

**516 Fairground Street Caldwell, Ohio 43724.**

**BID PACKET  
FOR  
CONSTRUCTION  
PROJECTS**

# Table of Contents

<b>NOTICE TO CONTRACTORS .....</b>	<b>5</b>
<b>INSTRUCTION TO BIDDERS .....</b>	<b>6</b>
RECEIPT AND OPENING OF BIDS.....	6
PREPARATION OF BID.....	6
METHOD OF BIDDING.....	6
QUALIFICATIONS OF BIDDER .....	7
<b>BID GUARANTY.....</b>	<b>7</b>
TEXT OF STATUTE .....	7
<b>(J) FOR THE PURPOSES OF THIS SECTION AND SECTIONS 153.56, 153.57, AND 153.571 [153.57.1] OF THE REVISED CODE, "PUBLIC IMPROVEMENT," "SUBCONTRACTOR," "MATERIALMAN," "LABORER," AND "MATERIALS" HAVE THE SAME MEANINGS AS IN SECTION 1311.25 OF THE REVISED CODE EXAMINATION OF SITE .....</b>	<b>10</b>
<b>SOIL CONDITIONS.....</b>	<b>10</b>
<b>WORKING FACILITIES.....</b>	<b>10</b>
<b>ADDENDA AND INTERPRETATIONS.....</b>	<b>10</b>
<b>WATER SUPPLY .....</b>	<b>11</b>
<b>SIGNATURE OF BIDDERS.....</b>	<b>11</b>
<b>NOTICE OF SPECIAL TERMS .....</b>	<b>11</b>
ADDITIONAL OBLIGATIONS UPON CONTRACT AWARD .....	11
<b>FOREIGN CORPORATIONS AND CONTRACTORS.....</b>	<b>11</b>
<b>GENERAL CONTRACT TERMS .....</b>	<b>12</b>
ARTICLE 1 - CONTRACT AND CONTRACT DOCUMENTS .....	12
ARTICLE 2 - PERFORMANCE AND PAYMENT BONDS.....	12
ARTICLE 3 - WAGE RATES.....	12
ARTICLE 4 - AFFIRMATIVE ACTION.....	13
ARTICLE 5 - INSURANCE.....	13
ARTICLE 6 – SAFETY AND SITE PROTECTION, CLEAN-UP AND RESTORATION .....	15
ARTICLE 7 - PERMITS .....	16
ARTICLE 8 - SUPERVISION.....	16
ARTICLE 9 - CLAIMS AGAINST CONTRACTOR.....	17
ARTICLE 10 - SUBCONTRACTING.....	17
ARTICLE 11 - CHANGE OF WORK .....	17
ARTICLE 12 - TIME .....	18
ARTICLE 13 - COMPLETION OF WORK.....	18
ARTICLE 14 - TERMINATION.....	19
ARTICLE 15 - PAYMENT.....	19
ARTICLE 16- LIMITATION OF LIABILITY .....	20
<b>BID FOR LUMP SUM CONTRACTS .....</b>	<b>21</b>
<b>CONTRACTOR’S PERSONAL PROPERTY TAX AFFIDAVIT .....</b>	<b>24</b>
<b>BID GUARANTY AND PERFORMANCE BOND.....</b>	<b>25</b>

<b>NONCOLLUSION AFFIDAVIT .....</b>	<b>27</b>
<b>BONDING AND INSURANCE REQUIREMENTS .....</b>	<b>28</b>
<b>CONTRACT .....</b>	<b>29</b>
ARTICLE 1 .....	29
STATEMENT OF WORK .....	29
ARTICLE 2 .....	29
THE CONTRACT PRICE .....	29
ARTICLE 3 .....	29
CONTRACT .....	29
<b>PERFORMANCE AND PAYMENT BOND (OR BONDS).....</b>	<b>31</b>
<b>NOTICE OF AWARD .....</b>	<b>32</b>
<b>NOTICE TO PROCEED.....</b>	<b>33</b>
<b>CHANGE ORDER .....</b>	<b>34</b>
<b>CERTIFICATE OF OWNER'S AUTHORITY .....</b>	<b>35</b>
<b>CERTIFICATE OF OWNER'S FINANCIAL OFFICER .....</b>	<b>36</b>
<b>SEAL: CONFLICT OF INTEREST .....</b>	<b>36</b>
<b>SPECIAL TERMS PERTAINING TO HAZARDS, SAFETY STANDARDS .....</b>	<b>38</b>
<b>AND ACCIDENT PREVENTION .....</b>	<b>38</b>
<b>SPECIAL EQUAL OPPORTUNITY PROVISIONS .....</b>	<b>38</b>
<b>CERTIFICATION OF BIDDER REGARDING EQUAL EMPLOYMENT OPPORTUNITY .....</b>	<b>48</b>
CONTRACTOR'S CERTIFICATION .....	48
<b>CERTIFICATION OF PROPOSED SUBCONTRACTOR REGARDING .....</b>	<b>49</b>
<b>EQUAL EMPLOYMENT OPPORTUNITY .....</b>	<b>49</b>
<b>CERTIFICATION OF COMPLIANCE WITH AIR AND WATER ACTS .....</b>	<b>50</b>
<b>A REPRINT OF THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT'S .....</b>	<b>51</b>
<b>FEDERAL LABOR STANDARDS PROVISIONS, HUD-4010 DATED 2/84 (REVISED) .....</b>	<b>51</b>
<b>CERTIFICATE OF COMPLIANCE WITH FEDERAL LABOR STANDARDS PROVISIONS .....</b>	<b>57</b>
<b>CONTRACTOR'S CERTIFICATION .....</b>	<b>58</b>
<b>CONCERNING LABOR STANDARDS AND PREVAILING WAGE REQUIREMENTS .....</b>	<b>58</b>
<b>SUBCONTRACTOR'S CERTIFICATION .....</b>	<b>60</b>
<b>CONCERNING LABOR STANDARDS AND PREVAILING WAGE REQUIREMENTS .....</b>	<b>60</b>
<b>APPENDIX A- BID SPECIFICATIONS .....</b>	<b>62</b>
<b>APPENDIX B-PREVALING WAGE RATES .....</b>	<b>64</b>



# NOTICE TO CONTRACTORS

Sealed proposals for the Noble County Caldwell Exempted Village School District will be received by the Noble County Commissioners at their office at 260 Courthouse Caldwell, Ohio 43724 until 3:00 p.m. on Wednesday July 5, 2023, and then at 3:15 p.m. at Noble County Commissioners office located said office opened and read aloud.

## → See Specifications Attached

Plans, specifications and bid forms may be secured at the office of the Buckeye Hills Regional Council 1400 Pike Street Marietta OH 45750 or by email kdunn@buckeyehills.org

Bid Guaranty see page 7.

Bids shall be sealed and marked as Bid for: Noble County Caldwell Exempted Village School District and mailed or delivered to:

Noble County Commissioners  
260 Courthouse  
Caldwell, Ohio 43724

# Instruction to Bidders

## Receipt and Opening of Bids

The Noble County Commissioners (herein called the "Owner"), invites bids on the form attached hereto, all blanks of which must be appropriately filled in. Bids will be received by the Noble County Commissioners at the office of 260 Courthouse Caldwell, Ohio 43724 until 3:00 p.m. on Wednesday July 5, 2023, and then at 3:15 p.m. July 5, 2023 at the Noble County Commissioners office located 260 Courthouse, Caldwell, OH 43724 publicly opened and read aloud. The envelopes containing the bids must be sealed, addressed to Noble County Commissioners at 260 Courthouse Caldwell, Ohio 43724 and designated as Bid for the Noble County Caldwell Exempted Village School District.

**The Owner may consider informal any bid not prepared and submitted in accordance with the provisions hereof and may waive any informalities or reject any and all bids.** Any bid may be withdrawn prior to the above scheduled time for the opening of bids or authorized postponement thereof. Any bid received after the time and date specified shall not be considered.

## Preparation of Bid

Bids submitted pursuant to sections [307.86](#) to [307.92](#) of the Revised Code shall be in a form prescribed by the contracting authority and filed in a sealed envelope at the time and place mentioned in the advertisement. The bids received shall be opened and tabulated at the time stated in the notice. Each bid shall contain the full name of each person submitting the bid. Except as otherwise provided in division (B) of this section, if the bid is in excess of ten thousand dollars and for a contract for the construction, demolition, alteration, repair, or reconstruction of an improvement, it shall meet the requirements of section [153.54](#) of the Revised Code. If the bid is in excess of ten thousand dollars and for any other contract authorized by sections [307.86](#) to [307.92](#) of the Revised Code, it shall be accompanied by a bond or certified check, cashier's check, or money order on a solvent bank or savings and loan association in a reasonable amount stated in the advertisement but not to exceed five per cent of the bid, conditioned that he shall, if his bid is accepted, execute a contract in conformity to the invitation and his bid.

(B) The board of county commissioners may, by a unanimous vote of the entire board, permit a contracting authority to exempt a bid from any or all of the requirements of section [153.54](#) of the Revised Code if the estimated cost is less than twenty-five thousand dollars. If the board exempts a bid from any but not all of these requirements, the bid notice published in the newspaper pursuant to section [307.87](#) of the Revised Code shall state the specific bid guaranty requirements that apply. If the board exempts a bid from all requirements of section [153.54](#) of the Revised Code, the notice shall state that none of the requirements of that section apply.

## Method of Bidding

The Owner invites lump sum bid as indicated in the Bid Form.

If the lowest total responsive bid received exceeds the amount of funds available to finance the contract, the Owner may:

1. Reject all bids;
2. Augment the funds available in an amount sufficient to enable award to the lowest responsive bidder;
3. Take the base bid less a number of items as listed on the proposal form as to produce a net amount which is within available funds.

### **Qualifications of Bidder**

The Owner may make such investigations as he/she deems necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish the Owner all such information and data for this purpose as the Owner may request. The Owner reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to satisfy the Owner that such bidder is properly qualified to carry out the obligations of the contract and to complete the work contemplated therein. Conditional bids will not be accepted.

### **Bid Guaranty**

§ 153.54 Bid guaranty to be filed with bid. -- for projects involving improvements or public improvements contracted for after January 1, 1992.

### **Text of Statute**

(A) Each person bidding for a contract with the state or any political subdivision, district, institution, or other agency thereof, excluding therefrom the department of transportation, for any public improvement shall file with the bid, a bid guaranty in the form of either:

- (1) A bond in accordance with division (B) of this section for the full amount of the bid;
- (2) A certified check, cashier's check, or letter of credit pursuant to Chapter [1305](#) of the Revised Code, in accordance with division (C) of this section. Any such letter of credit is revocable only at the option of the beneficiary state, political subdivision, district, institution, or agency. The amount of the certified check, cashier's check, or letter of credit shall be equal to ten per cent of the bid.

(B) A bid guaranty filed pursuant to division (A)(1) of this section shall be conditioned to:

(1) Provide that, if the bid is accepted, the bidder, after the awarding or the recommendation for the award of the contract, whichever the contracting authority designates, will enter into a proper contract in accordance with the bid, plans, details, specifications, and bills of material. If for any reason, other than as authorized by section [9.31](#) of the Revised Code or division (G) of this section, the bidder fails to enter into the contract, and the contracting authority awards the contract to the next lowest bidder, the bidder and the surety on the bidder's bond are liable to the state, political subdivision, district, institution, or agency for the difference between the bid and that of the next lowest bidder, or for a penal sum not to exceed ten per cent of the amount of the bond, whichever is less. If the state, political subdivision, district, institution, or agency does not award the contract to the next lowest bidder but resubmits the project for bidding, the bidder failing to enter into the contract and the surety on the bidder's bond, except as provided in division (G) of this section, are liable to the state, political subdivision, district, institution, or agency for a penal sum not to exceed ten per cent of the amount of the bid or the costs in connection with the resubmission of printing new contract documents, required advertising, and printing and mailing notices to prospective bidders, whichever is less.

(2) Indemnify the state, political subdivision, district, institution, or agency against all damage suffered by failure to perform the contract according to its provisions and in accordance with the plans, details, specifications, and bills of material therefor and to pay all lawful claims of subcontractors, materialmen, and laborers for labor performed or material furnished in carrying forward, performing, or completing the contract; and agree and assent that this undertaking is for the benefit of any subcontractor, materialman, or laborer having a just claim, as well as for the state, political subdivision, district, institution, or agency.

(C)(1) A bid guaranty filed pursuant to division (A)(2) of this section shall be conditioned to provide that if the bid is accepted, the bidder, after the awarding or the recommendation for the award of the contract, whichever the contracting authority designates, will enter into a proper contract in accordance with the bid, plans, details, specifications, and bills of material. If for any reason, other than as authorized by section [9.31](#) of the Revised Code or division (G) of this section, the bidder fails to enter into the contract, and the contracting authority awards the contract to the next lowest bidder, the bidder is liable to the state, political subdivision, district, institution, or agency for the difference between the bidder's bid and that of the next lowest bidder, or for a penal sum not to exceed ten per cent of the amount of the bid, whichever is less. If the state, political subdivision, district, institution, or agency does not award the contract to the next lowest bidder but resubmits the project for bidding, the bidder failing to enter into the contract, except as provided in division (G) of this section, is liable to the state, political subdivision, district, institution, or agency for a penal sum not to exceed ten per cent of the amount of the bid or the costs in connection with the resubmission, of printing new contract documents, required advertising, and printing and mailing notices to prospective bidders, whichever is less.

If the bidder enters into the contract, the bidder, at the time the contract is entered to, shall file a bond for the amount of the contract to indemnify the state, political subdivision, district, institution, or agency against all damage suffered by failure to perform the contract according to its provisions and in accordance with the plans, details, specifications, and bills of material therefor and to pay all lawful claims of subcontractors, materialmen, and laborers for labor performed or material furnished in carrying forward, performing, or completing the contract; and agree and assent that this undertaking is for the benefit of any subcontractor, materialman, or laborer having a just claim, as well as for the state, political subdivision, district, institution, or agency.

(2) A construction manager who enters into a contract pursuant to sections [9.33](#) to [9.333](#) [9.33.3] of the Revised Code, if required by the public owner at the time the construction manager enters into the contract, shall file a letter of credit pursuant to Chapter [1305](#) of the Revised Code, bond, certified check, or cashier's check, for the value of the construction management contract to indemnify the state, political subdivision, district, institution, or agency against all damage suffered by the construction manager's failure to perform the contract according to its provisions, and shall agree and assent that this undertaking is for the benefit of the state, political subdivision, district, institution, or agency. A letter of credit provided by the construction manager is revocable only at the option of the beneficiary state, political subdivision, district, institution, or agency.

(D) Where the state, political subdivision, district, institution, or agency accepts a bid but the bidder fails or refuses to enter into a proper contract in accordance with the bid,



plans, details, specifications, and bills of material within ten days after the awarding of the contract, the bidder and the surety on any bond, except as provided in division (G) of this section, are liable for the amount of the difference between the bidder's bid and that of the next lowest bidder, but not in excess of the liability specified in division (B)(1) or (C) of this section. Where the state, political subdivision, district, institution, or agency then awards the bid to such next lowest bidder and such next lowest bidder also fails or refuses to enter into a proper contract in accordance with the bid, plans, details, specifications, and bills of material within ten days after the awarding of the contract, the liability of such next lowest bidder, except as provided in division (G) of this section, is the amount of the difference between the bids of such next lowest bidder and the third lowest bidder, but not in excess of the liability specified in division (B)(1) or (C) of this section. Liability on account of an award to any lowest bidder beyond the third lowest bidder shall be determined in like manner.

(E) Notwithstanding division (C) of this section, where the state, political subdivision, district, institution, or agency resubmits the project for bidding, each bidder whose bid was accepted but who failed or refused to enter into a proper contract, except as provided in division (G) of this section, is liable for an equal share of a penal sum in connection with the resubmission, of printing new contract documents, required advertising, and printing and mailing notices to prospective bidders, but no bidder's liability shall exceed the amount of the bidder's bid guaranty.

(F) All bid guaranties filed pursuant to this section shall be payable to the state, political subdivision, district, institution, or agency, be for the benefit of the state, political subdivision, district, institution, or agency or any person having a right of action thereon, and be deposited with, and held by, the board, officer, or agent contracting on behalf of the state, political subdivision, district, institution, or agency. All bonds filed pursuant to this section shall be issued by a surety company authorized to do business in this state as surety approved by the board, officer, or agent awarding the contract on behalf of the state, political subdivision, district, institution, or agency.

(G) A bidder for a contract with the state or any political subdivision, district, institution, or other agency thereof, excluding therefrom the Ohio department of transportation, for a public improvement costing less than one-half million dollars may withdraw the bid from consideration if the bidder's bid for some other contract with the state or any political subdivision, district, institution, or other agency thereof, excluding therefrom the department of transportation, for the public improvement costing less than one-half million dollars has already been accepted, if the bidder certifies in good faith that the total amount of all the bidder's current contracts is less than one-half million dollars, and if the surety certifies in good faith that the bidder is unable to perform the subsequent contract because to do so would exceed the bidder's bonding capacity. If a bid is withdrawn under authority of this division, the contracting authority may award the contract to the next lowest bidder or reject all bids and resubmit the project for bidding, and neither the bidder nor the surety on the bidder's bond are liable for the difference between the bidder's bid and that of the next lowest bidder, for a penal sum, or for the costs of printing new contract documents, required advertising, and printing and mailing notices to prospective bidders.

(H) Bid guaranties filed pursuant to division (A) of this section shall be returned to all unsuccessful bidders immediately after the contract is executed. The bid guaranty filed

pursuant to division (A)(2) of this section shall be returned to the successful bidder upon filing of the bond required in division (C) of this section.

(I) For the purposes of this section, "next lowest bidder" means, in the case of a political subdivision that has adopted the model Ohio and United States preference requirements promulgated pursuant to division (E) of section [125.11](#) of the Revised Code, the next lowest bidder that qualifies under those preference requirements.

**(J) For the purposes of this section and sections 153.56, 153.57, and 153.571 [153.57.1] of the Revised Code, "public improvement," "subcontractor," "materialman," "laborer," and "materials" have the same meanings as in section [1311.25](#) of the Revised Code Examination of Site**

Each bidder shall, and is hereby directed to inspect the entire site of the proposed work and judge for himself/herself as to all the circumstances affecting the cost and progress of the work and shall assume all patent and latent risks in connection therewith.

### **Soil Conditions**

Subject to the convenience of the Owners, prospective bidders will be permitted to explore the site by making borings or digging test pits. In such events, the work shall be done at the sole expense and risk of the bidder, and he/she shall maintain and restore the site to original conditions.

The Owner does not have to guarantee the accuracy of any information or samples which it may have obtained from test borings or otherwise as to the kind or condition of the soil that may be encountered in the prosecution of the proposed work, neither does the Owner represent that the plans and specifications drawn are based upon any data so obtained. The Owner does not make any representation as to the soil which may be encountered or of soil or water which underlies the work or is adjacent thereto, including any difficulties that may be due to quicksand, or other unfavorable conditions that may be encountered in the work, whether apparent under surface inspection or disclosed in the process of carrying forward the work.

### **Working Facilities**

The plans show, in the general manner, the existing structures and the land available for construction purposes. The bidders must satisfy themselves of the conditions and difficulties that may be encountered in the execution of the work at this site.

### **Addenda and Interpretations**

No official interpretation of the meaning of the plans, specifications or other pre-bid documents will be made to any bidder orally.

Every request for such interpretation should be made in writing addressed to [Kate Dunn](#) [kdun@buckeyehills.org](mailto:kdun@buckeyehills.org) and to be given consideration, must be received at least five (5) days prior to the date fixed for the opening of bids. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the specifications which, if issued, will be mailed by certified mail with return receipt requested to all prospective bidders (at the respective addresses furnished for such purpose), not later than three (3) days prior to the date fixed for the opening of bids. Failure of any bidder to receive any such addendum or interpretation shall not relieve the bidder from any obligation under his/her bid as submitted. All addenda so issued shall become part of the contract documents.

## **Water Supply**

All water for construction purposes, as well as the expense of having water conveyed about the work, must be provided by the Contractor and the cost of this work shall be included in the unit prices stipulated for the various items of the work to be done under this contract.

The source, quality and quantity of water furnished shall at all times be satisfactory to the Engineer.

## **Signature of Bidders**

The firm, corporate or individual name of the bidder must be signed in ink in the space provided for the signatures on the proposed blanks. In the case of a corporation, the title of the officer signing must be stated and such officer must thereunto duly authorized and the seal of said corporation duly affixed. In case of a partnership, the signature of at least one of the partners must follow the firm name, using the term "member of the firm". In the case of an individual, use the terms "doing business as", or "sole owner". The bidder shall further state in his/her proposal the name and address of each person or corporation interested therein.

## **Notice of Special Terms**

Attention of the bidder is particularly called to those parts of the General Contract Terms and other contract documents and specifications, which deal with the following:

- a. Insurance requirements
- b. Federal Labor Standards Provisions, including Davis-Bacon wage rates
- c. Requirement for a performance bond for 100% of contract price
- d. Requirement that all subcontractors be approved by the Owner
- e. Safety standards
- f. Contractor's responsibility to obtain permits
- g. Affirmative action and Equal opportunity provisions
- h. Contractor's responsibility for compliance with accessibility requirements

## **Additional Obligations Upon Contract Award**

Upon award of the contract but prior to execution of the final agreement and notice to proceed, the contractor shall submit all of the following documents, completed as required:

- a. Acceptance of Notice Award
- b. Contract
- c. Insurance certificate(s) and/or policy(ies)
- d. (If over \$10,000) Contractor's Section 3 Plan
- e. (If over \$10,000) Certification of Bidder regarding Equal Employment Opportunity
- f. (If over \$10,000) Certification(s) by (all) proposed Subcontractors regarding Equal Employment Opportunity
- g. Certification of Bidder Regarding Section 3 and Segregated Facilities
- h. Certification of (all) Proposed Subcontractor(s) Regarding Section 3 and Segregated Facilities
- i. (If over \$10,000) Certification by Contractor and Subcontractors of Compliance with Air and Water Acts
- j. Contractor's Certification concerning Labor Standards and Prevailing Wage Requirements
- k. (All) Subcontractor's certification(s) concerning Labor Standards and Prevailing Wage Requirements

## **Foreign Corporations and Contractors**

Definition: "Foreign Corporation" means a corporation incorporated under the laws of another state. No contract shall be entered into with a foreign corporation until the Secretary of State has certified that such corporation is authorized to do business in Ohio; and until, if the bidder so awarded the Contract is a person or partnership, it has filed with the Secretary of State a Power of Attorney designating the Secretary of State as its agent for the purpose of accepting service summons in any actions brought

under Section 153.05 of the Ohio Revised Code or under Sections 4123.01 to 4123.94, inclusive of the Revised Code.

## **GENERAL CONTRACT TERMS**

### **ARTICLE 1 - CONTRACT AND CONTRACT DOCUMENTS**

- A. The project to be constructed pursuant to this contract will be financed with assistance from the Department of Housing and Urban Development and is subject to all applicable Federal laws and regulations.
  - B. All applicable State laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout, and they will be deemed to be included in the contract the same as though herein written out in full. The Contractor is responsible for knowledge of all applicable laws, ordinances, rules and regulations that relate to the Project.
  - C. The Plans, Specifications and Addenda, hereinafter enumerated in Paragraph 1 of the Supplemental Instructions shall form part of this Contract and the provisions thereof shall be as binding upon the parties hereto as if they were herein fully set forth. The table of contents, titles, headings, running headlines and marginal notes contained herein and in said documents are solely to facilitate reference to various provisions of the Contract Documents and in no way affect, limit or cast light on the interpretation of the provisions to which they refer.
  - D. The fact that certain statutory or regulatory provisions are mentioned or are fully set forth in this Contract does not limit the Contractor's obligation to comply with all applicable laws and regulations as described above which may not be mentioned or set forth in this Contract.
- N
- E. All of documents described in Article 3 in the Contract on page 34 shall be part of the contract.

### **ARTICLE 2 - PERFORMANCE AND PAYMENT BONDS**

As a condition of entering into the contract, the successful bidder shall furnish the bond provided by Revised Code section 153.57 with good and sufficient surety in the amount of the bid price and condition ed on the faithful performance of all things to be done under the contract.

### **ARTICLE 3 - WAGE RATES**

In the event that the rate of wages paid for any trade or occupant in the locality where such work is being performed are under current collective agreements or understanding between bona fide organizations of labor and employer, then the wages to be paid shall be not less than such agreed wage rates, nor less than the minimum rates compiled by the Federal Labor Standard Provision. A copy of these prevailing rates of wages has been included in these specifications.

Every Contractor and Subcontractor who is subject to this contract shall, as soon as he/she begins performance under his/her contract with the Owner, supply the Owner a schedule of the dates on which he/she is required to pay wages to employees. He/She shall also deliver to the prevailing wage coordinator within three weeks after each pay date, a certified copy of his/her payroll which shall exhibit for each employee paid any wages, name, current address, social security number, number of hours worked each day of the pay period and the total for each week, hourly rate of pay, job classification, fringe payments, and deductions from wages. The certification of each payroll shall be executed by the Contractor, Subcontractor, or duly appointed agent thereof and shall recite that the payroll is correct and complete and that the wage rate show is not less than those required by the contract.

**Insofar as possible, local labor shall be employed on this work**

## **ARTICLE 4 - AFFIRMATIVE ACTION**

Each bidder, Contractor or Subcontractor (hereinafter the Contractor) must fully comply with either Part I or Part II, as applicable of Executive Order 11246 as stated on page G-3 during the performance of this contract or subcontract. The Contractor commits itself to the goals for minority manpower utilization in either Part I or Part II, as applicable, and all other requirements, terms and conditions of this document by submitting a properly signed bid.

The Contractor shall appoint a company executive to assume the responsibility for the implementation of the requirements, terms and conditions of these bid conditions.

