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BID SUBMISSION CHECKLIST

Please do **NOT** submit your bid in a binder or folder. Submit only the following forms, in this order, and stapled:

_____ Complete your bid in ink.

_____ Price Sheet completed. It is not necessary to bid on every property.

_____ Signed and completed Offer To Contract page.

_____ Include copies of licenses for asbestos abatement, if applicable, for your firm or for the firm subcontracting to you.

_____ Identify any subcontractors to be used, if applicable

_____ Completed Attachment A

_____ Insert ONLY THE ABOVE DOCUMENTS into a sealed, opaque envelope, with your name and this bid# and title on the cover.

**CITY OF BATTLE CREEK, MICHIGAN
NOTICE OF INVITATION FOR BIDS
IFB #2018-057B
DEMOLITION FOR VARIOUS PROPERTIES**

IFB DUE DATE and TIME: March 1, 2018, at 2:00 pm local time (office hours 8-12 and 1-5) **NOTE!** City Hall now has Security on the 1st floor. Please allow extra time to get through Security when dropping off your bid.

BID SUBMITTAL: Bids must be submitted in a sealed envelope with the IFB number, the due date/time and the bidder's name and address clearly indicated on the envelope. Bids must be in the actual possession of the Purchasing Department Room 214, City Hall, 10 N. Division Street, Battle Creek, Michigan 49014 on or prior to the exact time and date indicated above. The prevailing clock shall be www.time.gov. Late bids will not be considered. All bids will be publicly opened and read aloud at the aforementioned address. All interested parties are invited to attend.

PROJECT DESCRIPTION: The City of Battle Creek will accept bids for demolition of various properties. Prevailing wages apply.

PRE-BID CONFERENCE: NONE	FUNDING: This project has federal funding. CDBG requirements are applicable for this contract.
TECHNICAL QUESTIONS OR SITE VISITATION: Richard Bolek Community Development 269-966-3319	PREVAILING WAGES: Required for this project. See attached wage rates at the end of this document. Contractor shall abide by all the requirements set forth in Section 208.09, PREVAILING WAGES ON CITY PROJECTS, of the City's Administrative Code.
COPIES OF IFB and PLANHOLDERS LIST: Purchasing/Engineering Division 10 N. Division Rm 214 Battle Creek, MI 49014 269-966-3390	FEE: NONE
	IFB ISSUE DATE: February 9, 2018
DOCUMENT EXAMINATION: City of Battle Creek, Purchasing Division Dodge Corporation in Kalamazoo, Michigan Builders Exchange in Grand Rapids, Kalamazoo & Lansing, Michigan	ADDENDA: Each addendum will be on file in the Office of the Purchasing Agent. 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 addenda issued. All such addenda shall become a binding part of the contract.
BID BOND: Each bid must be accompanied by a certified check, cashier's check, or standard-form bid bond, made payable to the City of Battle Creek, in an amount of not less than five (5%) percent of the base bid submitted. Failure of any accepted bidder to enter into a contract for the work will cause forfeit of the bid security. After contracts for the work have been signed, all bid securities will be returned.	PERFORMANCE/LABOR/MATERIALS BONDS: The accepted bidder will be required to furnish a satisfactory performance bond and labor/materials payment bond, each in an amount equal to 100% of the contract and insurance certificate upon forms acceptable to the City.
BID VALID: Bids may be withdrawn up to the time and date of the bid opening. After the bid opening, bids may not be withdrawn for a period of ninety (90) days thereafter. The City of Battle Creek reserves the right to waive any irregularity or informality in bids, to reject any and/or all bids, in whole or in part, or to award any contract to other than the low bidder, should it be deemed in its best interest to do so.	

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.
- 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 as follows:

All bids, notifications, claims and statements must be signed by an individual authorized to bind the bidder. Any individual signing certifies, under penalty of perjury, that he or she has the legal authorization to bind the bidder.

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 or all 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 and time.

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, the City of Battle Creek 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 the City 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 IFB addendum or amendment, a contract amendment, or by mutually agreed terms and conditions in the contract documents.

8. 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.

9. 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.

- 10. 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 on other types of materials, equipment and supplies. 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. 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.
- 11. DELIVERY:** Bids shall include all charges for mobilization, delivery, packing, crating, containers, etc. Prices bid will be considered as being based on F.O.B. Delivered, freight included.
- 12. 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).
- 13. CURRENCY:** Prices calculated by the bidder shall be stated in U.S. dollars.
- 14. PURCHASE ORDER:** The successful bidder may not commence work under this contract until authorized to do so by the Purchasing Agent as evidenced by a purchase order.
- 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.

GENERAL TERMS AND CONDITIONS

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. **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).
3. **ASSIGNMENT OF CONTRACT:** No right or interest in this contract shall be assigned in whole or in part by the contractor and no delegation of any duty of Contractor shall be made without prior written permission of the City.
4. **INDEMNIFICATION:** The contractor shall protect, defend, and save the City, its officials, employees, departments and agents harmless against any demand for payment for the use of any patented material, process, or device that may enter into the manufacture, construction, or form a part of the work covered by either order or contract; and from suits or a charge of every nature and description brought against it for, or on account of, any injuries or damages received or sustained by the party or parties from any acts of the contractor, their employees, or agents; from all liability claims, demands, judgments and expenses to the persons or property occasioned, wholly, or in part, by the acts or omissions of contractor, agents or employees.
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. By signing the Offer to Contract, it is agreed that the IFB in its entirety and all enclosed forms are fully incorporated as a material part of the contract. In case of conflicts, the following order shall prevail: 1) Addendum, 2) Specifications, 3) Special Terms and Conditions 4) General Terms and Conditions, 5) Instructions to Bidders, 7) Insurance forms.
6. **PROVISIONS REQUIRED BY LAW:** Each provision of law and clause required by law to be in the contract shall be read and enforced as though it were included herein, and if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party the contract shall forthwith be physically amended to make such insertion or correction.
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 whatsoever. The Contractor is advised that taxes or social security payments shall not be withheld from a City payment issued hereunder and that Contractor should make arrangements to directly pay such expenses, if any.
8. **RIGHTS AND REMEDIES:** No provision in this document or in the bidder's offer shall be construed, expressly or by implication as a waiver by either party of any existing or future right or remedy available by law in the event of any claim or 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, and shall not be deemed a waiver of any right of either party to insist upon the strict performance of the contract.
9. **ADVERTISING:** Contractor shall not advertise, issue a press release or otherwise publish information concerning this IFB or contract without prior written consent of the City. The City shall not unreasonably withhold permission.
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 Bidder to be familiar and comply with said regulations/policies.
11. **ROYALTIES, PATENTS, NOTICES AND FEES:** Contractor shall give all notices and pay all royalties and fees, and defend all suits or claims for infringement of any patent rights and shall save the City harmless from loss on account thereof. He shall comply with all laws, ordinances and codes applicable to any portion of the work.
12. **NON-COLLUSION:** By signing the Offer to Contract, the bidder, by its officers and authorized agents or representatives present at the time of filing this bid, being duly sworn on their oaths say, that neither they nor any of them have in any way entered into any arrangement or agreement with any other bidder or with any public officer of the City of Battle Creek, Michigan, whereby such affidavit or affiants or either of them has paid or is to pay to such other bidder or public officer any sum of money, or has given or is to give to such other bidder or public officer anything of value whatever, or such affidavit or affiants or either of them has not directly or indirectly, entered into any arrangement or agreement with any other bidder or bidders, which tends to or does lessen or destroy free competition in the letting of the contract sought for by the attached bids, that no inducement of any form or character other than that which appears on the face of the bid will be suggested, offered, paid or delivered to any person to influence the acceptance of the bid or awarding of the contract, nor has this bidder any agreement with any person to pay, deliver to, or share with any other person any of the proceeds of the contract sought by this bid.
13. **MICHIGAN CONSTITUTIONAL REQUIREMENT:**
 - a). 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, City and 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.
 - b). 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.
 - c). In the event of conflict between any term of this Contract and this section, the language of this section shall control.

TERMS AND CONDITIONS FOR 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 for proper results upon existing work or the work of another contractor, the Contractor, before commencing work, shall notify the Director 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. The actual work performed under this contract may be increased 50% or decreased 25% from the approximate quantities set forth in the Schedule included herein. Work will be performed only based on written authorization from the City. The City reserves the right to include other similar projects in this contract over and above those mentioned in said tabulations within these limitations. 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:** It is understood that the 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 utilize in completing the work such materials and equipment as may be on the site and necessary therefore.
13. **SUBCONTRACTORS:** Bidders shall submit with the Bid any and all subcontractors to be associated with their bid, including the type of work to be performed. Any and all subcontractors shall be bound by all of the terms, conditions and requirements of the bid/contract; however, the prime contractor shall be responsible for the performance of the total work requirements. Contractor must provide copies of licenses for 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 City's 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 a permit. 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 Code Compliance Manager, 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 City of Battle Creek's Code Compliance Division 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. This is mandatory in order for the City to coordinate an inspection of this process at the site prior to commencement of the demolition.
9. **HAZARDOUS 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 hazardous material removal, 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. ADDITIONAL INFORMATION: An operation is a demolition if the overall project involves the wrecking or taking out of any load supporting structural members of a subject facility. **Notification is required for demolition even if there is no asbestos containing materials in the facility.** Any related handling operations (such as clean up of demolition debris) or intentional burning of the facility is also subject to this definition.

Notice is required for demolition of all subject facilities, regardless of the amount of asbestos, including those facilities where the asbestos has been removed or has never contained asbestos.

12. TIME OF COMPLETION: The Contractor shall promptly begin work under this contract upon receipt of the Purchase Order, and all portions of the project made the subject of these contracts shall be begun and so prosecuted that they shall be completed and ready for final inspection within the time specified on the Offer to Contract page. 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.

13. 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 which may be the result of causes beyond the control of the Contractor and which 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 60 days may be scheduled.

14. NOTICE OF DELAYS: Whenever the Contractor foresees any delay in the prosecution of the work, and in any event, immediately upon the occurrence of any delay, he 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, in approving the amount due to the Contractor, will assume that any and all 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 advanced 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.

15. 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.

16. 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.

17. 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 City's Building Official of Community Services, 10 days prior to beginning demolition.

18. 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 is sufficient to comply with this provision.

19. 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.

Coverage Afforded

Limits of Liability

Workers' Compensation:		\$ 100,000 or statutory limit
Commercial General Liability:	Bodily Injury	\$1,000,000 each occurrence
including XCU	Property Damage	\$1,000,000 each occurrence
	or Combined Single Limit	\$1,000,000
Automobile Liability:	Bodily Injury	\$ 300,000 each person
	Liability	\$ 500,000 each occurrence
	Property Damage	\$ 500,000
	or Combined Single Limit	\$ 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.

20. VENDOR EVALUATION: Experience with the City shall be taken into consideration when evaluating responsibility of the vendor.

21. PAYMENT: Payment shall be made within 30 days of submittal of a correct invoice for complete demolition of each property.

22. 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).

23. 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.

24. 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.

DEMOLITION BID CONTRACT LANGUAGE REQUIRED BY MSHDA

- (1) This is a Federally Funded project.
- (2) The Contractor and Subcontractors on this project must comply with HUD contract provisions 24CFR part 85.36(i), the Davis-Bacon Act, Nondiscrimination, Equal Employment Opportunity, Affirmative Action, Section 3 requirements, Anti-Kickback Act, Federal Occupational Safety and Health Act and Department of Labor Standards and Regulations as set forth in the Contract Bid Documents. This municipality is an equal opportunity employer, businesses owned by women or minorities are strongly encouraged to bid.

EQUAL OPPORTUNITY CLAUSE (EXECUTIVE ORDER 11246)

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.
- (2) The contractor will, in all solicitations or advancements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex or national origin.
- (3) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under Section 202 of Executive Order No. 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (4) The contractor will comply with all provisions of Executive Order No. 11246 of Sept. 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (5) The contractor will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (6) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be cancelled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order No. 11246 of Sept. 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order No. 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (7) The contractor will include the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order No. 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as may be directed by the Secretary of Labor as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that in the event the contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction, the contractor may request the United States to enter into such litigation to protect the interests of the United States." [Sec. 202 amended by EO 11375 of Oct. 13, 1967, 32 FR 14303, 3 CFR, 1966-1970 Comp., p. 684, EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

SECTION 3 CONTRACTOR POLICY & REQUIREMENTS

The award of this contract is subject to full compliance with Housing and Urban Development Act of 1968 (12 U.S.C. 1701u) (section 3).

The purpose of Section 3 is to ensure that employment and other economic opportunities generated by certain HUD financial assistance shall, to the greatest extent feasible, and consistent with existing Federal, State and local laws and regulation, be directed to low- and very low-income persons, particularly those who are recipients of government assistance for housing, and to business concerns which provide economic opportunities to low- and very low-income persons.

Section 3 Clause

Compliance

Compliance with the provisions of Section 3, the regulations set forth in 24 CFR Part 135, and all applicable rules and orders issued hereunder prior to the execution of this Contract, shall be a condition of the Federal financial assistance provided under this Contract and binding upon the City, the Contractor and any of the Contractor's subcontractors. Failure to fulfill these requirements shall subject the City, the Contractor and any of the Contractor's subcontractors, their successors and assigns, to those sanctions specified by the Contract through which Federal assistance is provided. The Contractor certifies and agrees that no contractual or other disability exists which would prevent compliance with these requirements.

The Contractor further agrees to comply with these "Section 3" requirements and to include the following language in all sub-contracts executed under this Contract:

- A. The work to be performed under this contract is subject to the requirements of Section 3 of the Housing and Urban Development of 1968, as amended (12 U.S.C. 1701u). The purpose of Section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by Section 3, shall, to the greatest extent feasible, be directed to low- and very low-income persons, particularly persons who are recipients of HUD assistance for housing.
- B. The parties to this contract agree to comply with HUD's regulations in 24 CFR Part 135, which implement Section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the Part 135 regulation.
- C. The contractor agrees to send to each labor organization or representative or workers with which the contractor has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers' representative of the contractor's commitments under this Section 3 clause, and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the Section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.
- D. The contractor agrees to include this Section 3 clause in every subcontract subject to compliance with regulations in 24 CFR Part 135, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this Section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR Part 135. The contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR Part 135.
- E. The contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the contractor is selected, but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR Part 135 require employment opportunities to be directed, were not filled to circumvent the contractor's obligations under 24 CFR Part 135.

