019
1050714	25C	Asbestos PLM	07/02/2019
1050715	26A	Asbestos PLM	07/02/2019
1050716	26B	Asbestos PLM	07/02/2019
1050717	26C	Asbestos PLM	07/02/2019
1050718	27A	Asbestos PLM	07/02/2019
1050719	27B	Asbestos PLM	07/02/2019
1050720	27C	Asbestos PLM	07/02/2019
1050721	28A	Asbestos PLM	07/02/2019
1050722	28B	Asbestos PLM	07/02/2019
1050723	28C	Asbestos PLM	07/02/2019
1050724	29A	Asbestos PLM	07/02/2019
1050725	29B	Asbestos PLM	07/02/2019
1050726	29C	Asbestos PLM	07/02/2019
1050727	30A	Asbestos PLM	07/02/2019
1050728	30B	Asbestos PLM	07/02/2019
1050729	30C	Asbestos PLM	07/02/2019
1050730	31A	Asbestos PLM	07/02/2019

Lab Sample Number	Client Sample Number	Sample Type	Completed
1050731	31B	Asbestos PLM	07/02/2019
1050732	31C	Asbestos PLM	07/02/2019

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 :** Vaccant Residence  
15 Freemont Place, Battle Creek, MI 49017

**ETC Job :** 222946  
**Client Project :** 222946  
**Date Collected :** 06/25/2019  
**Date Received :** 06/27/2019

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1050636 01A 1 Wall E Analyst: Nathan McGee Date Analyzed : 07/02/2019	Plaster	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050637 01B 2 Wall E Analyst: Nathan McGee Date Analyzed : 07/02/2019	Plaster	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050638 01C 3 Wall E Analyst: Nathan McGee Date Analyzed : 07/02/2019	Plaster	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050639 01D 4 Wall E Analyst: Nathan McGee Date Analyzed : 07/02/2019	Plaster	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050640 01E 1 Wall W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Plaster	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050641 01F 2 Wall W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Plaster	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

## Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
38900 Huron River Drive  
Romulus, MI 48174  
**Location :** Vaccant Residence  
15 Freemont Place, Battle Creek, MI 49017

**ETC Job :** 222946  
**Client Project :** 222946  
**Date Collected :** 06/25/2019  
**Date Received :** 06/27/2019

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1050642 01G 3 Wall W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Plaster	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050643 02A 1 Wall E Analyst: Nathan McGee Date Analyzed : 07/02/2019	Duct Wrap	White Fibrous Homogenous	PLM 30% Cellulose	PLM 25% Other	PLM 45% Chrysotile
1050644 02B 4 Wall N Analyst: Nathan McGee Date Analyzed : 07/02/2019		Positive Stop			
Sample Not Analyzed					
1050645 02C 6 Wall N Analyst: Nathan McGee Date Analyzed : 07/02/2019		Positive Stop			
Sample Not Analyzed					
1050646 03A 1 Wall W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Rolled In Insulation	Yellow Fibrous Homogenous	PLM 1% Cellulose PLM 98% Fiberglass	PLM 1% Other	PLM None Detected
1050647 03B 3 Wall W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Rolled In Insulation	Yellow Fibrous Homogenous	PLM 98% Fiberglass PLM 1% Cellulose	PLM 1% Other	PLM None Detected

## Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vaccant Residence  
 15 Freemont Place, Battle Creek, MI 49017