## **ARTICLE 5 - INSURANCE**

- A. The Contractor shall not commence work under this Contract until he/she has obtained all of the insurance required hereunder and the Owner has approved such insurance, nor shall the Contractor allow any Subcontractor to commence work on his subcontract until all similar insurance required of the Subcontractor has been so obtained and approved. Approval of the insurance by the Owner shall not relieve or decrease the liability of the Contractor hereunder. The Noble County Commissioners and the **Caldwell Exempted Village School District** shall be named as additional insured
- B. The Contractor shall file with the Owner all Certificates of Insurance as are necessary to document the insurance coverage required hereunder, subject to the approval of the Owner and receipt of any additional forms/documentation requested, prior to final execution of the Agreement Contract and issuance of the Notice to Proceed.
- C. **Worker's Compensation.** All contractors and subcontractors shall acquire and maintain, during the term of the Contract, Worker's Compensation insurance in full compliance with the laws of the State of Ohio.
- D. **Contractor's Liability Insurance**
  - (i) The Contractor shall acquire and maintain during the term of the Contract Bodily Injury and Property Damage Liability Insurance under a standard Comprehensive General/Automobile Liability Policy which shall provide and include coverage on all Contractor's Operations, Contractor's Protective (Sublet) Liability, Contractual

Liability, Completed Operations Liability, Owned Automobiles and Non-owned and Hired Automobiles.

- (ii) Property Damage Liability Insurance shall be provided on any demolition, blasting, excavating, shoring or similar operation on an "if any" basis.
  - (iii) Bodily Injury Liability limits shall be for an amount of no less than Two Hundred and fifty Thousand (\$250,000) Dollars for injuries, including wrongful death to any one person and subject to the same limit for each person, in the amount of not less than Five Hundred Thousand (\$500,000) Dollars on the account of any one occurrence.
  - (iv) Property Damage Liability Insurance shall be in an amount of not less than One Hundred Thousand (\$100,000) Dollars per occurrence. General Liability shall be extended to provide "Broad Form Property Damage Liability," and in an amount of not less than One Million (\$1,000,000) Dollars aggregate for damage on account of all occurrences.
  - (v) Any combination of underlying Comprehensive General/ Automobile Liability coverage with Umbrella/Excess Liability coverage which provides no less than One Million (\$1,000,000) Dollars Single Limit Bodily Injury & Property Damage Liability Insurance for the Contractor will also be acceptable.
  - (vi) The owner may adjust the liability limits to coincide with local government procurement policies and practice within the limits of state and local law.
- E. **Builder's Risk Insurance.** Each Contractor shall maintain insurance to protect himself and the owner, jointly, from loss incurred by fire, lightning, extended coverage hazards, vandalism, theft, explosion and malicious mischief in the full amount of the Contract and such insurance shall cover all labor and materials connected with the work, including materials delivered to the site but not yet installed.
- F. **Installation Floater Insurance.** When a Contractor is involved solely in the installation of materials and not in the construction of a building, an Installation Floater is required in lieu of a Builder's Risk Policy with the same general terms applying as set forth in paragraph E.
- G. The Policies as listed above shall all contain the following special provisions:
- (i) "The Company agrees that thirty (30) days prior to cancellation or reduction of the insurance afforded by this policy with respect to the Contract involved, written notice will be mailed to the Noble County Commissioners."
  - (ii) The maintaining of such insurance as outlined herein shall in no way constitute a waiver of legal liability for damage to any adjoining buildings or their contents or the work and property of others on the site beyond the limits of insurance thus maintained. The Contractor shall hold the Owner free and harmless from any injury and damage resulting from the negligent or faulty performance of the Contract by the Contractor or by his/or her Subcontractors.
  - (iii) Each Contractor shall hold the Owner harmless from all payments for patents, either as royalty or otherwise, in the use of materials, methods, appliances, etc., that he may be in any way involved in or connected with any part of his work or the work of his Subcontractors.
  - (iv) Prior to commencement of any work under Contract, the Contractors shall furnish one (1) copy of Declaration of Insurance as evidence of coverage.

- (v) The Noble County Commissioners and the **Caldwell Exempted Village School District** shall be named as additional insured. The Contractor shall either (1) require each of his subcontractors to procure and to maintain during the life of his subcontract, Subcontractor's Public Liability and Property Damage of the type and in the same amounts as specified in the preceding paragraph or (2) insure the activities of his subcontractors in his own policy.

## **ARTICLE 6 – SAFETY AND SITE PROTECTION, CLEAN-UP AND RESTORATION**

- A. The Contractor will be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the Work. He/She will take all necessary precautions for the safety of, and will provide the necessary protection to prevent damage, injury, or loss to all employees on the work and other persons who may be affected thereby, all the work and all materials or equipment to be incorporated therein, whether in storage on or off the site, and other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction. The Contractor shall, at his own expense, support and protect all buildings, bridges, conduits, wires, water pipes, gas pipes, sewers, pavements, curbing, sidewalks, equipment and fixtures of all kinds and all other public or private property, whether of this or another contract, that may be encountered or endangered in the course of work on the Project that are not otherwise provided for.
- B. The Contractor will erect and maintain, as required by the terms and progress of the Work, all necessary safeguards for safety protection. He/She will notify owners of adjacent utilities when prosecution of the work may affect them.
- C. The Contractor shall comply with the safety standards provisions of applicable laws, building and construction codes and the "Manual of Accident Prevention in Construction" published by the Associated General Contractors of America, the requirements of the Occupational Safety and Health Act of 1970 (Public Law 91-596), and the requirements of Title 29 of the Code of Federal Regulations, Section 1518 as published in the "Federal Register", Volume 36, No. 75, Saturday, April 17, 1971. The Contractor shall also comply with Chapter 4101:9-2 of the Ohio Revised Code prohibiting the Employment of Minors in Occupations Hazardous or Detrimental to their health.
- D. The Contractor shall maintain at his/her office or other well-known place at the job site, all articles necessary for giving first aid to the injured, and shall make standing arrangements for the immediate removal to a hospital or a doctor's care of persons (including employees) who may be injured at the job site. In no case shall employees be permitted to work at the job site before the employer has made a standing arrangement for removal of injured persons to a hospital or a doctor's care.
- E. Lights, signs and barricades shall be used to maintain traffic and safety for vehicular and pedestrian traffic during the course of this contract in accordance with the specifications.
- F. The Contractor is responsible for adhering to ORC 153.64 "Protection of underground utility facilities during construction of public improvement; registration of protection services"

- G. The Contractor shall repair and make good any damage caused to such property by reason of his operations, leaving all work in a condition at the completion of the contract which will be acceptable to the Owner.

Upon completion of the work all surfaces disturbed during the work shall be restored in a satisfactory manner, and all tools, plant and equipment, and other property belonging to the Contractor, shall be removed and the site of the work left clear, and in the condition equal to that existing prior to the beginning of work under the Contract, except for the completed Project.

## **ARTICLE 7 - PERMITS**

The Owner is responsible for obtaining and paying for the following permits: None  
The Contractor is responsible for obtaining and paying for all other necessary permits and licenses from the proper authorities. The Contractor shall give all notices and comply with all laws, ordinances, rules, and regulations bearing on the conduct of the work as drawn and specified. If the Contractor observes that the Contract Documents are at variance therewith, he/she shall promptly notify the Owner in writing.

## **ARTICLE 8 - SUPERVISION**

- A. The Contractor will supervise and direct the work. He will be solely responsible for the means, methods, techniques, sequences, and procedures of construction. The Contractor will employ and maintain on the work a qualified supervisor or superintendent who shall have been designated in writing by the Contractor as the Contractor's representative at the site. The Supervisor shall have full authority to act on behalf of the Contractor and communications given to the supervisor shall be as binding as if given to the Contractor. The supervisor shall be present and on the site at all times as required to perform adequate supervision and coordination of the work.
- B. The Owner and its representatives will at all times have access to the work. In addition, authorized representatives and agents of any participating federal or state agency shall be permitted to inspect all work, materials, payrolls, records of personnel, invoices of materials, and other relevant data and records. The Contractor will provide proper facilities for such access and observation of the work and also for any inspection or testing thereof.
- C. The Contractor shall submit a proposed program of operation, showing clearly how he/she proposed to conduct the work as to bring about the completion of his/her work within the time limit specified. This program shall outline the proposed sequence of operations, the rates of progress and the dates when his/her work will be sufficiently advanced to permit the installation of the work under other contracts, and the estimated progress payments due under the Contract. The work under this contract shall be so scheduled that as structures are completed, they can be placed into useful operation with a minimum of delay. The program shall be subject to the approval of the Owner.
- D. All construction as proposed along all City, Township, County, State and Federal roads including storage and stockpiling of materials, is to be conducted within the



limits of the public right-of-way. Bracing, sheeting and shoring shall be used to keep all construction work within the construction limits unless work agreements are secured from the adjacent property Owners. It is the Contractor's responsibility to secure these work agreements, if deemed necessary. It is Contractor responsibility to maintain traffic safely. Copies of the work agreements shall be delivered to the Engineer and the Owner prior to any work beginning on the effected property.

## **ARTICLE 9 - CLAIMS AGAINST CONTRACTOR**

The Contractor shall indemnify and save the Owner or the Owner's agents harmless from all claims growing out of the lawful demands of Subcontractor's laborers, workmen, mechanics, materialmen, and furnishers of machinery and parts thereof, equipment, tools, and all supplies, incurred in the furtherance of the performance of the work. The Contractor shall, at the Owner's request, furnish satisfactory evidence that all obligations of the nature designated above have been paid, discharged, or waived. If the Contractor fails to do so the Owner may, after having notified the Contractor, either pay unpaid bills or withhold from the Contractor's unpaid compensation a sum of money deemed reasonably sufficient to pay any and all such lawful claims until satisfactory evidence is furnished that all liabilities have been fully discharged whereupon payment to the Contractor shall be resumed, in accordance with the terms of the Contract Documents, but in no event shall the provisions of this sentence be construed to impose any obligations upon the Owner to either the Contractors, his Surety, or any third party. In paying any unpaid bills of the Contractor, any payment so made by the Owner shall be considered as a payment made under the Contract Documents by the Owner to the Contractor and the Owner shall not be liable to the Contractor for any such payments in good faith.

## **ARTICLE 10 - SUBCONTRACTING**

- A. Neither the Contractor nor the Owner shall sell, transfer, assign, or otherwise dispose of the Contract or any portion thereof, or of his right, title, or interest therein, or his obligations thereunder.
- B. The Contractor shall not sublet, sell, transfer or assign any portion of the contract without written consent of the Owner or his/her designated agent. When such consent is given, the Contractor will be permitted to sublet a portion thereof, but shall perform with his/her own organization, work amounting to no less than fifty percent of the total contract cost, except that any item designated in the contract before computing the amount of work required to be performed by the Contractor with his/her own organization. No subcontract, or transfer of contract, shall in any way release the Contractor of his/her liability under the contract and bonds.
- C. The Contractor shall not award work to Subcontractor(s) without prior written approval of the Owner, after verification by the Ohio Department of Development of the subcontractor's current eligibility status, and after submission of all certifications as required in Item 17-page B-5 of INSTRUCTIONS TO BIDDERS. The Contractor shall be fully responsible to the Owner for the acts and omissions of the Subcontractor(s), and of persons either directly or indirectly employed by them, as he is for the acts and omissions of persons directly employed by him.

## **ARTICLE 11 - CHANGE OF WORK**

- A. The Owner reserves the right to make, at any time during the progress of the work, such increases or decreases in quantities and such alterations in details of work as

may be deemed necessary or desirable. Such increases or decreases and alterations shall not invalidate the contract nor release the surety, and the Contractor agrees to perform the work as altered, the same as if it had been a part of the original contract.

- B. Authorized alterations in plans or quantities of work involving work not covered by unit prices in the proposal shall be paid for as stipulated in the change order authorizing such work.
- C. No changes in work covered by the approved Contract shall be made without having prior written approval of the Owner.

## **ARTICLE 12 - TIME**

- A. The Date of beginning and the time for completion of the work are essential terms of the Contract Documents and the work embraced shall be commenced on a date specified in the Notice to Proceed.
- B. The Contractor will proceed with the work at such rate of progress to ensure full completion within the Contract Time. It is expressly understood and agreed, by and between the Contractor and the Owner, that the Contract Time for the completion of the work described herein is a reasonable time, taking into consideration the average climatic and economic conditions and other factors prevailing in the locality of the work.
- C. The Contract Time to fully complete the project shall be scheduled and approved with the Superintendent of Caldwell Exempted Village School District, Greg Gifford following the date of commencement of work to be specified in a written "Notice to Proceed".
- D. If the Contractor shall fail to complete the work within the Contract Time, or extension of time granted by the Owner, the Contractor will pay to the Owner for liquidated damages \$100.00 for each calendar day that the Contractor shall be in default after the time stipulated in the Contract Documents.

## **ARTICLE 13 - COMPLETION OF WORK**

- A. The Contractor shall guarantee all materials and equipment furnished and work performed for a period of one year from the date of Substantial Completion. The Contractor warrants and guarantees for a period of one year from the date of Substantial Completion of the improvement that it is free from all defects due to faulty materials or workmanship, and the Contractor shall promptly make corrections as may be necessary by reason of such defects. The Owner will give notice of observed defects with reasonable promptness. In the event that the Contractor should fail to make repairs, adjustments, or other work which may be made necessary by such defects, the Owner may do so and charge the Contractor the cost thereby incurred. The Contract Bond shall remain in full force and effect through the guarantee period.
- B. When the work, including that performed by Subcontractors, is completed, the site shall be cleaned of all rubbish and debris caused by the construction. All sheds or

other temporary structures, surplus materials, and equipment shall be removed and the project left in a neat and presentable condition.

## **ARTICLE 14 - TERMINATION**

After ten (10) days from delivery of a Written Notice to the Contractor, the Owner may, without cause and without prejudice to any other right or remedy elect to terminate the Contract. In such case the Contractor shall be paid for all work executed and any expense sustained plus reasonable profit, unless such termination was due to the act or conduct of the Contractor.

## **ARTICLE 15 - PAYMENT**

Where applicable, the unit or lump sum price stated in the contract shall be used in determining the amount to be paid and shall constitute full and final compensation for all the work.

Partial payment to the contractor for work performed under the lump sum price shall be based on a schedule prepared by the contractor and approved by the architect or engineer who shall apportion the lump sum price to the major components entering into or forming a part of the work under the lump sum price.

Partial payment to the contractor for labor performed under either a unit or lump sum price contract shall be made at the rate on ninety-two percent of the estimates prepared by the contractor and approved by the architect or engineer. All labor performed after the job is fifty percent completed shall be paid for at the rate of one hundred percent of the estimates submitted by the contractor and approved by the architect or engineer.

If the time for awarding the contract is extended by mutual consent, or if the owner or its representatives fails to issue a timely notice to proceed as required by R.C. 153.12, the owner or its representative could possibly issue a change order authorizing delay costs to the contractor, which does not invalidate the contract. The amount of the change order to the owner shall be determined in accordance with the provision of the contract for change orders or force accounts or, if no such provision is set forth in the contract, the cost to the owner shall be the contractor's actual costs including wages, labor costs other than wages, wage taxes, materials, equipment cost and rentals, insurance, and subcontracts attributable to the delay, plus a reasonable sum for overhead

At the time named in the contract for payment to the person with whom it is made, the Architect and/or consultant shall assist the owner in approving a full, accurate, and detailed estimate of the various kinds labor performed and material furnished under the contract, with the amount due for each kind of labor and material and the materials and amount due in the aggregate, which estimate shall be based upon actual measurement of such labor and materials and shall give the amount of the preceding estimate shall be based upon actual measurements of such labor and materials, and shall give the amount of the preceding estimate, and the amount of labor performed and material furnished since the last estimate.

From the date the contract is fifty percent complete, as evidenced by payments in the amount of at least fifty percent of the contract to the person with whom the owner has

contracted, all funds retained for the faithful performance of work shall be deposited in an escrow account as designated in section 153.63 of the Revised Code. After the contract is fifty percent complete, no further funds shall be retained.

When the major portion of the project is substantially completed and occupied, or in use, or otherwise accepted, and there exists no other reason to withhold retainage, the retained percentages held in connection with such portion shall be released from escrow and paid the contractor, withholding only that amount necessary to assure completion. Funds in the escrow account nor heretofore paid, with accumulation interest, shall be paid to the person with whom the owner has contracted thirty days (30) from the date of the completion or either acceptance or occupancy by the owner. Such payments shall be in accordance with division (A)(2) of section 153.63 of the Revised Code.

In addition to all other payments on account of work performed, there shall be allowed by the owner and paid to contractor a sum at the rate of ninety-two percent of the invoice costs, not to exceed the bid price in a unit price contract, of material delivered on the site of the work, or a railroad station, siding, or other point in the vicinity of the work, or other approved storage site, provided such materials have been inspected and found to meet the specifications. The balance of such invoiced value shall be paid when such material is incorporated into and becomes a part of such building, construction, addition, improvement, alteration, or installation. When an estimate is allowed on account of material delivered on the site of the work or in the vicinity thereof or under the possession and control of the contractor but not yet incorporated therein, such materials shall become the property of the owner under the contract, but if such material is stolen, destroyed, or damaged by casualty before being used, the contractor shall be required to replace it at his own expense.

When the rate of work and amounts involved are so large that is considered advisable by the owner or contractor, estimates and payments shall be made twice each month.

Payments on approved estimates filed with the owner or its representative shall be made within thirty days. Upon the failure of the owner or its representative to make such payments within thirty days, or upon an unauthorized withholding of retainage, there shall be allowed to the contractor, in addition to any other remedies allowed by law, interest on such moneys not paid within thirty days. Interest on the unauthorized withholding of retainage shall be in addition to any interest earned in the escrow account set forth in section 153.13 of the Revised Code. The rate of such interest shall be the average of the prime rate established at the commercial banks in the city of over one hundred thousand population that is nearest the construction project.

## **ARTICLE 16- LIMITATION OF LIABILITY**

Contractor and     Noble County Commissioners     agree to indemnify and hold harmless the     Caldwell Exempted Village School District     and their successors and assigns from any liabilities or claims for damages, including those from third parties, arising from or related to this Contract other than for payment for the Work under the terms of the Contract. Both agree that the     Noble County Commissioners and Caldwell Exempted Village School District     liability under this Contract is limited to the payment of the Commissioners' share of the Contract price from the proceeds of the CDBG grant funds received by the     Noble County Commissioners     for the Project. Neither Noble County Commissioners and     Caldwell Exempted Village School District     nor the Contractor shall be entitled to any other remedy from the County Commissioners for breach of any terms herein;

# BID FOR LUMP SUM CONTRACTS

Place \_\_\_\_\_  
Date \_\_\_\_\_

Proposal of \_\_\_\_\_  
(Hereinafter called "Bidder") \* a corporation, organized and existing under the laws of  
the State of \_\_\_\_\_ \*\*, a partnership, or an individual doing business as

---

To the \_\_\_\_\_  
(Hereinafter called "Owner")

The Bidder, in compliance with your invitation for bids for the construction of a  
\_\_\_\_\_ Having examined the plans and  
specifications with related documents of the site of the proposed work, and being  
familiar with all the terms surrounding the construction of the proposed project including  
the availability of materials and labor, hereby proposes to furnish all labor, materials,  
and supplies, and to construct the project in accordance with the contract documents,  
within the time set forth therein, and at the prices stated below. These prices are to  
cover all expenses incurred in performing the work required under the contract  
documents, of which this proposal is a part.

Bidder hereby agrees to commence work under this contract on or before a date to be  
specified in the written "Notice to Proceed" of the Owner and to fully complete the  
project within \_\_\_\_\_ consecutive calendar days thereafter as stipulated in the  
specifications. Bidder further agrees to pay as liquidated damages, the sum of  
\$ \_\_\_\_\_ for each consecutive calendar day thereafter as hereinafter provided in  
the General Terms.

Bidder acknowledges the receipt of the following addendum:

---

---

---

\*Insert corporation, partnerships or individual as applicable.

\*\*Insert name of state

**BASE PROPOSAL:** Bidder agrees to perform all the \_\_\_\_\_ work described in the specifications and shown on the plans for the sum of \_\_\_\_\_ (\$\_\_\_\_\_). (Amount shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

**ALTERNATE PROPOSALS:**

Alternate No. 1:  
Deduct the sum of: \_\_\_\_\_ (\$ \_\_\_\_\_ )

Alternate No. 2:  
Deduct the sum of: \_\_\_\_\_ (\$ \_\_\_\_\_ )

Alternate No. 3:  
Deduct the sum of: \_\_\_\_\_ (\$ \_\_\_\_\_ )

Alternate No. 4:  
Deduct the sum of: \_\_\_\_\_ (\$ \_\_\_\_\_ )

**UNIT PRICES:**

For changing quantities of work items from those indicated by the contract drawings upon written instructions from the architect/engineer, the following unit prices shall prevail:

- 1. \_\_\_\_\_ \$ \_\_\_\_\_
- 2. \_\_\_\_\_ \$ \_\_\_\_\_
- 3. \_\_\_\_\_ \$ \_\_\_\_\_

The above unit prices shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for.

Bidder understands that the Owner reserves the right to reject any or all bids and to waive any informalities in the bidding.

The Bidder agrees that this bid shall be good and may not be withdrawn for a period of 30 calendar days after the scheduled closing time for receiving bids.

Upon receipt of written notice of the acceptance of this bid, Bidder will execute the formal contract attached within 10 days and deliver a Surety Bond or Bonds as required by the General Terms.

The bid security attached in the sum of

( \$ \_\_\_\_\_ )

is to become the property of the Owner in the event the contract and bond are not executed within the time above set forth, as liquidated damages for the delay and additional expense to the Owner caused thereby.

Respectfully Submitted:

By

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Business Address and Zip Code)

\_\_\_\_\_  
(Telephone Number)

(SEAL – if bid is by a corporation)

# CONTRACTOR'S PERSONAL PROPERTY TAX AFFIDAVIT

O.R.C. 5719.042

State of Ohio

County of \_\_\_\_\_, SS:

\_\_\_\_\_, being first duly sworn, deposes and says that  
(Name)

he is the \_\_\_\_\_ of \_\_\_\_\_  
(Title) (Contractor)

with offices located at \_\_\_\_\_,  
(Address of Contractor)

and as its duly authorized representative, states that effective this \_\_\_\_\_ day of  
\_\_\_\_\_, 20\_\_\_\_\_, \_\_\_\_\_  
(Name of Contractor)

( ) is charged with delinquent personal property taxes on the general list of personal property forth below:

County	Amount (includes total amount due, plus penalties and interest thereon)
_____	\$ _____

( ) is not charged with delinquent personal property taxes on the general list of personal property in \_\_\_\_\_ County.

\_\_\_\_\_  
\_\_\_\_\_  
(Affiant)

Sworn to and subscribed before me by the above-named affiant this \_\_\_\_\_ day of  
\_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
(Notary Public)  
My commission expires  
\_\_\_\_\_, 20\_\_\_\_\_



# BID GUARANTY AND PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENT, that we, the undersigned,  
\_\_\_\_\_ As Principal, are hereby held and  
firmly bound unto the \_\_\_\_\_ hereafter called the  
Obligee, in the penal sum of the dollar amount of the bid submitted by the Principal to the  
Obligee on \_\_\_\_\_ to undertake the project known as:

## **Caldwell Exempted Village School District Demo Project**

The penal sum referred to herein shall be the dollar amount of the principal's bid to the  
Obligee, incorporating any additive or deductive alternate proposals made by the Principal  
on the date referred to above to the Obligee, which are accepted by the Obligee. In no  
case shall the penal sum exceed the amount of \_\_\_\_\_. If this item is left blank, the penal  
sum will be the full amount of the principal's bid, including alternates. Alternatively, if  
completed, the amount stated must not be less than the full amount of the bid, including  
alternatives in dollars and cents. A percentage is not acceptable.

For the payment of the penal sum will and truly to be made, we hereby jointly and  
severally bind ourselves, our heirs, executors, administrators, successors, and assigns.

**THE CONDITION OF THE ABOVE OBLIGATION IS SUCH**, that whereas the above-  
named Principal has submitted a bid on the above referred to project;

**NOW, THEREFORE**, if the Obligee accepts the bid of the Principal and the Principal fails  
to enter into a proper contract in accordance with the bid, plans, details, specifications, and  
bills of material; and in the event the Principal pays to the Obligee the difference not to  
exceed ten percent of the penalty hereto between the amount specified in the bid and  
such larger amount for which the Obligee may in good faith contract with the next lower  
bidder to perform the work covered by the bid; or in the event the Obligee does not award  
the contract to the next lower bidder and resubmits the project for bidding, the Principal will  
pay the Obligee the difference, not to exceed five percent of the penalty hereof between  
the amount specified in the bid, or the costs, in connection with the resubmission, of  
printing new contract documents, required advertising and printing and mailing notices to  
prospective bidders, whichever is less, then this obligation shall be null and void, otherwise  
to remain in full force and effect. If the Obligee accepts the bid of the Principal and the  
Principal within ten days after the awarding of the contract, enters into a proper contract in  
accordance with the bid, plans, details, specifications, and bills of material, which said  
contract is made a part of this bond the same as though set forth herein; and

**IF THE SAID** Principal shall well and faithfully perform each and every condition of such  
contract; and indemnify the Obligee against all damage suffered by failure to perform such  
contract according to the provisions thereof and in accordance with the plans, details,  
specifications, and bills of material therefore; and shall pay all lawful claims of  
subcontractors, materialmen, and laborers, for labor performed and materials furnished in  
the carrying forward, performing, or completing of said contract: we agreeing and  
assenting that this undertaking shall be for benefit of any materialman or laborer having a  
just claim, as well as for the Obligee herein; then this obligation shall be void; otherwise  
the same shall remain in full force and effect; it being expressly understood and agreed

that the liability of the Surety for any and all claims hereunder shall in no event exceed the penal amount of this obligation as herein stated.

**THE SAID** Surety hereby stipulates and agrees that no modifications, omissions, or additions, in or to the terms of said contract or in or to the plans and specifications therefore shall in any way affect the obligations of said Surety on this bond, and it does hereby waive notice of any such modifications, omissions or additions to the terms of the contract or to the work or to the specifications.