- F. Noncompliance with HUD's regulations in 24 CFR Part 135 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.
- G. With respect to work performed in connection with Section 3 covered Indian housing assistance, Section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450e) also applies to the work to be performed under this contract. Section 7(b) requires that, to the greatest extent feasible, (1) preference and opportunities for training and employment shall be given to Indians, and (2) preference in the award of contracts and subcontracts shall be given to Indian organizations and Indian-owned Economic Enterprises. Parties to this contract that are subject to the provisions of Section 3 and Section 7(b) agree to comply with Section 3, to the maximum extent feasible, but not in derogation of compliance with Section 7(b).

Preference to Section 3 Business Concerns

The City reserves the right to give preference to Section 3 Business Concerns in the award to Federally funded contracts. The City will review bids from Section 3 Business Concerns for their ability to complete the required work in a timely and efficient manner. It is determined that the Section 3 Business Concern can fulfill the obligations of the Contract, the City will allow a preference to select the Bid of the Section 3 Business Concern if said bid is within 10% of the next lowest responsive, responsible bid.

Contractor responsibility to recruit and hire Section 3 residents

Contractors receiving a Section 3 covered Contract award who will need to hire new employees to fulfill their contractual obligations to the City must document their efforts to recruit Section 3 eligible residents and/or businesses. HUD has established a numerical goal for meeting this "greatest extent feasible" requirement.

Contractor receiving a Section 3 Contract award can demonstrate compliance with the "greatest extent feasible" requirement by committing to employ Section 3 residents as 30% of the aggregate number of new hires for a one year period, or for the term of the Contract.

If a Contractor does not meet the numerical goal set forth above, the Contractor must demonstrate why it was not feasible to meet said numerical goal. Such justification may include impediments encountered despite action taken.

Efforts to recruit and employ Section 3 residents may include, but are not limited to the following activities:

- Notifying the local Housing Commission (Battle Creek Housing Commission) of employment opportunities resulting from the Contract.
- Contacting resident organizations, local community development and employment organizations.
- Distributing flyers.
- Posting signs.
- Placing ads in local newspapers.

In selecting Section 3 residents for hire, the Contractor should apply, where feasible, the following priority considerations and preferences:

1. Section 3 residents residing in the service area or neighborhood in which the Section 3 covered project is located.
2. Participants in HUD Youthbuild programs.
3. Where the Section 3 project is assisted under the Stewart B. McKinney Homeless Assistance Act (42 U.S.C. 11301 *et seq.*), homeless persons residing in the service area or neighborhood in which the Section 3 covered project is located shall be given the highest priority.
4. Other Section 3 residents.

All bidding Contractors must respond to the following question:

Answer this question on the PRICE PAGE:

Does your company, or any subcontractors you employ under this Contract, plan to hire new employees to fulfill your obligations under the Contract if your company is awarded the Contract?

Yes _____

No _____ *

** If the answer to the above question is "No", Section 3 does not apply to the Contract.*

Contractors and subcontractors must provide documentation to the City of all efforts and activities they have utilized to recruit and employ Section 3 residents. This documentation must be submitted prior to final payment.

Contractors and subcontractors must complete a Section 3 Project Report for the Contractor and any subcontractors. This report must be submitted prior to final payment.

Contractors and subcontractors shall assist the City in the completion of the HUD Form 6002 Section 3 Summary Report to document all required Section 3 compliance efforts and outcomes.

SECTION 3 PROJECT REPORT – CONTRACTOR

*(Please complete this report by including any new hires to your company that may have worked on this project.
This document must be submitted to Code Compliance prior to your final payment being released to you.)*

Project Information:

Contractor: _____

Contract Amount: \$ _____

Section 3 Information:

YES NO Did you have any employment or training position vacancies since the time you were selected for the above referenced project?

If "YES", please list job title and rate of pay for vacant positions:

Job Title: _____ Pay Rate: _____

Job Title: _____ Pay Rate: _____

Job Title: _____ Pay Rate: _____

YES NO Have you hired any new employees since you were selected for the above referenced project?

If "YES", please complete the following information regarding those positions filled.

Job Title: _____ Pay Rate: _____

Employee Name: _____

Address: _____

Number of persons in household of employee: _____

Job Title: _____ Pay Rate: _____

Employee Name: _____

Address: _____

Number of persons in household of employee: _____

I hereby certify that the above information is true and complete to the best of my knowledge. I also certify that I have submitted Section 3 Reports for all subcontractors that worked on this project.

Contractor Signature

Date

SECTION 3 PROJECT REPORT – SUBCONTRACTOR

(Please complete this report by including any new hires to your subcontractor that may have worked on this project. This document must be turned in to Community Development prior to your final payment being released to you.)

Project Information:

SubContractor: _____.

Contractor: _____

Contract Amount: \$ _____

Section 3 Information:

YES NO Did you have any employment or training position vacancies since the time you were selected for the above referenced project?

If "YES", please list job title and rate of pay for vacant positions:

Job Title: _____ Pay Rate: _____

Job Title: _____ Pay Rate: _____

Job Title: _____ Pay Rate: _____

YES NO Have you hired any new employees since you were selected for the above referenced project?

If "YES", please complete the following information regarding those positions filled.

Job Title: _____ Pay Rate: _____

Employee Name: _____

Address: _____

Number of persons in household of employee: _____

Job Title: _____ Pay Rate: _____

Employee Name: _____

Address: _____

Number of persons in household of employee: _____

I hereby certify that the above information is true and complete to the best of my knowledge.

Contractor Signature

Date

GENERAL DEMOLITION SPECIFICATIONS

APPLICABLE TO ALL PROPERTIES

1. The City has contracted with Environmental Testing Consultant (ETC) 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 **must** provide the City's Building Official with landfill dump tickets for debris from each house before payment will be made.
3. Contractor shall remove all foundations, exterior walls, and basement walls including accessory structures. 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 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 PAGE

Question carried over from page 12: Does your company, or any subcontractors you employ under this Contract, plan to hire new employees to fulfill your obligations under the Contract if your company is awarded the Contract?

Yes _____ No _____ *

** If the answer to the above question is "No", Section 3 does not apply to the Contract.*

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

The City intends to award **by property** to the lowest, responsive, responsible bidder for each property. The City reserves the right to award to a responsive, responsible bidder other than the lowest bidder, if the City determines it is in the best interest of the City. The reserves the right to cluster bids into groups if it is deemed to be in the City's best interest. Such cases include, but are not limited to award based on reasonable expectation of the contractor's ability to manage multiple contracts and the related work load. Requests for bid withdrawal may result in debarment.

It is not a requirement to bid on all properties.

Bidder certifies that all costs listed below are all-inclusive, not-to-exceed pricing for each property. There will be no change orders allowed for additional items such as, but not limited to, permits, mobilization, overtime, bidder omissions, or insurance.

PREVAILING WAGES: Required for this project. See attached wage rates in this document. Contractor shall abide by all the requirements set forth in Section 208.09, PREVAILING WAGES ON CITY PROJECTS, of the City's Administrative Code.

ITEM	ADDRESS	PRICE (NO CENTS)
1	125 Caine St., Battle Creek, MI.	\$_____ .00
2	18 Olivet St., Battle Creek, MI.	\$_____ .00
3	74 Harris Ave., Battle Creek, MI.	\$_____ .00
4	71 Baldwin Ave., Battle Creek, MI.	\$_____ .00
5	228 South Ave., Battle Creek, MI.	\$_____ .00
6	16 Fourth St., Battle Creek, MI.	\$_____ .00
7	161 W. Rittenhouse Ave., Battle Creek, MI.	\$_____ .00

9 99 Clay St. Battle Creek, MI. \$_____.**00**

_____ %

Acknowledgement of addenda: _____; _____; _____; _____; _____; _____

OFFER TO CONTRACT

BID CONDITIONS

The undersigned has carefully checked the attached Bidding Schedule against the Contract Drawings and Specifications and other Contract Documents before preparing this Bid and accepts the said quantities to be substantially correct, both as to classification and amount, and as correctly listing the complete work to be done in accordance with the Contract Drawings, Specifications and other Contract Documents.

BID SECURITY

Accompanying this bid is a _____ in the amount of five percent (5%) or _____ Dollars (\$_____). The total amount of bid security is based on the total base bid of this Bid.

COMPLETION

If awarded a contract under this Bid, the undersigned agrees to start work upon Notice to Proceed. The undersigned further agrees to complete the project by May 15, 2018.

LIQUIDATED DAMAGES

Liquidated damages of \$150.00 per calendar day will be assessed for failure to meet any deadline, as noted in the Project Specifications.

BIDDER'S SIGNATURE: Complete the applicable paragraph below.

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.

(a) Corporation

The bidder is a corporation organized and existing under the State of _____, which operates under the legal name of _____, and the full names of its officers are as follows:

President: _____

Secretary: _____

Treasurer: _____

Manager: _____

(b) Co-Partnership

The bidder is a co-partnership consisting of individual partners whose full names are as follows:

(c) Individual

The bidder is an individual whose full name is _____ and, if operating under a trade name, said trade name is _____.

NAME: _____

ADDRESS: _____

CITY & STATE: _____

THIS BID OFFERED BY:

SIGNATURE: _____

NAME: _____

TITLE: _____

PHONE: _____

FAX: _____

EMAIL: _____

(SEAL)

Subscribed and sworn to before me this ____ day of _____, 2018.

Notary Public

County of _____

Commission Expires: _____

CONTRACTOR'S CONTRACT FORMS

THESE FORMS WILL BE REQUIRED FOR AWARD

CONTRACT FORM

PERFORMANCE BOND

LABOR AND MATERIAL BOND

CONTRACT FORM
CONTRACT NO. 2018-057B
DEMOLITION OF VARIOUS PROPERTIES

THIS AGREEMENT, made and entered into this _____ day of _____, 2018, by and between _____ hereinafter called the "Contractor" and the City of Battle Creek, hereinafter called the "Owner."

WITNESSETH: In consideration for the mutual covenants hereinafter stated, the parties agree for themselves, their personal representatives, successors, assigns as follows:

I. The Contractor promises and agrees:

A. To furnish all materials, construction water, equipment, tools, dewatering devices, skill and labor of every description necessary or reasonable incidental to carrying forth and completing in good, firm, substantial and workmanlike manner, the work specified, in strict conformity with the true intent of the NOTICE TO BIDDERS, SPECIAL INSTRUCTIONS, GENERAL INSTRUCTIONS, PROPOSAL, SPECIAL CONDITIONS, GENERAL CONDITIONS, AGREEMENT, BONDS, GENERAL SPECIFICATIONS, and Project Specifications, and other contract documents and addenda thereto, which are hereby made a part hereof as fully and to the same effect as though they had been set forth at length herein.

B. To commence work under this contract on or before a date to be specified by the owner in a written Notice to Proceed and complete the project by the date specified in Proposal.

C. Requirements for a specific trade or contract will generally be described in that portion of the specifications or drawings related to that trade or contract. Such requirements may, however, be described in other sections of the Contract Documents. The Contractor will be held responsible for having carefully examined all drawings and read all requirements of the specifications and all Contract Documents to avoid omissions or duplications and to insure a complete job.

D. The Contractor must be fully informed about conditions relating to the construction of the project and the employment of labor thereon. Failure to do so will not relieve a successful bidder of his obligation to furnish all material and labor necessary to carry out the provisions of his contract.

E. Any claim by the Contractor of an inability to meet any requirement set forth in the Contract Documents, or that any requirement of these documents is impractical or unreasonable, will not be recognized, unless the claim was made at the time his proposal was submitted, and specific provision is made for such claim in the Agreement between Owner and Contractor (Proposal and Agreement).

F. 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).

II. The Owner promises and agrees:

- A. To pay the Contractor for said work when completed in accordance with the provisions of these contract documents, and for the contract sum of:

_____ dollars (\$ _____). Payment for work is subject to additions provided therein and for the authorized work complete in place and accepted by the Owner or its authorized representatives.

III. It is further understood and agreed between the parties hereto as follows:

A. The said work is to be done in accordance with the laws of the State of Michigan to the entire satisfaction and approval of the Owner or its duly authorized representatives.

B. The decision of said Owner's authorized representative upon any questions connected with the execution of this Agreement or any failure or delay in the prosecution of the work by said Contractor shall be final and conclusive.

C. If, at any time after the execution of the Agreement and the Bond for its faithful performance, the Owner shall deem the surety or sureties then upon said bond to be unsatisfactory or, if, for any reason said bond shall cease to be adequate security for the performance of the work, the Contractor shall, at his expense, within fifteen (15) calendar days after receipt of written notice from the Owner to do so, furnish an additional bond or bonds in such form and amount and with such surety or sureties as shall be satisfactory to the Owner. In such event, no further payment to the Contractor shall be deemed to be due under this Agreement until such new or additional security for the faithful performance of the work shall be furnished in a manner and form satisfactory to the Owner.

D. 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.

E. 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.

IN WITNESS WHEREOF, the said parties have hereunto set their hands and affixed their seals, the day and year first above written.

STATE OF MICHIGAN)
) ss
COUNTY OF CALHOUN)

SIGNED, SEALED, AND
EXECUTED BY CONTRACTOR:

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):

By: _____

Title: _____

In the Presence of:

Notary Public

CONTRACT FORM APPROVED BY:

City Attorney

SIGNED, SEALED, & EXECUTED
BY CITY OF BATTLE CREEK

City Manager

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that _____,
_____, as Principal, and _____, as Surety,
are held and firmly bound unto the City of Battle Creek in the full and just sum of _____
_____ Dollars (\$ _____)
_____) lawful money of the United States of America for the payment of which sum of money well and truly to be
made, we bind ourselves, heirs, executors, administrators, successors and assigns, jointly and severally, firmly by
these presents.

WHEREAS, the Principal has entered into a certain written contract dated the _____ day of _____,
_____, 20_____ for the _____ complete, as
described in the foregoing Proposal and Agreement.

NOW THE CONDITIONS OF THIS OBLIGATION ARE SUCH, that if the said Principal shall in all respects well and
truly keep and perform the said contract, and shall pay all sums of money due or to become due, for any labor,
materials, apparatus, fixtures or equipment furnished for the purpose of constructing the work provided in said contract,
and shall defend, indemnify and save harmless said City of Battle Creek against any and all liens, encumbrances,
damages, claims, demands, expenses, costs and charges of every kind except as otherwise provided in said
specifications and other Contract Documents arising out of or in relation to the performance of said work and the
provisions of said contract, and shall remove and replace any defects in workmanship or materials which may be
apparent or may develop within a period of one (1) year from the date of final acceptance, then this obligation shall be
null and void; otherwise it shall remain in full force and effect.