**ETC Job :** 222946  
**Client Project :** 222946  
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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1050648 03C 4 Wall W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Rolled In Insulation	Yellow Fibrous Homogenous	PLM 1% Cellulose PLM 98% Fiberglass	PLM 1% Other	PLM None Detected
1050649 04A 1 Wall W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Blown In Insulation	Gray Fibrous Homogenous	PLM 99% Cellulose	PLM 1% Other	PLM None Detected
1050650 04B 3 Wall W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Blown In Insulation	Gray Fibrous Homogenous	PLM 99% Cellulose	PLM 1% Other	PLM None Detected
1050651 04C 4 Wall W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Blown In Insulation	Gray Fibrous Homogenous	PLM 99% Cellulose	PLM 1% Other	PLM None Detected
1050652 05A 5 Wall W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Drywall	White Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
1050653 05B 6 Wall W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Drywall	White Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1050654 05C 7 Wall W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Drywall	White Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
1050655 06A 5 Wall W Layer-1 Analyst: Nathan McGee Date Analyzed : 07/02/2019	Mud	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050655 06A 5 Wall W Layer-2 Analyst: Nathan McGee Date Analyzed : 07/02/2019	Tape	White Fibrous Homogenous	PLM 99% Cellulose	PLM 1% Other	PLM None Detected
1050656 06B 6 Wall W Layer-1 Analyst: Nathan McGee Date Analyzed : 07/02/2019	Mud	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050656 06B 6 Wall W Layer-2 Analyst: Nathan McGee Date Analyzed : 07/02/2019	Tape	White Fibrous Homogenous	PLM 99% Cellulose	PLM 1% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1050657 06C 7 Wall W Layer-1 Analyst: Nathan McGee Date Analyzed : 07/02/2019	Mud	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050657 06C 7 Wall W Layer-2 Analyst: Nathan McGee Date Analyzed : 07/02/2019	Tape	White Fibrous Homogenous	PLM 99% Cellulose	PLM 1% Other	PLM None Detected
1050658 07A 5 Floor W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Floor Tile	Black Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050659 07B 5 Floor W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Floor Tile	Black Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050660 07C 14 Floor W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Floor Tile	Black Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050661 08A 5 Floor W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Construction Adhesive	Brown Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1050662 08B 5 Floor W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Construction Adhesive	Brown Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050663 08C 14 Floor W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Construction Adhesive	Brown Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050664 09A 5 Floor W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Grout	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050665 09B 5 Floor W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Grout	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050666 09C 14 Floor W Analyst: Nathan McGee Date Analyzed : 07/02/2019	Grout	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050667 10A 5 S Floor Analyst: Nathan McGee Date Analyzed : 07/02/2019	Linoleum	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1050668 10B 5 S Floor Analyst: Nathan McGee Date Analyzed : 07/02/2019	Linoleum	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050669 10C 5 S Floor Analyst: Nathan McGee Date Analyzed : 07/02/2019	Linoleum	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050670 11A 7 S Floor Analyst: Nathan McGee Date Analyzed : 07/02/2019	Floor Pad	Yellow Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050671 11B 7 S Floor Analyst: Nathan McGee Date Analyzed : 07/02/2019	Floor Pad	Yellow Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050672 11C 7 S Floor Analyst: Nathan McGee Date Analyzed : 07/02/2019	12x12 Peel And Stick	Black Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050673 12A 8 S Floor Analyst: Nathan McGee Date Analyzed : 07/02/2019	12x12 Peel And Stick	Black Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1050674 12B 8 S Floor Analyst: Nathan McGee Date Analyzed : 07/02/2019	12x12 Peel And Stick	Black Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050675 12C 8 S Floor Analyst: Nathan McGee Date Analyzed : 07/02/2019	12x12 Peel And Stick	Black Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050676 13A 13 NE Chimney Analyst: Nathan McGee Date Analyzed : 07/02/2019	Chimney Block Mortar	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050677 13B 13 NE Chimney Analyst: Nathan McGee Date Analyzed : 07/02/2019	Chimney Block Mortar	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050678 13C 13 NE Chimney Analyst: Nathan McGee Date Analyzed : 07/02/2019	Chimney Block Mortar	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050679 14A 13 NE Chimney Analyst: Nathan McGee Date Analyzed : 07/02/2019	Stack Cement	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 84% Other	PLM 15% Chrysotile

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1050680 14B 13 NE Chimney Analyst: Nathan McGee Date Analyzed : 07/02/2019		Positive Stop			
Sample Not Analyzed					
1050681 14C 13 NE Chimney Analyst: Nathan McGee Date Analyzed : 07/02/2019		Positive Stop			
Sample Not Analyzed					
1050682 15A 13 NE Chimney Analyst: Nathan McGee Date Analyzed : 07/02/2019	Chimney Brick	Red Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050683 15B 13 NE Chimney Analyst: Nathan McGee Date Analyzed : 07/02/2019	Chimney Brick	Red Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050684 15C 13 NE Chimney Analyst: Nathan McGee Date Analyzed : 07/02/2019	Chimney Brick	Red Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050685 16A 14 E Wall Analyst: Nathan McGee Date Analyzed : 07/02/2019	Cinder Block	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1050686 16B 13 E Wall Analyst: Nathan McGee Date Analyzed : 07/02/2019	Cinder Block	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050687 16C 12 E Wall Analyst: Nathan McGee Date Analyzed : 07/02/2019	Cinder Block	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050688 17A 14 E Wall Analyst: Nathan McGee Date Analyzed : 07/02/2019	Cinder Block Mortar	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050689 17B 13 E Wall Analyst: Nathan McGee Date Analyzed : 07/02/2019	Cinder Block Mortar	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050690 17C 12 E Wall Analyst: Nathan McGee Date Analyzed : 07/02/2019	Cinder Block Mortar	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050691 18A 14 E Wall Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Foundation Concrete	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1050692 18B 13 E Wall Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Foundation Concrete	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050693 18C 12 E Wall Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Foundation Concrete	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050694 19A 11 E Floor Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050695 19B 12 E Floor Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050696 19C 13 E Floor Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050697 20A 14 W Bench Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Tile	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1050698 20B 14 W Bench Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Tile	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050699 20C 14 W Bench Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Tile	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050700 21A 14 W Bench Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Grout	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050701 21B 14 W Bench Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Grout	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050702 21C 14 W Bench Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Grout	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050703 22A 13 NE Wall Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Cork Board	Brown Fibrous Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1050704 22B 13 NE Wall Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Cork Board	Brown Fibrous Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected
1050705 22C 13 NE Wall Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Cork Board	Brown Fibrous Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected
1050706 23A 11 S Window Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Window Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1050707 23B 12 S Window Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Window Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1050708 23C 13 N Window Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Window Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1050709 24A Ext E Door Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1050710 24B Ext E Door Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1050711 24C Ext E Door Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Exterior Caulk	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1050712 25A Ext N Window Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Window Glaze	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1050713 25B Ext N Window Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Window Glaze	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1050714 25C Ext W Window Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	Window Glaze	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1050715 26A Ext N Wall Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	House Wrap	Brown Fibrous Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected

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## Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vaccant Residence  
 15 Freemont Place, Battle Creek, MI 49017

**ETC Job :** 222946  
**Client Project :** 222946  
**Date Collected :** 06/25/2019  
**Date Received :** 06/27/2019

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1050716 26B Ext N Wall Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	House Wrap	Brown Fibrous Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected
1050717 26C Ext S Wall Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	House Wrap	Brown Fibrous Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected
1050718 27A Ext Roof N House Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	House Shingle	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050719 27B Ext Roof N House Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	House Shingle	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050720 27C Ext Roof S House Analyst: Eleni Kiliaris Date Analyzed : 07/02/2019	House Shingle	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050721 28A Ext Roof N House Layer-1 Analyst: Erin Danhausen Date Analyzed : 07/02/2019	House Shingle	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected

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## Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vaccant Residence  
 15 Freemont Place, Battle Creek, MI 49017

**ETC Job :** 222946  
**Client Project :** 222946  
**Date Collected :** 06/25/2019  
**Date Received :** 06/27/2019

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1050722 28B Ext Roof N House Layer-1 Analyst: Erin Danhausen Date Analyzed : 07/02/2019	House Shingle	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1050723 28C Ext Roof S House Layer-1 Analyst: Erin Danhausen Date Analyzed : 07/02/2019	House Shingle	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1050724 29A Ext Roof Shed N Layer-1 Analyst: Erin Danhausen Date Analyzed : 07/02/2019	Shed Shingle	Gray Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1050725 29B Ext Roof Shed N Layer-1 Analyst: Erin Danhausen Date Analyzed : 07/02/2019	Shed Shingle	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1050726 29C Ext Roof Shed S Layer-1 Analyst: Erin Danhausen Date Analyzed : 07/02/2019	Shed Shingle	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1050727 30A Ext Roof Shed N Layer-1 Analyst: Erin Danhausen Date Analyzed : 07/02/2019	Shed Shingle	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected

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### Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
38900 Huron River Drive  
Romulus, MI 48174  
**Location :** Vaccant Residence  
15 Freemont Place, Battle Creek, MI 49017

**ETC Job :** 222946  
**Client Project :** 222946  
**Date Collected :** 06/25/2019  
**Date Received :** 06/27/2019

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1050728 30B Ext Roof Shed N Layer-1 Analyst: Erin Danhausen Date Analyzed : 07/02/2019	Shed Shingle	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1050729 30C Ext Roof Shed S Layer-1 Analyst: Erin Danhausen Date Analyzed : 07/02/2019	Shed Shingle	Black Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1050730 31A 9 N Floor Layer-1 Analyst: Erin Danhausen Date Analyzed : 07/02/2019	Floor Tile	Red Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050730 31A 9 N Floor Layer-2 Analyst: Erin Danhausen Date Analyzed : 07/02/2019	Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1050731 31B 9 N Floor Layer-1 Analyst: Erin Danhausen Date Analyzed : 07/02/2019	Floor Tile	Red Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050731 31B 9 N Floor Layer-2 Analyst: Erin Danhausen Date Analyzed : 07/02/2019	Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected

Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vaccant Residence  
 15 Freemont Place, Battle Creek, MI 49017

**ETC Job :** 222946  
**Client Project :** 222946  
**Date Collected :** 06/25/2019  
**Date Received :** 06/27/2019

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1050732 31C 9 N Floor Layer-1 Analyst: Erin Danhausen Date Analyzed : 07/02/2019	Floor Tile	Red Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1050732 31C 9 N Floor Layer-2 Analyst: Erin Danhausen Date Analyzed : 07/02/2019	Mastic	Brown Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected

Lab Supervisor/Other Signatory

Analyst:

Eleni Kiliaris

Erin Danhausen

Nathan McGee

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

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**ENVIRONMENTAL TESTING LABORATORIES, INC**

38900 HURON RIVER DRIVE  
 ROMULUS, MICHIGAN 48174  
 (734) 955-6600  
 FAX: (734) 992-2261  
 www.2etl.com

**Bulk Asbestos/Mold  
 Chain of Custody**

ETL Project #: 222946

Client: <u>ETC</u>	Contact: <u>Jake Gleason</u>	Project Location/Name: <u>15 Fremont Place Battle Creek MI, 49017</u>
Address: <u>721 North Capitol Lansing MI, 48906</u>	Phone: <u>989-944-4312</u>	Client Project #: <u>222946</u>
	Fax:	Date Sampled: <u>6/25/19</u>
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		
E-mail: <u>Jake.Gleason@2ETL.com</u>		

Turnaround Time (TAT):  RUSH (2 hrs)  Same Day  24 hrs  48 hrs  Standard (3-5 days)  Other \_\_\_\_\_

**Asbestos PLM/Mold Instructions**  
 (Check all that apply)

PLM EPA600/R-93/116, 1993 (Standard method) <input checked="" type="checkbox"/>	Stop at 1st Positive: Yes <input checked="" type="checkbox"/> / No <input type="checkbox"/>
Point Counting: Yes <input checked="" type="checkbox"/> / No <input type="checkbox"/> *400 Points <input type="checkbox"/> *1000 Points <input type="checkbox"/>	Clearly Mark Homogenous Group
Point Counting Criteria: <u>Count anything under 30%</u>	*Gravimetric Reduction <input type="checkbox"/> *Nuisance Dust <input type="checkbox"/>
Mold Air <input type="checkbox"/> Mold Tape <input type="checkbox"/> Mold Bulk <input type="checkbox"/>	*Soil or Vermiculite Analysis <input type="checkbox"/>

\* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description/Volume
	<u>01A-C</u>		
	<u>02A-C</u>	<u>Please see attached</u>	
	<u>31A-C</u>		

Relinquished (Name/Organization): <u>Ernie Kilkka</u>	Date: <u>6/25/19</u>	Time: <u>12:00</u> AM/PM <input checked="" type="radio"/>
Received (Name/ETL): <u>Brianne Orr</u>	Date: <u>6/27/19</u>	Time: <u>9:43</u> AM/PM <input checked="" type="radio"/>
Stereoscopic/Sample Analysis (Name/ETL): <u>Ed Miller Mike Miller</u>		

Special Instructions: \_\_\_\_\_ Remarks: \_\_\_\_\_

\*\*IN ORDER TO ENSURE RESULTS BY SPECIFIED TAT, THE LAB MUST BE EMAILED/CALLED WITH THE QUANTITY OF SAMPLES TO BE SHIPPED OR DROPPED OFF  
 \*\*RUSHES ARE NOT ACCEPTED AFTER 3:00 PM AND SAME DAYS ARE NOT ACCEPTED AFTER 2:00 PM  
 Page \_\_\_ of \_\_\_



# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 5/7/2015

Job #: <b>222946</b>		Building: <b>B Fremont Place, Battle creek</b>				Date: <b>6/25/19</b>		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
01	Material: <b>Plaster &amp; over lath</b>	F	A	1	Wall E	throughtout	16128 SF	
	<b>Gray</b>		B	2	E			1050636 637
			C	3	E			638
			D	4	E			639
			E	1	W			640
			F	2	W			641
			G	3	W			642
	Material:							
	Material:							

<1000 SF = 3 samples

1000 - <5000 = 5 samples

>5000 = 7 samples

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

Revision date 5/7/2015

Job #: 222946		Building: 15 Fremont Place <del>Bottle Creek</del>			Date: 6/25/19			
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	1	wan E 10506	3 1/4' x 6'		
	Description: white		B	4				N 644
			C	6				N 645
	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 #: 222 916		15 Fremont Place				6/25/19		
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: Rolled in insulation	NF2	A	1 Wall	W 10504	throughout	3889 SF	
	Description: yellow		B	3	↓			647
			C	4	↓			648
04	Material: Blown in insulation	NF2	A	1 Wall	W 649	throughout <del>1st</del> 1st 2nd floors RS	3889 SF	
	Description: Grey		B	3	↓			650
			C	4	↓			651
05	Material: Dry wall	NF2	A	5 Wall	W 652	S/G/D	1509 SF	
	Description: White		B	6	↓			653
			C	7	↓			654
06	Material: mad + type	NF2	A	5 Wall	W 655	S/G/D	1509 SF	
	Description: White		B	6	↓			656
			C	7	↓			657
07	Material: Floor tile	NF1	A	5 floor	W 658	S/14	158 SF	
	Description: Black		A	5	↓			659
			C	14	↓			660
08	Material: Construction Adhesive	NF2	A	5	W 661	S/14	158 SF	
	Description: Brown on #7		B	5	W 662			
			C	14	W 663			
09	Material: Grout	NF2	A	5	W 664	S/14	158 SF	
	Description: Grey		B	5	W 665			
			C	14	↓			W 666

# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #: 222946		15 Fremont Place					6/25/19		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location			Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
10	Material: Linoleum	NFI	A	S	S	Floor 1050667	5	128 SF	
	Description: tan		B	S		668			
			C	S		669			
11	Material: floor pad	NFI	A	D		670	7	135 SF	
	Description: yellow		B	D		671			
			C	D		672			
12	Material: 12 X 12 Peel and stick	NFI	A	S	S	Floor 673	8	270 SF	
	Description: Block		B	S		674			
			C	S		675			
13	Material: Chimney Block mortar	NF2	A	13	NE	Chimney 676	13	320 SF	
	Description: Grey		B	13		677			
			C	13		678			
14	Material: Stock cement	NF2	A	13		679	13	320 SF	
	Description: Grey		B			680			
			C			681			
15	Material: Chimney Brick	NF2	A			682	13	320 SF	
	Description: Red		B			683			
			C			684			
16	Material: Cinder Block	NF2	A	14	E	W4N 685	13/14/15/16 11/12 throughout Basement	1352 SF	
	Description: Grey		B	13		686			
			C	12		687			

**Asbestos Material Sampling Summary Sheet**  
Miscellaneous materials

Revision date 5/7/2015

Job #:		15 Freelard Place				6/25/19		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
17	Material: <u>Conder Block mortar</u>	NF2	A	14 E Wall	688	throughout Basement	24	
	Description: <u>Gray</u>		B	13 ↓				689
			C	12 ↓				690
18	Material: <u>Foundation concrete</u>	NF2	A	14 E wall	691	throughout Basement	1352 SF	
	Description: <u>Gray</u>		B	13 ↓				692
			C	12 ↓				693
19	Material: <u>Concrete chip</u>	NF2	A	11 E floor	694	throughout Basement	2404 SF	
	Description: <u>Gray</u>		B	12 ↓				695
			C	13 ↓				696
20	Material: <u>Tile</u>	NF2	A	14 W Bench	697	14	155F	
	Description: <u>white</u>		B	↓				698
			C	↓				699
21	Material: <u>Grout</u>	NF2	A	↓	700	14	155F	
	Description: <u>Gray</u>		B	↓				701
			C	↓				702
22	Material: <u>Cork Board</u>	NF2	A	13 NE wall	703	13	55 SF	
	Description: <u>Brown</u>		B	13 ↓				704
			C	13 ↓				705
23	Material: <u>Window caulk</u>	NF2	A	11 S window	706	throughout house	24 units	
	Description: <u>White</u>		B	12 S ↓				707
			C	13 N ↓				708

# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #: 222 946		15 Fremont Place				6/25/19		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
24	Material: EXT caulk	NF2	A	EXT E Door 1050709	ext	5 SF		
	Description: white		B	↓ ↓ ↓ 710				
			C	↓ ↓ ↓ 711				
25	Material: Window Glaze	NF2	A	EXT N Window 712		24 units		
	Description: white		B	↓ ↓ ↓ 713				
			C	↓ ↓ ↓ 714				
26	Material: House wrap	NF2	A	↓ ↓ ↓ 715		336 SF		
	Description: Brown		B	↓ ↓ ↓ 716				
			C	↓ ↓ ↓ 717				
27	Material: House Shingle	NFI	A	EXT Roof N House 718		2704 SF		
	Description: Gray		B	↓ ↓ ↓ 719				
			C	↓ ↓ ↓ 720				
28	Material: House Shingle	NFI	A	↓ ↓ ↓ 721		2204 SF		
	Description: Black		B	↓ ↓ ↓ 722				
			C	↓ ↓ ↓ 723				
29	Material: Shed Shingle	NFI	A	EXT Roof Shed N 724	Shed	325 SF		
	Description: Gray		B	↓ ↓ ↓ 725				
			C	↓ ↓ ↓ 726				
30	Material: Shed Shingle	NFI	A	↓ ↓ ↓ 727	Shed	325 SF		
	Description: Black		B	↓ ↓ ↓ 728				
			C	↓ ↓ ↓ 729				