**SIGNED AND SEALED** This    day of        2023.

\_\_\_\_\_ Principal

By: \_\_\_\_\_

Title: \_\_\_\_\_

\_\_\_\_\_ Surety

By: \_\_\_\_\_

Attorney-in-Fact

Surety Company Address:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Surety Agent's Name and Address

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# NONCOLLUSION AFFIDAVIT

State of OHIO

BID Identification

---

---

CONTRACTOR \_\_\_\_\_, being first duly sworn, deposes and says that he is \_\_\_\_\_ (sole owner, a partner, president, secretary, etc.) of \_\_\_\_\_, the party making the foregoing BID; that such BID is not made in the interest of or on behalf of any undisclosed person, partnership, company, association, organization, or corporation; that such BID is genuine and not collusive or sham; that said BIDDER has not directly or indirectly induced or solicited any other BIDDER to put in a false or sham BID, and has not directly or indirectly colluded, conspired, connived, or agreed with any BIDDER or any one else to put in a sham BID, or that any one shall refrain from bidding; that said BIDDER has not in any manner, directly or indirectly, sought by agreement, communication or conference with any one to fix the BID price of said BIDDER or of any other BIDDER, or to fix any overhead, profit, or cost element of such BID price, or of that of any other BIDDER, or to secure any advantage against the OWNER awarding the contract or anyone interested in the proposed contract; that all statements contained in such BID are true; and, further, that said BIDDER has not, directly or indirectly, submitted his bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid and will not pay any fee in connection therewith, to any corporation, partnership, company, association, organization, BID depository, or to any member or agent thereof, or to any other individual except to such person or persons as have a partnership or other financial interest with said BIDDER in his general business.

Signed:

---

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_,  
\_\_\_\_\_.

Seal of Notary:

---

## BONDING AND INSURANCE REQUIREMENTS

A state or local unit of government receiving a grant from the Federal government which requires contracting for construction of facility improvement shall follow its own requirements relating to bid guarantees, performance bonds, and payment bonds, except for contracts or subcontracts exceeding \$100,000. For contracts or subcontracts exceeding \$100,000, the Federal agency may accept the bonding policy and requirements of the grantee provided the Federal agency has made a determination that the Government's interest is adequately protected. If such a determination has not been made, the minimum requirements shall be as follows:

- a. **A Bid Guarantee Bond in an amount equal to one hundred percent (100%) of the bid price or a Certified Check, Cashier's Check or Letter of Credit in an amount not less than ten percent (10%) of the bid price.** The bid guaranty is a negotiable instrument accompany a bid as assurance that the accepted bidder will enter into a proper contract in accordance with the bid, plans, details, specifications, and bills of materials.
- b. **A Performance Bond on the part of the contractor for one hundred percent (100%) percent of the contract price.** A "Performance Bond" is one executed in connection with a contract to secure fulfillment of all the contractor's obligations under such contract.
- c. **A Payment Bond on the part of the contractor for one hundred percent (100%) percent of the contract price.** A "Payment Bond" is one executed in connection with a contract to assure payment as required by law of all persons supplying labor and material in the execution of the work provided for in the contract.

# CONTRACT

THIS AGREEMENT made this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, by and between \_\_\_\_\_<sup>1</sup> hereinafter called the *Contractor*, and \_\_\_\_\_ hereinafter called the *Owner*.

WITNESSETH, that the Contractor and the Owner for the considerations stated herein mutually agree as follows:

## ARTICLE 1. STATEMENT OF WORK

The Contractor shall furnish all supervision, technical personnel, labor, materials, machinery, tools, equipment and services, including utility and transportation services, and perform and complete all work required for the construction of the Improvements included in the project; namely,

\_\_\_\_\_<sup>2</sup>,  
and required supplemental work for the \_\_\_\_\_ all in strict accordance with the Contract Documents including all addenda thereto. This contract and this project are for the benefit of the \_\_\_\_\_.

## ARTICLE 2. THE CONTRACT PRICE

The Owner will pay the Contractor for the total quantities of work performed at the unit prices stipulated in the Bid for the respective items of work completed for the sum not to exceed

\_\_\_\_\_ (dollars) subject to additions and deductions as provided in Section 109 hereof.

## ARTICLE 3. CONTRACT

The contract shall consist of the following:

- a. This Contract
- b. Addenda as applicable
- c. Notice to Contractors
- d. Instruction to Bidders
- e. Signed Copy of Bid
- f. General Contract Terms
- g. Technical Specifications
- h. Drawings
- i. All of documents listed in Article 1 of the General Contract Terms are deemed included in the Contract.

<sup>1</sup> Choose term most applicable: a corporation organized under the laws of the State of Ohio; a partnership; an individual

<sup>2</sup> Supply principal items of Contract such as Grading, Paving, Water Mains, Sewers, etc.

This Agreement, together with other documents enumerated in this ARTICLE 3, which said other documents are as fully a part of the Contract as if hereto attached or herein repeated, forms the Contract between the parties hereto. In the event that any other provision in any component part of this Contract conflicts with any provision of any other component part, the provision of the component part first enumerated in this ARTICLE 3 shall govern, except as otherwise specifically stated.

The [REDACTED] acknowledges that it agrees to indemnify and hold harmless the Noble County Commissioners and their successors and assigns from any liabilities or claims for damages, including those from third parties, arising from or related to this Contract.

IN WITNESS WHEREOF, the parties hereto have caused this AGREEMENT to be executed in 1 original copies on the day and year first above written.

## **PERFORMANCE AND PAYMENT BOND (OR BONDS)**

Following the Form of Agreement, attach the approved form of the statutory surety bond or bonds to insure the performance of the Contract and payment of labor and materials. In addition to the corporation signatures of the surety company(ies) on the bond(s), each bond should be countersigned by the surety company's attorney-in-fact, authorized to act within the state in which the Project is situated.

# NOTICE OF AWARD

To: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Project Description:** Caldwell Exempted Village School District DEMO

The OWNER has considered the BID submitted by you on \_\_\_\_\_ (Bid Date) for the above-described WORK in response to its Advertisement for BIDS and Information for BIDDERS.

You are hereby notified that your BID has been accepted for items in the amount of  
\$ \_\_\_\_\_

You are required by the Information for BIDDERS to execute the Agreement and furnish the required CONTRACTOR'S Contract BOND, if applicable, and Certificates of Insurance within 10 calendar days from the date of this notice to you. If you fail to execute said Agreement and to furnish said BOND within 10 days from the date of this notice, said OWNER will be entitled to consider all your rights arising out of the OWNER'S acceptance of your BID as abandoned and as a forfeiture of your BID guaranty subject to the liability as set forth in Section 153.54 of the Ohio Revised Code. The OWNER will be entitled to other such rights as may be granted by law.

You are required to return an acknowledged copy of this NOTICE OF AWARD to the OWNER.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, .

**OWNER:**

_____ Typed/Printed Name	_____ Signature
_____ Typed/Printed Name	_____ Signature
_____ Typed Printed Name	_____ Signature

**ACCEPTANCE OF NOTICE**

Receipt of the above NOTICE OF AWARD is hereby acknowledged by

on this \_\_\_\_\_ day of \_\_\_\_\_, .

**By:** \_\_\_\_\_

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

**Title:** \_\_\_\_\_



# NOTICE TO PROCEED

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

**To:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Project Description:** \_\_\_\_\_

You are hereby notified to commence WORK in accordance with the Agreement dated \_\_\_\_\_, on or before \_\_\_\_\_. The date of completion of all work is December 1, 2023.

## OWNER:

_____ Typed/Printed Name	_____ Signature
_____ Typed/Printed Name	_____ Signature
_____ Typed Printed Name	_____ Signature

## ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED is hereby acknowledged by

on this \_\_\_\_\_ day of \_\_\_\_\_, .

**By:** \_\_\_\_\_

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

**Title:** \_\_\_\_\_

# CHANGE ORDER

Order No.: \_\_\_\_\_

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

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

NAME OF PROJECT: \_\_\_\_\_

OWNER: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

The following changes are hereby made to the CONTRACT DOCUMENTS:

Justification:

## Change to CONTRACT PRICE:

Original CONTRACT PRICE: \$ \_\_\_\_\_

Current CONTRACT PRICE adjusted  
by previous CHANGE ORDER : \$ \_\_\_\_\_

The CONTRACT PRICE due to this CHANGE ORDER will be increased/decreased by:  
\$ \_\_\_\_\_

The new CONTRACT PRICE including this CHANGE ORDER will be  
\$ \_\_\_\_\_

## Change to CONTRACT TIME:

The CONTRACT TIME will be increased/decreased by \_\_\_\_ calendar days.

The date for completion of all WORK will be \_\_\_\_\_ (Date).

Requested by: \_\_\_\_\_

Recommended by: \_\_\_\_\_

Accepted by: \_\_\_\_\_

OHCP Approval (where applicable) \_\_\_\_\_

## CERTIFICATE OF OWNER'S AUTHORITY

I, the undersigned, \_\_\_\_\_, \_\_\_\_\_, the duly authorized and acting legal representative of the Board of Commissioners of Noble County, do hereby certify as follows:

I have examined the attached contract and surety bond between the Noble County Commissioners and \_\_\_\_\_ the manner of execution thereof, and I am of the opinion that the Contract has been duly executed by the Board of Commissioners of Noble County, a proper party thereto acting through their duly authorized representatives; that said representatives have full power and authority to execute said Contract on behalf of the Owner, Board of Commissioners of Noble County named thereon; and that the foregoing Contract constitutes a valid and legally binding obligation upon the Board of Commissioners of Noble County executing the same in accordance with terms, conditions and provisions thereof.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

# CERTIFICATE OF OWNER'S FINANCIAL OFFICER

ATTEST:

I, \_\_\_\_\_ Auditor, hereby certify that the money to meet this contract has been lawfully appropriated for the purpose of the contract and is in the treasury of Noble, Ohio, or is in the process of collection to the credit of the appropriate fund free from prior encumbrance.

---

Signature

---

Date

**SEAL:**

# **CONFLICT OF INTEREST**

## **Interest of Local Public Officials**

No member of the governing body of the locality and no other officer, employee, agent or public official of such locality, who exercises any functions or responsibilities in connection with the planning and carrying out of the program, shall have any personal financial interest, direct or indirect, in this contract; and the Contractor shall take appropriate step to assure compliance.

## **Interest of Contractor and Employees**

The Contractor covenants that he presently has no interest and shall not acquire interest, direct or indirect, in the study area or any parcels therein or any other interest which would conflict in any manner or degree with the performance of his services hereunder. The Contractor further covenants that in the performance of this Contract no person having any such interest shall be employed.

## **Records and Audits**

The Contractor shall maintain accounts and records, including personnel, property and financial records, adequate to identify and account for all costs pertaining to the Contract and such other records as may be deemed necessary by the City/County to assure proper accounting for all project funds. These records will be made available for audit purposes to the City/County or any authorized representative, and will be retained for three years after the expiration of the Contract unless permission to destroy them is granted by the City/County.

## **Federal or State Officials Not to Benefit**

No members of or delegate to the Congress of the United States of America, and no resident U.S. Commissioner, nor any officer or employee of the State of Ohio subject to Ohio Ethics Law (ORC. Sec. 102.03(A)) will be admitted to any share or part hereof or to any benefit to arise herefrom.

# **SPECIAL TERMS PERTAINING TO HAZARDS, SAFETY STANDARDS AND ACCIDENT PREVENTION**

## **A. Lead-Based Paint Hazards**

(Applicable to contracts for construction or rehabilitation of residential structures.)

The construction or rehabilitation of residential structures is subject to the HUD Lead-Based Paint regulations, 24 CFR Part 35. The Contractor and Subcontractors shall comply with the provisions for the elimination of lead-base paint hazards under sub-part B of said regulations. The Owner will be responsible for the inspections and certifications required under Section 35.14(f) thereof.

## **B. Use of Explosives**

When the use of explosives is necessary for the prosecution of the work, the Contractor shall observe all local, state and Federal laws in purchasing and handling explosives. The Contractor shall take all necessary precaution to protect completed work, neighboring property, water lines, or other underground structures. Where there is danger to structures or property from blasting, the charges shall be reduced and material shall be covered with suitable timer, steel or rope mats.

The contractor shall notify all owners of public utility property of intention to use explosives at least eight hours before blasting is done, close to such property. Any supervision or direction of use of explosives by the Engineer, does not in any way reduce the responsibility of the Contractor or his Surety for damages that may be caused by such use.

## **C. Danger Signals and Safety Devices**

The Contractor shall make all necessary precautions to guard against damages to property and injury to persons. He shall put up and maintain in good condition, sufficient red or warning lights at night, suitable barricades and other devices necessary to protect the public. In case the Contractor fails or neglects to take such precautions, the Owner may have such lights and barricades installed and charge the cost of this work to the Contractor. Such action by the Owner does not relieve the Contractor of any liability incurred under these specifications or contract.

# **SPECIAL EQUAL OPPORTUNITY PROVISIONS**

## **A. Activities and Contracts Not Subject to Executive Order 11246, as Amended**

(Applicable to Federally assisted construction contracts and related subcontracts \$10,000 and under)

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

1. The Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor shall take affirmative action to ensure that applicants for employment 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 selected for training, including apprenticeship.

2. **The Contractor shall post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Owner setting forth the provisions of this non-discrimination clause.** The Contractor shall state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
3. Contractors shall incorporate foregoing requirements in all subcontracts.

## **B. Executive Order 11246 (Contracts/subcontracts above \$10,000)**

1. Section 202 Equal Opportunity Clause

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 Owner setting forth the provisions of this non discrimination clause.**
- (2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration without regard to race, color, religion, sex, or national origin.
- (3) The contractor will send to each labor union or representative of workers which he has a collective bargaining agreement or other contractor or understanding, a notice to be provided by the Owner advising the said labor union or workers' representatives of the contractor's commitment under this section, 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 11246 of September 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 11246 of September 24, 1965, and by rules, regulations and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his/her books, records, and accounts by the Ohio Department of Development's Office of Housing and Community Partnerships (OHCP), the U.S. Department of Housing and Urban Development and/or the U.S. Department of Labor and the Secretary of Labor for purposes of

investigation to ascertain compliance with such rules, regulations, and others.

- (6) In the event of the contractor's non-compliance with the non-discrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, 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 11246 of September 24, 1965, or by rules, regulations or orders of the Secretary of Labor, or as otherwise provided by law.
- (7) The contractor will include the provisions of the sentence immediately preceding paragraph (1) and 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 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 the Department may direct as a means of enforcing such provisions, including sanctions for non-compliance. Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the Department, the contractor may request the United States to enter into such litigation to protect the interest of the United States.

2. **Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order 11246)**

(Applicable to contracts/subcontracts exceeding \$10,000)

- (1) The Offerer's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.
- (2) The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

<b>Goals for Minority Participation</b>	<b>Goals for Female Participation</b>
	<u>6.9%</u>

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered areas. The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals established from this solicitation is to be performed. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees from



project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

- (3) **The Contractor shall provide written notification to the Manger of the Office of Housing and Community Partnerships, Ohio Department of Development, 77 S. High Street, P.O. Box 1001, Columbus, OH 43215 within 10 working days** of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed.
- (4) As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is (insert description of the geographical areas where the contract is to be performed giving the state, county, and city, if any):

3. **Standard Federal Equal Employment Opportunity Construction Contract Specifications (Executive Order 11246)**

- (1) As used in these specifications:
  - a. "Covered" area means the geographical area described in the solicitation from which this contract resulted;
  - b. "Director" means Director, Office of Federal Contract Compliance Programs, United State Department of Labor, or any person to whom the Director delegates authority;
  - c. "Employer Identification Number" means the Federal Social Security Number used on the Employers Quarterly Federal Tax Return, U.S. Treasury Department Form 941;
  - d. "Minority" includes:
    - (i) *Black*: all persons having origins in any of the Black African racial groups no of Hispanic origin;
    - (ii) *Hispanic*: all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race;
    - (iii) *Asian and Pacific Islander*: all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands; and
    - (iv) *American Indian or Alaskan Native*: all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification.

- (2) Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
- (3) If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.
- (4) The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through 7p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. The uniform progress toward its goals in each craft during the period specified.
- (5) Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
- (6) In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
- (7) The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative actions steps at least as extensive as the following:
  - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction

project. The Contract shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.

- b. Establish and maintain a current list of minority and female recruitment sources, provided written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
- c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union, or if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore, along with whatever additional actions the Contractor may have taken.
- d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
- e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relative to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.
- f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations: by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with onsite supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the

time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

- h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- i. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. No later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a contractor's work force.
- k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
- l. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc. such opportunities.
- m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
- n. Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between sexes.
- o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
- p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
- q. Covered construction contractors performing contracts in geographical areas where they do not have a federal or federally

assisted construction contract shall apply the minority and female goals established for the geographical area where the contract is being performed. Goals are published periodically in the Federal Register in notice form and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting offices.

- (8) Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through 7q). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through 7q of these Specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation shall not be a defense for the Contractor's non-compliance.
- (9) A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and nonminority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
- (10) The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
- (11) **The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contractors pursuant to Executive Order 11246.**
- (12) The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
- (13) The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the

Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

- (14) **The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by OHCP and to keep records.** Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employment identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.

**C. Certification of Nonsegregated Facilities (Over \$10,000)**

By the submission of this bid, the bidder, offerer, applicant or subcontractor certifies that he/she does not maintain or provide for his/her employees any segregated facility at any of his/her establishments, and that he/she does not permit employees to perform their services at any location, under his/her control, where segregated facilities are maintained. He/She certifies further that he/she will not maintain or provide for employees any segregated facilities at any of his/her establishments, and he/she will not permit employees to perform their services at any location under his/her control where segregated facilities are maintained. The bidder, offerer, applicant or subcontractor agrees that a breach of this certification is a violation of the Equal Opportunity Clause of this contract. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms, and other storage or dressing areas, \*\*transportation and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin, because of habit, local custom, or otherwise. He/She further agrees that (except where he/she has obtained identical certifications from proposed subcontractors for specific time periods) he/she will obtain identical certification from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause; that he/she will retain such certifications in his/her files; and that he/she will forward the following notice to such proposed subcontractors (except where proposed subcontractors have submitted identical certifications for specific time periods).

**D. Civil Rights Act of 1964**

Under Title VI of the Civil Rights Act of 1964, no person shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance.

**E. Section 109 of the Housing and Community Development Act of 1974**

- (a) No person in the United States shall on the grounds of race, color, or national origin, or sex be excluded from participation in, be denied the benefits of, or be

subjected to discrimination under any program or activity funded in whole or in part with funds made available under this title.

\*\* Parking lots, drinking fountains, recreation or entertainment areas.

**CERTIFICATION OF BIDDER REGARDING EQUAL EMPLOYMENT OPPORTUNITY**

---

NAME OF PRIME CONTRACTOR:

PROJECT NUMBER:

---

**INSTRUCTIONS**

This certification is required pursuant to Executive Order 11246 (30 F.R. 12319-25). The implementing rules and regulations provide that any bidder or prospective contractor, or any of their proposed subcontractors, shall state as an initial part of the bid or negotiations of the contract whether it has participated in any previous contract or subcontract subject to the equal opportunity clause; and, if so, whether it has filed all compliance reports due under applicable instructions.

Where the certification indicates that the bidder has not filed a compliance report due under applicable instructions, such bidder shall be required to submit a compliance report within seven calendar days after bid opening. No contract shall be awarded unless such report is submitted.

---

**CONTRACTOR'S CERTIFICATION**

---

NAME AND ADDRESS OF BIDDER (Include ZIP Code)

---

1. Bidder has participated in a previous contract or subcontract subject to the Equal Opportunity Clause.

Yes  No

---

2. Compliance reports were required to be filed in connection with such contract or subcontract.

Yes  No

---

3. Bidder has filed all compliance reports due under applicable instruction, including SF-100.

Yes  No

---

4. Have you ever been or are you being considered for sanction due to violation of Executive Order 11246, as amended?

Yes  No

---

NAME AND TITLE OF SIGNER (Please type)

---

SIGNATURE

DATE

---

Modeled after form HUD-12



---

Ohio Department of Development  
Office of Local Government Services

**CERTIFICATION OF PROPOSED SUBCONTRACTOR REGARDING  
EQUAL EMPLOYMENT OPPORTUNITY**

---

NAME OF PRIME CONTRACTOR

PROJECT NUMBER:

---

**INSTRUCTIONS**

This certification is required pursuant to Executive Order 11246 (30 F.R. 12319-25). The implementing rules and regulations provide that any bidder or prospective contractor, or any of their proposed subcontractors, shall state as an initial part of the bid or negotiations of the contract whether it has participated in any previous contract or subcontract subject to the equal opportunity clause; and, if so, whether it has filed all compliance reports due under applicable instructions.

Where the certification indicates that the bidder has not filed a compliance report due under applicable instructions, such bidder shall be required to submit a compliance report within seven calendar days after bid opening. No contract shall be awarded unless such report is submitted.

---

**SUBCONTRACTOR'S CERTIFICATION**

---

NAME AND ADDRESS OF SUBCONTRACTOR (Include ZIP Code)

---

1. Bidder has participated in a previous contract or subcontract subject to the Equal Opportunity Clause.

Yes  No

---

2. Compliance reports were required to be filed in connection with such contract or subcontract.

Yes  No

---

3. Bidder has filed all compliance reports due under applicable instruction, including SF-100.

Yes  No

---

4. Have you ever been or are you being considered for sanction due to violation of Executive Order 11246, as amended?

Yes  No

---

NAME AND TITLE OF SIGNER (Please type)

---

SIGNATURE

DATE

---

Modeled after form HUD-12

# CERTIFICATION OF COMPLIANCE WITH AIR AND WATER ACTS

(Applicable to Federally assisted construction contracts and related subcontracts exceeding \$100,000).

## Compliance with Air and Water Acts

During the performance of this contract, the contractor and all subcontractors shall comply with the requirements of the Clean Air Act, as amended, 42 USC 1857 et seq., the Federal Water Pollution Control Act, as amended, 33 USC 1251 et seq., and the regulations of the Environmental Protection Agency with respect thereto, at 40 CFR Part 15, as amended.

In addition to the foregoing requirements, all nonexempt contractors and subcontractors shall furnish to the owner, the following:

- (1) A stipulation by the Contractor or subcontractors, that any facility to be utilized in the performance of any nonexempt contract or subcontract, is not listed on the List of Violating Facilities issued by the Environmental Protection Agency (EPA) pursuant to 40 CFR 15.20.
- (2) Agreement by the contractor to comply with all the requirements of Section 114 of the Clean Air Act, as amended, (42 USC 1857c-8) and Section 308 of the Federal Water Pollution Control Act, as amended, (33 USC 1318) relating to inspection, monitoring, entry, reports and information, as well as all other requirements specified in said Section 114 and Section 308, and all regulations and guidelines issued thereunder.
- (3) A stipulation that as a condition for the award of the contract, prompt notice will be given of any notification received from the Director, Office of Federal Activities, EPA, indicating that a facility utilized, or to be utilized for the contract, is under consideration to be listed on the EPA List of Violating Facilities.
- (4) Agreement by the Contractor that he will include, or cause to be included, the criteria and requirements in paragraph (1) through (4) of this section in every nonexempt subcontract and requiring that the Contractor will take such action as the Government may direct as a means of enforcing such provisions.

**A REPRINT OF THE U.S. DEPARTMENT OF HOUSING AND URBAN  
DEVELOPMENT'S  
FEDERAL LABOR STANDARDS PROVISIONS, HUD-4010 DATED 2/84 (REVISED)**

**Applicability**

The Project or Program to which the construction work covered by this contract pertains is being assisted by the United States of America and the following Federal Labor Standards Provisions are included in this Contract pursuant to the provisions applicable to such Federal assistance.

- A1. (i) **Minimum Wages.** All laborers and mechanics employed or working upon the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at the time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. Contributions made or cost reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of 29 CFR 5.5(a)(l)(iv); also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period.

**Such laborers and mechanics shall be paid the appropriate wage rates and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill,** except as provided in 29 CFR Part 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, that the employer's payroll records accurately set forth the time spent in each additional classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under 29 CFR Part 5.5(a)(l)(ii) and the **Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can easily be seen by the workers.**

- (ii) (a) Any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. HUD shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:
- (1) The work to be performed by the classification requested is not performed by a classification in the wage determination;
  - (2) The classification is utilized in the area by the construction industry; and
  - (3) The proposed wage rate, including any bona fide fringe benefits, bear a reasonable relationship to the wage rates contained in the wage determination.
- (b) If the contractor and the laborers and mechanics to be employed in the classification (if known), or the representatives, and HUD or its designee agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by HUD or its designee to the Administrator of the Wage and Hour Division, employment Standards Administration, U.S. Department of Labor, Washington D.C.20210.

The administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise HUD or its designee or will notify HUD or designee within the 30-day period that additional time is necessary (approved by the Office of Management and Budget under OMB control number 1215-0140.)

- (c) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and HUD or its designee do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), HUD or its designee shall refer questions, including the views of all interested parties and the recommendation of HUD or its designee, to the Administrator for determination within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary (approved by the Office of Management and Budget under OMB Control Number 1215-0140.)
  - (d) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(b) or (c) of this paragraph shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
  - (iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, **the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.**
  - (iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, provided, that the Secretary of Labor has found, upon written request of the contractor, that the applicable standards of the Davis-Bacon have been met. The Secretary of Labor may require the contractor to set aside in a separate account for assets for the meeting of obligations under the plan or program (approved by the Office of Management and Budget under OMB Control Number 1215-0140.)
2. **Withholding.** HUD or its designee shall, upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee or helper, employed or working on the site of work (or under the United States Housing act of 1937 or under the Housing act of 1949 in the construction or development of the project), written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of fund until such violations have ceased. HUD or its designee may, after written notice to the contractor, disburse such amounts withheld for an on account of the contractor or subcontractor to the respective employees to whom they are due. The Comptroller General shall make such disbursements in the case of direct Davis-Bacon contracts.
3. (i) **Payrolls and basic records.** Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work (or under the United States Housing Act of 1937, or under the Housing Act of 1949, in the construction or development of the project). Such records shall contain the names, addresses and social security number of each worker, his or her correct classification, hourly rates of wage paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types, described in Section

1(b)(92)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any cost reasonably anticipated in providing benefits under a plan or program described in Section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contracts employing benefits or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs (approved by the Office of Management and Budget under OMB Control Numbers 1215-0140 and 1215-0017).

- (ii) (a) **The contractor shall submit weekly for each week in which any contract work is performed, a copy of all payrolls** to HUD or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant, sponsor or owner, as the case may be, for the transmission to HUD or its designee. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR Part 5.5(a)(4)(i). This information may be submitted in any form desired. **Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal Stock Number 029-005-00014-1), U.S. Government Printing Office, Washington D.C. 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors** (approved by the Office of Management and Budget under OMB Control Number 1215-0149).
  - (b) **Each payroll shall be accompanied by a “Statement of Compliance,”** signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:
    - (1) That the payroll for the payroll period contains the information required to be maintained under 29 CFR Part 5.5(a)(3)(I) and that such information is correct and complete;
    - (2) That each laborer or mechanic (including each helper, apprentice and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3;
    - (2) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
  - (c) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the “Statement of Compliance” required by paragraph A.3(ii)(b) of this section.
  - (d) **The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.**
- (iii) The contractor or subcontractor shall make the records required under paragraph A.3(i)

of this section available for inspection, copying, or transcription by authorized representatives of HUD or its designs or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, HUD or its designee may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be ground for debarment action pursuant to 29 CFR Part 5.12.