And the said Surety, for value received, hereby stipulates and agreed that no change, extension of time, alteration or
addition to the terms of the contract or to work to be performed thereunder or the specifications accompanying the
same shall in any wise affect its obligation on this bond, and it does hereby waive notice of any such change, extension
of time, alteration or addition to the terms of the Agreement or to the work or to the specifications.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this _____ day of _____
_____, 2018.

PRINCIPAL ATTEST:

Principal Business Name

Principal Secretary Signature & Seal

Address

Principal Secretary Printed Name

City, State, Zip

Witness of Principal

SURETY ATTEST:

Surety Business Name

BY: _____
Attorney-in-Fact Signature & Seal

Address

Attorney-in-Fact Printed Name

City, State, Zip

LABOR AND MATERIALS BOND

KNOW ALL MEN BY THESE PRESENT, that we, the undersigned, _____, hereinafter called the "Principal," and _____, a corporation organized and existing under the laws of the State of _____, having its principal office at _____, hereinafter called the "Surety," are held and firmly bound unto the City of Battle Creek, hereinafter called the "Owner," for use of any and every person, co-partnership, association or corporation interested in the full and just sum of _____ Dollars (\$_____), lawful money of the United States of America, to be paid to the said obligees or its or their assigns, to which payment well and truly to be made we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents. Sealed with our respective seals and dated this ____ day of _____, 2018.

WHEREAS, the above bounded _____, Principal, has entered into a contract with the City of Battle Creek.

Dated the _____ day of _____, 2018, for the _____.

NOW, THEREFORE, THE CONDITION OF THIS CONDITION IS SUCH, that if the above bounded Principal shall and will promptly pay or cause to be paid all sums of money which may be due any person, co-partnership, association or corporation for all material furnished and labor supplied or performed in the prosecution of the work, whether or not the said material or labor enter into and become component parts of the work or improvement contemplated, then this obligation to be void; otherwise to remain in full force and effect.

The Principal and Surety further jointly and severally agree with the obligee herein that every person, co-partnership, association or corporation who, whether as subcontractor or otherwise, has furnished material or supplied or performed labor in the prosecution of the work as above provided and who has not been paid therefore may sue in assumption on this bond in the name of the Owner for his, their, or its use, prosecute the same to final judgment for such sum or sums as may be justly due him, them, or it, and have execution thereon, provided, however, that the Owner shall not be liable for payment of any costs or expenses of any such suit.

IT IS FURTHER AGREED, that any alterations which may be made in the terms of the contract or in the work to be done or materials to be furnished or labor to be supplied or performed under it or the giving by the Owner or any extension of time for the performance of the contract or any other forbearance on the part of either the Owner or the Principal to the other, shall not in any way release the Principal and Surety or Sureties or either or any of them their heirs, executors, administrators, successors or assigns, from their liability hereunder, notice to the Surety or Sureties of any such alteration, extension or forbearance being hereby waived.

IN WITNESS WHEREOF, the said Principal and Surety have duly executed this bond under the seal and day and year first above written.

ATTEST:

Principal

BY: _____

(Seal)

Surety

ATTEST

BY: _____
Attorney-in-Fact

(SEAL)

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 <i>APPROACHED</i> , 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	_____

ATTACHMENT B – PREVAILING WAGES

General Decision Number: MI180012 01/05/2018
MI12

Superseded General Decision Number:
MI20170012

State: Michigan

Construction Type: Residential

County: Calhoun County in Michigan.

RESIDENTIAL CONSTRUCTION PROJECTS
(consisting of single family
homes and apartments up to and including 4
stories).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.35 for calendar year 2018 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.35 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2018. The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts,

including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number Publication Date
0 01/05/2018

ELEC0445-004 05/29/2017

	Rates	Fringes
ELECTRICIAN.....	\$ 18.00	7.44

ENGI0325-005 06/01/2017

	Rates	Fringes
OPERATOR: Power Equipment		
GROUP 1.....	\$ 37.58	23.30
GROUP 2.....	\$ 34.28	23.30
GROUP 3.....	\$ 31.63	23.30

FOOTNOTES:

Crane operator with main boom and jib 300' or longer: \$1.50 per hour above the group 1 rate.
Crane operator with main boom and jib 400' or longer: \$3.00 per hour above the group 1 rate.

PAID HOLIDAYS: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Crane operator with main boom and jib 400', 300', or

220' or longer.

GROUP 2: Crane operator with main boom and
jib 140' or
longer, tower crane, gantry crane, whirley
derrick

GROUP 3: Bulldozer; Crane; Grader/Blade;
Loader; Scraper;
stiff leg derrick

* IRON0340-010 06/19/2017

Rates Fringes

IRONWORKER, STRUCTURAL.....\$ 24.43
24.67

LABO0355-002 06/01/2017

Rates Fringes

LABORER: Mason Tender -
Cement/Concrete.....\$ 20.97 12.85

PAIN0312-011 06/12/2014

Rates Fringes

PAINTER: Brush and Roller.....\$ 21.75
11.94

PLUM0333-014 06/01/2013

Rates Fringes

PIPEFITTER (HVAC Pipe
Installation Only).....\$ 23.23 16.91

ROOF0070-016 06/01/2017

Rates Fringes

ROOFER.....\$ 27.80 13.79

SHEE0007-023 06/01/2014

Rates Fringes

SHEET METAL WORKER, Includes
HVAC Duct and Unit
Installation.....\$ 23.32 7.82

SUMI2010-010 09/16/2010

Rates Fringes

CARPENTER.....\$ 18.81 6.38

CEMENT MASON/CONCRETE FINISHER...\$
19.27 5.85

LABORER: Common or General.....\$ 16.87
5.46

LABORER: Landscape.....\$ 9.64
2.81

LABORER: Pipelayer.....\$ 17.95
5.46

OPERATOR: Backhoe/Excavator.....\$ 19.94
5.46

OPERATOR: Bobcat/Skid
Steer/Skid Loader.....\$ 17.66 7.65

PLUMBER, Excludes HVAC Pipe
Installation.....\$ 26.17 7.55

TRUCK DRIVER: Dump Truck.....\$ 17.00
5.71

WELDERS - Receive rate prescribed for craft
performing
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in

the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage
Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

ATTACHMENT C - ADDITIONAL SPECIFICATIONS BY PROPERTY



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

228 South Ave.
Battle Creek, MI 49014

Prepared for:

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

Prepared By:

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

1/17/2018

ETC Job #: 202445

Chart A – Materials Sampled and Asbestos Content

Material #	Material Description	Asbestos	Quantity	Location (Refer to map in Appendix B)
1	Cinderblock, grey	No	1638 SF	Room 20-22
2	Basement floor cement, grey	No	2277 SF	Room 20-22
3	Mortar, grey	No	1638 SF	Room 20-22
4	Stack cement, grey	No	10 SF	Room 20 (chimney)
5	Shingle, black/grey	No	4600 SF	Exterior (house)
6	Window glaze, white	No	36 units	Exterior (windows)
7	12x12 Tile, wood grain/brown	No	270 SF	Room 13
8	12x12 Floor tile, grey	No	998 SF	Room 1-10
9	Mastic, black	No	998 SF	Room 1-10
10	Mastic, black	No	270 SF	Room 13
11	House wrap, white/black	No	3264 SF	Exterior (house)
12	Linoleum, white	No	81 SF	Room 9
13	Floor underlayment, tan/black	No	81 SF	Room 9
14	Linoleum, grey	No	81 SF	Room 9
15	12x12 Floor tile, grey	No	998 SF	Room 1-10
16	Mastic, black/material under 15	No	998 SF	Room 1-10
17	Linoleum, red	No	20 SF	Room 4, 8 (closets)
18	Exterior fiberboard, blue/tan	No	3264 SF	Exterior (house)
19	Underlayment, black	No	1363 SF	Rooms 12-18
20	Plaster, grey with skim	No	8513 SF	Throughout
21	Texture, white	No	8513 SF	Throughout

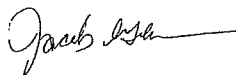
Chart B – Other Hazardous Materials Located
(Above the household quantity Limitations)

Material #	Material Description	Quantity	Location
1	Smoke Detector	4	Room 2, 5, 13, 19
2	Misc. Items (solvents, cleaners)	24	Room 2, 3, 12, 13, 22
3	Paint Cans	119	Room 2, 12, 22
4	Electronics/TV Screens	13	Room 2, 11, 13
5	Bikes	1	Room 13
6	Thermostats	1	Room 13
7	Tires	5	Exterior (house)
8	Hot Water Tank	1	Room 20

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:



Jake Gleason
State of Michigan Certified Asbestos Building Inspector
State of Michigan Card #: A-29991

APPENDICES



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

71 W. Baldwin Ave.
Battle Creek, MI 49037

Prepared for:

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

Prepared By:

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

1/17/2018

ETC Job #: 202446

- 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	Texture, purple/green	YES	3618 SF	Room 1- 4, 6
2	Patch plaster, grey	No	5 SF	Room 1, 6
3	Drywall, white	No	4306 SF	Throughout
4	Mud, white	No	200 SF	Throughout
5	Tape, white	No	200 SF	Throughout
6	Fiberboard, tan	No	1137 SF	Room 2, 6
7	Caulk, white	No	20 SF	Room 5
8	Mastic, yellow	No	40 SF	Room 5
9	Grout, white	No	90 SF	Room 5
10	12x12 Tile, cream	No	225 SF	Room 6
11	Mastic, black	No	225 SF	Room 6
12	Linoleum, cream	No	225 SF	Room 6
13	12x12 Floor tile, white	No	180 SF	Room 9
14	Mastic, yellow	No	180 SF	Room 9
15	Concrete floor, grey	No	1188 SF	Room 8-11
16	Cinderblock, grey	No	918 SF	Room 8-11, Exterior (house)
17	Mortar, grey	No	918 SF	Room 8-11, Exterior (house)

Chart A – Materials Sampled and Asbestos Content

Material #	Material Description	Asbestos	Quantity	Location (Refer to map in Appendix B)
18	Glaze, white	No	10 units	Exterior (windows)
19	Exterior fiberboard, black	No	2016 SF	Exterior (house)
20	Shingle, black/red	No	1300 SF	Exterior (house)
21	Shingle, red	No	1300 SF	Exterior (house)
22	Vermiculite, tan	YES	1296 SF	Attic

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

Material #	Material Description	Quantity	Location
1	Paint Cans	11	Room 1, 8, 9
2	Misc. Items (solvents, cleaners)	3	Room 4
3	Refrigerator	1	Room 6
4	TV Screens/Electronics	8	Room 1, 2, 9
5	Tires	1	Room 8
6	AC Units	1	Room 1
7	Thermostats	1	Room 1
8	Lawn Mower	1	Room 8
9	Hot Water Heater	2	Room 8

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

ENVIRONMENTAL TESTING LABORATORIES, INC.

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



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

Project Location : Vacant Residence
71 W. Baldwin Ave., Battle Creek, MI

Attention : Rick Bolek

Client Project : 6030-00-085-0

ETC Job : 202446


Report Date : 1/23/2018

Login #	Sample ID	Work Requested	Completed
660753	01A	Asbestos Analysis	01/23/2018
660754	01B	Asbestos Analysis	01/23/2018
660755	01C	Asbestos Analysis	01/23/2018
660756	01D	Asbestos Analysis	01/23/2018
660757	01E	Asbestos Analysis	01/23/2018
660758	02A	Asbestos Analysis	01/23/2018
660759	02B	Asbestos Analysis	01/23/2018
660760	02C	Asbestos Analysis	01/23/2018
660761	03A	Asbestos Analysis	01/23/2018
660762	03B	Asbestos Analysis	01/23/2018
660763	03C	Asbestos Analysis	01/23/2018
660764	04A	Asbestos Analysis	01/23/2018
660765	04B	Asbestos Analysis	01/23/2018
660766	04C	Asbestos Analysis	01/23/2018
660767	05A	Asbestos Analysis	01/23/2018
660768	05B	Asbestos Analysis	01/23/2018
660769	05C	Asbestos Analysis	01/23/2018
660770	06A	Asbestos Analysis	01/23/2018
660771	06B	Asbestos Analysis	01/23/2018
660772	06C	Asbestos Analysis	01/23/2018

Login #	Sample ID	Work Requested	Completed
660773	07A	Asbestos Analysis	01/23/2018
660774	07B	Asbestos Analysis	01/23/2018
660775	07C	Asbestos Analysis	01/23/2018
660776	08A	Asbestos Analysis	01/23/2018
660777	08B	Asbestos Analysis	01/23/2018
660778	08C	Asbestos Analysis	01/23/2018
660779	09A	Asbestos Analysis	01/23/2018
660780	09B	Asbestos Analysis	01/23/2018
660781	09C	Asbestos Analysis	01/23/2018
660782	10A	Asbestos Analysis	01/23/2018
660783	10B	Asbestos Analysis	01/23/2018
660784	10C	Asbestos Analysis	01/23/2018
660785	11A	Asbestos Analysis	01/23/2018
660786	11B	Asbestos Analysis	01/23/2018
660787	11C	Asbestos Analysis	01/23/2018
660788	12A	Asbestos Analysis	01/23/2018
660789	12B	Asbestos Analysis	01/23/2018
660790	12C	Asbestos Analysis	01/23/2018
660791	13A	Asbestos Analysis	01/23/2018
660792	13B	Asbestos Analysis	01/23/2018
660793	13C	Asbestos Analysis	01/23/2018
660794	14A	Asbestos Analysis	01/23/2018
660795	14B	Asbestos Analysis	01/23/2018
660796	14C	Asbestos Analysis	01/23/2018
660797	15A	Asbestos Analysis	01/23/2018
660798	15B	Asbestos Analysis	01/23/2018
660799	15C	Asbestos Analysis	01/23/2018