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

Revision date 5/7/2015

Job #: <u>222946</u>		<u>15 Fremont Place, Battle creek</u>			<u>6/25/19</u>		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
31	Material: <u>floor tile</u>	NFI	A	9 N Floor	1050730 731 732	9	15 SF
	Description: <u>Red</u>		B	9 N ↓			
			C	9 N ↓			
	Material:						
	Description:						
	Material:						
	Description:						
	Material:						
	Description:						
	Material:						
	Description:						
	Material:						
	Description:						

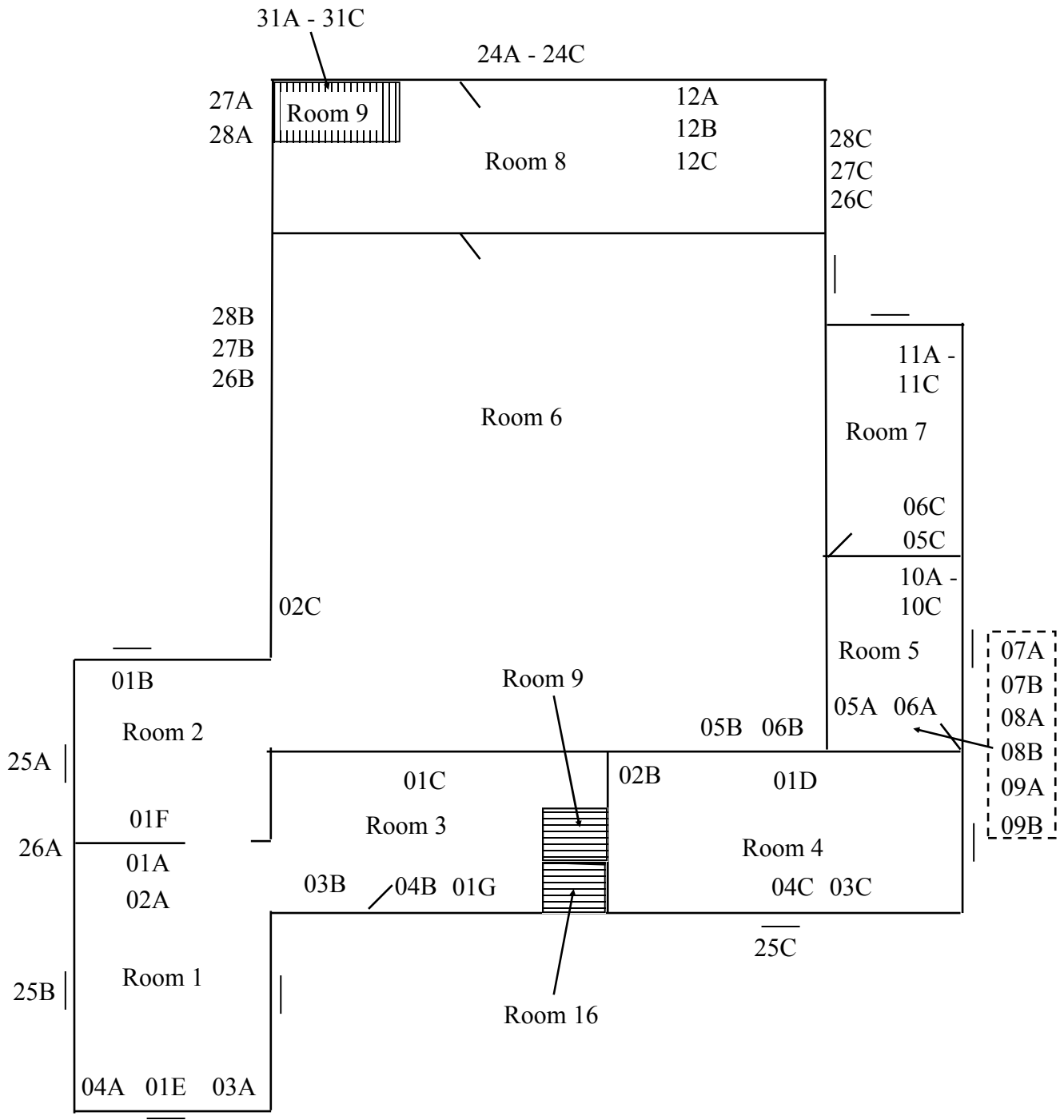
# **APPENDIX B**

## **SITE MAP**



1st floor

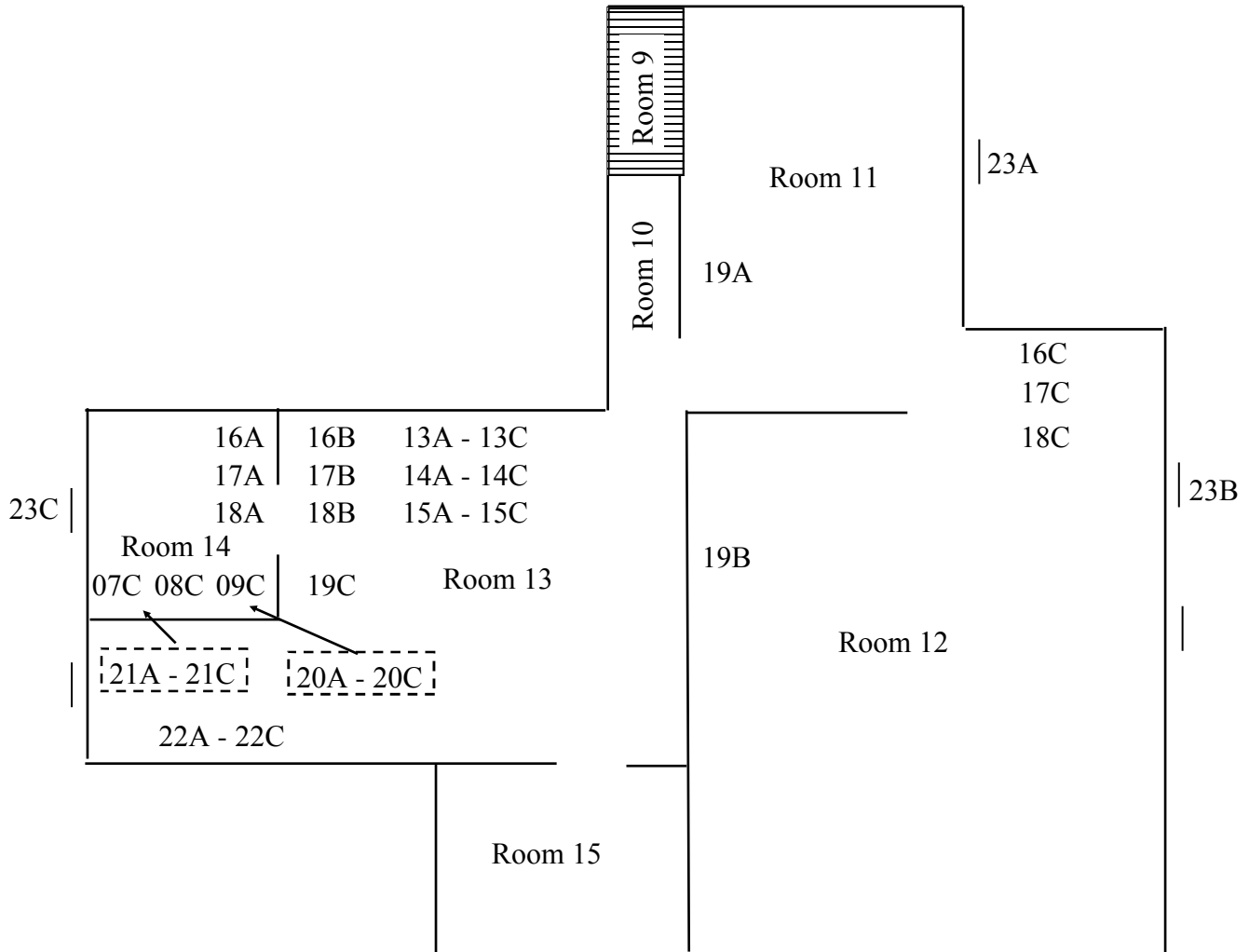
15 Freemont Place, Battle Creek, MI 49017



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.