4. (i) **Apprentices and Trainees.** Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ration permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.
- (ii) **Trainees.** Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidence by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid at the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determine that there is an apprenticeship program associated with the corresponding journeymen wage rate on the wage determination associated with the corresponding journeyman wage rate on the wage determination which provides for less

than full fringe benefits for apprentices. **Any employee listed on the payroll of a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.** In addition, any trainee performing work on the job site in excess of the ration permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

- (iii) **Equal employment opportunity.** The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment requirement of executive order 11246, as amended, and 29 CFR Part 30.
- 5. **Compliance with Copeland Act requirements.** The contractor shall comply with the requirements of 29 CFR Part 3 which are incorporated by reference in this contract.
- 6. **Subcontracts.** The contractor or subcontractor will insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through 910) and such other clauses as HUD or its designee may be appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. **The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all contractor clauses in 29 CFR part 5.5.**
- 7. **Contractor termination; debarment.** A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.
- 8. **Compliance with Davis-Bacon and Related Act Requirements.** All rulings and interpretations of the Davis-Bacon and Related Acts in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.
- 9. **Disputes concerning labor standards.** Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR 5, 6 and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and HUD or its designee, the U.S. Department of Labor, or the employees or their representatives.
- 10. (i) **Certification of Eligibility.** By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1) or to be awarded HUD contracts or participate in HUD programs pursuant to 24 CFR Part 24.  
(ii) **No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1)** or to be awarded HUD contracts or participate in HUD programs pursuant to 24 CFR Part 24.  
(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001. Additionally, U.S. Criminal Code, Section 1010, Title 18, U.S.C., "Federal Housing Administration transactions", provides in part "Whoever, for the purpose of ...influencing in any way the action of such Administration...makes utters or publishes any statement, knowing the same to be false...shall be fined not more than \$5,000 or imprisoned not more than two years, or both."
- 11. **Complaints, Proceedings or Testimony by Employees.** No laborer or mechanic to whom the

wages, salary, or other labor standards provisions of this Contract are applicable, shall be discharged or in any other manner discriminated against by the Contractor or any Subcontractor because such employee has filed any complaint or instituted or causes to be instituted any proceeding or has testified or is about to testify in any proceeding under or relating to the labor standards applicable under this Contract to his employer.

**B. Contract Work Hours and Safety Standards Act.** As used in this paragraph, the terms “laborers” and “mechanics” include watchmen and guards.

- (1) **Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of fourth hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of fourth hours in such workweek.
- (2) **Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the clause set forth in subparagraph (1) of this paragraph, the contractor and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in subparagraph (1) of this paragraph, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages by the clause set forth in subparagraph (1) of this paragraph.
- (3) **Withholding for unpaid wages and liquidated damages.** HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contract, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in subparagraph (2) of this paragraph.
- (4) **Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1) through (4) of this paragraph and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime subcontractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in subparagraphs (1) through (4) of this paragraph.

**C. Health and Safety**

- (1) No laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to his health and safety as determined under construction safety and health standards promulgated by the Secretary of Labor by regulation.
- (2) The Contractor shall comply with all regulations issued by the Secretary of Labor pursuant to Title 29 Part 1926 (formerly Part 1518) and failure to comply may result in imposition of sanctions pursuant to the Contract Work hours and Safety Standards Act (Public Law 91-54, 83 Stat 96).
- (3) The Contractor shall include the provisions of this Article in every subcontract so that such provisions will be binding on each subcontractor. The Contractor shall take such action with respect to any subcontract as the Secretary of Housing and Urban Development or the Secretary of Labor shall direct as a means of enforcing such provisions.



# CERTIFICATE OF COMPLIANCE WITH FEDERAL LABOR STANDARDS PROVISIONS

I, the undersigned \_\_\_\_\_, the duly authorized representative of \_\_\_\_\_ (hereinafter referred to as the contractor), do hereby certify that I have examined the Federal Labor Standards Provisions (HUD-4010) with related certificates and documents, and all of the terms surrounding these provisions including, but not limited to the following:

1. The contractor is responsible for employing only eligible subcontractors who have certified eligibility in written contract containing Federal Labor Standards Provisions.
2. The contractor is responsible for the payment of federal prevailing wage rates by its subcontractors while performing work under this contract. If the subcontractor fails to pay the prevailing wages as specified in this contract, the prime contractor may be required to make appropriate restitution to the underpaid workers.
3. The contractor is responsible for collecting weekly certified payrolls from its subcontractors, reviewing said payrolls for compliance with the federal wage rates, and forward same to the local government contract authority.
4. The contractor also understands that only those classifications listed in the original bid documents are applicable to this job, and no special classifications may be incorporated after the contract award.

The prime contractor hereby agrees to perform all of its responsibilities in conformance with the Federal Labor Standards Provisions both diligently and effectively.

**DATE:** \_\_\_\_\_

**BY:** \_\_\_\_\_

**TITLE:** \_\_\_\_\_

**COMMUNITY DEVELOPMENT BLOCK GRANT PROGRAM**

**CONTRACTOR'S CERTIFICATION  
CONCERNING LABOR STANDARDS AND PREVAILING WAGE REQUIREMENTS**

1. The undersigned, having executed a contract with \_\_\_\_\_ for the construction of the above-identified project, acknowledges that:

- (a) The Labor Standards provisions are included in the aforesaid contract; and
- (b) Correction of any infractions of the aforesaid terms, including infractions by any of his subcontractors and any lower tier subcontractors, is his responsibility.

2. He certifies that:

- (a) Neither he nor any firm, partnership or association in which he has substantial interest is designated as an ineligible contractor by the Comptroller General of the United States pursuant to Section 5.6(b) of the Regulations of the Secretary of Labor, Part 5 (29 CFR Part 5) or pursuant to Section 3(a) of the Davis-Bacon Act, as amended [40 U.S.C. 276a-2(a)].
- (b) No part of the aforementioned contract has been or will be subcontract to any subcontractor if such subcontractor or any firm, corporation, partnership or association in which such subcontractor has a substantial interest is designated as an ineligible contractor pursuant to any of the aforementioned regulatory or statutory provisions.

3. He agrees to obtain and forward to the aforementioned recipient within 10 days after the execution of any subcontract, including those executed by his subcontractors and any lower tier subcontractors, a Subcontractor's Certification Concerning Labor Standards and Prevailing Wage Requirements executed by the subcontractors.

4. He certifies that:

(a) The legal name and the business address of the undersigned is:

(b) The undersigned is:

- \_\_\_\_\_ (1) A Single Proprietorship
- \_\_\_\_\_ (2) A corporation organized in the State of Ohio
- \_\_\_\_\_ (3) A Partnership
- \_\_\_\_\_ (4) Other Organization (Describe):

(c) The name, title and address of the owner, partners or officers of the undersigned are:

Name	Title	Address

- (d) The names and addresses of all other persons, both natural and corporate, having a substantial interest in the undersigned, and the nature of the interest are: (If no, so state):

Name	Title	Nature of Interest

- (e) The names and addresses and trade classifications of all other building construction contractors in which the undersigned has a substantial interest are: (If none, so state):

Name	Title	Trade Classification

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

**Contractor:** \_\_\_\_\_

**By:** \_\_\_\_\_

**WARNING**

U.S. CRIMINAL CODE, Section 1010, Title 18, U.S.C., provides in part: "Whoever...makes, passes, utters or publishes any statement, knowing the name to be false...shall be fined not more than \$5,000 or imprisoned not more than two years, or both."

**COMMUNITY DEVELOPMENT BLOCK GRANT PROGRAM**

**SUBCONTRACTOR'S CERTIFICATION**

**CONCERNING LABOR STANDARDS AND PREVAILING WAGE REQUIREMENTS**

1. The undersigned, have executed a contract with:

\_\_\_\_\_

for:

\_\_\_\_\_

In the amount of \$ \_\_\_\_\_ for the construction of the above-identified project certifies that:

- (a) The Labor Standards provisions of the Contract for Construction are included in the aforesaid contract;
- (b) Neither he nor any firm, partnership or association in which he has substantial interest is designated as an ineligible contractor by the Comptroller General of the United States pursuant to Section 5.6(b) of the Regulations of the Secretary of Labor, Part 5 (29 CFR Part 5) or pursuant to Section 3(a) of the Davis-Bacon Act, as amended [40 U.S.C. 276a-2(a)].
- (c) No part of the aforementioned contract has been or will be subcontract to any subcontractor if such subcontractor or any firm, corporation, partnership or association in which such subcontractor has a substantial interest is designated as an ineligible contractor pursuant to any of the aforementioned regulatory or statutory provisions.

2. He agrees to obtain and forward to the contractor, for transmittal to the recipient, within ten days after the execution of any lower subcontract, a Subcontractor's Certification Concerning Labor Standards and Prevailing Wage Requirements executed by the lower tier subcontractor, in duplicate.

The workmen will report for duty on or about \_\_\_\_\_ (Date).

3. He certifies that:

(a) The legal name and the business address of the undersigned is:

(b) The undersigned is:

- \_\_\_\_\_ (1) A Single Proprietorship
- \_\_\_\_\_ (2) A corporation organized in the State of Ohio
- \_\_\_\_\_ (3) A Partnership
- \_\_\_\_\_ (4) Other Organization (Describe):

(c) The name, title and address of the owner, partners or officers of the undersigned are:

Name	Title	Address

(d) The names and addresses of all other persons, both natural and corporate, having a

substantial interest in the undersigned, and the nature of the interest are: (If no, so state):

Name	Title	Nature of Interest

(e) The names and addresses and trade classifications of all other building construction contractors in which the undersigned has a substantial interest are: (If none, so state):

Name	Title	Trade Classification

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

**Contractor:** \_\_\_\_\_

**By:** \_\_\_\_\_

**WARNING**

U.S. CRIMINAL CODE, Section 1010, Title 18, U.S.C., provides in part: "Whoever...makes, passes, utters or publishes any statement, knowing the name to be false...shall be fined not more than \$5,000 or imprisoned not more than two years, or both."

# Appendix A- Bid Specifications

## Site Specific Information

The Contractor will take the charge in the demolition and site revitalization efforts of one (1) property located within the Village of Caldwell in Noble County, Ohio. The property is as follows, 516 Fairground Street Caldwell, Ohio 43724.

The period of demolition will begin on a date specified in the Notice to Proceed established with the chosen contractor and will end on August 4, 2023 which coincides with the Summer Break schedule of the school district. The district is amenable to demolition work continuing through September 1, 2023 so long as the structure is on the ground and safety fencing is placed around the work site. Clean-up and construction activities should occur and should conclude no later than December 1, 2023. The contractor is responsible for scheduling work dates with the Superintendent of Caldwell Exempted Village School District, Greg Gifford. All salvageable bricks from the building shall be removed from the demolition pile and added to a designated secured location a safe distance from the project location for pick up by community members. The cornerstone of this building must also be saved and placed in a secure location. Caldwell Village Exempted School District will provide the details of this location and signage for the public. The designated secured location must be barricaded and include ingress and egress for the public. Metal bars at the ingress of the building should also be saved and placed to the side in the designated secured location.

As the building that will be demolished is partially attached to the current school building, parging and suring up the current wall to become an exterior wall will be critical as it will ensure that the roof remains in good condition and that the school remains insulated on the inside. The created exterior wall shall be completed with a smooth finish as the school district will be commissioning a mural for the wall. The remainder of the lot shall be revitalized and left as an empty lot.

"NOTE: Inspection is required PRIOR to commencing fill or photos taken of the clean hole showing utilities have been properly capped and sealed!"

## REGULATORY INFORMATION

Under the current EPA/NESHAP regulations, materials that contain greater than 1% asbestos are considered to be an asbestos-containing material (ACM). Building materials that contain <1% asbestos is not regulated by the Ohio EPA or the Ohio Department of Health, however, these materials are regulated by the OSHA Construction Industry Asbestos Standard guidelines. Persons disturbing materials that contain <1% asbestos must be in compliance with this standard.

According to OSHA Construction Industry Asbestos Standard, contractors performing demolition activities that disturb ACM that is <1%, regardless of the amount involved are required to follow the Asbestos Standard governing workers exposed to asbestos. If <1% asbestos-containing materials are to remain during the demolition process, all

general contractors and sub-contractors must be informed of the locations of the asbestos containing materials.

The Ohio Department of Health requires a 10-day prior notification of abatement activities for activities that disturb materials more than 50 linear feet and/or 50 square feet. O.A.C 3701-34-32 requires persons who disturb friable, or non-friable materials that become friable if disturbed, that are more than 50 linear feet and/or 50 square feet be properly licensed by The Ohio Department of Health.

The Ohio EPA requires a 10-day prior notification of abatement activities be submitted for activities that disturb materials more than 260 linear feet and/or 160 square feet. **The Ohio EPA also requires a 10-day prior notification for structures that are scheduled to be demolished, or burned, regardless of the presence of asbestos-containing materials.**

## **Appendix B-Prevailing Wage Rates**



## Appendix C-Environmental Specs

"General Decision Number: OH20230001 04/14/2023

Superseded General Decision Number: OH20220001

State: Ohio

Construction Types: Heavy and Highway

Counties: Ohio Statewide.

Heavy and Highway Construction Projects

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	Executive Order 14026 generally applies to the contract. The contractor must pay all covered workers at least \$16.20 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 2023.
---	---

If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	Executive Order 13658 generally applies to the contract. The contractor must pay all covered workers at least \$12.15 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2023.
---	--

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a

conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/06/2023
1	02/03/2023
2	03/03/2023
3	04/14/2023

\* BROH0001-001 06/01/2022

DEFIANCE, FULTON (Excluding Fulton, Amboy & Swan Creek Townships), HENRY (Excluding Monroe, Bartlow, Liberty, Washington, Richfield, Marion, Damascus & Townships & that part of Harrison Township outside corporate limits of city of Napoleon), PAULDING, PUTNAM and WILLIAMS COUNTIES

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 31.40	18.55

\* BROH0001-004 06/01/2022

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 31.40	18.55

\* BROH0003-002 06/01/2022

FULTON (Townships of Amboy, Swan Creek & Fulton), HENRY (Townships of Washington, Damascus, Richfield, Bartlow, Liberty, Harrison, Monroe, & Marion), LUCAS and WOOD (Townships of Perrysburg, Ross, Lake, Troy, Freedom, Montgomery, Webster, Center, Portage, Middleton, Plain, Liberty, Henry, Washington, Weston, Milton, Jackson & Grand Rapids) COUNTIES

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 31.40	18.55

BROH0005-003 06/01/2020

CUYAHOGA, LORAIN & MEDINA (Hinckley, Granger, Brunswick, Liverpool, Montville, York, Homer, Harrisville, Chatham, Litchfield & Spencer Townships and the city of Medina)

	Rates	Fringes
--	-------	---------

BRICKLAYER

BRICKLAYERS; CAULKERS; CLEANERS; POINTERS; & STONEMASONS.....	\$ 36.64	17.13
SANDBLASTERS.....	\$ 36.39	17.13
SEWER BRICKLAYERS & STACK BUILDERS.....	\$ 36.64	17.13
SWING SCAFFOLDS.....	\$ 37.14	17.13

-----  
\* BROH0006-005 06/01/2022

CARROLL, COLUMBIANA (Knox, Butler, West & Hanover Townships),  
STARK & TUSCARAWAS

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 31.40	18.55

-----  
\* BROH0007-002 06/01/2022

LAWRENCE

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 31.40	18.55

-----  
\* BROH0007-005 06/01/2022

PORTAGE & SUMMIT

	Rates	Fringes
BRICKLAYER.....	\$ 31.40	18.55

-----  
BROH0007-010 06/01/2017

PORTAGE & SUMMIT

	Rates	Fringes
MASON - STONE.....	\$ 28.65	14.55

-----  
\* BROH0008-001 06/01/2022

COLUMBIANA (Salem, Perry, Fairfield, Center, Elk Run,  
Middleton, & Unity Townships and the city of New Waterford),  
MAHONING & TRUMBULL

	Rates	Fringes
BRICKLAYER.....	\$ 31.40	18.55

-----  
\* BROH0009-002 06/01/2022

BELMONT & MONROE COUNTIES and the Townships of Warren & Mt. Pleasant and the Village of Dillonvale in JEFFERSON COUNTY

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 31.40	18.55
Refractory.....	\$ 31.45	19.01

-----  
\* BROH0010-002 06/01/2022

COLUMBIANA (St. Clair, Madison, Wayne, Franklin, Washington, Yellow Creek & Liverpool Townships) & JEFFERSON (Brush Creek & Saline Townships)

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 31.40	18.55

-----  
\* BROH0014-002 06/01/2022

HARRISON & JEFFERSON (Except Mt. Pleasant, Warren, Brush Creek, Saline & Salineville Townships & the Village of Dillonvale)

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 31.40	18.55

-----  
\* BROH0016-002 06/01/2022

ASHTABULA, GEAUGA, and LAKE COUNTIES

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 31.40	18.55

-----  
\* BROH0018-002 06/01/2022

BROWN, BUTLER, CLERMONT, HAMILTON, PREBLE (Gasper, Dixon, Israel, Lanier, Somers & Gratis Townships) & WARREN COUNTIES:

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 31.40	18.55

-----  
\* BROH0022-004 06/01/2022

CHAMPAIGN, CLARK, CLINTON, DARKE, GREENE, HIGHLAND, LOGAN,

MIAMI, MONTGOMERY, PREBLE (Jackson, Monroe, Harrison, Twin, Jefferson & Washington Townships) and SHELBY COUNTIES

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 31.40	18.55

---

\* BROH0032-001 06/01/2022

GALLIA & MEIGS

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 31.40	18.55

---

\* BROH0035-002 06/01/2022

ALLEN, AUGLAIZE, MERCER and VAN WERT COUNTIES

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 31.40	18.55

---

\* BROH0039-002 06/01/2022

ADAMS & SCIOTO

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 31.40	18.55

---

\* BROH0040-003 06/01/2022

ASHLAND, CRAWFORD, HARDIN, HOLMES, MARION, MORROW, RICHLAND, WAYNE and WYANDOT (Except Crawford, Ridge, Richland & Tymochtee Townships) COUNTIES

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 32.49	23.43

FOOTNOTE: Layout Man and Sawman rate: \$1.00 per hour above journeyman rate.

Free standing stack work ground level to top of stack;  
Sandblasting and laying of carbon masonry material in swing stage and/or scaffold; Ramming and spading of plastics and gunniting: \$1.50 per hour above journeyman rate.

""Hot"" work: \$2.50 above journeyman rate.

---

\* BROH0044-002 06/01/2022

Rates Fringes

Bricklayer, Stonemason  
COSHOCTON, FAIRFIELD,  
GUERNSEY, HOCKING, KNOX,  
KICKING, MORGAN,  
MUSKINGUM, NOBLE (Beaver,  
Buffalo, Seneca & Wayne  
Townships) & PERRY  
COUNTIES:.....\$ 31.40 18.55

-----  
BROH0045-002 06/01/2021

FAYETTE, JACKSON, PIKE, ROSS and VINTON COUNTIES

Rates Fringes

Bricklayer, Stonemason.....\$ 30.40 17.66

-----  
\* BROH0046-002 06/01/2022

ERIE, HANCOCK, HURON, OTTAWA, SANDUSKY, SENECA, WOOD (Perry &  
Bloom Townships) and WYANDOT (Tymochtee, Crawford, Ridge &  
Richland Townships) COUNTIES & the Islands of Lake Erie north  
of Sandusky

Rates Fringes

Bricklayer, Stonemason.....\$ 31.40 18.55

FOOTNOTE: Layout Man and Sawman rate: \$1.00 per hour above  
journeyman rate.

Free standing stack work ground level to top of stack;  
Sandblasting and laying of carbon masonry material in swing  
stage and/or scaffold; Ramming and spading of plastics and  
gunniting: \$1.50 per hour above journeyman rate.

""Hot"" work: \$2.50 above journeyman rate.

-----  
\* BROH0052-001 06/01/2022

ATHENS COUNTY

Rates Fringes

Bricklayer, Stonemason.....\$ 31.40 18.55

-----  
\* BROH0052-003 06/01/2022

NOBLE (Brookfield, Noble, Center, Sharon, Olive, Enoch, Stock,  
Jackson, Jefferson & Elk Townships) and WASHINGTON COUNTIES

Rates Fringes

Bricklayer, Stonemason.....\$ 31.40 18.55

-----  
\* BROH0055-003 06/01/2022

DELAWARE, FRANKLIN, MADISON, PICKAWAY and UNION COUNTIES

Rates Fringes

Bricklayer, Stonemason.....\$ 31.40 18.55

-----  
CARP0003-004 05/01/2017

MAHONING & TRUMBULL

Rates Fringes

CARPENTER.....\$ 26.20 17.42

-----  
CARP0069-003 05/01/2017

CARROLL, STARK, TUSCARAWAS & WAYNE

Rates Fringes

CARPENTER.....\$ 25.98 15.98

-----  
CARP0069-006 05/01/2017

COSHOCTON, HOLMES, KNOX & MORROW

Rates Fringes

CARPENTER.....\$ 24.04 15.29

-----  
CARP0171-002 05/01/2019

BELMONT, COLUMBIANA, HARRISON, JEFFERSON & MONROE

Rates Fringes

CARPENTER.....\$ 27.37 20.02

-----  
CARP0200-002 05/01/2021

ADAMS, ATHENS, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GALLIA,  
GUERNSEY, HIGHLAND, HOCKING, JACKSON, LAWRENCE, LICKING,  
MADISON, MARION, MEIGS, MORGAN, MUSKINGUM, NOBLE, PERRY,  
PICKAWAY, PIKE, ROSS, SCIOTO, UNION, VINTON and WASHINGTON  
COUNTIES

Rates Fringes



CARPENTER.....	\$ 30.28	20.08
Diver.....	\$ 39.41	10.40
PILED RIVERMAN.....	\$ 30.28	20.08

---

CARP0248-005 07/01/2008

LUCAS & WOOD

	Rates	Fringes
--	-------	---------

CARPENTER.....	\$ 27.27	14.58
----------------	----------	-------

---

CARP0248-008 07/01/2008

	Rates	Fringes
--	-------	---------

CARPENTER DEFIANCE, FULTON, HANCOCK, HENRY, PAULDING & WILLIAMS COUNTIES.....	\$ 23.71	13.28
--	----------	-------

---

CARP0254-002 05/01/2017

ASHTABULA, CUYAHOGA, GEAUGA & LAKE

	Rates	Fringes
--	-------	---------

CARPENTER.....	\$ 32.40	16.97
----------------	----------	-------

---

CARP0372-002 05/01/2016

ALLEN, AUGLAIZE, HARDIN, MERCER, PUTNAM & VAN WERT

	Rates	Fringes
--	-------	---------

CARPENTER.....	\$ 24.54	18.21
----------------	----------	-------

---

CARP0639-003 05/01/2017

MEDINA, PORTAGE & SUMMIT

	Rates	Fringes
--	-------	---------

CARPENTER.....	\$ 30.42	16.99
----------------	----------	-------

---

CARP0735-002 05/01/2019

ASHLAND, ERIE, HURON, LORAIN & RICHLAND

	Rates	Fringes
--	-------	---------

CARPENTER.....	\$ 26.30	17.91
----------------	----------	-------

---

CARP1311-001 05/01/2017

BROWN, BUTLER, CHAMPAIGN, CLARK, CLERMONT, CLINTON, DARKE,  
GREENE, HAMILTON, LOGAN, MIAMI, MONTGOMERY, PREBLE, SHELBY &  
WARREN

Rates Fringes

Carpenter & Piledrivermen.....\$ 29.34 15.95  
Diver.....\$ 40.58 9.69

-----  
CARP1393-002 07/01/2008

CRAWFORD, DEFIANCE, FULTON, HANCOCK, HENRY, LUCAS, OTTAWA,  
PAULDING, SANDUSKY, SENECA, WILLIAMS & WOOD

Rates Fringes

Piledrivermen & Diver's Tender...\$ 27.30 16.05

DIVERS - \$250.00 per day

-----  
CARP1393-003 07/01/2008

ALLEN, AUGLAIZE, HARDIN, MERCER, PUTNAM, VAN WERT & WYANDOT

Rates Fringes

Piledrivermen & Diver's Tender...\$ 25.15 15.92

DIVERS - \$250.00 per day

-----  
CARP1871-006 05/01/2017

BELMONT, HARRISON, & MONROE

Rates Fringes

Diver, Wet.....\$ 48.11 17.33  
Piledrivermen; Diver, Dry.....\$ 32.07 17.33

-----  
CARP1871-008 05/01/2017

ASHLAND, ASHTABULA, CUYAHOGA, ERIE, GEAUGA, HURON, LAKE,  
LORAIN, MEDINA, PORTAGE, RICHLAND & SUMMIT

Rates Fringes

Diver, Wet.....\$ 45.80 18.84  
Piledrivermen; Diver, Dry.....\$ 30.53 18.84

-----

CARP1871-014 05/01/2017

CARROLL, STARK, TUSCARAWAS & WAYNE

Rates Fringes

Diver, Wet.....\$ 38.34 16.95  
Piledrivermen; Diver, Dry.....\$ 25.56 16.95

-----  
CARP1871-015 05/01/2017

COSHOCTON, HOLMES, KNOX & MORROW

Rates Fringes

Diver, Wet.....\$ 37.34 16.07  
Piledrivermen; Diver, Dry.....\$ 24.89 16.07

-----  
CARP1871-017 05/01/2017

MAHONING & TRUMBULL

Rates Fringes

Diver, Wet.....\$ 40.65 17.62  
Piledrivermen; Diver, Dry.....\$ 27.10 17.62

-----  
CARP2235-012 01/01/2014

COLUMBIANA & JEFFERSON

Rates Fringes

PILEDRIVERMAN.....\$ 31.74 16.41

-----  
CARP2239-001 07/01/2008

CRAWFORD, OTTAWA, SANDUSKY, SENECA & WYANDOT

Rates Fringes

CARPENTER.....\$ 23.71 13.28

-----  
ELEC0008-002 05/23/2022

DEFIANCE, FULTON, HANCOCK, HENRY, LUCAS, OTTAWA, PAULDING,  
PUTNAM, SANDUSKY, SENECA, WILLIAMS & WOOD

Rates Fringes

CABLE SPLICER.....\$ 38.98 18.96  
ELECTRICIAN.....\$ 44.79 4.5%+21.61

-----

ELEC0032-003 12/05/2022

ALLEN, AUGLAIZE, HARDIN, LOGAN, MERCER, SHELBY, VAN WERT & WYANDOT (Crawford, Jackson, Marseilles, Mifflin, Ridgeland, Ridge & Salem Townships)