Login #	Sample ID	Work Requested	Completed
660800	16A	Asbestos Analysis	01/23/2018
660801	16B	Asbestos Analysis	01/23/2018
660802	16C	Asbestos Analysis	01/23/2018
660803	17A	Asbestos Analysis	01/23/2018
660804	17B	Asbestos Analysis	01/23/2018
660805	17C	Asbestos Analysis	01/23/2018
660806	18A	Asbestos Analysis	01/23/2018
660807	18B	Asbestos Analysis	01/23/2018
660808	18C	Asbestos Analysis	01/23/2018
660809	19A	Asbestos Analysis	01/23/2018
660810	19B	Asbestos Analysis	01/23/2018
660811	19C	Asbestos Analysis	01/23/2018
660812	20A	Asbestos Analysis	01/23/2018
660813	20B	Asbestos Analysis	01/23/2018
660814	20C	Asbestos Analysis	01/23/2018
660815	21A	Asbestos Analysis	01/23/2018
660816	21B	Asbestos Analysis	01/23/2018
660817	21C	Asbestos Analysis	01/23/2018
660818	22A	Asbestos Analysis	01/23/2018
660819	22B	Asbestos Analysis	01/23/2018
660820	22C	Asbestos Analysis	01/23/2018

Reviewed by:


Quality Assurance Coordinator

Login #	Sample ID	Work Requested	Completed
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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

71 W. Baldwin Ave., Battle Creek, MI

ETC Job : 202446

Client Project : 6030-00-085-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/23/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660753 01A Rm 1 S Wall Analyst: Alice Turner	Texture	Purple Non-Fibrous Homogenous	1% Cellulose	96% Other	3% Chrysotile
660754 01B Rm 1 E Wall Analyst: Alice Turner		Not Analyzed			
660755 01C Rm 2 N Wall Analyst: Alice Turner		Not Analyzed			
660756 01D Rm 3 S Wall Analyst: Alice Turner		Not Analyzed			
660757 01E Rm 3 W Wall Analyst: Alice Turner		Not Analyzed			
660758 02A Rm 1 N Doorway Layer-1 Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660758 02A Rm 1 N Doorway Layer-2 Analyst: Alice Turner	Skim	White Non-Fibrous Homogenous		100% Other	None Detected

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

71 W. Baldwin Ave., Battle Creek, MI

ETC Job : 202446

Client Project : 6030-00-085-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/23/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660759 02B Rm 1 W Wall Layer-1 Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660759 02B Rm 1 W Wall Layer-2 Analyst: Alice Turner	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
660760 02C Rm 6 E Wall Layer-1 Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660760 02C Rm 6 E Wall Layer-2 Analyst: Alice Turner	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
660761 03A Rm 3 S Wall Analyst: Alice Turner	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660762 03B Rm 4 S Wall Analyst: Alice Turner	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
660763 03C Rm 1 Center Ceiling Analyst: Alice Turner	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660764 04A Rm 3 S Wall Analyst: Alice Turner	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

71 W. Baldwin Ave., Battle Creek, MI

ETC Job : 202446

Client Project : 6030-00-085-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/23/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660765 04B Rm 4 S Wall Analyst: Alice Turner	Mud	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660766 04C Rm 1 Center Ceiling Analyst: Alice Turner	Mud	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660767 05A Rm 3 S Wall Analyst: Alice Turner	Tape	White Fibrous Homogenous	100% Cellulose		None Detected
660768 05B Rm 4 S Wall Analyst: Alice Turner	Tape	White Fibrous Homogenous	100% Cellulose		None Detected
660769 05C Rm 1 Center Ceiling Analyst: Alice Turner	Tape	White Fibrous Homogenous	100% Cellulose		None Detected
660770 06A Rm 6 W Wall Analyst: Alice Turner	Fiberboard	Tan Fibrous Homogenous	100% Cellulose		None Detected
660771 06B Rm 2 N Wall Analyst: Alice Turner	Fiberboard	Tan Fibrous Homogenous	100% Cellulose		None Detected



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

71 W. Baldwin Ave., Battle Creek, MI

ETC Job : 202446

Client Project : 6030-00-085-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/23/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660772 06C Rm 2 N Wall Analyst: Alice Turner	Fiberboard	Tan Fibrous Homogenous	100% Cellulose		None Detected
660773 07A Rm 5 S Wall Analyst: Alice Turner	Caulk	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660774 07B Rm 5 W Wall Analyst: Alice Turner	Caulk	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660775 07C Rm 5 E Wall Analyst: Alice Turner	Caulk	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660776 08A E Wall Rm 5 Analyst: Alice Turner	Mastic	Yellow Non-Fibrous Homogenous		100% Other	None Detected
660777 08B W Wall Rm 5 Analyst: Alice Turner	Mastic	Yellow Non-Fibrous Homogenous		100% Other	None Detected
660778 08C N Wall Rm 5 Analyst: Alice Turner	Mastic	Yellow Non-Fibrous Homogenous		100% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location : Vacant Residence
71 W. Baldwin Ave., Battle Creek, MI

ETC Job : 202446

Client Project : 6030-00-085-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/23/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660779 09A E Floor Rm 5 Analyst: Alice Turner	Grout	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
660780 09B W Floor Rm 5 Analyst: Alice Turner	Grout	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660781 09C S Floor Rm 5 Analyst: Alice Turner	Grout	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660782 10A E Floor Rm 6 Analyst: Alice Turner	12x12 Floor Tile	Cream Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660783 10B W Floor Rm 6 Analyst: Alice Turner	12x12 Floor Tile	Cream Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660784 10C N Floor Rm 6 Analyst: Alice Turner	12x12 Floor Tile	Cream Non-Fibrous Homogenous		100% Other	None Detected
660785 11A E Floor Rm 6 Analyst: Alice Turner	Mastic	Black Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected

Certificate of Analysis

Environmental Testing Laboratories, Inc.


38900 Huron River Drive,
Suite 200, Romulus, Michigan 48174,
(734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

71 W. Baldwin Ave., Battle Creek, MI

ETC Job : 202446

Client Project : 6030-00-085-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/23/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660786 11B W Floor Rm 6 Analyst: Alice Turner	Mastic	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
660787 11C N Floor Rm 6 Analyst: Alice Turner	Mastic	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
660788 12A E Floor Rm 6 Analyst: Alice Turner	Linoleum	Crean Fibrous Homogenous	55% Cellulose	45% Other	None Detected
660789 12B W Floor Rm 6 Analyst: Alice Turner	Linoleum	Crean Fibrous Homogenous	65% Cellulose	35% Other	None Detected
660790 12C N Floor Rm 6 Analyst: Alice Turner	Linoleum	Crean Fibrous Homogenous	70% Cellulose	30% Other	None Detected
660791 13A S Floor Rm 9 Analyst: Alice Turner	12x12 Floor Tile	White Non-Fibrous Homogenous		100% Other	None Detected
660792 13B E Floor Rm 9 Analyst: Alice Turner	12x12 Floor Tile	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

71 W. Baldwin Ave., Battle Creek, MI

ETC Job : 202446

Client Project : 6030-00-085-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/23/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660793 13C W Floor Rm 9 Analyst: Alice Turner	12x12 Floor Tile	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660794 14A S Floor Rm 9 Analyst: Alice Turner	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660795 14B E Floor Rm 9 Analyst: Alice Turner	Mastic	Yellow Non-Fibrous Homogenous		100% Other	None Detected
660796 14C W Floor Rm 9 Analyst: Alice Turner	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660797 15A Rm 8 Center Floor Analyst: Alice Turner	Concrete Floor	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660798 15B Rm 8 E Floor Analyst: Alice Turner	Concrete Floor	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660799 15C Rm 8 N Floor Analyst: Alice Turner	Concrete Floor	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

71 W. Baldwin Ave., Battle Creek, MI

ETC Job : 202446

Client Project : 6030-00-085-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/23/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660800 16A Ext House N Wall Analyst: Alice Turner	Cinder Block	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660801 16B Ext House E Wall Analyst: Alice Turner	Cinder Block	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660802 16C Ext House W Wall Analyst: Alice Turner	Cinder Block	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660803 17A Ext House N Wall Analyst: Alice Turner	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660804 17B Ext House E Wall Analyst: Alice Turner	Mortar	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660805 17C Ext House W Wall Analyst: Alice Turner	Mortar	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660806 18A Window Ext Side N Analyst: Alice Turner	Glaze	White Non-Fibrous Homogenous		100% Other	None Detected

Certificate of Analysis

Environmental Testing Laboratories, Inc.


38900 Huron River Drive,
Suite 200, Romulus, Michigan 48174,
(734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

71 W. Baldwin Ave., Battle Creek, MI

ETC Job : 202446

Client Project : 6030-00-085-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/23/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660807 18B Window Ext S Analyst: Alice Turner	Glaze	White Non-Fibrous Homogenous		100% Other	None Detected
660808 18C Window Ext W Analyst: Alice Turner	Glaze	White Non-Fibrous Homogenous		100% Other	None Detected
660809 19A N Wall Ext Analyst: Alice Turner	Fiber Board	Black Fibrous Homogenous	100% Cellulose		None Detected
660810 19B E Wall Ext Analyst: Alice Turner	Fiber Board	Black Fibrous Homogenous	90% Cellulose	10% Other	None Detected
660811 19C W Wall Ext Analyst: Alice Turner	Fiber Board	Black Fibrous Homogenous	100% Cellulose		None Detected
660812 20A N Ext Roof Analyst: Alice Turner	Shingle	Black/Red Non-Fibrous Homogenous	20% Fiberglass	80% Other	None Detected
660813 20B E Ext Roof Analyst: Alice Turner	Shingle	Black/Red Non-Fibrous Homogenous	20% Fiberglass	80% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

71 W. Baldwin Ave., Battle Creek, MI

ETC Job : 202446

Client Project : 6030-00-085-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/23/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660814 20C W Ext Roof Analyst: Alice Turner	Shingle	Black/Red Non-Fibrous Homogenous	15% Fiberglass	85% Other	None Detected
660815 21A N Ext Roof Analyst: Alice Turner	Shingle	Red Non-Fibrous Homogenous	2% Cellulose 10% Fiberglass	88% Other	None Detected
660816 21B E Ext Roof Analyst: Alice Turner	Shingle	Red Non-Fibrous Homogenous	5% Cellulose 8% Fiberglass	87% Other	None Detected
660817 21C W Ext Roof Analyst: Alice Turner	Shingle	Red Non-Fibrous Homogenous	10% Fiberglass	90% Other	None Detected
660818 22A Attic Analyst: Alice Turner	Vermiculite	Brown Non-Fibrous Homogenous		94% Other	6% Actinolite
660819 22B Attic Analyst: Alice Turner		Not Analyzed			
660820 22C Attic Analyst: Alice Turner		Not Analyzed			

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

71 W. Baldwin Ave., Battle Creek, MI

ETC Job : 202446

Client Project : 6030-00-085-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/23/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
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Lab Supervisor/Other Signatory



Analyst: Alice Turner

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.



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

125 Caine St.
Battle Creek, MI 49014

Prepared for:

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

Prepared By:

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

1/17/2018

ETC Job #: 202448

- 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

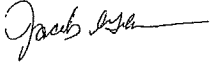
Material #	Material Description	Asbestos	Quantity	Location (Refer to map in Appendix B)
1	Asphalt roofing, black stones	No	1750 SF	Exterior (house)
2	Asphalt roofing, white stones	No	1750 SF	Exterior (house)
3	Asphalt siding, brown stones	No	2200 SF	Exterior (house)
4	House wrap, black	No	2200 SF	Exterior (house)
5	Drywall, grey/brown	No	2000 SF	Throughout
6	Insulation, blown in/grey	No	2000 SF	Porch
7	Siding, transite/grey	YES	200 SF	Front Porch

Chart B – Other Hazardous Materials Located (None above the household quantity Limitations)

5. Inspector's Information

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

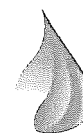
This report reviewed and submitted by:



Jake Gleason
State of Michigan Certified Asbestos Building Inspector
State of Michigan Card #: A-29991

ENVIRONMENTAL TESTING LABORATORIES, INC.

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



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

Project Location : Vacant Residence
125 Caine St., Battle Creek, MI

Attention : Rick Bolek

Client Project : 1500-00-065-0

ETC Job : 202439

Report Date : 1/24/2018

Login #	Sample ID	Work Requested	Completed
661355	01A	Asbestos Analysis	01/24/2018
661356	01B	Asbestos Analysis	01/24/2018
661357	01C	Asbestos Analysis	01/24/2018
661358	02A	Asbestos Analysis	01/24/2018
661359	02B	Asbestos Analysis	01/24/2018
661360	02C	Asbestos Analysis	01/24/2018
661361	03A	Asbestos Analysis	01/24/2018
661362	03B	Asbestos Analysis	01/24/2018
661363	03C	Asbestos Analysis	01/24/2018
661364	04A	Asbestos Analysis	01/24/2018
661365	04B	Asbestos Analysis	01/24/2018
661366	04C	Asbestos Analysis	01/24/2018
661367	05A	Asbestos Analysis	01/24/2018
661368	05B	Asbestos Analysis	01/24/2018
661369	05C	Asbestos Analysis	01/24/2018
661370	06A	Asbestos Analysis	01/24/2018
661371	06B	Asbestos Analysis	01/24/2018
661372	06C	Asbestos Analysis	01/24/2018
661373	07A	Asbestos Analysis	01/24/2018
661374	07B	Asbestos Analysis	01/24/2018

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Login #	Sample ID	Work Requested	Completed
661375	07C	Asbestos Analysis	01/24/2018

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174
Location : Vacant Residence
125 Caine St., Battle Creek, MI

ETC Job : 202439
Client Project : 1500-00-065-0
Date Collected : 01/19/2018
Date Received : 01/19/2018
Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661355 01A Garage-SE Corner Analyst: Eleni Kiliaris	Asphalt Shingle	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661356 01B House-SW Corner Analyst: Eleni Kiliaris	Asphalt Shingle	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661357 01C House-NE Corner Analyst: Eleni Kiliaris	Asphalt Shingle	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
661358 02A Garage-SE Corner Analyst: Eleni Kiliaris	Asphalt Shingle	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
661359 02B House-SW Corner Analyst: Eleni Kiliaris	Asphalt Shingle	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
661360 02C House-NE Corner Analyst: Eleni Kiliaris	Asphalt Shingle	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
661361 03A House N Side Analyst: Eleni Kiliaris	Asphalt Siding	Brown Non-Fibrous Homogenous	60% Cellulose	40% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174
Location : Vacant Residence
125 Caine St., Battle Creek, MI