City of Battle Creek  
222946

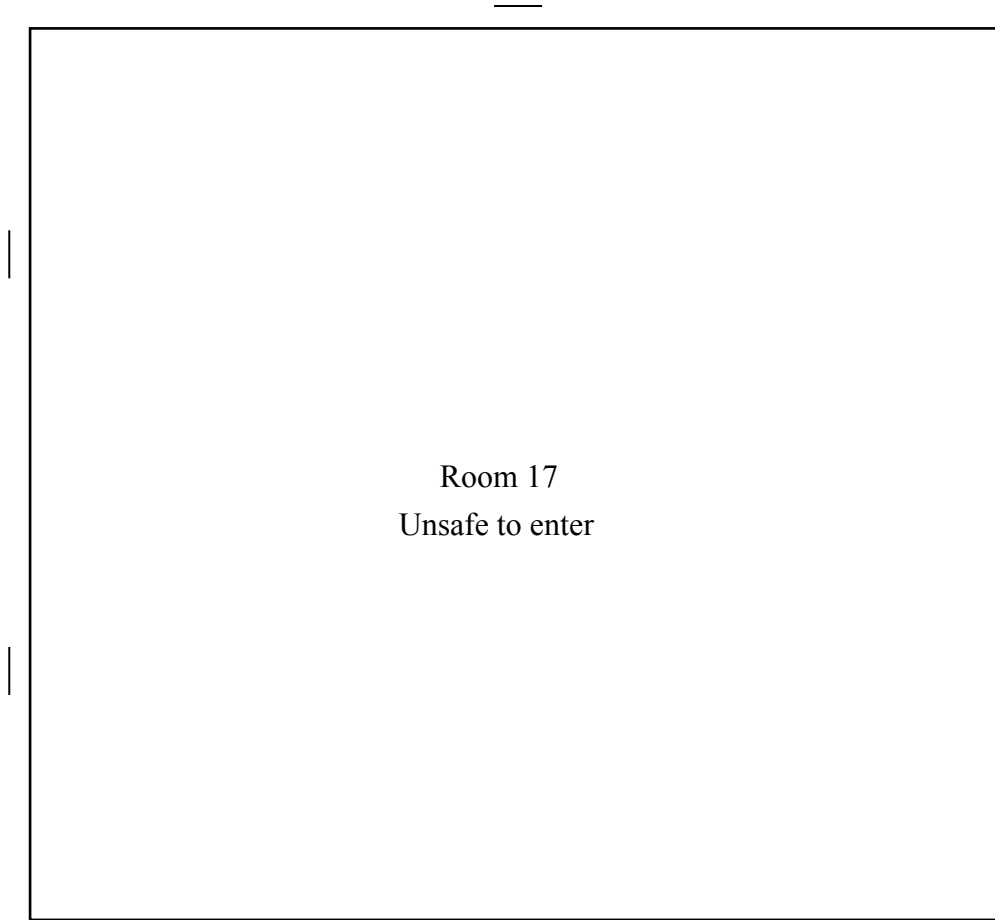


Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.



2nd floor

15 Fremont Place, Battle Creek, MI 49017



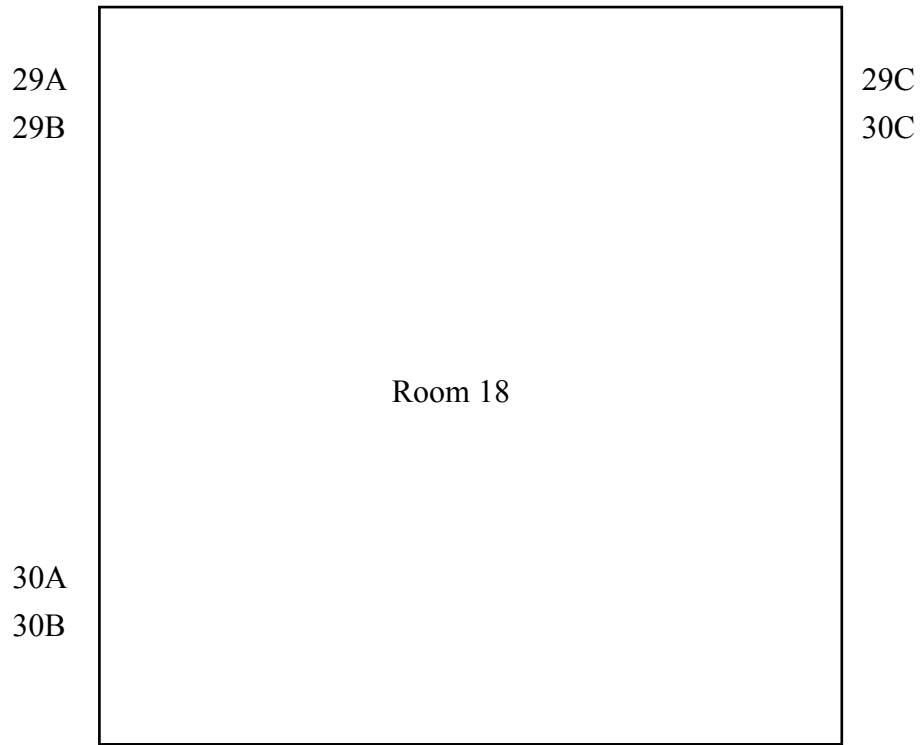
Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.



City of Battle Creek  
222946

Shed

15 Freemont Place, Battle Creek, MI 49017



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.



City of Battle Creek  
222946

**APPENDIX C**

**PHOTOGRAPHS**



Side A



Side B



Side C



Side D



Pos. Duct Wrap



Pos. Stack Cement

## **APPENDIX D**

# **STATE OF MICHIGAN NOTIFICATION OF INTENT TO RENOVATE OR 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)