Rates Fringes

ELECTRICIAN.....\$ 34.67 21.48

-----  
ELEC0038-002 04/25/2022

CUYAHOGA, GEAUGA (Bainbridge, Chester & Russell Townships) & LORAIN (Columbia Township)

Rates Fringes

ELECTRICIAN  
Excluding Sound & Communications Work.....\$ 40.88 22.75

FOOTNOTES;  
a. 6 Paid Holidays: New Year's Day; Memorial Day; July 4th; Labor Day; Thanksgiving Day; & Christmas Day  
b. 1 week's paid vacation for 1 year's service; 2 weeks' paid vacation for 2 or more years' service

-----  
ELEC0038-008 04/25/2022

CUYAHOGA, GEAUGA (Bainbridge, Chester & Russell Townships) & LORAIN (Columbia Township)

Rates Fringes

Sound & Communication Technician  
Communications Technician...\$ 29.30 13.29  
Installer Technician.....\$ 28.05 13.25

FOOTNOTES;  
a. 6 Paid Holidays: New Year's Day; Memorial Day; July 4th; Labor Day; Thanksgiving Day; & Christmas Day  
b. 1 week's paid vacation for 1 year's service; 2 weeks' paid vacation for 2 or more years' service

-----  
ELEC0064-003 11/28/2022

COLUMBIANA (Butler, Fairfield, Perry, Salem & Unity Townships) MAHONING (Austintown, Beaver, Berlin, Boardman, Canfield,

Ellsworth, Coitsville, Goshen, Green, Jackson, Poland, Springfield & Youngstown Townships), & TRUMBULL (Hubbard & Liberty Townships)

Rates Fringes

ELECTRICIAN.....\$ 36.10 18.91

-----  
ELEC0071-001 01/01/2019

ASHLAND, CHAMPAIGN, CLARK, COSHOCTON, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY, HIGHLAND, HOCKING, JACKSON (Coal, Jackson, Liberty, Milton, Washington & Wellston Townships), KNOX, LICKING, MADISON, MARION, MONROE, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE (Beaver, Benton, Jackson, Mifflin, Pebble, Peepee, Perry & Seal Townships), RICHLAND, ROSS, TUSCARAWAS (Auburn, Bucks, Clay, Jefferson, Oxford, Perry, Salem, Rush, Washington & York Townships), UNION, VINTON (Clinton, Eagle, Elk, Harrison, Jackson, Richland & Swan Townships), and WASHINGTON COUNTIES

Rates Fringes

Line Construction

Equipment Operators.....\$ 33.62 13.40  
Groundmen.....\$ 24.17 11.32  
Linemen & Cable Splicers....\$ 38.27 14.42

-----  
ELEC0071-004 01/01/2019

AUGLAIZE, CLINTON, DARKE, GREENE, LOGAN, MERCER, MIAMI, MONTGOMERY, PREBLE, and SHELBY COUNTIES

Rates Fringes

Line Construction

Equipment Operator.....\$ 33.62 13.40  
Groundman.....\$ 24.17 11.32  
Lineman & Cable Splicers....\$ 38.27 14.42

-----  
ELEC0071-005 12/31/2018

ASHTABULA, CUYAHOGA, GEAUGA, LAKE & LORAIN

Rates Fringes

LINE CONSTRUCTION: Equipment

Operator

DOT/Traffic Signal &  
Highway Lighting Projects...\$ 32.44 14.10  
Municipal Power/Transit

Projects.....	\$ 40.10	16.42
LINE CONSTRUCTION: Groundman		
DOT/Traffic Signal & Highway Lighting Projects...	\$ 25.06	12.26
Municipal Power/Transit Projects.....	\$ 31.19	14.11
LINE CONSTRUCTION:		
Linemen/Cable Splicer		
DOT/Traffic Signal & Highway Lighting Projects...	\$ 36.13	15.03
Municipal Power/Transit Projects.....	\$ 44.56	17.58

-----  
ELEC0071-008 01/01/2019

COLUMBIANA, MAHONING, and TRUMBULL COUNTIES

Rates Fringes

Line Construction		
Equipment Operator.....	\$ 33.62	13.40
Groundman.....	\$ 24.17	11.32
Lineman & Cable Splicers....	\$ 38.27	14.42

-----  
ELEC0071-010 01/01/2019

BELMONT, CARROLL, HARRISON, HOLMES, JEFFERSON, MEDINA, PORTAGE,  
STARK, SUMMIT, and WAYNE COUNTIES

Rates Fringes

Line Construction		
Equipment Operator.....	\$ 33.62	13.40
Groundman.....	\$ 24.17	11.32
Lineman & Cable Splicers....	\$ 38.27	14.42

-----  
ELEC0071-013 01/01/2019

BROWN, BUTLER, CLERMONT, HAMILTON, and WARREN COUNTIES

Rates Fringes

Line Construction		
Equipment Operator.....	\$ 33.62	13.40
Groundman.....	\$ 24.17	11.32
Lineman & Cable Splicers....	\$ 38.27	14.42

-----  
ELEC0071-014 01/01/2019

ADAMS, ATHENS, GALLIA, JACKSON (Bloomfield, Franklin, Hamilton,  
Lick, Jefferson, Scioto & Madison Townships), LAWRENCE, MEIGS,  
PIKE (Camp Creek, Marion, Newton, Scioto, Sunfish & Union  
Townships), SCIOTO & VINTON (Brown, Knox, Madison, Vinton &

Wilkesville Townships)

Rates Fringes

Line Construction

Equipment Operator.....	\$ 33.62	13.40
Groundman.....	\$ 24.17	11.32
Lineman & Cable Splicers....	\$ 38.27	14.42

-----  
ELEC0082-002 12/05/2022

CLINTON, DARKE, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN  
(Wayne, Clear Creek & Franklin Townships)

Rates Fringes

ELECTRICIAN.....	\$ 34.25	21.26
------------------	----------	-------

-----  
\* ELEC0082-006 11/28/2022

CLINTON, DARKE, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN  
(Wayne, Clear Creek & Franklin Townships)

Rates Fringes

Sound & Communication  
Technician

Cable Puller.....	\$ 13.10 **	4.76
Installer/Technician.....	\$ 26.20	13.89

-----  
ELEC0129-003 02/27/2023

LORAIN (Except Columbia Township) & MEDINA (Litchfield &  
Liverpool Townships)

Rates Fringes

ELECTRICIAN.....	\$ 39.30	18.30
------------------	----------	-------

-----  
ELEC0129-004 02/27/2023

ERIE & HURON (Lyme, Ridgefield, Norwalk, Townsend, Wakeman,  
Sherman, Peru, Bronson, Hartland, Clarksfield, Norwich,  
Greenfield, Fairfield, Fitchville & New London Townships)

Rates Fringes

ELECTRICIAN.....	\$ 39.30	18.30
------------------	----------	-------

ELEC0141-003 09/01/2019

BELMONT COUNTY

Rates Fringes

CABLE SPLICER.....	\$ 30.63	25.87
ELECTRICIAN.....	\$ 30.38	25.87

-----  
ELEC0212-003 11/26/2018

BROWN, CLERMONT & HAMILTON

Rates Fringes

Sound & Communication Technician.....	\$ 24.35	10.99
--	----------	-------

-----  
ELEC0212-005 06/06/2022

BROWN, CLERMONT, and HAMILTON COUNTIES

Rates Fringes

ELECTRICIAN.....	\$ 33.29	21.15
------------------	----------	-------

-----  
ELEC0245-001 08/29/2022

ALLEN, HARDIN, VAN WERT & WYANDOT (Crawford, Jackson, Marseilles, Mifflin, Richland, Ridge & Salem Townships)

Rates Fringes

Line Construction

Equipment Operator.....	\$ 32.37	26.5%+7.25
Groundman Truck Driver.....	\$ 19.35	7.00+27.25%
Lineman.....	\$ 44.22	7.00+27.25%

FOOTNOTE: a. Half day's Paid Holiday: The last 4 hours of the workday prior to Christmas or New Year's Day

-----  
ELEC0245-003 08/29/2022

DEFIANCE, FULTON, HANCOCK, HENRY, HURON, LUCAS, OTTAWA, PAULDING, PUTNAM, SANDUSKY, SENECA, WILLIAMS, and WOOD COUNTIES

Rates Fringes

Line Construction

Cable Splicer.....	\$ 50.85	7.00+27.25%
Groundman/Truck Driver.....	\$ 19.35	7.00+27.25%



Heli-arc Welding.....	\$ 40.76	7.00+27.25%
Lineman.....	\$ 44.22	7.00+27.25%
Operator - Class 1.....	\$ 35.38	7.00+27.25%
Operator - Class 2.....	\$ 28.32	7.00+27.25%
Traffic Signal & Lighting Technician.....	\$ 39.80	7.00+27.25%

FOOTNOTE: a. 6 Observed Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; & Christmas Day. Employees who work on a holiday shall be paid at a rate of double their applicable classified straight-time rates for the work performed on such holiday.

-----  
ELEC0245-004 08/29/2022

ERIE COUNTY

Rates Fringes

Line Construction

Cable Splicer.....	\$ 49.14	26.75%+6.75
Cablesplicer.....	\$ 50.85	7.00+27.25%
Groundman/Truck Driver.....	\$ 19.35	7.00+27.25%
Lineman.....	\$ 44.22	7.00+27.25%
Operator - Class 1.....	\$ 35.38	7.00+27.25%
Operator - Class 2.....	\$ 28.32	7.00+27.25%

FOOTNOTE: a. 6 Observed Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; & Christmas Day. Employees who work on a holiday shall be paid at a rate of double their applicable classified straight-time rates for the work performed on such holiday.

-----  
ELEC0246-001 10/31/2022

Rates Fringes

ELECTRICIAN.....	\$ 40.50	84%+36.47
------------------	----------	-----------

FOOTNOTE: a. 1 1/2 Paid Holidays: The last scheduled workday prior to Christmas & 4 hours on Good Friday.

-----  
ELEC0306-005 05/28/2018

MEDINA (Brunswick, Chatham, Granger, Guilford, Harrisville, Hinckley, Homer, Lafayette, Medina, Montville, Sharon, Spencer, Wadsworth, Westfield & York Townships), PORTAGE (Atwater, Aurora, Brimfield, Deerfield, Franklin, Mantua, Randolph, Ravenna, Rootstown, Shalersville, Streetsboro & Suffield Townships), SUMMIT & WAYNE (Baughman, Canaan, Chester, Chippewa, Congress, Green, Milton, & Wayne Townships)

Rates Fringes

CABLE SPLICER.....\$ 36.87 16.56  
ELECTRICIAN.....\$ 34.54 5%+18.06

-----  
ELEC0317-002 05/30/2022

GALLIA & LAWRENCE

Rates Fringes

CABLE SPLICER.....\$ 32.68 18.13  
ELECTRICIAN.....\$ 35.85 28.25

-----  
ELEC0540-005 12/27/2021

CARROLL (Northern half, including Fox, Harrison, Rose & Washington Townships), COLUMBIANA (Knox Township), HOLMES, MAHONING (Smith Township), STARK, TUSCARAWAS (North of Auburn, Clay, Rush & York Townships), and WAYNE (South of Baughman, Chester, Green & Wayne Townships) COUNTIES

Rates Fringes

ELECTRICIAN.....\$ 35.28 22.63

-----  
ELEC0573-003 11/28/2022

ASHTABULA (Colebrook, Wayne, Williamsfield, Orwell & Windsor Townships), GEAUGA (Auburn, Middlefield, Parkman & Troy Townships), MAHONING (Milton Township), PORTAGE (Charlestown, Edinburg, Freedom, Hiram, Nelson, Palmyra, Paris & Windham Townships), and TRUMBULL (Except Liberty & Hubbard Townships)

Rates Fringes

ELECTRICIAN.....\$ 38.70 20.94

-----  
ELEC0575-001 11/21/2022

ADAMS, FAYETTE, HIGHLAND, HOCKING, JACKSON (Bloomfield, Franklin, Hamilton, Jefferson, Lick, Madison, Scioto, Coal, Jackson, Liberty, Milton & Washington Townships), PICKAWAY (Deer Creek, Perry, Pickaway, Salt Creek & Wayne Townships), PIKE (Beaver, Benton, Jackson, Mifflin, Pebble, PeePee, Perry, Seal, Camp Creek, Newton, Scioto, Sunfish, Union & Marion Townships), ROSS, SCIOTO & VINTON (Clinton, Eagle, Elk, Harrison, Jackson, Richland & Swan Townships)

	Rates	Fringes
ELECTRICIAN.....	\$ 36.00	21.14

-----  
 ELEC0648-001 08/29/2022

BUTLER and WARREN COUNTIES (Deerfield, Hamilton, Harlan, Massie, Salem, Turtle Creek, Union & Washington Townships)

	Rates	Fringes
CABLE SPLICER.....	\$ 30.50	18.23
ELECTRICIAN.....	\$ 33.00	21.44

-----  
 ELEC0673-004 01/01/2023

ASHTABULA (Excluding Orwell, Colebrook, Williamsfield, Wayne & Windsor Townships), GEAUGA (Burton, Chardon, Claridon, Hambden, Huntsburg, Montville, Munson, Newbury & Thompson Townships) and LAKE COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 33.81	21.47
ELECTRICIAN.....	\$ 35.15	23.41

-----  
 ELEC0683-002 05/30/2022

CHAMPAIGN, CLARK, DELAWARE, FAIRFIELD, FRANKLIN, MADISON, PICKAWAY (Circleville, Darby, Harrison, Jackson, Madison, Monroe, Muhlenberg, Scioto, Walnut & Washington Townships), and UNION COUNTIES

	Rates	Fringes
CABLE SPLICER.....	\$ 37.50	23.15
ELECTRICIAN.....	\$ 36.50	23.15

-----  
 ELEC0688-003 05/30/2022

ASHLAND, CRAWFORD, HURON (Richmond, New Haven, Ripley & Greenwich Townships), KNOX (Liberty, Clinton, Union, Howard, Monroe, Middleberry, Morris, Wayne, Berlin, Pike, Brown & Jefferson Townships), MARION, MORROW, RICHLAND and WYANDOT (Sycamore, Crane, Eden, Pitt, Antrim & Tymochtee Townships) COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 32.30	21.83

-----  
ELEC0972-002 06/01/2021

ATHENS, MEIGS, MONROE, MORGAN, NOBLE, VINTON (Brown, Knox, Madison, Vinton & Wilkesville Townships), and WASHINGTON COUNITIES

	Rates	Fringes
CABLE SPLICER.....	\$ 37.35	27.81
ELECTRICIAN.....	\$ 34.30	27.62

-----  
ELEC1105-001 05/30/2022

COSHOCTON, GUERNSEY, KNOX (Jackson, Clay, Morgan, Miller, Milford, Hilliar, Butler, Harrison, Pleasant & College Townships), LICKING, MUSKINGUM, PERRY, and TUSCARAWAS (Auburn, York, Clay, Jefferson, Rush, Oxford, Washington, Salem, Perry & Bucks Townships) COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 35.25	22.18

-----  
ENGI0018-003 05/01/2019

ASHTABULA, CUYAHOGA, ERIE, GEAUGA, LAKE, LORAIN, MEDINA, PORTAGE, and SUMMIT COUNTIES

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 38.63	15.20
GROUP 2.....	\$ 38.53	15.20
GROUP 3.....	\$ 37.49	15.20
GROUP 4.....	\$ 36.27	15.20
GROUP 5.....	\$ 30.98	15.20
GROUP 6.....	\$ 38.88	15.20
GROUP 7.....	\$ 39.13	15.20

#### OPERATING ENGINEER CLASSIFICATIONS

GROUP 1 - Air Compressor on Steel Erection; Barrier Moving Machine; Boiler Operator on Compressor or Generator when mounted on a Rig; Cableway; Combination Concrete Mixer & Tower; Concrete Plant (over 4 yd. Capacity); Concrete Pump; Crane (All Types, Including Boom Truck, Cherry Picker); Crane-Compact, Track or Rubber over 4,000 lbs. capacity; Cranes-Self Erecting, Stationary, Track or Truck (All Configurations); Derrick; Dragline; Dredge (Dipper, Clam or Suction); Elevating Grader or Euclid Loader; Floating

Equipment (All Types); Gradall; Helicopter Crew (Operator-Hoist or Winch); Hoe (all types); Hoisting Engine on Shaft or Tunnel Work; Hydraulic Gantry (Lifting System); Industrial-Type Tractor; Jet Engine Dryer (D8 or D9) Diesel Tractor; Locomotive (Standard Gauge); Maintenance Operator Class A; Mixer, Paving (Single or Double Drum); Mucking Machine; Multiple Scraper; Piledriving Machine (All Types); Power Shovel; Prentice Loader; Quad 9 (Double Pusher); Rail Tamper (with auto lifting & aligning device); Refrigerating Machine (Freezer Operation); Rotary Drill, on Caisson work; Rough Terrain Fork Lift with Winch/Hoist; Side-Boom; Slip-Form Paver; Tower Derrick; Tree Shredder; Trench Machine (Over 24" wide); Truck Mounted Concrete Pump; Tug Boat; Tunnel Machine and/or Mining Machine; Wheel Excavator; and Asphalt Plant Engineer (Cleveland District Only).

GROUP 2 - Asphalt Paver; Automatic Subgrader Machine, Self-Propelled (CMI Type); Bobcat Type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Boring Machine More than 48"; Bulldozer; Endloader; Horizontal Directional Drill (Over 50,000 ft lbs thrust); Hydro Milling Machine; Kolman-type Loader (production type-Dirt); Lead Greaseman; Lighting & Traffic Signal Installation Equipment (includes all groups or classifications); Material Transfer Equipment (Shuttle Buggy) Asphalt; Pettibone-Rail Equipment; Power Grader; Power Scraper; Push Cat; Rotomill (all), Grinders & Planers of All types; Trench Machine (24" wide & under); Vermeer type Concrete Saw; and Maintenance Operators (Portage and Summit Counties Only).

GROUP 3 - A-Frame; Air Compressor on Tunnel Work (low pressure); Asphalt Plant Engineer (Portage and Summit Counties Only); Bobcat-type and/or Skid Steer Loader with or without Attachments; Highway Drills (all types); Locomotive (narrow gauge); Material Hoist/Elevator; Mixer, Concrete (more than one bag capacity); Mixer, one bag capacity (Side Loader); Power Boiler (Over 15 lbs. Pressure) Pump Operator installing & operating Well Points; Pump (4" & over discharge); Roller, Asphalt; Rotovator (lime soil stabilizer); Switch & Tie Tampers (without lifting & aligning device); Utility Operator (Small equipment); Welding Machines; and Railroad Tie Inserter/Remover; Articulating/straight bed end dumps if assigned (minus \$4.00 per hour).

GROUP 4 - Backfiller; Ballast Re-locator; Bars, Joint & Mesh Installing Machine; Batch Plant; Boring Machine Operator (48" or less); Bull Floats; Burlap & Curing Machine; Concrete Plant (capacity 4 yd. & under); Concrete Saw (Multiple); Conveyor (Highway); Crusher; Deckhand; Farm-type Tractor with attachments (highway); Finishing Machine; Fireperson, Floating Equipment (all types);

Forklift; Form Trencher; Hydro Hammer expect masonry; Hydro Seeder; Pavement Breaker; Plant Mixer; Post Driver; Post Hole Digger (Power Auger); Power Brush Burner; Power Form Handling Equipment; Road Widening Trencher; Roller (Brick, Grade & Macadam); Self-Propelled Power Spreader; Self-Propelled Power Subgrader; Steam Fireperson; Tractor (Pulling Sheepfoot, Roller or Grader); and Vibratory Compactor with Integral Power.

GROUP 5 - Compressor (Portable, Sewer, Heavy & Highway); Drum Fireperson (Asphalt Plant); Generator; Masonry Fork Lift; Inboard-Outboard Motor Boat Launch; Oil Heater (asphalt plant); Oiler/Helper; Power Driven Heater; Power Sweeper & Scrubber; Pump (under 4" discharge); Signalperson; Tire Repairperson; VAC/ALLS; Cranes - Compact, track or rubber under 4,000 pound capacity; fueling and greasing; and Chainmen.

GROUP 6 - Master Mechanic & Boom from 150 to 180.

GROUP 7 - Boom from 180 and over.

-----  
ENGI0018-004 05/01/2019

ADAMS, ALLEN, ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, LUCAS, MADISON, MARION, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD, and YANDOT COUNTIES

Rates      Fringes

POWER EQUIPMENT OPERATOR

GROUP 1.....	\$ 37.14	15.20
GROUP 2.....	\$ 37.02	15.20
GROUP 3.....	\$ 35.98	15.20
GROUP 4.....	\$ 34.80	15.20
GROUP 5.....	\$ 29.34	15.20
GROUP 6.....	\$ 37.39	15.20
GROUP 7.....	\$ 37.64	15.20

OPERATING ENGINEER CLASSIFICATIONS

GROUP 1 - Air Compressor on Steel Erection; Barrier Moving Machine; Boiler Operator on Compressor or Generator when

mounted on a Rig; Cableway; Combination Concrete Mixer & Tower; Concrete Plant (over 4 yd. Capacity); Concrete Pump; Crane (All Types, Including Boom Truck, Cherry Picker); Crane-Compact, Track or Rubber over 4,000 lbs. capacity; Cranes-Self Erecting, Stationary, Track or Truck (All Configurations); Derrick; Dragline; Dredge (Dipper, Clam or Suction); Elevating Grader or Euclid Loader; Floating Equipment (All Types); Gradall; Helicopter Crew (Operator-Hoist or Winch); Hoe (all types); Hoisting Engine on Shaft or Tunnel Work; Hydraulic Gantry (Lifting System); Industrial-Type Tractor; Jet Engine Dryer (D8 or D9) Diesel Tractor; Locomotive (Standard Gauge); Maintenance Operator Class A; Mixer, Paving (Single or Double Drum); Mucking Machine; Multiple Scraper; Piledriving Machine (All Types); Power Shovel; Prentice Loader; Quad 9 (Double Pusher); Rail Tamper (with auto lifting & aligning device); Refrigerating Machine (Freezer Operation); Rotary Drill, on Caisson work; Rough Terrain Fork Lift with Winch/Hoist; Side-Boom; Slip-Form Paver; Tower Derrick; Tree Shredder; Trench Machine (Over 24" wide); Truck Mounted Concrete Pump; Tug Boat; Tunnel Machine and/or Mining Machine; and Wheel Excavator.

GROUP 2 - Asphalt Paver; Automatic Subgrader Machine, Self-Propelled (CMI Type); Bobcat Type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Boring Machine More than 48"; Bulldozer; Endloader; Hydro Milling Machine; Horizontal Directional Drill (over 50,000 ft. lbs. thrust); Kolman-type Loader (production type-Dirt); Lead Greaseman; Lighting & Traffic Signal Installation Equipment (includes all groups or classifications); Material Transfer Equipment (Shuttle Buggy) Asphalt; Pettibone-Rail Equipment; Power Grader; Power Scraper; Push Cat; Rotomill (all), Grinders & Planers of All types; Trench Machine (24" wide & under); and Vermeer type Concrete Saw.

GROUP 3 - A-Frame; Air Compressor on Tunnel Work (low pressure); Asphalt Plant Engineer; Bobcat-type and/or Skid Steer Loader with or without Attachments; Highway Drills (all types); Locomotive (narrow gauge); Material Hoist/Elevator; Mixer, Concrete (more than one bag capacity); Mixer, one bag capacity (Side Loader); Power Boiler (Over 15 lbs. Pressure) Pump Operator installing & operating Well Points; Pump (4" & over discharge); Railroad Tie Inserter/Remover; Roller, Asphalt; Rotovator (lime soil stabilizer); Switch & Tie Tampers (without lifting & aligning device); Utility Operator (Small equipment); and Welding Machines; Articulating/straight bed end dumps if assigned (minus \$4.00 per hour).

GROUP 4 - Backfiller; Ballast Re-locator; Bars, Joint & Mesh Installing Machine; Batch Plant; Boring Machine Operator (48" or less); Bull Floats; Burlap & Curing Machine; Concrete Plant (capacity 4 yd. & under); Concrete Saw

(Multiple); Conveyor (Highway); Crusher; Deckhand; Farm-type Tractor with attachments (highway); Finishing Machine; Fireperson, Floating Equipment (all types); Fork Lift; Form Trencher; Hydro Hammer expect masonry; Hydro Seeder; Pavement Breaker; Plant Mixer; Post Driver; Post Hole Digger (Power Auger); Power Brush Burner; Power Form Handling Equipment; Road Widening Trencher; Roller (Brick, Grade & Macadam); Self-Propelled Power Spreader; Self-Propelled Power Subgrader; Steam Fireperson; Tractor (Pulling Sheepfoot, Roller or Grader); and Vibratory Compactor with Integral Power.

GROUP 5 - Compressor (Portable, Sewer, Heavy & Highway); Drum Fireperson (Asphalt Plant); Generator; Masonary Forklift; Inboard-Outboard Motor Boat Launch; Oil Heater (asphalt plant); Oiler/Helper; Power Driven Heater; Power Sweeper & Scrubber; Pump (under 4" discharge); Signalperson; Tire Repairperson; VAC/ALLS; Cranes - Compact, track or rubber under 4,000 pound capacity; fueling and greasing; and Chainmen.

GROUP 6 - Master Mechanic & Boom from 150 to 180.

GROUP 7 - Boom from 180 and over.