ETC Job : 202439
Client Project : 1500-00-065-0
Date Collected : 01/19/2018
Date Received : 01/19/2018
Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661362 03B House E Side Analyst: Eleni Kiliaris	Asphalt Siding	Brown Non-Fibrous Homogenous	60% Cellulose	40% Other	None Detected
661363 03C House W Side Analyst: Eleni Kiliaris	Asphalt Siding	Brown Non-Fibrous Homogenous	60% Cellulose	40% Other	None Detected
661364 04A House N Side Analyst: Eleni Kiliaris	House Wrap	Black Non-Fibrous Homogenous	40% Cellulose	60% Other	None Detected
661365 04B House E Side Analyst: Eleni Kiliaris	House Wrap	Black Non-Fibrous Homogenous	40% Cellulose	60% Other	None Detected
661366 04C House W Side Analyst: Eleni Kiliaris	House Wrap	Black Non-Fibrous Homogenous	40% Cellulose	60% Other	None Detected
661367 05A Layer-1 Analyst: Eleni Kiliaris	Drywall	Grey/Brown Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
661367 05A Layer-2 Analyst: Eleni Kiliaris	Paper	Brown Fibrous Homogenous	70% Cellulose	30% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174
Location : Vacant Residence
125 Caine St., Battle Creek, MI

ETC Job : 202439
Client Project : 1500-00-065-0
Date Collected : 01/19/2018
Date Received : 01/19/2018
Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661368 05B	Drywall	Brown/Grey Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
Layer-1 Analyst: Eleni Kiliaris					
661368 05B	Paper	Brown Fibrous Homogenous	70% Cellulose	30% Other	None Detected
Layer-2 Analyst: Eleni Kiliaris					
661369 05C	Drywall	Grey/Brown Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
Layer-1 Analyst: Eleni Kiliaris					
661369 05C	Paper	Brown Fibrous Homogenous	70% Cellulose	30% Other	None Detected
Layer-2 Analyst: Eleni Kiliaris					
661370 06A Ceiling Porch Analyst: Eleni Kiliaris	Blown Insulation	Grey Fibrous Homogenous	40% Cellulose 40% Fiberglass	20% Other	None Detected
661371 06B On floor Analyst: Eleni Kiliaris	Blown Insulation	Grey Fibrous Homogenous	40% Cellulose 30% Fiberglass	30% Other	None Detected
661372 06C On floor Analyst: Eleni Kiliaris	Blown Insulation	Grey Fibrous Homogenous	40% Cellulose 40% Fiberglass	20% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

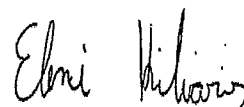
To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174
Location : Vacant Residence
125 Caine St., Battle Creek, MI

ETC Job : 202439
Client Project : 1500-00-065-0
Date Collected : 01/19/2018
Date Received : 01/19/2018
Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661373 07A House Porch Only-Side A W Analyst: Eleni Kiliaris	Transite Siding	Grey Non-Fibrous Homogenous	10% Cellulose	60% Other	30% Chrysotile
661374 07B Side B N Analyst: Eleni Kiliaris	Transite Siding	Grey Non-Fibrous Homogenous	10% Cellulose	60% Other	30% Chrysotile
661375 07C Side C E Analyst: Eleni Kiliaris	Transite Siding	Grey Non-Fibrous Homogenous	10% Cellulose	60% Other	30% Chrysotile



Lab Supervisor/Other Signatory



Analyst: Eleni Kiliaris

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

18 Olivet St.
Battle Creek, MI 49017

Prepared for:

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

Prepared By:

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

1/19/2018

ETC Job #: 202448

- 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 skim	YES	5003 SF	Throughout
2	Texture, white/pink	No	1302 SF	Room 11-13
3	Blown-in insulation, tan	No	5579 SF	Throughout
4	Window glaze, white	YES	6 units	Exterior (windows)
5	Shingle, black	No	2000 SF	Exterior (house)
6	House wrap, tan	No	4524 SF	Exterior (house)
7	Drywall, white	No	45 SF	Room 6, 7
8	12x12 Peel and stick, grey	No	5 SF	Room 4
9	12x12 Floor tile, grey	No	5 SF	Room 4
10	Mastic, yellow/under material 09	No	5 SF	Room 4
11	Glue pod, yellow	No	25 SF	Room 6
12	Fiberboard, red/brick pattern	No	25 SF	Room 6
13	Fiberboard, white	No	528 SF	Room 8
14	Fiberboard, white	No	84 SF	Room 3
15	Concrete floor, grey	No	630 SF	Room 1-3
16	Cinderblock, grey	No	1062 SF	Room 1-3, Exterior (house)
17	Mortar, grey	No	400 SF	Room 1-3, Exterior (house)

Chart A – Materials Sampled and Asbestos Content

Material #	Material Description	Asbestos	Quantity	Location (Refer to map in Appendix B)
18	Chimney brick, grey	No	90 SF	Room 6
19	Mortar, grey	No	90 SF	Room 6
20	12x12 Peel and stick, pinkish grey	No	42 SF	Room 10
21	Floor board/fiberboard, brown	No	564 SF	Room 10-14
22	Lower wall board/fiberboard, brown	No	240 SF	Room 14
23	Mastic, black	No	240 SF	Room 14
24	12x12 Peel and stick, tan	No	144 SF	Room 14
25	Linoleum, cream	No	144 SF	Room 14
26	Ceiling tile, white	No	144 SF	Room 14
27	12x12 Floor tile, beige	YES	48 SF	Room 12
28	12x12 Peel and stick, brown/wood grain	No	150 SF	Room 11

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

Material #	Material Description	Quantity	Location
1	Hot water tank	2	Room 1, 2
2	TV Screens	1	Exterior (house)
3	Oxygen tanks	2	Room 6, 8

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

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

18 Olivet St., Battle Creek, MI

ETC Job : 202448

Client Project : 4560-00-037-0

Date Collected : 01/18/2018

Date Received : 01/19/2018

Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661046 01A RM6 Center Ceiling Layer-1 Analyst: Liliane Mason	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661046 01A RM6 Center Ceiling Layer-2 Analyst: Liliane Mason	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661047 01B RM6 S Wall Layer-1 Analyst: Liliane Mason	Plaster	Grey Non-Fibrous Homogenous		98% Other	2% Chrysotile
661047 01B RM6 S Wall Layer-2 Analyst: Liliane Mason	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661048 01C RM5 NE Wall Layer-1 Analyst: Liliane Mason		Not Analyzed			
661048 01C RM5 NE Wall Layer-2 Analyst: Liliane Mason	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661049 01C RM11 SE Wall Layer-1 Analyst: Liliane Mason		Not Analyzed			
661049 01C RM11 SE Wall Layer-2 Analyst: Liliane Mason	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

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Romulus, MI 48174

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18 Olivet St., Battle Creek, MI

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Client Project : 4560-00-037-0

Date Collected : 01/18/2018

Date Received : 01/19/2018

Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661050 01E RM12 NE Wall Layer-1 Analyst: Liliane Mason		Not Analyzed			
661050 01E RM12 NE Wall Layer-2 Analyst: Liliane Mason	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661051 01F RM13 SW Wall Layer-1 Analyst: Liliane Mason		Not Analyzed			
661051 01F RM13 SW Wall Layer-2 Analyst: Liliane Mason	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661052 01G RM10 Ceiling Layer-1 Analyst: Liliane Mason		Not Analyzed			
661052 01G RM10 Ceiling Layer-2 Analyst: Liliane Mason	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661053 02A RM11 SE Wall Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661054 02B RM11 SW Wall Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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Client Project : 4560-00-037-0

Date Collected : 01/18/2018

Date Received : 01/19/2018

Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661055 02C RM12 NW Wall Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661056 02D RM13 Ceiling Center Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661057 02E RM13 NW Wall Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661058 03A RM8 Center Ceiling Analyst: Liliane Mason	Blown-in Insulation	Tan Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661059 03B RM5 SW Wall Analyst: Liliane Mason	Blown-in Insulation	Tan Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661060 03C RM SE Wall Analyst: Liliane Mason	Blown-in Insulation	Tan Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661061 04A RM5 NW Window Ext Analyst: Liliane Mason	Window Glaze	White Non-Fibrous Homogenous		98% Other	2% Chrysotile



Polarized Light Microscopy Asbestos Analysis Report

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Romulus, MI 48174

Location : Vacant Residence

18 Olivet St., Battle Creek, MI

ETC Job : 202448

Client Project : 4560-00-037-0

Date Collected : 01/18/2018

Date Received : 01/19/2018

Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661062 04B RM12 NE Window Ext Analyst: Liliane Mason		Not Analyzed			
661063 04C RM1 SW Windows Ext Analyst: Liliane Mason		Not Analyzed			
661064 05A Ext House NW Roof Analyst: Liliane Mason	Shingle	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
661065 05B Ext House NE Roof Analyst: Liliane Mason	Shingle	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
661066 05C Ext House SW Roof Analyst: Liliane Mason	Shingle	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
661067 06A Ext House NW Wall Analyst: Liliane Mason	House Wrap	Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected
661068 06B SE Ext House Wall Analyst: Liliane Mason	House Wrap	Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

18 Olivet St., Battle Creek, MI

ETC Job : 202448

Client Project : 4560-00-037-0

Date Collected : 01/18/2018

Date Received : 01/19/2018

Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661069 06C NE Ext House Wall Analyst: Liliane Mason	House Wrap	Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected
661070 07A RM7 SW Wall Analyst: Liliane Mason	Drywall	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661071 07B RM7 SW Wall Analyst: Liliane Mason	Drywall	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661072 07C RM6 SW Ceiling Analyst: Liliane Mason	Drywall	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661073 08A NW Floor RM4 Analyst: Liliane Mason	12x12 Peel & Stick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661074 08B NW Floor RM4 Analyst: Liliane Mason	12x12 Peel & Stick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661075 08C NW Floor RM4 Analyst: Liliane Mason	12x12 Peel & Stick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

18 Olivet St., Battle Creek, MI

ETC Job : 202448

Client Project : 4560-00-037-0

Date Collected : 01/18/2018

Date Received : 01/19/2018

Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661076 09A NW Floor RM4 Analyst: Liliane Mason	12x12 Peel & Stick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661077 09B NW Floor RM4 Analyst: Liliane Mason	12x12 Peel & Stick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661078 09C NW Floor RM4 Analyst: Liliane Mason	12x12 Peel & Stick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661079 10A NW Floor RM4 Analyst: Liliane Mason	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661080 10B NW Floor RM4 Analyst: Liliane Mason	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661081 10C NW Floor RM4 Analyst: Liliane Mason	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661082 11A NW Wall RM6 Analyst: Liliane Mason	Glue Pod	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

18 Olivet St., Battle Creek, MI

ETC Job : 202448

Client Project : 4560-00-037-0

Date Collected : 01/18/2018

Date Received : 01/19/2018

Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661083 11B NW Wall RM6 Analyst: Liliane Mason	Glue Pod	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661084 11C NW Wall RM6 Analyst: Liliane Mason	Glue Pod	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661085 12A NW Wall RM6 Analyst: Liliane Mason	Fiber Board	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
661086 12B NW Wall RM6 Analyst: Liliane Mason	Fiber Board	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
661087 12C NW Wall RM6 Analyst: Liliane Mason	Fiber Board	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
661088 13A RM8 SE Wall Analyst: Liliane Mason	Fiber Board	White Fibrous Homogenous	90% Cellulose	10% Other	None Detected
661089 13B RM8 Ceiling Center Analyst: Liliane Mason	Fiber Board	White Fibrous Homogenous	90% Cellulose	10% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

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38900 Huron River Drive

Romulus, MI 48174

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18 Olivet St., Battle Creek, MI

ETC Job : 202448

Client Project : 4560-00-037-0

Date Collected : 01/18/2018

Date Received : 01/19/2018

Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661090 13C RM8 SW Wall Analyst: Liliane Mason	Fiber Board	White Fibrous Homogenous	90% Cellulose	10% Other	None Detected
661091 14A RM3 NE Wall Analyst: Liliane Mason	Fiber Board	White Fibrous Homogenous	90% Cellulose	10% Other	None Detected
661092 14B RM3 NE Wall Analyst: Liliane Mason	Fiber Board	White Fibrous Homogenous	90% Cellulose	10% Other	None Detected
661093 14C RM3 NE Wall Analyst: Liliane Mason	Fiber Board	White Fibrous Homogenous	90% Cellulose	10% Other	None Detected
661094 15A RM2 NW Floor Analyst: Liliane Mason	Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661095 15B RM2 Center Floor Analyst: Liliane Mason	Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661096 15C RM1 Center Floor Analyst: Liliane Mason	Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

18 Olivet St., Battle Creek, MI

ETC Job : 202448

Client Project : 4560-00-037-0

Date Collected : 01/18/2018

Date Received : 01/19/2018

Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661097 16A RM2 NE Wall Analyst: Liliane Mason	Cinderblock	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661098 16B RM1 SW Wall Analyst: Liliane Mason	Cinderblock	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661099 16C Ext House SE Wall Analyst: Liliane Mason	Cinderblock	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661100 17A RM2 NE Wall Analyst: Liliane Mason	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661101 17B RM1 SW Wall Analyst: Liliane Mason	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661102 17C Ext House SE Wall Analyst: Liliane Mason	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661103 18A Chimney in RM6 Analyst: Liliane Mason	Chimney Brick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174
Location : Vacant Residence
18 Olivet St., Battle Creek, MI

ETC Job : 202448
Client Project : 4560-00-037-0
Date Collected : 01/18/2018
Date Received : 01/19/2018
Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661104 18B Chimney in RM6 Analyst: Liliane Mason	Chimney Brick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661105 18C Chimney in RM6 Analyst: Liliane Mason	Chimney Brick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661106 19A Chimney in RM6 Analyst: Liliane Mason	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661107 19B Chimney in RM6 Analyst: Liliane Mason	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661108 19C Chimney in RM6 Analyst: Liliane Mason	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661109 20A RM10 NW Floor Analyst: Liliane Mason	12x12 Peel & Stick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661110 20B RM10 NE Floor Analyst: Liliane Mason	12x12 Peel & Stick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

18 Olivet St., Battle Creek, MI

ETC Job : 202448

Client Project : 4560-00-037-0

Date Collected : 01/18/2018

Date Received : 01/19/2018

Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661111 20C RM10 SW Floor Analyst: Liliane Mason	12x12 Peel & Stick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661112 21A RM11 SE Floor Analyst: Liliane Mason	Fiber Board	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
661113 21B RM12 SW Floor Analyst: Liliane Mason	Fiber Board	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
661114 21C RM13 SE Floor Analyst: Liliane Mason	Fiber Board	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
661115 22A RM14 SW Wall Analyst: Liliane Mason	Fiber Board	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
661116 22B RM14 SE Wall Analyst: Liliane Mason	Fiber Board	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
661117 22C RM14 NE Wall Analyst: Liliane Mason	Fiber Board	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