-----  
 ENGI0066-023 06/01/2017

COLUMBIANA, MAHONING & TRUMBULL COUNTIES

Rates      Fringes

POWER EQUIPMENT OPERATOR		
ASBESTOS; HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 1 - A & B.....\$ 39.23		19.66
ASBESTOS; HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 2 - A & B.....\$ 38.90		19.66
ASBESTOS; HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 3 - A & B.....\$ 34.64		19.66
ASBESTOS; HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 4 - A & B.....\$ 30.70		19.66
ASBESTOS; HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 5 - A & B.....\$ 27.30		19.66
HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 1 - C & D.....\$ 35.96		19.66
HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 2 - C & D.....\$ 35.66		19.66



HAZARDOUS/TOXIC WASTE  
PROJECTS

GROUP 3 - C & D.....\$ 31.76            19.66

HAZARDOUS/TOXIC WASTE  
PROJECTS

GROUP 4 - C & D.....\$ 28.14            19.66

HAZARDOUS/TOXIC WASTE  
PROJECTS

GROUP 5 - C & D.....\$ 25.03            19.66

ALL OTHER WORK

GROUP 1.....\$ 32.69            19.66

ALL OTHER WORK

GROUP 2.....\$ 32.42            19.66

ALL OTHER WORK

GROUP 3.....\$ 28.87            19.66

ALL OTHER WORK

GROUP 4.....\$ 25.58            19.66

ALL OTHER WORK

GROUP 5.....\$ 22.75            19.66

GROUP 1 - Rig, Pile Driver or Caisson Type; & Rig, Pile Hydraulic Unit Attached

GROUP 2 - Asphalt Heater Planer; Backfiller with Drag Attachment; Backhoe; Backhoe with Shear attached; Backhoe-Rear Pivotal Swing; Batch Plant-Central Mix Concrete; Batch Plant, Portable concrete; Berm Builder-Automatic; Boat Derrick; Boat-Tug; Boring Machine Attached to Tractor; Bullclam; Bulldozer; C.M.I. Road Builder & Similar Type; Cable Placer & Layer; Carrier-Straddle; Carryall-Scraper or Scoop; Chicago Boom; Compactor with Blade Attached; Concrete Saw (Vermeer or similar type); Concrete Spreader Finisher; Combination, Bidwell Machine; Crane; Crane-Electric Overhead; Crane-Rough Terrain; Crane-Side Boom; Crane-Truck; Crane-Tower; Derrick-Boom; Derrick-Car; Digger-Wheel (Not trencher or road widener); Double Nine; Drag Line; Dredge; Drill-Kenny or Similar Type; Easy Pour Median Barrier Machine (or similar type); Electromatic; Frankie Pile; Gradall; Grader; Gurry; Self-Propelled; Heavy Equipment Robotics Operator/Mechanic; Hoist-Monorail; Hoist-Stationary & Mobile Tractor; Hoist, 2 or 3 drum; Horizontal Directional Drill Operator; Jackall; Jumbo Machine; Kocal & Kuhlman; Land-Seagoing Vehicle; Loader, Elevating; Loader, Front End; Loader, Skid Steer; Locomotive; Mechanic/Welder; Metro Chip Harvester with Boom; Mucking Machine; Paver-Asphalt Finishing Machine; Paver-Road Concrete; Paver-Slip Form (C.M.I. or similar); Place Crete Machine with Boom; Post Driver (Carrier mounted); Power Driven Hydraulic Pump & Jack (When used in Slip Form or Lift Slab Construction); Pump Crete Machine; Regulator-Ballast; Hydraulic Power Unit not attached to Rig for Pile Drillings; Rigs-Drilling; Roto Mill or similar Full Lane (8' Wide & Over); Roto Mill or similar type

(Under 8'); Shovel; Slip Form Curb Machine; Speedwing; Spikemaster; Stonecrusher; Tie Puller & Loader; Tie Tamper; Tractor-Double Boom; Tractor with Attachments; Truck-Boom; Truck-Tire; Trench Machine; Tunnel Machine (Mark 21 Java or similar); & Whirley (or similar type)

GROUP 3 - Asphalt Plant; Bending Machine (Pipeline or similar type); Boring machine, Motor Driven; Chip Harvester without Boom; Cleaning Machine, Pipeline Type; Coating Machine, Pipeline Type; Compactor; Concrete Belt Placer; Concrete Finisher; Concrete Planer or Asphalt; Concrete Spreader; Elevator; Fork Lift (Home building only); Fork lift & Lulls; Fork Lift Walk Behind (Hoisting over 1 buck high); Form Line Machine; Grease Truck operator; Grout Pump; Gunnite Machine; Horizontal Directional Drill Locator; Single Drum Hoist with or without Tower; Huck Bolting Machine; Hydraulic Scaffold (Hoisting building materials); Paving Breaker (Self-propelled or Ridden); Pipe Dream; Pot Fireperson (Power Agitated); Refrigeration Plant; Road Widener; Roller; Sasgen Derrick; Seeding Machine; Soil Stabilizer (Pump type); Spray Cure Machine, Self-Propelled; Straw Blower Machine; Sub-Grader; Tube Finisher or Broom C.M.I. or similar type; & Tugger Hoist

GROUP 4 - Air Curtain Destructor & Similar Type; Batch Plant-Job Related; Boiler Operator; Compressor; Conveyor; Curb Builder, self-propelled; Drill Wagon; Generator Set; Generator-Steam; Heater-Portable Power; Hydraulic Manipulator Crane; Jack-Hydraulic Power driven; Jack-Hydraulic (Railroad); Ladavator; Minor Machine Operator; Mixer-Concrete; Mulching Machine; Pin Puller; Power Broom; Pulverizer; Pump; Road Finishing Machine (Pull Type); Saw-Concrete-Self-Propelled (Highway Work); Signal Person; Spray Cure Machine-Motor Powered; Stump Cutter; Tractor; Trencher Form; Water Blaster; Steam Jenny; Syphon; Vibrator-Gasoline; & Welding Machine

GROUP 5 - Brakeperson; Fireperson; & Oiler

---

IRON0017-002 05/01/2022

ASHTABULA (North of Route 6, starting at the Geauga County Line, proceeding east to State Route 45), CUYAHOGA, ERIE (Eastern 2/3), GEAUGA, HURON (East of a line drawn from the north border through Monroeville & Willard), LAKE, LORAIN, MEDINA (North of Old Rte. #224), PORTAGE (West of a line from Middlefield to Shalersville to Deerfield), and SUMMIT (North of Old Rte. #224, including city limits of Barberton) COUNTIES

Rates Fringes

IRONWORKER

Ornamental, Reinforcing, &  
Structural.....\$ 34.33      27.51

---

IRON0017-010 05/01/2022

ASHTABULA (Eastern part from Lake Erie on the north to route #322 on the south to include Conneaut, Kingsville, Sheffield, Denmark, Dorset, Cherry Valley, Wayne, Monroe, Pierpont, Richmond, Andover & Williamsfield Townships)

Rates      Fringes

IRONWORKER

Structural, including  
metal building erection &  
Reinforcing.....\$ 34.33      27.51

---

IRON0044-001 06/01/2022

ADAMS (Western Part), BROWN, BUTLER (Southern Part), CLERMONT, CLINTON (South of a line drawn from Blanchester to Lynchburg), HAMILTON, HIGHLAND (Excluding eastern one-fifth & portion of county inside lines drawn from Marshall to Lynchburg from the northern county line through E. Monroe to Marshall) and WARREN (South of a line drawn from Blanchester through Morrow to the west county line) COUNTIES

Rates      Fringes

IRONWORKER, REINFORCING.....\$ 32.37      22.30  
Beyond 30-mile radius of  
Hamilton County Courthouse..\$ 28.67      21.20  
Up to & including 30-mile  
radius of Hamilton County  
Courthouse.....\$ 27.60      20.70

---

IRON0044-002 06/01/2022

CLINTON (South of a line drawn from Blanchester to Lynchburg), HAMILTON, HIGHLAND (Excluding eastern one-fifth & portion of county inside lines drawn from Marshall to Lynchburg from the northern county line through E. Monroe to Marshall) & WARREN (South of a line drawn from Blanchester through Morrow to the west county line)

Rates      Fringes

IRONWORKER

Fence Erector.....\$ 30.28      22.30  
Ornamental; Structural.....\$ 31.87      22.30

---

\* IRON0055-003 07/01/2022

CRAWFORD (Area Between lines drawn from where Hwy #598 & #30 meet through N. Liberty to the northern border & from said Hwy junction point due west to the border), DEFIANCE (S. of a line drawn from where Rte. #66 meets the northern line through Independence to the eastern county border), ERIE (Western 1/3), FULTON, HANCOCK, HARDIN (North of a line drawn from Maysville to a point 4 miles south of the northern line on the eastern line), HENRY, HURON (West of a line drawn from the northern border through Monroeville & Willard), LUCAS, OTTAWA, PUTNAM (East of a line drawn from the northern border down through Miller City to where #696 meets the southern border), SANDUSKY, SENECA, WILLIAMS (East of a line drawn from Pioneer through Stryker to the southern border), WOOD & WYANDOT (North of Rte. #30)

Rates Fringes

IRONWORKER

Fence Erector.....	\$ 24.60	22.87
Flat Road Mesh.....	\$ 29.77	21.30
Tunnels & Caissons Under Pressure.....	\$ 29.77	21.30
All Other Work.....	\$ 31.25	26.90

-----  
IRON0147-002 06/01/2022

ALLEN (Northern half), DEFIANCE (Northern part, excluding south of a line drawn from where Rte. #66 meets the northern line through Independence to the eastern county border), MERCER (Northern half), PAULDING, PUTNAM (Western part, excluding east of a line drawn from the northern border down through Miller City to where #696 meets the southern border), VAN WERT, and WILLIAMS (Western part, excluding east of a line drawn from Pioneer through Stryker to the southern border) COUNTIES

Rates Fringes

IRONWORKER.....	\$ 31.20	28.47
-----------------	----------	-------

-----  
IRON0172-002 06/01/2022

CHAMPAIGN (Eastern one-third), CLARK (Eastern one-fourth), COSHOCTON (West of a line beginning at the northwestern county line going through Walhonding & Tunnel Hill to the southern county line), CRAWFORD (South of Rte. #30), DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HARDIN (Excluding a line drawn from Roundhead to Maysville), HIGHLAND (Eastern one-fifth), HOCKING, JACKSON (Northern half), KNOX, LICKING, LOGAN (Eastern one-third), MADISON, MARION, MORROW, MUSKINGUM (West of a line starting at Adams Mill going to Adamsville & going from

Adamsville through Blue Rock to the southern border), PERRY, PICKAWAY, PIKE (Northern half), ROSS, UNION, VINTON and WYANDOT (South of Rte. #30) COUNTIES

Rates Fringes

IRONWORKER.....\$ 33.27 21.20

-----  
IRON0207-004 06/01/2022

ASHTABULA (Southern part starting at the Geauga County line), COLUMBIANA (E. of a line from Damascus to Highlandtown), MAHONING (N. of Old Route #224), PORTAGE (E. of a line from Middlefield to Shalersville to Deerfield) & TRUMBULL

Rates Fringes

IRONWORKER

Layout; Sheeter.....\$ 32.92 26.26

Ornamental; Reinforcing;  
Structural.....\$ 31.92 26.26

Ornamental; Reinforcing.....\$ 28.92 25.61

-----  
IRON0290-002 06/01/2022

ALLEN (Southern half), AUGLAIZE, BUTLER (North of a line drawn from east to the west county line going through Oxford, Darrtown & Woodsdale), CHAMPAIGN (Excluding east of a line drawn from Catawla to the point where #68 intersects the northern county line), CLARK (Western two-thirds), CLINTON (Excluding south of a line drawn from Blanchester to Lynchburg), DARKE, GREENE, HIGHLAND (Inside lines drawn from Marshall to Lynchburg & from the northern county line through East Monroe to Marshall), LOGAN (West of a line drawn from West Liberty to where the northern county line meets the western county line of Hardin), MERCER (Southern half), MIAMI, MONTGOMERY, PREBLE, SHELBY & WARREN (Excluding south of a line drawn from Blanchester through Morrow to the western county line) COUNTIES

Rates Fringes

IRONWORKER.....\$ 31.59 23.85

-----  
IRON0549-003 12/01/2022

BELMONT, GUERNSEY, HARRISON, JEFFERSON, MONROE & MUSKINGUM (Excluding portion west of a line starting at Adams Mill going to Adamsville and going from Adamsville through Blue Rock to the south border)

Rates Fringes

IRONWORKER.....\$ 35.19 25.66

IRON0550-004 05/01/2022

ASHLAND, CARROLL, COLUMBIANA (W. of a line from Damascus to Highlandtown), COSHOCTON (E. of a line beginning at NW Co. line going through Walhonding & Tunnel Hill to the South Co. line), HOLMES, HURON (S. of Old Rte. #224), MAHONING (S. of Old Rte. #224), MEDINA (S. of Old Rte. #224), PORTAGE (S. of Old Rte. #224), RICHLAND, STARK, SUMMIT (S. of Old Rte. #224, Excluding city limits of Barberton), TUSCARAWAS, & WAYNE

Rates Fringes

Ironworkers:Structural,  
Ornamental and Reinforcing.....\$ 30.97 21.69

IRON0769-004 06/01/2022

ADAMS (Eastern Half), GALLIA, JACKSON (Southern Half), LAWRENCE & SCIOTO

Rates Fringes

IRONWORKER.....\$ 33.71 27.69

IRON0787-003 06/01/2022

ATHENS, MEIGS, MORGAN, NOBLE, and WASHINGTON COUNTIES

Rates Fringes

IRONWORKER.....\$ 31.50 23.75

LABO0265-008 05/01/2022

Rates Fringes

LABORER

ASHTABULA, ERIE, HURON,  
LORAIN, LUCAS, MAHONING,  
MEDINA, OTTAWA, PORTAGE,  
SANDUSKY, STARK, SUMMIT,  
TRUMBULL & WOOD COUNTIES

GROUP 1.....\$ 34.95 12.10

GROUP 2.....\$ 35.12 12.10

GROUP 3.....\$ 35.45 12.10

GROUP 4.....\$ 35.90 12.10

CUYAHOGA AND GEAUGA

COUNTIES ONLY: SEWAGE PLANTS, WASTE PLANTS, WATER TREATMENT FACILITIES, PUMPING STATIONS, & ETHANOL PLANTS CONSTRUCTION.....	\$ 37.56	12.10
CUYAHOGA, GEauga & LAKE COUNTIES		
GROUP 1.....	\$ 36.18	12.10
GROUP 2.....	\$ 36.35	12.10
GROUP 3.....	\$ 36.68	12.10
GROUP 4.....	\$ 37.13	12.10
REMAINING COUNTIES OF OHIO		
GROUP 1.....	\$ 34.52	12.10
GROUP 2.....	\$ 34.69	12.10
GROUP 3.....	\$ 35.02	12.10
GROUP 4.....	\$ 35.47	12.10

## LABORER CLASSIFICATIONS

GROUP 1 - Asphalt Laborer; Carpenter Tender; Concrete Curing Applicator; Dump Man (Batch Truck); Guardrail and Fence Installer; Joint Setter; Laborer (Construction); Landscape Laborer; Mesh Handlers & Placer; Right-of-way Laborer; Riprap Laborer & Grouter; Scaffold Erector; Seal Coating; Surface Treatment or Road Mix Laborer; Sign Installer; Slurry Seal; Utility Man; Bridge Man; Handyman; Waterproofing Laborer; Flagperson; Hazardous Waste (level D); Diver Tender; Zone Person & Traffic Control

GROUP 2 - Asphalt Raker; Concrete Puddler; Kettle Man (Pipeline); Machine Driven Tools (Gas, Electric, Air); Mason Tender; Brick Paver; Mortar Mixer; Power Buggy or Power Wheelbarrow; Paint Striper; Sheeting & Shoring Man; Surface Grinder Man; Plastic Fusing Machine Operator; Pug Mill Operator; & Vacuum Devices (wet or dry); Rodding Machine Operator; Diver; Screwman or Paver; Screed Person; Water Blast, Hand Held Wand; Pumps 4" & Under (Gas, Air or Electric) & Hazardous Waste (level C); Air Track and Wagon Drill; Bottom Person; Cofferdam (below 25 ft. deep); Concrete Saw Person; Cutting with Burning Torch; Form Setter; Hand Spiker (Railroad); Pipelayer; Tunnel Laborer (without air) & Caisson; Underground Person (working in Sewer and Waterline, Cleaning, Repairing & Reconditioning); Sandblaster Nozzle Person; & Hazardous Waste (level B)

GROUP 3 - Blaster; Mucker; Powder Person; Top Lander; Wrencher (Mechanical Joints & Utility Pipeline); Yarnier; Hazardous Waste (level A); Concrete Specialist; Concrete Crew in Tunnels (With Air-pressurized - \$1.00 premium); Curb Setter & Cutter; Grade Checker; Utility Pipeline Tapper; Waterline; and Caulker

GROUP 4 - Miner (With Air-pressurized - \$1.00 premium); &

Gunite Nozzle Person

TUNNEL LABORER WITH AIR-PRESSURIZED ADD \$1.00 TO BASE RATE

SIGNAL PERSON WILL RECEIVE THE RATE EQUAL TO THE RATE PAID THE LABORER CLASSIFICATION FOR WHICH HE OR SHE IS SIGNALING.

-----  
PAIN0006-002 05/01/2018

ASHTABULA, CUYAHOGA, GEAUGA, LAKE, LORAIN, PORTAGE (N. of the East-West Turnpike) & SUMMIT (N. of the East-West Turnpike)

Rates      Fringes

PAINTER

COMMERCIAL NEW WORK;  
REMODELING; & RENOVATIONS

GROUP 1.....	\$ 27.90	16.16
GROUP 2.....	\$ 28.30	16.16
GROUP 3.....	\$ 28.60	16.16
GROUP 4.....	\$ 34.16	16.16

COMMERCIAL REPAINT

GROUP 1.....	\$ 26.40	16.16
GROUP 2.....	\$ 26.80	16.16
GROUP 3.....	\$ 27.10	16.16

PAINTER CLASSIFICATIONS - COMMERCIAL NEW WORK; REMODELING; & RENOVATIONS

GROUP 1 - Brush; & Roller

GROUP 2 - Sandblasting & Buffing

GROUP 3 - Spray Painting; Closed Steel Above 55 feet; Bridges & Open Structural Steel; Tanks - Water Towers; Bridge Painters; Bridge Riggers; Containment Builders

GROUP 4 - Bridge Blaster

PAINTER CLASSIFICATIONS - COMMERCIAL REPAINT

GROUP 1 - Brush; & Roller

GROUP 2 - Sandblasting & Buffing

GROUP 3 - Spray Painting

-----  
PAIN0007-002 07/01/2021

FULTON, HENRY, LUCAS, OTTAWA (Excluding Allen, Bay, Bono, Catawba Island, Clay Center, Curtice, Danbury, Eagle Beach,



Elliston, Elmore, Erie, Fishback, Gem Beach & Genova) & WOOD

Rates Fringes

PAINTER

NEW COMMERCIAL WORK

GROUP 1.....	\$ 28.74	18.77
GROUP 2.....	\$ 28.74	18.77
GROUP 3.....	\$ 28.74	18.77
GROUP 4.....	\$ 28.74	18.77
GROUP 5.....	\$ 28.74	18.77
GROUP 6.....	\$ 28.74	18.77
GROUP 7.....	\$ 28.74	18.77
GROUP 8.....	\$ 28.74	18.77
GROUP 9.....	\$ 28.74	18.77

REPAINT IS 90% OF JR

PAINTER CLASSIFICATIONS

GROUP 1 - Brush; Spray & Sandblasting Pot Tender

GROUP 2 - Refineries & Refinery Tanks; Surfaces 30 ft. or over where material is applied to or labor performed on above ground level (exterior), floor level (interior)

GROUP 3 - Swing Stage & Chair

GROUP 4 - Lead Abatement

GROUP 5 - All Methods of Spray

GROUP 6 - Solvent-Based Catalized Epoxy Materials of 2 or More Component Materials, to include Solvent-Based Conversion Varnish (excluding water based)

GROUP 7 - Spray Solvent Based Material; Sand & Abrasive Blasting

GROUP 8 - Towers; Tanks; Bridges; Stacks Over 30 Feet

GROUP 9 - Epoxy Spray (excluding water based)

-----  
PAIN0012-008 05/01/2019

BUTLER COUNTY

Rates Fringes

PAINTER

GROUP 1.....	\$ 21.95	10.20
GROUP 2.....	\$ 25.30	10.20

GROUP 3.....	\$ 25.80	10.20
GROUP 4.....	\$ 26.05	10.20
GROUP 5.....	\$ 26.30	10.20

PAINTER CLASSIFICATIONS

GROUP 1: Bridge Equipment Tender; Bridge/Containment Builder

GROUP 2: Brush & Roller

GROUP 3: Spray

GROUP 4: Sandblasting; & Waterblasting

GROUP 5: Elevated Tanks; Steeplejack Work; Bridge; & Lead Abatement

---

PAIN0012-010 05/01/2019

BROWN, CLERMONT, CLINTON, HAMILTON & WARREN

Rates      Fringes

PAINTER

HEAVY & HIGHWAY BRIDGES-  
GUARDRAILS-LIGHTPOLES-  
STRIPING

Bridge Equipment Tender and Containment Builder....	\$ 21.95	10.20
Bridges when highest point of clearance is 60 feet or more; & Lead Abatement Projects.....	\$ 26.30	10.20
Brush & Roller.....	\$ 25.30	10.20
Sandblasting & Hopper Tender; Water Blasting.....	\$ 26.05	10.20
Spray.....	\$ 25.80	10.20

---

PAIN0093-001 12/01/2022

ATHENS, GUERNSEY, HOCKING, MONROE, MORGAN, NOBLE and  
WASHINGTON COUNTIES

Rates      Fringes

PAINTER

Bridges; Locks; Dams; Tension Towers; & Energized Substations.....	\$ 34.81	22.47
Power Generating Facilities.	\$ 31.66	22.47

---

PAIN0249-002 06/01/2020

CLARK, DARKE, GREENE, MIAMI, MONTGOMERY & PREBLE

Rates Fringes

PAINTER

GROUP 1 - Brush & Roller....	\$ 24.17	11.22
GROUP 2 - Swing, Scaffold Bridges; Structural Steel; Open Acid Tank; High Tension Electrical Equipment; & Hot Pipes.....	\$ 24.17	11.22
GROUP 3 - Spray; Sandblast; Steamclean; Lead Abatement.....	\$ 24.92	11.22
GROUP 4 - Steeplejack Work..	\$ 25.12	11.22
GROUP 5 - Coal Tar.....	\$ 25.67	11.22
GROUP 6 - Bridge Equipment Tender & or Containment Builder.....	\$ 32.88	11.22
GROUP 7 - Tanks, Stacks & Towers.....	\$ 27.81	11.22
GROUP 8 - Bridge Blaster, Rigger.....	\$ 35.88	11.22

-----  
PAIN0356-002 09/01/2009

KNOX, LICKING, MUSKINGUM, and PERRY

Rates Fringes

PAINTER

Bridge Equipment Tenders and Containment Builders....	\$ 27.93	7.25
Bridges; Blasters; and Riggers.....	\$ 34.60	7.25
Brush and Roller.....	\$ 20.93	7.25
Sandblasting; Steam Cleaning; Waterblasting; and Hazardous Work.....	\$ 25.82	7.25
Spray.....	\$ 21.40	7.25
Structural Steel and Swing Stage.....	\$ 25.42	7.25
Tanks; Stacks; and Towers...	\$ 28.63	7.25

-----  
PAIN0438-002 12/01/2021

BELMONT, HARRISON and JEFFERSON COUNTIES

Rates Fringes

PAINTER

Bridges, Locks, Dams,

Tension Towers & Energized Substations.....	\$ 34.44	18.19
Power Generating Facilities.....	\$ 32.29	18.19

-----  
PAIN0476-001 06/01/2021

COLUMBIANA, MAHONING, and TRUMBULL COUNITIES

Rates      Fringes

PAINTER

GROUP 1.....	\$ 25.79	15.81
GROUP 2.....	\$ 33.10	15.81
GROUP 3.....	\$ 26.00	15.81
GROUP 4.....	\$ 27.12	15.81
GROUP 5.....	\$ 27.79	15.81
GROUP 6.....	\$ 26.69	15.81
GROUP 7.....	\$ 27.79	15.81

PAINTER CLASSIFICATIONS:

GROUP 1: Painters, Brush & Roller

GROUP 2: Bridges

GROUP 3: Structural Steel

GROUP 4: Spray, Except Bar Joist/Deck

GROUP 5: Epoxy/Mastic; Spray- Bar Joist/Deck; Working Above  
50 Feet; and Swingstages

GROUP 6: Tanks; Sandblasting

GROUP 7: Towers; Stacks

-----  
PAIN0555-002 06/01/2021

ADAMS, HIGHLAND, JACKSON, PIKE & SCIOTO

Rates      Fringes

PAINTER

GROUP 1.....	\$ 31.95	17.05
GROUP 2.....	\$ 33.47	17.05
GROUP 3.....	\$ 34.99	17.05
GROUP 4.....	\$ 37.97	17.05

PAINTER CLASSIFICATIONS

GROUP 1 - Containment Builder

GROUP 2 - Brush; Roller; Power Tools, Under 40 feet

GROUP 3 - Sand Blasting; Spray; Steam Cleaning; Pressure Washing; Epoxy & Two Component Materials; Lead Abatement; Hazardous Waste; Toxic Materials; Bulk & Storage Tanks of 25,000 Gallon Capacity or More; Elevated Tanks

GROUP 4 - Stacks; Bridges

-----  
PAIN0639-001 05/01/2011

Rates      Fringes

Sign Painter & Erector.....\$ 20.61      3.50+a+b+c

FOOTNOTES: a. 7 Paid Holidays: New Year's Day; Memorial Day; July 4th; Labor Day; Thanksgiving Day; Christmas Day & 1 Floating Day  
b. Vacation Pay: After 1 year's service - 5 days' paid vacation; After 2, but less than 10 years' service - 10 days' paid vacation; After 10, but less than 20 years' service - 15 days' paid vacation; After 20 years' service - 20 days' paid vacation  
c. Funeral leave up to 3 days maximum paid leave for death of mother, father, brother, sister, spouse, child, mother-in-law, father-in-law, grandparent and inlaw provided employee attends funeral

-----  
PAIN0788-002 06/01/2022

ASHLAND, CRAWFORD, ERIE, HANCOCK, HURON, MARION, MORROW, OTTAWA (Allen, Bay, Bono, Catawba Island, Clay Center, Curtice, Danbury, Eagle Beach, Elliston, Elmore, Erie, Fishback, Gem Beach & Genoa), RICHLAND, SANDUSKY, SENECA & WYANDOT

Rates      Fringes

PAINTER

Brush & Roller.....\$ 25.08      16.72  
Structural Steel.....\$ 26.68      16.72

WINTER REPAINT: Between December 1 to March 31 - 90%JR

\$.50 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK:

While working swingstage, boatswain chair, needle beam and horizontal cable. While operating sprayguns, sandblasting, cobblasting and high pressure waterblasting (4000psi).

\$1.00 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK:

For the application of catalized epoxy, including latex epoxy that is deemed hazardous, lead abatement, or for work or material where special precautions beyond normal work duties must be taken. For working on stacks, tanks, and towers over 40 feet in height.

-----  
 PAIN0813-005 12/01/2008

GALLIA, LAWRENCE, MEIGS & VINTON

Rates Fringes

PAINTER

Base Rate.....	\$ 24.83	10.00
Bridges, Locks, Dams & Tension Towers.....	\$ 27.83	10.00

-----  
 PAIN0841-001 06/01/2018

MEDINA, PORTAGE (South of and including Ohio Turnpike), and  
 SUMMIT (South of and including Ohio Turnpike) COUNTIES

Rates Fringes

Painters:

GROUP 1.....	\$ 25.75	14.35
GROUP 2.....	\$ 26.40	14.35
GROUP 3.....	\$ 26.50	14.35
GROUP 4.....	\$ 26.60	14.35
GROUP 5.....	\$ 27.00	14.35
GROUP 6.....	\$ 39.20	11.75
GROUP 7.....	\$ 27.00	14.35

PAINTER CLASSIFICATIONS:

GROUP 1 - Brush, Roller & Paperhanger

GROUP 2 - Epoxy Application

GROUP 3 - Swing Scaffold, Bosum Chair, & Window Jack

GROUP 4 - Spray Gun Operator of Any & All Coatings

GROUP 5 - Sandblast, Painting of Standpipes, etc. from  
 Scaffolds, Bridge Work and/or Open Structural Steel,  
 Standpipes and/or Water Towers

GROUP 6 - Public & Commerce Transportation, Steel or  
 Galvanized, Bridges, Tunnels & Related Support Items  
 (concrete)

GROUP 7 - Synthetic Exterior, Drywall Finisher and/or Taper,  
Drywall Finisher and Follow-up Man Using Automatic Tools

-----  
PAIN0841-002 06/01/2022

CARROLL, COSHOCTON, HOLMES, STARK, TUSCARAWAS & WAYNE

Rates Fringes

PAINTER

Bridges; Towers, Poles & Stacks; Sandblasting Steel; Structural Steel & Metalizing.....	\$ 23.50	15.45
Brush & Roller.....	\$ 28.18	15.45
Spray; Tank Interior & Exterior.....	\$ 23.50	15.45

-----  
PAIN1020-002 06/01/2022

ALLEN, AUGLAIZE, CHAMPAIGN, DEFIANCE, HARDIN, LOGAN, MERCER,  
PAULDING, PUTNAM, SHELBY, VAN WERT, and WILLIAMS COUNTIES

Rates Fringes

PAINTER

Brush & Roller.....	\$ 26.20	15.00
Drywall Finishing & Taping..	\$ 24.90	15.00
Lead Abatement.....	\$ 27.95	15.00
Spray, Sandblasting Pressure Cleaning, & Refinery.....	\$ 26.95	15.00
Swing Stage, Chair, Spiders, & Cherry Pickers...	\$ 25.47	15.00
Wallcoverings.....	\$ 23.80	15.00

All surfaces 40 ft. or over where material is applied to or  
labor performed on, above ground level (exterior), floor  
level (interior) - \$.50 premium

Applying Coal Tar Products - \$1.00 premium

-----  
PAIN1275-002 06/01/2020

DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, MADISON, PICKAWAY, ROSS  
& UNION

Rates Fringes

PAINTER

Bridges.....	\$ 34.64	14.40
Brush; Roller.....	\$ 25.16	14.40
Sandblasting; Steamcleaning; Waterblasting (3500 PSI or Over)& Hazardous Work.....	\$ 25.86	14.40
Spray.....	\$ 25.66	14.40
Stacks; Tanks; & Towers.....	\$ 28.67	14.40
Structural Steel & Swing Stage.....	\$ 25.46	14.40

-----  
PLAS0109-001 05/01/2018

MEDINA, PORTAGE, STARK, and SUMMIT COUNTIES

Rates Fringes

PLASTERER.....	\$ 28.86	17.11
----------------	----------	-------

-----  
PLAS0109-003 05/01/2018

CARROLL, HOLMES, TUSCARAWAS, and WAYNE COUNTIES

Rates Fringes

PLASTERER.....	\$ 28.21	17.11
----------------	----------	-------

-----  
PLAS0132-002 06/01/2022

BROWN, BUTLER, CLERMONT, HAMILTON, HIGHLAND, WARREN COUNTIES

Rates Fringes

PLASTERER.....	\$ 29.25	14.69
----------------	----------	-------

-----  
PLAS0404-002 05/01/2018

ASHTABULA, CUYAHOGA, GEAUGA, AND LAKE COUNTIES

Rates Fringes

PLASTERER.....	\$ 29.63	17.11
----------------	----------	-------

-----  
PLAS0404-003 05/01/2018

LORAIN COUNTY

Rates Fringes

PLASTERER.....	\$ 28.86	17.11
----------------	----------	-------

-----  
PLAS0526-022 05/01/2018

COLUMBIANA, MAHONING, and TRUMBULL COUNTIES



Rates Fringes

PLASTERER.....\$ 28.86 17.11

PLAS0526-023 05/01/2018

BELMONT, HARRISON, and JEFFERSON COUNTIES

Rates Fringes

PLASTERER.....\$ 28.21 17.11

PLAS0886-001 05/01/2018

FULTON, HANCOCK, HENRY, LUCAS, PUTNAM, and WOOD COUNTIES

Rates Fringes

PLASTERER.....\$ 29.63 17.11

PLAS0886-003 05/01/2018

DEFIANCE, ERIE, HURON, OTTAWA, PAULDING, SANDUSKY, and SENECA COUNTIES

Rates Fringes

PLASTERER.....\$ 28.86 17.11

PLAS0886-004 05/01/2018

ALLEN, AUGLAIZE, HARDIN, LOGAN, MERCER, and VAN WERT COUNTIES

Rates Fringes

PLASTERER.....\$ 28.21 17.11

PLUM0042-002 07/01/2022

ASHLAND, CRAWFORD, ERIE, HURON, KNOX, LORAIN, MORROW, RICHLAND & WYANDOT

Rates Fringes

Plumber, Pipefitter,  
Steamfitter.....\$ 34.42 25.47

PLUM0050-002 07/04/2022

DEFIANCE, FULTON, HANCOCK, HENRY, LUCAS, OTTAWA, PAULDING, PUTNAM, SANDUSKY, SENECA, WILLIAMS & WOOD

Rates Fringes

Plumber, Pipefitter,  
Steamfitter.....\$ 44.60 28.51

-----  
PLUM0055-003 05/01/2022

ASHTABULA, CUYAHOGA, GEAUGA, LAKE, MEDINA (N. of Rte. #18 &  
Smith Road) & SUMMIT (N. of Rte. #303, including the corporate  
limits of the city of Hudson)

Rates Fringes

PLUMBER.....\$ 40.00 28.43

-----  
PLUM0083-001 07/01/2017

BELMONT & MONROE (North of Rte. #78)

Rates Fringes

Plumber and Steamfitter.....\$ 32.16 31.51

-----  
PLUM0094-002 05/01/2022

CARROLL (Northen Half), STARK, and WAYNE COUNTIES

Rates Fringes

PLUMBER/PIPEFITTER.....\$ 36.83 22.99

-----  
PLUM0120-002 05/02/2022

ASHTABULA, CUYAHOGA, GEAUGA, LAKE, LORAIN (the C.E.I. Power  
House in Avon Lake), MEDINA (N. of Rte. #18) & SUMMIT (N. of  
#303)

Rates Fringes

PIPEFITTER.....\$ 44.07 28.34

-----  
PLUM0162-002 06/01/2022

CHAMPAIGN, CLARK, CLINTON, DARKE, FAYETTE, GREENE, MIAMI,  
MONTGOMERY & PREBLE

Rates Fringes

Plumber, Pipefitter,

Steamfitter.....\$ 36.47      26.80

-----  
PLUM0168-002 06/01/2022

MEIGS, MONROE (South of Rte. #78), MORGAN (South of Rte. #78)  
& WASHINGTON

Rates      Fringes

PLUMBER/PIPEFITTER.....\$ 38.02      34.09

-----  
PLUM0189-002 06/01/2022

DELAWARE, FAIRFIELD, FRANKLIN, HOCKING, LICKING, MADISON,  
MARION, PERRY, PICKAWAY, ROSS & UNION

Rates      Fringes

Plumber, Pipefitter,  
Steamfitter.....\$ 43.25      26.94

-----  
PLUM0219-002 06/01/2022

MEDINA (Rte. #18 from eastern edge of Medina Co., west to  
eastern corporate limits of the city of Medina, & on the county  
road from the west corporate limits of Medina running due west  
to and through community of Risley to the western edge of  
Medina County - All territory south of this line), PORTAGE, and  
SUMMIT (S. of Rte. #303) COUNTIES

Rates      Fringes

Plumber and Steamfitter.....\$ 41.22      26.64

-----  
PLUM0392-002 06/01/2022

BROWN, BUTLER, CLERMONT, HAMILTON & WARREN

Rates      Fringes

PLUMBER/PIPEFITTER.....\$ 36.71      24.89

-----  
PLUM0396-001 06/01/2022

COLUMBIANA (Excluding Washington & Yellow Creek Townships &  
Liverpool Twp. - Secs. 35 & 36 - West of County Road #427),  
MAHONING and TRUMBULL COUNTIES

Rates      Fringes

PLUMBER/PIPEFITTER.....\$ 36.00      27.91

-----  
PLUM0495-002 06/01/2022

CARROLL (Rose, Monroe, Union, Lee, Orange, Perry & Loudon Townships), COLUMBIANA (Washington & Yellow Creek Townships & Liverpool Township, Secs. 35 & 36, West of County Rd. #427), COSHOCTON, GUERNSEY, HARRISON, HOLMES, JEFFERSON, MORGAN (South to State Rte. #78 & from McConnelsville west on State Rte. #37 to the Perry County line), MUSKINGUM, NOBLE, and TUSCARAWAS COUNTIES

Rates      Fringes

Plumber, Pipefitter,  
Steamfitter.....\$ 31.24      34.34

-----  
PLUM0577-002 06/01/2022

ADAMS, ATHENS, GALLIA, HIGHLAND, JACKSON, LAWRENCE, PIKE, SCIOTO & VINTON

Rates      Fringes

Plumber, Pipefitter,  
Steamfitter.....\$ 37.56      25.73

-----  
PLUM0776-002 07/01/2022

ALLEN, AUGLAIZE, HARDIN, LOGAN, MERCER, SHELBY and VAN WERT COUNTIES

Rates      Fringes

Plumber, Pipefitter,  
Steamfitter.....\$ 39.33      27.68

-----  
TEAM0377-003 05/01/2021

STATEWIDE, EXCEPT CUYAHOGA, GEAUGA & LAKE

Rates      Fringes

TRUCK DRIVER  
GROUP 1.....\$ 29.74      15.70  
GROUP 2.....\$ 30.16      15.70

TRUCK DRIVER CLASSIFICATIONS

GROUP 1 - Asphalt Distributor; Batch; 4- Wheel Service;  
4-Wheel Dump; Oil Distributor & Tandem

GROUP 2 - Tractor-Trailer Combination: Fuel; Pole Trailer; Ready Mix; Semi-Tractor; & Asphalt Oil Spraybar Man When Operated From Cab; 5 Axles & Over; Belly Dump; End Dump; Articulated Dump; Heavy Duty Equipment; Low Boy; & Truck Mechanic

-----  
TEAM0436-002 05/01/2021

CUYAHOGA, GEAUGA & LAKE

Rates      Fringes

TRUCK DRIVER

GROUP 1.....	\$ 30.65	16.95
GROUP 2.....	\$ 31.15	16.95

GROUP 1: Straight & Dump, Straight Fuel

GROUP 2: Semi Fuel, Semi Tractor, Euclids, Darts, Tank, Asphalt Spreaders, Low Boys, Carry-All, Tourna-Rockers, Hi-Lifts, Extra Long Trailers, Semi-Pole Trailers, Double Hook-Up Tractor Trailers including Team Track & Railroad Siding, Semi-Tractor & Tri-Axle Trailer, Tandem Tractor & Tandem Trailer, Tag Along Trailer, Expandable Trailer or Towing Requiring Road Permits, Ready-Mix (Agitator or Non-Agitator), Bulk Concrete Driver, Dry Batch Truck, Articulated End Dump

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

=====

\*\* Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$16.20) or 13658 (\$12.15). Please see the Note at the top of the wage determination for more information.

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 <https://www.dol.gov/agencies/whd/government-contracts>.

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 National Office because National Office has 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.

---

---

END OF GENERAL DECISIO"



# **ASBESTOS REMOVAL AND DEMOLITION TECHNICAL SPECIFICATION SECTIONS**

516 FAIRGROUND STREET  
CALDWELL, NOBLE COUNTY, OHIO 43724

SME Project Number: 089229.0  
April 26, 2023

Funded by: Ohio Department of Development Building Demolition and Site Revitalization Program Grant DEV--  
2022 – 19114

The following document was prepared by SME under the supervision of a Project Designer accredited by the Ohio Environmental Protection Agency under the requirements of Section 206 of the Toxic Substances Control Act and constitutes an asbestos abatement design in connection with:

**ASBESTOS REMOVAL AND DEMOLITION TECHNICAL SPECIFICATION SECTIONS  
516 FAIRGROUND STREET, CALDWELL  
NOBLE COUNTY, OHIO**

SME Project Designer: Jason C. Lafayette

Accreditation Number: PD60835

Signature: \_\_\_\_\_

Date: April 26, 2023

**TABLE OF CONTENTS**

<b>Section Title</b>	<b>Section Number</b>	<b>Page(s)</b>
Asbestos Abatement .....	02 82 13 .....	1-28
Certificate of Visual Inspection.....	02 82 13 .....	1-1
Asbestos Abatement Air Monitoring.....	02 82 13.01 .....	1-6
Worker Protection-Asbestos Abatement.....	02 82 13.02 .....	1-4
Certificate of Worker's Acknowledgement .....	02 82 13.02 .....	1-2
Respiratory Protection-Asbestos Abatement .....	02 82 13.03 .....	1-4
Demolition Involving Asbestos-Containing Materials .....	02 82 13.04 .....	1-11

**Attachment A**

March 15, 2023, Pre-Demolition Asbestos Assessment Report – Multiple Sites, Noble County, Ohio

---

**SECTION 02 82 13 – ASBESTOS ABATEMENT**

**PART 1 GENERAL**

1.1 SCOPE OF WORK:

A. Asbestos Materials

This Section includes removal of the asbestos-containing materials (ACMs) associated with the planned demolition of a vacated portion of the school building located at 516 Fairground Street in Caldwell, Ohio.

Summaries of the ACMs identified in the southeast vacated portion of the school building are presented in Appendix F in the *Pre-Demolition Asbestos Assessment Report – Multiple Sites, Noble County, Ohio*, dated March 15, 2023, prepared by SME. A copy of the report is included as Attachment A.

Debris was present throughout the assessment area that inhibited access to the first-floor women's bathroom, and the doors to the third-floor east bathroom and the nurse's office were locked at the time of the assessment. These obstructions prevented SME's ability to assess these areas for the presence of suspect ACMs. The unassessed areas must be assessed for the presence of ACMs once the debris is cleared from the building, access to the third-floor areas is granted, and prior to demolition of the building.

The Contractor shall complete the work within the specified time limits of the contract. All time limits stated in the project specifications and contract documents are of the essence of the contract. Should the Contractor fail to complete all of the work by the completion dates stipulated, the Owner shall have the right to suspend all future payments and/or invoke liquidated damages as specified in the project specifications and contract documents.

1.2 RELATED SECTIONS:

Diagrams and general provisions of contract, and other project specification Sections, apply to this Section.

1.3 REFERENCE STANDARDS:

The publications listed below form a part of this Section to the extent referenced. The publications are referenced in the text by basic designation only.

A. American Society for Testing and Materials (ASTM)

1. ASTM E 736 (1986) Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members.
2. ASTM 1368 (1990) Visual Inspection of Asbestos Abatement Projects.

B. Code of Federal Regulations (CFR)

1. CFR 29 Part 1926/1910 Construction Industry Occupational Safety and Health Standards.
2. CFR 40 Part 61 National Emissions Standards for Hazardous Air Pollutants.
3. CFR 40 Part 260 General Regulations for Hazardous Waste Management.
4. CFR 40 Part 263 Standards Applicable to Transporters of Hazardous Waste.
5. CFR 40 Part 763 Asbestos.
6. CFR 49 CFR 171 Department of Transportation Regulations to Stipulate Requirements for Containers and Procedure for Shipment of Hazardous Waste.

- C. National Fire Protection Association (NFPA)
  - 1. NFPA 10 (1988) Portable Fire Extinguishers.
  - 2. NFPA 70 B (1990) Recommended Practice for Electrical Equipment Maintenance.
  - 3. NFPA 90A (1989) Installation of Air Conditioning and Ventilating Systems.
  - 4. NFPA 101 (1988) Safety to Life from Fire in Buildings and Structures.
  - 5. NFPA 90A (1989) Installation of Air Conditioning and Ventilating Systems.
- D. National Institute of Occupational Safety and Health (NIOSH)
  - 1. NIOSH –01 Manual of analytical Methods
- E. State of Ohio
  - 1. Chapter 3701-34 of the Ohio Administrative Code
  - 2. Chapter 3710 of the Ohio Administrative Code
  - 3. Chapter 3745-20 of the Ohio Administrative Code
- F. United States Environmental Protection Agency (USEPA)
  - 1. USEPA SW-846, Test Methods for Evaluating Solid Waste.

1.4 MEASUREMENT:

The Contractor shall take all field measurements necessary to provide a proposal for the work, and lay out all work in accordance with the specifications considering existing clearances and conditions. The Contractor shall be responsible for any damage and/or cost caused by any inaccuracy on his/her part. The Owner, Owner's Representative, Asbestos Project Designer, and Asbestos Project Design Firm shall not be held responsible for providing accurate measurements of ACM. Any measurements given are to be viewed as estimates only.

1.5 PAYMENT:

A. Removal of Asbestos-Containing Materials (ACMs)

All acceptably completed work as required under this Section for the labor, materials, and incidentals necessary for removal and disposal of ACMs will be paid for as part of the contract sum stipulated in the Contractor's bid.

Should any suspect ACM become known during abatement, which, in the opinion of the Owner or Asbestos Project Designer, was concealed during the Contractor's pre-bid examination of the work, the Contractor shall notify the Owner and the Asbestos Project Designer. The Contractor shall document the discovery of such materials within 24 hours, in writing, including specific locations and quantities of the materials, and submit the documentation to the Owner or Owner's Representative. Unit Costs for the removal of concealed materials, if discovered, shall be applied with the approval of the Owner or the Owner's Representative. Change Order requests for removal of such materials will be rejected in the absence of proper notification and written documentation. The Owner or Owner's Representative must field verify materials represented as concealed by the Contractor.

1.6 DEFINITIONS:

- A. Adequately wet: As defined in 40 CFR Part 61, Subpart M, sufficiently mix or penetrate with liquid to prevent the release of particulates from the source material.
- B. Aerosol: A system consisting of particles, solid or liquid, suspended in air.
- C. Air Cell: Insulation normally used on pipes and ductwork that is comprised of corrugated cardboard which is frequently comprised of asbestos combined with cellulose or refractory binders.
- D. Air Monitoring: The process of measuring the fiber content of a specific volume of air.
- E. Amended Water: Water to which a surfactant has been added to decrease the surface tension to 35 or less dynes.
- F. Asbestos: The asbestiform varieties of serpentine (chrysotile), riebeckite (crocidolite), cummingtonite-grunerite, anthophyllite, and actinolite-tremolite. For purposes of determining respiratory and worker protection both the asbestiform and non-asbestiform varieties of the above minerals and any of these materials that have been chemically treated and/or altered shall be considered as asbestos.
- G. Asbestos-Containing Material (ACM): Any material containing more than 1% by weight of asbestos of any type or mixture of types.
- H. Asbestos-Containing Building Material (ACBM): Surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of a building.
- I. Asbestos-Containing Waste Material: Any material that is or is suspected of being or any material contaminated with an asbestos-containing material that is to be removed from a work area for disposal.
- J. Asbestos debris: Pieces of ACBM that can be identified by color, texture, or composition, or means dust, if the dust is determined by an accredited inspector to be ACM.
- K. Asbestos Project Designer: Person trained in accordance with USEPA requirements and accredited by the Ohio Environmental Protection Agency to prepare asbestos abatement design and specifications. For the purposes of this project, the Asbestos Project Designer is Jason Lafayette (Accreditation # PD60835).
- L. Asbestos Project Design Firm: For the purposes of this project, the Asbestos Project Design Firm is SME, 4401 Lyman Drive, Suite C, Hilliard, Ohio 43026.
- M. Authorized Visitor: The Owner, Owner's Representative, Project Monitor, Asbestos Project Designer, testing lab personnel, emergency personnel or a representative of any federal, state and local regulatory or other agency having authority over the project.
- N. Barrier: Any surface that seals off the work area to inhibit the movement of fibers.
- O. Breathing Zone: A hemisphere forward of the shoulders with a radius of approximately 6 to 9 inches.
- P. Category I Nonfriable Asbestos Containing Material: As defined in 40 CFR Part 61, Subpart M, asbestos-containing packings, gaskets, resilient floor covering, and

asphalt roofing products containing more than 1 percent asbestos as determined using the method specified in 40 CFR Part 763, Appendix A, Subpart F, Section 1, Polarized Light Microscopy, that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

- Q. Category II Nonfriable Asbestos Containing Material: Any material, excluding Category I nonfriable ACM, containing more than 1 percent asbestos as determined using the methods specified in appendix E, subpart E, 40 CFR part 763, section 1, Polarized Light Microscopy that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure..
- R. Ceiling Concentration: The concentration of an airborne substance that shall not be exceeded.
- S. Competent Person: As defined in 29 CFR Part 1926, a designated person experienced in administering and supervising asbestos abatement projects. A competent person must be familiar with safe and reasonable work practices, abatement methods, protective measures for personnel, inspection of asbestos abatement work areas, evaluating the adequacy of containment barriers, placement and operation of local exhaust systems, waste containment and disposal procedures, decontamination units, and site health and safety health requirements. The designated "competent person" is responsible for compliance with applicable local State, and Federal requirements governing the work and for enforcing the site-specific Health and Safety Plan.
- T. Contractor: The term Contractor shall mean the person, firm or corporation or any combination thereof, and its, their or his/her successors, personal representative, executors, administrators and assigns, and any person, firm or corporation who or which shall at any time be substituted therefore under this Contract having a contract with the Owner for the work and shall include in their respective capacities, the President, Manager, or other officer or agent representing or locally managing any corporation contracting the work. References to specific contractors or subcontractors are made for convenience only and shall in no way relieve the Contractor of the responsibility to complete the work for the project in entirety.
- U. Demolition: The wrecking or taking out of any building component, system, finish or assembly of a facility together with any related handling operations. For notification purposes, demolition is complete once the associated structures have been razed and all resulting debris has been removed from the site.
- V. Disposal Bag: A properly labeled 6-mil thick leak-tight plastic bags used for transporting asbestos waste from work and to disposal site.
- W. Employee Exposure: Exposure to airborne asbestos that would occur if the employee were not using respiratory protective equipment.
- X. Encapsulant: A material that surrounds or embeds asbestos fibers in an adhesive matrix, to prevent release of fibers.
- Y. Owner's Representative: The project was funded by the Ohio Department of Development Building and Site Revitalization Program Grant. The various buildings are owned and controlled by the associated municipality in which the property resides. A designated Owner's Representative will represent the respective Owner for project specification and contract requirements related to those properties/buildings existing within their jurisdiction. The Owner's instructions to the Contractor at times may be forwarded through the Owner's

Representative.

- Z. Project Monitor: The Contractor shall be responsible to retain a qualified consultant to provide third-party asbestos clearance testing for the asbestos removal and/or asbestos demolition activities. The Project Monitor must maintain all required asbestos certifications to perform the work per OEPA requirements during the duration of the project.
- AA. Bridging encapsulant: An encapsulant that forms a discrete layer on the surface of an in situ asbestos matrix.
- BB. Penetrating encapsulant: An encapsulant that is absorbed by the in situ asbestos matrix without leaving a discrete surface layer.
- CC. Removal encapsulant: A penetrating encapsulant specifically designed to minimize fiber release during removal of asbestos-containing materials rather than for in situ encapsulation.
- DD. Encapsulation: Treatment of asbestos-containing materials, with an encapsulant.
- EE. Enclosure: The construction of an airtight, impermeable, permanent barrier around asbestos-containing material to control the release of asbestos fibers into the air.
- FF. Filter: A media component used in respirators to remove solid or liquid particles from the inspired air.
- GG. Friable Asbestos Material: Material that contains more than 1.0% asbestos by weight and that can be crumbled, pulverized, or reduced to powder by hand pressure when dry.
- HH. Glovebag: A sack (typically constructed of six mil transparent polyethylene or polyvinylchloride plastic) with inward projecting long-sleeved gloves, which are designed to enclose an object from which an asbestos-containing material is to be removed.
- II. HEPA Filter: A High Efficiency Particulate Air (HEPA) filter capable of trapping and retaining 99.97% of asbestos fibers greater than 0.3 microns in diameter.
- JJ. HEPA Filter Vacuum Collection Equipment (or vacuum cleaner): High efficiency particulate air filtered vacuum collection equipment with a filter system capable of collecting and retaining asbestos fibers. Filters should be of 99.97% efficiency for retaining fibers of 0.3 microns or larger.
- KK. High-efficiency particulate air filter (HEPA): This term refers to a filtering system capable of trapping and retaining 99.97 percent of all monodispersed particles 0.3 um in diameter or larger.
- LL. Homogeneous Area: An area of surfacing material, thermal system insulation, or miscellaneous material that is uniform in color and texture.
- MM. Negative Pressure Enclosure (NPE) System: A pressure differential and ventilation system that is created with critical barriers and air filtration equipment fitted with HEPA filters. This system must be constructed to allow at least four air changes per hour with a minimum of -0.02 column inches of water pressure differential relative to the pressure outside of the enclosure.
- NN. Negative Pressure Respirator: A respirator in which the air pressure inside the respiratory inlet covering is positive during exhalation in relation to the air pressure of the outside atmosphere and negative during inhalation in relation to the air



pressure of the outside atmosphere.