18 Olivet St., Battle Creek, MI

ETC Job : 202448

Client Project : 4560-00-037-0

Date Collected : 01/18/2018

Date Received : 01/19/2018

Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661118 23A RM14 SW Wall Analyst: Liliane Mason	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661119 23B RM14 SE Wall Analyst: Liliane Mason	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661120 23C RM14 NE Wall Analyst: Liliane Mason	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661121 24A NW Floor RM14 Layer-1 Analyst: Liliane Mason	12x12 Peel & Stick	Tan Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661121 24A NW Floor RM14 Layer-2 Analyst: Liliane Mason	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661122 24B SW Floor RM14 Layer-1 Analyst: Liliane Mason	12x12 Peel & Stick	Tan Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661122 24B SW Floor RM14 Layer-2 Analyst: Liliane Mason	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

18 Olivet St., Battle Creek, MI

ETC Job : 202448

Client Project : 4560-00-037-0

Date Collected : 01/18/2018

Date Received : 01/19/2018

Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661123 24C NE Floor RM14 Layer-1 Analyst: Liliane Mason	12x12 Peel & Stick	Tan Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661123 24C NE Floor RM14 Layer-2 Analyst: Liliane Mason	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661124 25A NW Floor RM14 Analyst: Liliane Mason	Linoleum	Cream Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
661125 25B SW Floor RM14 Analyst: Liliane Mason	Linoleum	Cream Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
661126 25C NE Floor RM14 Analyst: Liliane Mason	Linoleum	Cream Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
661127 26A RM14 Center Ceiling Analyst: Liliane Mason	Ceiling Tile	White Fibrous Homogenous	80% Cellulose	20% Other	None Detected
661128 26B RM14 W Ceiling Analyst: Liliane Mason	Ceiling Tile	White 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 : Vacant Residence

18 Olivet St., Battle Creek, MI

ETC Job : 202448

Client Project : 4560-00-037-0

Date Collected : 01/18/2018

Date Received : 01/19/2018

Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661129 26C RM14 N Ceiling Analyst: Liliane Mason	Ceiling Tile	White Fibrous Homogenous	80% Cellulose	20% Other	None Detected
661130 27A SE Floor RM12 Analyst: Liliane Mason	12x12 Floor Tile	Beige Non-Fibrous Homogenous		97% Other	3% Chrysotile
661131 27B N Floor RM12 Analyst: Liliane Mason		Not Analyzed			
661132 27C Center Floor RM12 Analyst: Liliane Mason		Not Analyzed			
661133 28A RM11 Center Floor Analyst: Liliane Mason	12x12 Peel & Stick	Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
661134 28B RM11 NE Floor Analyst: Liliane Mason	12x12 Peel & Stick	Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
661135 28C RM11 NW Floor Analyst: Liliane Mason	12x12 Peel & Stick	Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

18 Olivet St., Battle Creek, MI

ETC Job : 202448

Client Project : 4560-00-037-0

Date Collected : 01/18/2018

Date Received : 01/19/2018

Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
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Lab Supervisor/Other Signatory

Analyst: Liliane Mason

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.



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

161 W. Rittenhouse Ave.
Battle Creek, MI 49037

Prepared for:

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

Prepared By:

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

1/17/2018

ETC Job #: 202441

- 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

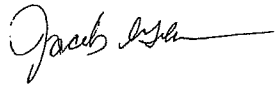
Material #	Material Description	Asbestos	Quantity	Location (Refer to map in Appendix B)
1	Plaster, grey	No	4000 SF	Throughout
2	Duct wrap, brown fiber	YES	5 SF	On boot
3	House wrap, brown paper	No	1700 SF	Exterior (house)
4	Ceiling tile, brown fiber	No	150 SF	Throughout (Ceilings)
5	House wrap, foil/black	No	1700 SF	Exterior (house)
6	Linoleum, tan	YES	100 SF	Room 4
7	Mastic, black	No	100 SF	Room 4
8	Pipe wrap, tan paper/tar	YES	50 LF	Room 8
9	Chimney cement, grey	YES	1 SF	Room 8
10	Window glaze, white	No	11 units	Exterior (windows)
11	Concrete floor, grey	No	1200 SF	Throughout (Floors)

Chart B – Other Hazardous Materials Located
(None above the household quantity Limitations)

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:

A handwritten signature in black ink, appearing to read "Jake Gleason", with a long horizontal flourish extending to the right.

Jake Gleason
State of Michigan Certified Asbestos Building Inspector
State of Michigan Card #: A-29991

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174
Location : Vacant Residence
161 W. Rittenhouse Ave., Battle Creek, MI

ETC Job : 202441
Client Project : 5270-00-144-0
Date Collected : 01/17/2018
Date Received : 01/19/2018
Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661288 01A Liv 2 Ceiling Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661288 01A Liv 2 Ceiling Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
661289 01B Din 3 Wall E Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661289 01B Din 3 Wall E Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661290 01C Din 3 Ceiling Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661290 01C Din 3 Ceiling Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174
Location : Vacant Residence
161 W. Rittenhouse Ave., Battle Creek, MI

ETC Job : 202441
Client Project : 5270-00-144-0
Date Collected : 01/17/2018
Date Received : 01/19/2018
Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661291 01D Bed7 Wall W Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661291 01D Bed7 Wall W Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
661292 01E Bed6 Wall W Layer-1 Analyst: Scott Larabell	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661292 01E Bed6 Wall W Layer-2 Analyst: Scott Larabell	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661293 02A RM4 On Boot Analyst: Scott Larabell	Duct Wrap	Brown Fibrous Homogenous	15% Cellulose	60% Other	25% Chrysotile
661294 02B RM4 Analyst: Scott Larabell		Not Analyzed			
661295 02C RM4 Analyst: Scott Larabell		Not Analyzed			

Polarized Light Microscopy Asbestos Analysis Report

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38900 Huron River Drive
Romulus, MI 48174

Location : Vacant Residence
161 W. Rittenhouse Ave., Battle Creek, MI

ETC Job : 202441

Client Project : 5270-00-144-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661296 03A Ext House Side E Analyst: Scott Larabell	House Wrap	Brown Fibrous Homogenous	80% Cellulose	20% Other	None Detected
661297 03B Ext House Side E Analyst: Scott Larabell	House Wrap	Brown Fibrous Homogenous	80% Cellulose	20% Other	None Detected
661298 03C Ext House Side W Analyst: Scott Larabell	House Wrap	Brown Fibrous Homogenous	75% Cellulose	25% Other	None Detected
661299 04A Din 3 Ceiling Analyst: Scott Larabell	Ceiling Tile	Brown Fibrous Homogenous	70% Cellulose	30% Other	None Detected
661300 04B Din 3 Ceiling Analyst: Scott Larabell	Ceiling Tile	Brown Fibrous Homogenous	75% Cellulose	25% Other	None Detected
661301 04C Din 3 Ceiling Analyst: Scott Larabell	Ceiling Tile	Brown Fibrous Homogenous	70% Cellulose	30% Other	None Detected
661302 05A Ext House Side E Analyst: Scott Larabell	House Wrap	Black Fibrous Homogenous	70% Cellulose	30% Other	None Detected

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161 W. Rittenhouse Ave., Battle Creek, MI

ETC Job : 202441
Client Project : 5270-00-144-0
Date Collected : 01/17/2018
Date Received : 01/19/2018
Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661303 05B Ext House Side E Analyst: Scott Larabell	House Wrap	Black Fibrous Homogenous	70% Cellulose	30% Other	None Detected
661304 05C Ext House Side W Analyst: Scott Larabell	House Wrap	Black Fibrous Homogenous	80% Cellulose	20% Other	None Detected
661305 06A Porch 4 Floor Analyst: Scott Larabell	Linoleum	Tan Non-Fibrous Homogenous	15% Cellulose	75% Other	10% Chrysotile
661306 06B Porch 4 Floor Analyst: Scott Larabell		Not Analyzed			
661307 06C Porch 4 Floor Analyst: Scott Larabell		Not Analyzed			
661308 07A Porch 4 Floor Analyst: Scott Larabell	Mastic	Black Non-Fibrous Homogenous	15% Cellulose	85% Other	None Detected
661309 07B Porch 4 Floor Analyst: Scott Larabell	Mastic	Black Non-Fibrous Homogenous	20% Cellulose	80% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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ETC Job : 202441
Client Project : 5270-00-144-0
Date Collected : 01/17/2018
Date Received : 01/19/2018
Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661310 07C Porch 4 Floor Analyst: Scott Larabell	Mastic	Black Non-Fibrous Homogenous	20% Cellulose	80% Other	None Detected
661311 08A Bsmt Ceiling Layer-1 Analyst: Scott Larabell	Pipe Wrap	Tan Fibrous Homogenous	85% Cellulose	15% Other	None Detected
661311 08A Bsmt Ceiling Layer-2 Analyst: Scott Larabell	Tar	Black Non-Fibrous Homogenous	5% Cellulose	92% Other	3% Chrysotile
661312 08B Bsmt Ceiling Layer-1 Analyst: Scott Larabell	Pipe Wrap	Tan Fibrous Homogenous	80% Cellulose	20% Other	None Detected
661312 08B Bsmt Ceiling Layer-2 Analyst: Scott Larabell		Not Analyzed			
661313 08C Bsmt Ceiling Layer-1 Analyst: Scott Larabell	Pipe Wrap	Tan Fibrous Homogenous	80% Cellulose	20% Other	None Detected
661313 08C Bsmt Ceiling Layer-2 Analyst: Scott Larabell		Not Analyzed			

Polarized Light Microscopy Asbestos Analysis Report

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Romulus, MI 48174
Location : Vacant Residence
161 W. Rittenhouse Ave., Battle Creek, MI

ETC Job : 202441
Client Project : 5270-00-144-0
Date Collected : 01/17/2018
Date Received : 01/19/2018
Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661314 09A Bsmt Center Analyst: Scott Larabell	Chimney Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661315 09B Bsmt Center Analyst: Scott Larabell	Chimney Cement	Grey Non-Fibrous Homogenous	2% Cellulose	95% Other	3% Chrysotile
** Caulk-like, not cementious					
661316 09C Bsmt Center Analyst: Scott Larabell		Not Analyzed			
661317 10A Ext House N Analyst: Scott Larabell	Window Glaze	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
661318 10B Ext House W Analyst: Scott Larabell	Window Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661319 10C Ext House S Analyst: Scott Larabell	Window Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661320 11A Bsmt Center Floor Analyst: Scott Larabell	Concrete Floor	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location : Vacant Residence
161 W. Rittenhouse Ave., Battle Creek, MI

ETC Job : 202441

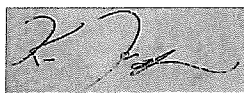
Client Project : 5270-00-144-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
661321 11B Bsmt Center Floor Analyst: Scott Larabell	Concrete Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
661322 11C Bsmt Center Floor Analyst: Scott Larabell	Concrete Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% 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/M-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/M-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.



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

16 Fourth St.
Battle Creek, MI 49014

Prepared for:

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

Prepared By:

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

1/17/2018

ETC Job #: 202444

- 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

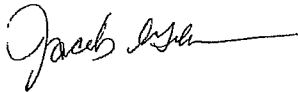
Material #	Material Description	Asbestos	Quantity	Location (Refer to map in Appendix B)
1	Plaster, grey	No	5 SF	Exterior (house)
2	Cinderblock, grey	No	875 SF	Basement

Chart B – Other Hazardous Materials Located (None above the household quantity Limitations)

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:



Jake Gleason
State of Michigan Certified Asbestos Building Inspector
State of Michigan Card #: A-29991



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

74 Harris Ave.
Battle Creek, MI 49037

Prepared for:

City of Battle Creek
10 North Division Street - Room 17
Battle Creek, MI
49017

Prepared By:

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

1/18/2018

ETC Job #: 202447

- 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 skim coat	No	144 SF	Room 3
2	Texture, white	No	980 SF	Room 1, 4, 6
3	12x12 Peel and stick, peach	No	1 SF	Room 6
4	Linoleum, cream	No	135 SF	Room 6
5	12x12 Peel and stick, white/blue	No	324 SF	Room 3
6	12x12 Peel and stick, dark grayish brown	No	75 SF	Room 4
7	Drywall, white	No	7810 SF	Throughout
8	Mud, white	No	200 SF	Throughout
9	Tape, white	No	200 SF	Throughout
10	Fiberboard, tan	No	696 SF	Room 2
11	Fiberboard, rough/brown	No	368 SF	Room 5
12	Concrete floor, grey	No	360 SF	Room 7
13	Glue, yellow	No	240 SF	Room 5
14	12x12 Floor tile, white	No	324 SF	Room 3
15	12x12 Floor tile, cream	No	324 SF	Room 3
16	Mastic, yellow	No	324 SF	Room 3
17	12x12 Peel and stick, brown/white	No	378 SF	Room 9

Chart A – Materials Sampled and Asbestos Content

Material #	Material Description	Asbestos	Quantity	Location (Refer to map in Appendix B)
18	12x12 Peel and stick, white	No	504 SF	Room 10
19	Chimney block, grey	No	84 SF	Room 10 Chimney
20	Chimney mortar, grey	No	21 SF	Room 10 Chimney
21	Shingle, black	No	1800 SF	Exterior (house)
22	Window glaze, white	No	12 windows	Exterior (windows)
23	House wrap, brown/silver	No	3600 SF	Exterior (house)
24	House wrap, brown	No	3600 SF	Exterior (house)
25	House wrap, black	No	3600 SF	Exterior (house)
26	Brick exterior, grey	No	3600 SF	Exterior (house)
27	Mortar, grey	No	200 SF	Exterior (house)

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

Material #	Material Description	Quantity	Location
1	Batteries	2	Room 1
2	TV Screens	1	Room 10
3	Misc. Items (solvents, cleaners)	6	Room 1, 3, 6
4	Security Alarms/Systems	1	Room 1
5	Smoke Detectors	2	Room 2, 10
6	Thermostats	1	Room 1
7	Paint Cans	1	Room 7
8	Tires	2	Exterior (house)

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



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

32 Frisbie Ave.
Battle Creek, MI 49037

Prepared for:

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

Prepared By:

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

1/17/2018

ETC Job #: 202440

- 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

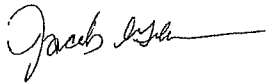
Material #	Material Description	Asbestos	Quantity	Location (Refer to map in Appendix B)
1	Duct wrap, grey/brown	YES	33 LF	Room 10-12
2	Plaster, white/grey	No	4800 SF	Throughout
3	Texture, white popcorn	No	300 SF	Room 1, 2, 4
4	Texture, white with lumps	No	300 SF	Room 9, 10, 12
5	Drywall, white/tan paper	No	1200 SF	Room 3, 4, 7
6	Drywall tape, white	No	150 LF	Room 3
7	Drywall mud, white	No	150 LF	Room 3
8	12x12 Floor tile, white with tan	No	150 SF	Room 3
9	12x12 Floor tile, grey with white	No	400 SF	Room 1, 2, 5
10	Asphalt shingle, black/brown stones	No	1900 SF	Exterior (house)
11	Poured concrete, grey	No	2200 SF	Room 13
12	Insulation, grey – blown in	No	1750 SF	Rooms 8-10, 12
13	House wrap, brown paper	No	3500 SF	Exterior (house)
14	Stack cement, dark grey	No	1 SF	Basement
15	Window glaze, white	No	3 units	Exterior (house) east side

Chart B – Other Hazardous Materials Located
(None above the household quantity Limitations)

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:



Jake Gleason
State of Michigan Certified Asbestos Building Inspector
State of Michigan Card #: A-29991



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

32 Frisbie Ave., Battle Creek, MI

ETC Job : 202440

Client Project : 3260-00-095-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660902 01A BR10 Analyst: Liliane Mason	Duct Wrap	Grey Fibrous Homogenous		60% Other	40% Chrysotile
660903 01B BR11 Analyst: Liliane Mason		Not Analyzed			
660904 01C BR12 Analyst: Liliane Mason		Not Analyzed			
660905 02A Liv N Wall Layer-1 Analyst: Liliane Mason	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660905 02A Liv N Wall Layer-2 Analyst: Liliane Mason	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660906 02B Din S Wall Layer-1 Analyst: Liliane Mason	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660906 02B Din S Wall Layer-2 Analyst: Liliane Mason	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

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32 Frisbie Ave., Battle Creek, MI

ETC Job : 202440

Client Project : 3260-00-095-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660907 02C Kit E Wall Layer-1 Analyst: Liliane Mason	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660907 02C Kit E Wall Layer-2 Analyst: Liliane Mason	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660908 02D Office N Wall Layer-1 Analyst: Liliane Mason	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660908 02D Office N Wall Layer-2 Analyst: Liliane Mason	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660909 02E Bed 10 W Wall Layer-1 Analyst: Liliane Mason	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660909 02E Bed 10 W Wall Layer-2 Analyst: Liliane Mason	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660910 02F 11 9 W Wall Layer-1 Analyst: Liliane Mason	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660910 02F 11 9 W Wall Layer-2 Analyst: Liliane Mason	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected



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Client Project : 3260-00-095-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660911 02G Bed 12 W Wall Layer-1 Analyst: Liliane Mason	Plaster	Gray Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660911 02G Bed 12 W Wall Layer-2 Analyst: Liliane Mason	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660912 03A Liv Ceiling Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660913 03B Din Ceiling Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660914 03C Office Ceiling Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660915 04A Bed 10 Ceiling Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660916 04B Hall 9 Ceiling Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

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Date Collected : 01/17/2018

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Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660917 04C Bed 12 Ceiling Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660918 05A Office 4 S Wall Layer-1 Analyst: Liliane Mason	Drywall	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660918 05A Office 4 S Wall Layer-2 Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660919 05B Kit 3 E Wall Layer-1 Analyst: Liliane Mason	Drywall	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660919 05B Kit 3 E Wall Layer-2 Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660920 05C Porch 7 N Wall Layer-1 Analyst: Liliane Mason	Drywall	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660920 05C Porch 7 N Wall Layer-2 Analyst: Liliane Mason	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660921 06A Kit 3 Ceiling Analyst: Liliane Mason	Drywall Tape	White Fibrous Homogenous	100% Other fibrous		None Detected



Polarized Light Microscopy Asbestos Analysis Report

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Romulus, MI 48174

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ETC Job : 202440

Client Project : 3260-00-095-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660922 06B Off 4 Ceiling Analyst: Liliane Mason	Drywall Tape	White Fibrous Homogenous	100% Other fibrous		None Detected
660923 06C Porch 7 Wall Side N Analyst: Liliane Mason	Drywall Tape	White Fibrous Homogenous	100% Other fibrous		None Detected
660924 07A Kit 3 Ceiling Analyst: Liliane Mason	Drywall Mud	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660925 07B Kit 3 Ceiling Analyst: Liliane Mason	Drywall Mud	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660926 07C Kit 3 Ceiling Analyst: Liliane Mason	Drywall Mud	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660927 08A Kit 3 Center Analyst: Liliane Mason	Tile Floor 12x12	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660928 08B Kit 3 N Analyst: Liliane Mason	Tile Floor 12x12	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

32 Frisbie Ave., Battle Creek, MI

ETC Job : 202440

Client Project : 3260-00-095-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660929 08C Kit 3 E Analyst: Liliane Mason	Tile Floor 12x12	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660930 09A Dining 2 Center Analyst: Liliane Mason	Floor Tile 12x12	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660931 09B Bath 5 Center Analyst: Liliane Mason	Floor Tile 12x12	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660932 09C Liv 1 Center Analyst: Liliane Mason	Floor Tile 12x12	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660933 10A Ext House Side N Analyst: Liliane Mason	Asphalt Shingle	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660934 10B Ext House Side W Analyst: Liliane Mason	Asphalt Shingle	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660935 10C Ext House Side E Analyst: Liliane Mason	Asphalt Shingle	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

32 Frisbie Ave., Battle Creek, MI

ETC Job : 202440

Client Project : 3260-00-095-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660936 11A Bsmt Floor Center Analyst: Liliane Mason	Poured Concrete	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660937 11B Bsmt Wall E Wall Analyst: Liliane Mason	Poured Concrete	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660938 11C Bsmt Floor Center Analyst: Liliane Mason	Poured Concrete	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660939 12A Bed 10 Ceiling Analyst: Liliane Mason	Insulation	Grey Fibrous Homogenous	90% Mineral wool	10% Other	None Detected
660940 12B Bed 12 Ceiling Analyst: Liliane Mason	Insulation	Grey Fibrous Homogenous	90% Cellulose	10% Other	None Detected
660941 12C Hall 09 Ceiling Analyst: Liliane Mason	Insulation	Grey Fibrous Homogenous	90% Mineral wool	10% Other	None Detected
660942 13A Ext E Analyst: Liliane Mason	House Wrap	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

32 Frisbie Ave., Battle Creek, MI

ETC Job : 202440

Client Project : 3260-00-095-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660943 13B Ext W Analyst: Liliane Mason	House Wrap	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected
660944 13C Ext S Analyst: Liliane Mason	House Wrap	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected
660945 14A Bsmt Center Analyst: Liliane Mason	Stack Cement	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660946 14B Bsmt Center Analyst: Liliane Mason	Stack Cement	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660947 14C Bsmt Center Analyst: Liliane Mason	Stack Cement	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660948 15A Kit E Side Analyst: Liliane Mason	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660949 15B Din E Side Analyst: Liliane Mason	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

32 Frisbie Ave., Battle Creek, MI

ETC Job : 202440

Client Project : 3260-00-095-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/24/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660950 15C Din E Side Analyst: Liliane Mason	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

Lab Supervisor/Other Signatory

Analyst: Liliane Mason

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.



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

99 Clay St.
Battle Creek, MI 49017

Prepared for:

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

Prepared By:

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

1/17/2018

ETC Job #: 202442

- 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 skim	No	7123 SF	Throughout
2	Texture ceiling, beige	YES	270 SF	Room 4
3	Texture walls, white/blue	No	672 SF	Room 10
4	Duct wrap, grey	YES	15 SF	Room 2
5	Blown in-insulation, tan	No	7123 SF	Throughout
6	14x14 Floor tile peel and stick, grey	No	270 SF	Room 4
7	14x14 Floor tile peel and stick, tan	No	270 SF	Room 4
8	Drywall, white	No	7123 SF	Throughout
9	Mud, white	No	200 SF	Throughout
10	Tape, white	No	200 SF	Throughout
11	12x12 Peel and stick, grey	No	252 SF	Room 6
12	12x12 Peel and stick, white	No	252 SF	Room 6
13	Linoleum, tan	No	36 SF	Room 8
14	Ceiling tile, black	No	252 SF	Room 6
15	12x12 Peel and stick, black	No	40 SF	Room 7
16	12x12 Peel and stick, grey	No	40 SF	Room 7
17	Fiberboard, black/white	No	208 SF	Room 7

Chart A – Materials Sampled and Asbestos Content

Material #	Material Description	Asbestos	Quantity	Location (Refer to map in Appendix B)
18	Mastic, yellow	No	208 SF	Room 7
19	Caulk, white	No	20 SF	Room 7
20	Fiberboard, tan	No	312 SF	Rooms 5, 6
21	Chimney brick, red	No	30 SF	Room 10
22	Chimney mortar, grey	No	30 SF	Room 10
23	Concrete floor, grey	No	576 SF	Room 10
24	Concrete wall, grey	No	672 SF	Room 10
25	Exterior mortar, grey	No	376 SF	Exterior (house)
26	Shingle, black	No	2000 SF	Exterior (house)
27	Glaze, white	No	10 units	Exterior (windows)
28	Vermiculite, tan	YES	40 SF	Attic and scattered on 2 nd Floor

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

Material #	Material Description	Quantity	Location
1	TV Screens/Electronics	8	Room 4, 5, 13, 14
2	Thermostats	1	Room 4
3	Paint Cans	1	Room 9
4	Tires	3	Exterior (house)
5	Florescent Light Bulbs	1	Room 6
6	Misc. Items (solvents, cleaners)	2	Room 7

5. Inspector's Information

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

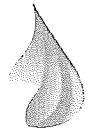
This report reviewed and submitted by:



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

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 : Vacant Residence
99 Clay St., Battle Creek, MI

Attention : Rick Bolek

Client Project : 3870-00-048-0

ETC Job : 202442

Report Date : 2/5/2018

Login #	Sample ID	Work Requested	Completed
660667	01A	Asbestos Analysis	01/22/2018
660668	01B	Asbestos Analysis	01/22/2018
660669	01C	Asbestos Analysis	01/22/2018
660670	01D	Asbestos Analysis	01/22/2018
660671	01E	Asbestos Analysis	01/22/2018
660672	01F	Asbestos Analysis	01/22/2018
660673	01G	Asbestos Analysis	01/22/2018
660674	02A	Asbestos Analysis	01/22/2018
660675	02B	Asbestos Analysis	01/22/2018
660676	02C	Asbestos Analysis	01/22/2018
660677	03A	Asbestos Analysis	01/22/2018
660678	03B	Asbestos Analysis	01/22/2018
660679	03C	Asbestos Analysis	01/22/2018
660680	04A	Asbestos Analysis	01/22/2018
660681	04B	Asbestos Analysis	01/22/2018
660682	04C	Asbestos Analysis	01/22/2018
660683	05A	Asbestos Analysis	01/22/2018
660684	05B	Asbestos Analysis	01/22/2018
660685	05C	Asbestos Analysis	01/22/2018
660686	06A	Asbestos Analysis	01/22/2018

Login #	Sample ID	Work Requested	Completed
660687	06B	Asbestos Analysis	01/22/2018
660688	06C	Asbestos Analysis	01/22/2018
660689	07A	Asbestos Analysis	01/22/2018
660690	07B	Asbestos Analysis	01/22/2018
660691	07C	Asbestos Analysis	01/22/2018
660692	08A	Asbestos Analysis	01/22/2018
660693	08B	Asbestos Analysis	01/22/2018
660694	08C	Asbestos Analysis	01/22/2018
660695	09A	Asbestos Analysis	01/22/2018
660696	09B	Asbestos Analysis	01/22/2018
660697	09C	Asbestos Analysis	01/22/2018
660698	10A	Asbestos Analysis	01/22/2018
660699	10B	Asbestos Analysis	01/22/2018
660700	10C	Asbestos Analysis	01/22/2018
660701	11A	Asbestos Analysis	01/22/2018
660702	11B	Asbestos Analysis	01/22/2018
660703	11C	Asbestos Analysis	01/22/2018
660704	12A	Asbestos Analysis	01/22/2018
660705	12B	Asbestos Analysis	01/22/2018
660706	12C	Asbestos Analysis	01/22/2018
660707	13A	Asbestos Analysis	01/22/2018
660708	13B	Asbestos Analysis	01/22/2018
660709	13C	Asbestos Analysis	01/22/2018
660710	14A	Asbestos Analysis	01/22/2018
660711	14B	Asbestos Analysis	01/22/2018
660712	14C	Asbestos Analysis	01/22/2018
660713	15A	Asbestos Analysis	01/22/2018

Login #	Sample ID	Work Requested	Completed
660714	15B	Asbestos Analysis	01/22/2018
660715	15C	Asbestos Analysis	01/22/2018
660716	16A	Asbestos Analysis	01/22/2018
660717	16B	Asbestos Analysis	01/22/2018
660718	16C	Asbestos Analysis	01/22/2018
660719	17A	Asbestos Analysis	01/22/2018
660720	17B	Asbestos Analysis	01/22/2018
660721	17C	Asbestos Analysis	01/22/2018
660722	18A	Asbestos Analysis	01/22/2018
660723	18B	Asbestos Analysis	01/22/2018
660724	18C	Asbestos Analysis	01/22/2018
660725	19A	Asbestos Analysis	01/22/2018
660726	19B	Asbestos Analysis	01/22/2018
660727	19C	Asbestos Analysis	01/22/2018
660728	20A	Asbestos Analysis	01/22/2018
660729	20B	Asbestos Analysis	01/22/2018
660730	20C	Asbestos Analysis	01/22/2018
660731	21A	Asbestos Analysis	01/22/2018
660732	21B	Asbestos Analysis	01/22/2018
660733	21C	Asbestos Analysis	01/22/2018
660734	22A	Asbestos Analysis	01/22/2018
660735	22B	Asbestos Analysis	01/22/2018
660736	22C	Asbestos Analysis	01/22/2018
660737	23A	Asbestos Analysis	01/22/2018
660738	23B	Asbestos Analysis	01/22/2018
660739	23C	Asbestos Analysis	01/22/2018
660740	24A	Asbestos Analysis	01/22/2018

Login #	Sample ID	Work Requested	Completed
660741	24B	Asbestos Analysis	01/22/2018
660742	24C	Asbestos Analysis	01/22/2018
660743	25A	Asbestos Analysis	01/22/2018
660744	25B	Asbestos Analysis	01/22/2018
660745	25C	Asbestos Analysis	01/22/2018
660746	26A	Asbestos Analysis	01/22/2018
660747	26B	Asbestos Analysis	01/22/2018
660748	26C	Asbestos Analysis	01/22/2018
660749	27A	Asbestos Analysis	01/22/2018
660750	27B	Asbestos Analysis	01/22/2018
660751	27C	Asbestos Analysis	01/22/2018
660752	28A	Asbestos Analysis	01/22/2018

Reviewed by:



Quality Assurance Coordinator



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174
Location : Vacant Residence
99 Clay St., Battle Creek, MI

ETC Job : 202442
Client Project : 3870-00-048-0
Date Collected : 01/17/2018
Date Received : 01/19/2018
Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660667 01A RM2 N Wall Layer-1 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660667 01A RM2 N Wall Layer-2 Analyst: Sarah Poirier	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660668 01B RM3 W Wall Layer-1 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660668 01B RM3 W Wall Layer-2 Analyst: Sarah Poirier	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
660669 01C RM4 E Wall Layer-1 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660669 01C RM4 E Wall Layer-2 Analyst: Sarah Poirier	Skim	White Non-Fibrous Homogenous		100% Other	None Detected

Certificate of Analysis

Environmental Testing Laboratories, Inc.



38900 Huron River Drive,
Suite 200, Romulus, Michigan 48174,
(734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174
Location : Vacant Residence
99 Clay St., Battle Creek, MI

ETC Job : 202442
Client Project : 3870-00-048-0
Date Collected : 01/17/2018
Date Received : 01/19/2018
Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660670 01D RM6 E Wall Layer-1 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660670 01D RM6 E Wall Layer-2 Analyst: Sarah Poirier	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
660671 01E RM12 N Wall Layer-1 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660671 01E RM12 N Wall Layer-2 Analyst: Sarah Poirier	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
660672 01F RM14 Ceiling Layer-1 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660672 01F RM14 Ceiling Layer-2 Analyst: Sarah Poirier	Skim	White Non-Fibrous Homogenous		100% Other	None Detected

Certificate of Analysis

Environmental Testing Laboratories, Inc.



38900 Huron River Drive,
Suite 200, Romulus, Michigan 48174,
(734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174
Location : Vacant Residence
99 Clay St., Battle Creek, MI

ETC Job : 202442
Client Project : 3870-00-048-0
Date Collected : 01/17/2018
Date Received : 01/19/2018
Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660673 01G RM5 S Wall Layer-1 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660673 01G RM5 S Wall Layer-2 Analyst: Sarah Poirier	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660674 02A RM4 Center Ceiling Layer-1 Analyst: Sarah Poirier	Texture	Beige Non-Fibrous Homogenous		98% Other	2% Chrysotile
660674 02A RM4 Center Ceiling Layer-2 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660675 02B RM4 N Ceiling Layer-1 Analyst: Sarah Poirier		Not Analyzed			
660675 02B RM4 N Ceiling Layer-2 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous		100% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

99 Clay St., Battle Creek, MI

ETC Job : 202442

Client Project : 3870-00-048-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660676 02C RM4 S Ceiling Layer-1 Analyst: Sarah Poirier		Not Analyzed			
660676 02C RM4 S Ceiling Layer-2 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660677 03A RM10 N Wall Analyst: Sarah Poirier	Texture	Blue/White Non-Fibrous Homogenous		100% Other	None Detected
660678 03B RM10 W Wall Analyst: Sarah Poirier	Texture	Blue/White Non-Fibrous Homogenous		100% Other	Trace Chrysotile
660679 03C RM10 S Wall Analyst: Sarah Poirier	Texture	Blue/White Non-Fibrous Homogenous		100% Other	None Detected
660680 04A RM2 N Duct Analyst: Sarah Poirier	Duct Wrap	Grey Fibrous Homogenous	50% Cellulose	10% Other	40% Chrysotile
660681 04B RM2 N Duct Analyst: Sarah Poirier		Not Analyzed			

Polarized Light Microscopy Asbestos Analysis Report

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99 Clay St., Battle Creek, MI

ETC Job : 202442
Client Project : 3870-00-048-0
Date Collected : 01/17/2018
Date Received : 01/19/2018
Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660682 04C RM2 N Duct Analyst: Sarah Poirier		Not Analyzed			
660683 05A RM2 W Wall Analyst: Sarah Poirier	Blown-In Insulation	Tan Fibrous Homogenous	99% Cellulose	1% Other	None Detected
660684 05B RM14 N Wall Analyst: Sarah Poirier	Blown-In Insulation	Tan Fibrous Homogenous	98% Cellulose	2% Other	None Detected
660685 05C RM13 N Wall Analyst: Sarah Poirier	Blown-In Insulation	Tan Fibrous Homogenous	98% Cellulose	2% Other	None Detected
660686 06A W Floor RM4 Analyst: Sarah Poirier	14x14 Floor Tile Peel and Stick	Grey Non-Fibrous Homogenous	4% Other fibrous	96% Other	None Detected
660687 06B Center Floor RM4 Analyst: Sarah Poirier	14x14 Floor Tile Peel and Stick	Grey Non-Fibrous Homogenous	3% Other fibrous	97% Other	None Detected
660688 06C E Floor RM4 Analyst: Sarah Poirier	14x14 Floor Tile Peel and Stick	Grey Non-Fibrous Homogenous	4% Other fibrous	96% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174
Location : Vacant Residence
 99 Clay St., Battle Creek, MI

ETC Job : 202442
Client Project : 3870-00-048-0
Date Collected : 01/17/2018
Date Received : 01/19/2018
Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660689 07A W Floor RM4 Analyst: Sarah Poirier	14x14 Floor Tile Peel and Stick	Tan Non-Fibrous Homogenous		100% Other	None Detected
660690 07B Center Floor RM4 Analyst: Sarah Poirier	14x14 Floor Tile Peel and Stick	Tan Non-Fibrous Homogenous		100% Other	None Detected
660691 07C E Floor RM4 Analyst: Sarah Poirier	14x14 Floor Tile Peel and Stick	Tan Non-Fibrous Homogenous		100% Other	None Detected
660692 08A RM4 W Wall Analyst: Sarah Poirier	Drywall	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660693 08B RM3 Ceiling Analyst: Sarah Poirier	Drywall	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660694 08C RM2 Ceiling Analyst: Sarah Poirier	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660695 09A RM4 W Wall Analyst: Emily Regan	Mud	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174
Location : Vacant Residence
99 Clay St., Battle Creek, MI

ETC Job : 202442
Client Project : 3870-00-048-0
Date Collected : 01/17/2018
Date Received : 01/19/2018
Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660696 09B RM3 Ceiling Analyst: Emily Regan	Mud	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660697 09C RM2 Ceiling Analyst: Emily Regan	Mud	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660698 10A RM4 W Wall Analyst: Sarah Poirier	Tape	White Fibrous Homogenous	99% Cellulose	1% Other	None Detected
660699 10B RM3 Ceiling Analyst: Sarah Poirier	Tape	White Fibrous Homogenous	98% Cellulose	2% Other	None Detected
660700 10C RM2 Ceiling Analyst: Sarah Poirier	Tape	White Fibrous Homogenous	99% Cellulose	1% Other	None Detected
660701 11A N Floor RM6 Analyst: Sarah Poirier	12x12 Floor Tile Peel and Stick	Grey Non-Fibrous Homogenous		100% Other	None Detected
660702 11B W Floor RM6 Analyst: Sarah Poirier	12x12 Floor Tile Peel and Stick	Grey Non-Fibrous Homogenous		100% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

99 Clay St., Battle Creek, MI

ETC Job : 202442

Client Project : 3870-00-048-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660703 11C Center Floor RM6 Analyst: Sarah Poirier	12x12 Floor Tile Peel and Stick	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660704 12A N Floor RM6 Analyst: Sarah Poirier	12x12 Floor Tile Peel and Stick	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660705 12B W Floor RM6 Analyst: Sarah Poirier	12x12 Floor Tile Peel and Stick	White Non-Fibrous Homogenous		100% Other	None Detected
660706 12C Center Floor RM6 Analyst: Sarah Poirier	12x12 Floor Tile Peel and Stick	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660707 13A N Floor RM8 Analyst: Dave Cousino	Linoleum	Tan Fibrous Homogenous	80% Cellulose	20% Other	None Detected
660708 13B E Floor RM8 Analyst: Dave Cousino	Linoleum	Tan Fibrous Homogenous	80% Cellulose	20% Other	None Detected
660709 13C W Floor RM8 Analyst: Dave Cousino	Linoleum	Tan Fibrous Homogenous	85% Cellulose	15% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174
Location : Vacant Residence
99 Clay St., Battle Creek, MI

ETC Job : 202442
Client Project : 3870-00-048-0
Date Collected : 01/17/2018
Date Received : 01/19/2018
Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660710 14A Center Ceiling RM6 Analyst: Dave Cousino	Ceiling Tile	Black Fibrous Homogenous	95% Cellulose	5% Other	None Detected
660711 14B N Ceiling RM6 Analyst: Dave Cousino	Ceiling Tile	Black Fibrous Homogenous	90% Cellulose	10% Other	None Detected
660712 14C S Ceiling RM6 Analyst: Dave Cousino	Ceiling Tile	Black Fibrous Homogenous	90% Cellulose	10% Other	None Detected
660713 15A N Floor RM7 Analyst: Dave Cousino	12x12 Floor Tile Peel and Stick	Black Non-Fibrous Homogenous	6% Cellulose	94% Other	None Detected
660714 15B W Floor RM7 Analyst: Dave Cousino	12x12 Floor Tile Peel and Stick	Black Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
660715 15C E Floor RM7 Analyst: Dave Cousino	12x12 Floor Tile Peel and Stick	Black Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
660716 16A N Floor RM7 Analyst: Dave Cousino	12x12 Floor Tile Peel and Stick	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

Certificate of Analysis

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

99 Clay St., Battle Creek, MI

ETC Job : 202442

Client Project : 3870-00-048-0

Date Collected : 01/17/2018

Date Received : 01/19/2018

Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660717 16B W Floor RM7 Analyst: Dave Cousino	12x12 Floor Tile Peel and Stick	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660718 16C E Floor RM7 Analyst: Dave Cousino	12x12 Floor Tile Peel and Stick	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660719 17A N Wall RM7 Analyst: Dave Cousino	Fiberboard	Black/White Fibrous Homogenous	95% Cellulose	5% Other	None Detected
660720 17B E Wall RM7 Analyst: Dave Cousino	Fiberboard	Black/White Fibrous Homogenous	90% Cellulose	10% Other	None Detected
660721 17C S Wall RM7 Analyst: Dave Cousino	Fiberboard	Black/White Fibrous Homogenous	95% Cellulose	5% Other	None Detected
660722 18A N Wall RM7 Analyst: Dave Cousino	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660723 18B E Wall RM7 Analyst: Dave Cousino	Mastic	Yellow Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174
Location : Vacant Residence
 99 Clay St., Battle Creek, MI

ETC Job : 202442
Client Project : 3870-00-048-0
Date Collected : 01/17/2018
Date Received : 01/19/2018
Date Analyzed : 01/22/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660724 18C S Wall RM7 Analyst: Dave Cousino	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660725 19A N Wall RM7 Analyst: Dave Cousino	Caulk	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660726 19B E Wall RM7 Analyst: Dave Cousino	Caulk	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
660727 19C S Wall RM7 Analyst: Dave Cousino	Caulk	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
660728 20A RM6 S Wall Analyst: Dave Cousino	Fiberboard	Tan Fibrous Homogenous	95% Cellulose	5% Other	None Detected
660729 20B RM5 Center Ceiling Analyst: Dave Cousino	Fiberboard	Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected
660730 20C RM5 N Ceiling Analyst: Dave Cousino	Fiberboard	Tan Fibrous Homogenous	90% Cellulose	10% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660731 21A Chimney In RM10 Analyst: Dave Cousino	Chimney Brick	Red Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660732 21B Chimney In RM10 Analyst: Dave Cousino	Chimney Brick	Red Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
660733 21C Chimney In RM10 Analyst: Dave Cousino	Chimney Brick	Red Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660734 22A Chimney In RM10 Analyst: Dave Cousino	Chimney Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660735 22B Chimney In RM10 Analyst: Dave Cousino	Chimney Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660736 22C Chimney In RM10 Analyst: Dave Cousino	Chimney Mortar	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
660737 23A N Floor RM10 Analyst: Dave Cousino	Concrete Floor	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected



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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660738 23B Center Floor RM10 Analyst: Dave Cousino	Concrete Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660739 23C S Floor RM10 Analyst: Dave Cousino	Concrete Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660740 24A N Wall RM10 Analyst: Dave Cousino	Concrete Wall	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
660741 24B W Wall RM10 Analyst: Dave Cousino	Concrete Wall	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660742 24C S Wall RM10 Analyst: Dave Cousino	Concrete Wall	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
660743 25A W Wall Ext House Analyst: Dave Cousino	Exterior Mortar	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
660744 25B S Wall Ext House Analyst: Dave Cousino	Exterior Mortar	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660745 25C N Wall Ext House Analyst: Dave Cousino	Exterior Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660746 26A Ext House N Roof Analyst: Dave Cousino	Shingle	Black Non-Fibrous Homogenous	1% Cellulose 3% Fiberglass	96% Other	None Detected
660747 26B Ext House S Roof Analyst: Dave Cousino	Shingle	Black Non-Fibrous Homogenous	1% Cellulose 5% Fiberglass	94% Other	None Detected
660748 26C Ext House E Roof Analyst: Dave Cousino	Shingle	Black Non-Fibrous Homogenous	2% Cellulose 10% Fiberglass	88% Other	None Detected
660749 27A RM14 N Window Analyst: Dave Cousino	Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660750 27B RM13 S Window Analyst: Dave Cousino	Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
660751 27C RM13 W Window Analyst: Dave Cousino	Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

Certificate of Analysis

Environmental Testing Laboratories, Inc.



38900 Huron River Drive,
Suite 200, Romulus, Michigan 48174,
(734) 955-6600, Fax: (734) 955-6604

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
660752 28A Attic Analyst: Dave Cousino	Vermiculite	Brown Fibrous Homogenous		98% Vermiculite	2% Actinolite

Lab Supervisor/Other Signatory

Analyst: Dave Cousino

Analyst: Emily Regan

Analyst: Sarah Poirier

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.