- OO. Negative Pressure Ventilation System: A pressure differential and ventilation system.
- PP. Owner: The legal entity, including a lessee, which exercises control over management and record keeping functions relating to a building and/or facility in which asbestos activities take place. For the purpose of these specifications, the Owner is the municipality with jurisdiction over the respective property/building.
- QQ. Personal Monitoring: Sampling of the asbestos fiber concentrations within the breathing zone of an employee.
- RR. Pressure Differential and Ventilation System: A local exhaust system, utilizing HEPA filtration capable of maintaining a pressure differential with the inside of the Work Area at a lower pressure than any adjacent area, and which cleans recirculated air or generates a constant air flow from adjacent areas into the Work Area.
- SS. Presumed Asbestos-Containing Material (PACM): Thermal system insulation and surfacing material found in buildings constructed no later than 1980.
- TT. Protection Factor: The ratio of the ambient concentration of an airborne substance to the concentration of the substance inside the respirator at the breathing zone of the wearer. The protection factor is a measure of the degree of protection provided by a respirator to the wearer.
- UU. Regulated Area: A demarcated work area where airborne concentrations of asbestos exceed, or there is a reasonable possibility they may exceed, the permissible exposure limits.
- VV. Repair: Returning damaged ACBM to an undamaged condition or to an intact state so as to prevent fiber release.
- WW. Respirator: A device designed to protect the wearer from the inhalation of harmful atmospheres.
- XX. Surfacing Material: Material that is sprayed, troweled-on or otherwise applied to surfaces (such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, and other purposes)
- YY. Surfactant: A chemical wetting agent added to water to improve penetration, thus reducing the quantity of water required for a given operation or area.
- ZZ. Thermal System Insulation (TSI): ACM applied to pipes, fittings, boilers, breeching, tanks, ducts or other structural components to prevent heat loss or gain.
- AAA. Time Weighted Average (TWA): The average concentration of a contaminant in air during a specific time period. For asbestos exposure samples analyzed via phase contrast microscopy, the TWA is an average of airborne concentration of fibers (longer than 5 micrometers) per cubic centimeter of air based on an 8-hour exposure duration, which represents the employee's 8-hour workday as defined in Appendix A of 29 CFR Part 1926.1101.
- BBB. Visible Emissions: Any emissions containing particulate asbestos material that are visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.

- CCC. Wet Cleaning: The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning utensils which have been dampened with amended water or diluted removal encapsulant and afterwards thoroughly decontaminated or disposed of as asbestos-contaminated waste.
- DDD. Work: The term “work”, “project work”, or “work of the contract” means work covered under the contract. It includes all labor, materials, tools, equipment, transportation, supervision, temporary construction of all configurations and purpose, taxes, fees, permits, and all other services and facilities of any kind necessary to begin, perform, and complete the construction required by the contract. All costs of the work are considered incidental and shall be included in the bid for the work, provided by the Contractor, and paid by the Contractor unless specifically noted in the project specifications and contract documents.
- EEE. Work Area: The area where asbestos-related work or removal operations are performed which is defined and/or isolated to prevent the spread of asbestos dust, fibers, or debris, and entry by unauthorized personnel. The Work Area is a Regulated Area as defined by 29 CFR 1926.1101.

1.7 SUBMITTALS:

Provide submittals as outlined in the project specifications and contract documents, and as specified herein. In addition, prior to beginning work at the project sites, provide the following submittals:

- A. Provide a roster of key personnel (project managers, supervisors, etc.) who will work on the project that lists dates and type of training for each employee arranged in alphabetic order.
- B. Submit a copy of a valid State of Ohio asbestos contractor license.
- C. Submit a valid certificate of occurrence-based asbestos/hazardous materials liability insurance. Coverage limits must be at least the minimum policy requirements specified in the contract documents.
- D. Submit a detailed Work Plan of the procedures proposed for use in complying with the requirements of the project specifications. Include in the plan the location and layout of decontamination areas, the sequencing and sectioning of abatement work, methods to be used to assure the safety of visitors to the sites, disposal plan including location of approved disposal site(s), and a detailed description of the methods to be employed to control contamination.

1.8 REGULATORY REQUIREMENTS:

A. Permits

Obtain all necessary permits and licenses for asbestos abatement activities. Notify the Ohio Environmental Protection Agency (OEPA), local agencies, the Owner and the Owner's Representative in writing at least 14 calendar-days before beginning abatement activities. A copy of notification shall be provided to the Owner, and the Owner's Representative, on the date of submittal to OEPA. Conduct all abatement activities in accordance with applicable Occupational Safety and Health Administration (OSHA) standards, including but not limited to 29 CFR 1926.1101, United States Environmental Protection Agency (USEPA) National Emissions Standards for Hazardous Air Pollutants (NESHAP, 40 CFR Part 61, Subpart M), state, and local regulations governing the work.

B. Licenses

Maintain a current State of Ohio license as required for the removal, transporting, disposal, or other regulated activity relative to the work of this contract. Conduct personal air sampling as defined by the previously noted regulations to monitor employee exposure to airborne asbestos fibers. Adhere to all permit and regulatory requirements for air quality.

C. Health and Safety Compliance

Comply with all applicable laws, ordinances, rules, regulations, and specifications. While conducting all handling, storing, transporting, and disposing activities for asbestos waste materials, comply with the applicable requirements of 29 CFR Part 1910, 29 CFR Part 1926, 40 CFR Part 61, Subpart A, and 40 CFR Part 61, Subpart M, NFPA 10, NFPA 70, NFPA 90A, NFPA 101. In case of a discrepancy between the requirements of this specification, applicable laws, rules, criteria, ordinances, regulations, and referenced documents, the most stringent requirement shall apply.

1. Air Monitoring

Conduct personal air sampling as defined by the previously noted regulations to monitor employee exposure to airborne asbestos fibers. Adhere to all permit and regulatory requirements for air quality. The Contractor shall be responsible to retain a third-party consultant (Project Monitor) to conduct daily perimeter monitoring and clearance air monitoring of regulated asbestos removal and demolition Work Areas. The Contractor shall be responsible for providing employee exposure monitoring for Contractor personnel. Costs associated with employee exposure monitoring, and perimeter and clearance air monitoring, shall be incorporated into the bid for work.

2. Respiratory Protection Program

Establish and implement a respiratory protection program in accordance with 29 CFR 1926.1101 and 29 CFR 1910.134. Include medical monitoring, employee training, procedures for respirator use, respirator fit-testing, routine inspection, and storage. Select and use respirators in accordance with manufacturer's recommendations, Mine Safety and Health Administration, and the National Institute for Occupational Safety and Health requirements for use in environments containing airborne asbestos fibers

3. Training

All employees working directly with asbestos-containing material and wastes must have successfully completed a course of asbestos training as specified by USEPA requirements at 40 CFR Part 763, Subpart E, Appendix C, within one year prior to conducting asbestos abatement activities. Each worker must successfully complete the "Worker" course, and on-site supervisors and technical support personnel must successfully complete the "Project Supervisor" course. Individuals working with asbestos on the project sites shall possess current State of Ohio asbestos accreditation from the OEPA.

4. Medical Monitoring

Conduct medical monitoring requirements as described in 29 CFR Part 1926, Section 1926.1101 and the requirements of the Contractor's Health and Safety Plan.

5. Personal Protective Equipment

Provide personnel working in asbestos environments with whole body protection against asbestos exposure hazards. Single-use coveralls shall be disposed as asbestos-contaminated waste upon exiting from the asbestos regulated Work Area.

D. Regulatory Notification

Upon award of the contract and upon receipt of the Notice to Proceed, send written notification to the Ohio Environmental Protection Agency (OEPA) via overnight mail service in conformance with USEPA National Emission Standards for Hazardous Air Pollutants (NESHAP) Asbestos Regulations (40 CFR 61, Subpart M).

The NESHAP asbestos regulation 40 CFR Part 61, Subpart M requires that if at least 80 linear meters (260 linear feet) of friable asbestos materials, or at least 15 square meters (160 square feet) of friable asbestos materials, or other facility components are stripped or removed while renovating a facility, all the requirements of sections 61.147 apply.

The NESHAP regulation also requires submittal of the *Notification of Demolition and Renovation/Abatement* form at least 14 calendar days prior to demolition of a regulated building regardless of whether asbestos material are present within the building.

**Refer to Section 02 82 13.04 – Demolition Involving Asbestos-Containing Materials for additional notification requirements for the project.**

The project notification must include at minimum the following:

1. Name, address, and telephone number of Owner or Operator.
2. Description of facility being demolished or renovated, including the size, age, number of floors, present and prior use of the facility.
3. Procedures employed to detect presence of RACM, Category I, and Category II nonfriable ACM.
4. Estimate of the approximate amount of friable asbestos material present in the facility in terms of linear feet of pipe and surface area on other facility components.
5. Location and street address (including city, county and state) of the facility being demolished or renovated.
6. Scheduled starting and completion dates of asbestos removal.
7. Scheduled starting and completion dates of demolition or renovation.
8. Description of planned demolition or renovation and method(s) to be used.
9. Description of procedures to be used to comply with requirements, including asbestos removal and waste-handling emission control procedures.
10. Name and location of the waste disposal site where asbestos-containing waste material will be deposited.
11. The name and accreditation number of the Inspector who conducted the asbestos assessment of the structure as well as the name and address of the company employing the Inspector.
12. Certification that at least one person trained as required by paragraph (c)(8) of the Asbestos NESHAP regulations will be on-site and will supervise the asbestos removal and demolition operations described by the notification.

## **PART 2 PRODUCTS**

### **2.1 MATERIALS:**

#### **A. Wetting Agent**

1. Amended Water
  - a) Comply with ASTM D 1331.

2. Removal Encapsulant
  - a) Provide a removal or penetrating encapsulant when conducting asbestos abatement activities that require a longer removal time or are subject to rapid evaporation of amended water. The removal encapsulant shall be capable of wetting the ACM and retarding fiber release during disturbance of the ACM equal to or greater than provided by amended water. The Contractor shall utilize blue tinted Foster Asbestos Removal Encapsulant and Post Removal Residual Encapsulant or approved equivalents.
3. Strippable Coating
  - a) Provide additional incidental items necessary to complete specified activities.
4. Prefabricated Decontamination Unit(s)
  - a) Provide additional incidental items necessary to complete specified activities.
5. Chemical encapsulant
  - a) Provide additional incidental items necessary to complete specified activities.
6. Chemical encasement materials
  - a) Provide additional incidental items necessary to complete specified activities.
7. Safety Data Sheets (for all chemicals proposed)
  - a) Provide additional incidental items necessary to complete specified activities.
8. Sheet Plastic
  - a) Provide sheet plastic as specified herein and in the largest size necessary to minimize seams. Comply with ASTM D 4397 and NFPA 701. Provide a single polyethylene film, 6-mil minimum thickness, in the largest sheet size possible to minimize seams that is clear, frosted or black, as needed.
9. Other items
  - a) Provide additional incidental items necessary to complete specified activities.

## 2.2 EQUIPMENT:

### A. High-efficiency particulate air (HEPA) filtered local exhaust equipment

Supply a sufficient number of HEPA-filtered fan units to the sites in accordance with these specifications with two units on-site as backup. Use units that meet the following requirements:

1. Cabinet: Constructed of durable materials able to withstand damage from rough handling and transportation. The width of the cabinet should be less than 30 inches to fit through standard-size doorways. Provide units whose cabinets are:
  - a) Sealed to prevent asbestos-containing dust from being released during use, transport, or maintenance
  - b) Arranged to provide access to and replacement of all air filters from intake end
  - c) Mounted on casters or wheels
2. Fans: Rate capacity of fan according to usable air-moving capacity under actual operating conditions.
3. HEPA Filters: Provide units whose final filter is the HEPA type with the filter media (folded into closely pleated panels) completely sealed on all edges with a structurally rigid frame.

4. Provide units with a continuous rubber gasket located between the filter and the filter housing to form a tight seal.
5. Provide HEPA filters which have been individually tested and certified by the manufacturer to have an efficiency of not less than 99.97 percent when challenged with 0.3 um dioctylphthalate (DOP) particles when tested in accordance with Military Standard Number 282 and Army Instruction Manual 136-300-175A. Provide filters that bear a UL586 label to indicate ability to perform under specified conditions.
6. Provide filters that are marked with: the name of the manufacturer, serial number, air flow rating, efficiency and resistance, and the direction of test air flow.
7. Prefilters: Provide prefilters, which protect the final filter by removing the larger particles, to prolong the operating life of the HEPA filter. Provide units with prefilters and intermediate filters installed either on or in the intake grid of the unit and held in place with special housings or clamps. Two stages of prefiltration are required. Provide units with the following prefilters:
  8. First-stage prefilter: low-efficiency type (e.g., for particles 100 um and larger)
  9. Second-stage (intermediate) filter: medium efficiency (e.g., effective for particles down to 5 um)
10. Instrumentation: Provide units equipped with the following:
  11. Magnehelic gauge or manometer to measure the pressure drop across filters and indicate when filters have become loaded and need to be changed
  12. A table indicating the usable air-handling capacity for various static pressure readings on the Magnehelic gauge affixed near the gauge for reference, or the Magnehelic reading indicating at what point the filters should be changed, noting Cubic Feet per Minute (CFM) air delivery at that point
  13. Elapsed time meter to show the total accumulated hours of operation
14. Safety and Warning Devices: Provide units with the following safety and warning devices:
  - a) Electrical (or mechanical) lockout to prevent fan from operating without a HEPA filter
  - b) Automatic shutdown system to stop fan in the event of a rupture in the HEPA filter or blocked air discharge.
  - c) Warning lights to indicate normal operation (green), too high a pressure drop across the filters (i.e., filter overloading) (yellow), and too low of a pressure drop (i.e., rupture in HEPA filter or obstructed discharge) (red)
  - d) Audible alarm if unit shuts down due to operation of safety systems
15. Electrical components: Provide units with electrical components approved by the National Electrical Manufacturers Association (NEMA) and Underwriters Laboratories (UL). Each unit is to be equipped with overload protection sized for the equipment. The motor, fan, fan housing, and cabinet are to be grounded.
16. Exhaust tubes: Provide exhaust tubes constructed of plastic or foil which are reinforced with wire to prevent kinks or collapse.

#### Vacuum equipment

Provide vacuums equipped with HEPA filtration for collection of accumulations of asbestos dust/debris in the Work Area. The filter system shall be capable of collecting/retaining asbestos fibers and be of 99.97% efficiency for retaining fibers of 0.3 microns or larger.

#### Pressure differential monitor

Continuously monitor and record the pressure differential between negative pressure enclosure Work Areas and the areas outside with a manometric monitoring device incorporating a continuous recorder (e.g. strip chart or digitally recorded, printable log).

#### Air monitoring

The Contractor shall be responsible to retain a third-party consultant (Project Monitor) to conduct air monitoring included in the specifications and provide appropriate air monitoring equipment to evaluate concentrations of airborne asbestos fibers. The Project Monitor shall conduct air monitoring of airborne fiber counts during asbestos abatement and demolition. The Contractor is required to perform personal exposure monitoring for his employees as required by the OSHA Asbestos Construction Standard (29 CFR 1926.1101) and is responsible for all costs associated with employee exposure monitoring, which are to be included in the Base Bid for the work.

#### Respirators

Provide respirators that comply with applicable regulations and standards governing respiratory protection. Except to the extent that more stringent requirements are written directly into the contract documents, the following regulations and standards have the same force and effect (and are made a part of the Contract Documents by reference) as if copied directly into the Contract Documents, or as if published copies were bound herewith. Where there is a conflict in requirements set forth in these regulations and standards, meet the more stringent requirement.

1. OSHA - U.S. Department of Labor Occupational Safety and Health Administration, Safety and Health Standards 29 CFR Part 1926.1101 and 29 CFR Part 1910.134.
2. ANSI - American National Standard Practices for Respiratory Protection, ANSI Z88.2-1980.
3. NIOSH - National Institute for Occupational Safety and Health
4. MSHA - Mine Safety and Health Administration

#### GloveBag

Provide glovebags specifically designed to enclose an object for asbestos removal. The glovebags shall be, at a minimum, constructed of six-mil transparent polyethylene or polyvinylchloride plastic with inward projecting long-sleeved gloves, an interior tool pouch, and designated locations for sprayer wand and HEPA vacuum wand. The glovebag shall be of sufficient capacity to hold removed materials and permit sealing and comply with the requirements of the OSHA Asbestos Construction Standard (29 CFR Part 1926.1101).

#### Duct Tape

Provide industrial grade duct tape in 2-inch and 3-inch widths, suitable for bonding sheet plastic and disposal containers specified herein.

#### Leak-Tight Containers

1. Provide leak-tight disposal containers and bags for asbestos-containing materials and generated wastes as specified herein. All disposal containers shall be either pre-labeled or affixed with OSHA warning label, as specified in 29 CFR Part 1926.1101. Provide six-mil thick leak-tight polyethylene bags labeled with text as follows:

**DANGER**  
**CONTAINS ASBESTOS FIBERS**  
**MAY CAUSE CANCER**

**CAUSES DAMAGE TO LUNGS**

**DO NOT BREATHE DUST**

**AVOID CREATING DUST**



2. Provide marking for each asbestos-waste container as follows:  
 RQ, Asbestos, NA 2212 (plus the Class 9 label)
3. For asbestos-containing waste material to be transported from the project sites, affix each container and/or wrapped material with a label that complies with the labeling requirements pursuant to 40 CFR Part 61.150, Standard for waste disposal for manufacturing, fabricating, demolition, renovation, and spraying operations. Include the name of the waste generator and the locations at which the waste was generated.

2.3 SOURCE QUALITY CONTROL:

Encapsulants shall conform to USEPA requirements, shall contain no toxic or hazardous substances or solvent, and shall meet the following requirements:

A. Requirements and Corresponding Test Standards for All Encapsulants

<u>Requirement Standard</u>	<u>Test</u>
Flame Spread – 25, Smoke Emission – 50	ASTM E 84
Combustion Toxicity Pittsburg Protocol	University of
Zero Mortality University of Pittsburg Protocol	
Life Expectancy – 20 years	ASTM C 732 (Accelerated Aging Test)
Permeability – Minimum 0.4 perms	ASTM E 96

Additional Requirements and Corresponding Test Standards for Bridging Encapsulant

<u>Requirement Standard</u>	<u>Test</u>
Cohesion/Adhesion Test –	ASTM E 736 (50 pounds of force/foot)
Fire Resistant E 119	ASTM
Impact Resistance – Minimum 43 in/lb	ASTM D 2794 (Gardner Impact Test)
Flexibility – no rupture or cracking Test)	ASTM D 522 (Mandrel Bend Test)

Additional Requirements and Corresponding Test Standards for Penetrating Encapsulant

<u>Requirement Standard</u>	<u>Test</u>
Cohesion/Adhesion Test –	ASTM E 736 (50 pounds of force/foot)



Fire Resistant ASTM  
E 119

Impact Resistance – Minimum 43 in/lb ASTM D 2794 (Gardner Impact Test)

Flexibility – no rupture or cracking ASTM D 522 (Mandrel Bend Test)

Additional Requirements and Corresponding Test Standards for Bridging Encapsulant

Requirement Test Standard

Cohesion/Adhesion Test – ASTM E 736 (50 pounds of force/foot)

Fire Resistant – ASTM E 119

Impact Resistance – Minimum 43 in/lb ASTM D 2794 (Gardner Impact Test)

Flexibility – no rupture or cracking ASTM D 522 (Mandrel Bend Test)

Additional Requirement and Corresponding Test Standards for Lock-Down Encapsulant

Requirement Test Standard

Fire Resistant ASTM E 119

Bond Strength ASTM E 736

**PART 3 EXECUTION**

3.1 GENERAL:

Remove and dispose asbestos-containing material at an approved disposal or recycling facility. Obtain all required permits and approval documents. Provide approved containers, vehicles, equipment, labor, signs, placards, labels, manifests, and other documents necessary for accomplishing the work including materials necessary for spill cleanup from removal operations. Coordinate any additional sampling that may be necessary.

The Contractor shall be responsible for providing adequate toilets, electrical power, heat, and water (including hot water) for the abatement/decontamination activities. Costs associated with obtaining/providing temporary utility services to the property or for providing portable sources of electrical power and water sufficient for abatement and decontamination activities shall be included in the Base Bid for the work. Access to the buildings' electrical supply, water supply, and toilet facilities may be made available to the Contractor at the discretion of the Owner.

A. Safety Guidelines

Personnel working inside and in the general vicinity of the cleanup area shall be trained and made thoroughly familiar with the safety precautions, procedures, and equipment required for controlling the potential hazards associated with this work. Personnel shall use proper protection and safety equipment during work in and around the asbestos regulated Work Area. Before beginning work with any material for which a Safety Data Sheet has been submitted provide workers with the required protective equipment. Require appropriate protective equipment and decontamination equipment in accordance with applicable regulations, standards, and these specifications.

B. Controls

Areas where asbestos abatement activities are conducted shall be demarcated and managed in accordance with the OSHA Asbestos Construction Standard (29 CFR 1926.1101) requirements for Regulated Areas. Asbestos removal activities shall be conducted in accordance with the Class I and Class II asbestos work requirements of the OSHA Asbestos Construction Standard. Friable

asbestos materials shall be removed within a negative pressure enclosure or via glovebag removal methods specified in the standard. Should the Contractor elect to remove nonfriable ACMs by methods that will not result in intact removal, removal shall also be conducted within a negative pressure enclosure and in accordance with OSHA Class II asbestos work requirements.

Asbestos removal activities shall be conducted in compliance with USEPA requirements under the NESHAP regulations (40 CFR 61, Subpart M), utilizing wet methods such that no visible emissions are produced during removal.

C. Additional Bulk Asbestos Sampling

Bulk asbestos sampling and polarized light microscopy analysis (PLM) has been conducted for various materials located throughout the sites. During abatement activities, previously unidentified potential asbestos-containing material may be encountered, requiring bulk sampling and analysis. If the Contractor finds suspect ACM for which no laboratory results exist, the Contractor is responsible to bring the material to the attention of the Owner's Representative. Unless otherwise directed, the Owner's Representative will retain an accredited consultant to collect bulk samples of the material for analysis by Polarized Light Microscopy (PLM) verified by point counting for all samples visually estimated at less than 10 % asbestos. The Contractor shall not collect samples of suspect ACM and submit the samples for laboratory analysis. Additional bulk samples shall be submitted to a laboratory accredited by the National Institute of Standards and Technology (NIST) under the requirements of the National Voluntary Laboratory Accreditation Program (NVLAP) for asbestos analysis.

3.2 ABATEMENT PROCEDURES:

Determine and implement the most efficient asbestos abatement method in conformance with this specification. Employ proper handling procedures in accordance with 29 CFR Part 1926.1101 and 40 CFR Part 61, Subpart M, and the requirements specified herein. Abatement techniques and items identified shall be detailed in the Work Plan including but not limited to details of construction materials, equipment, and handling procedures, and necessary safety precautions.

3.3 ABATEMENT PROCEDURES-NEGATIVE PRESSURE ENCLOSURE:

A. Sequence of Work:

Access to the Work Area shall be through a decontamination system. All other entrances (doors, windows, hallways, etc.) must be blocked or locked. The Contractor must construct a minimum of a three chambered air lock decontamination system at the Work Area entrance which shall consist of an equipment room/dirty room, shower room, clean room.

The Personnel Decontamination Unit shall be the only means of ingress and egress for the Work Area except in the case of fire or a medical emergency that prevents decontamination. All materials shall be moved from the Work Area through the Equipment Decontamination Unit. The only exceptions to this requirement is a waste pass-out air lock that must be sealed except during the removal from the Work Area of sealed asbestos waste in containers, make up air if needed, and emergency exits in case of fire or an accident. Emergency exits will not be locked from the inside and will be sealed with polyethylene sheeting and tape until needed.

Carry out work of this Section sequentially. Complete each activity before proceeding to the next. For the purposes of this Section of the project specifications, a Work Area is the location where asbestos abatement work occurs. A "Work Area" is considered contaminated during the work and must be isolated. A Work Area must be decontaminated at the completion of the asbestos abatement work.

1. Completely isolate the Work Area with polyethylene critical barriers so as to prevent asbestos-containing dust or debris from passing beyond the isolated area. Should the area

beyond the Work Area(s) become contaminated with asbestos-containing dust or debris as a consequence of the work, clean those areas in accordance with the procedures specified below. Perform all such required cleaning or decontamination at no additional cost to Owner.

2. Place all tools, scaffolding, staging, etc. necessary for the work in the area to be isolated prior to completion of Work Area isolation.
3. Disable ventilating systems or any other system bringing air into or out of the Work Area. Disable system(s) by disconnecting wires, removing circuit breakers, by lockable switch or other positive means that will prevent accidental premature restarting of equipment.
4. Lockout power to Work Area by switching off all breakers serving power or lighting circuits in Work Area. Label breakers with tape over breaker with notation "DANGER circuit being worked on". Lock panel and have all keys under control of Contractor's Superintendent or Owner.
5. Lockout power to circuits running through Work Area wherever possible by switching off all breakers or removing fuses serving these circuits. Label breakers with tape over breaker with notation "DANGER circuit being worked on". Lock the panel and have all keys under control of contractor's superintendent or owner's designated representative. If circuits cannot be shut down for any reason, label at intervals 4'-0" on center with tags reading, "DANGER live electric circuit. Electrocution hazard". Label circuits in hidden locations but which may be affected by the work in a similar manner.

Emergency Exits:

Provide emergency exits and emergency lighting as set forth below:

1. Emergency Exits: At each existing exit door from the Work Area provide the following means for emergency exiting:
  - a) Arrange exit door so that it is secure from outside the Work Area but permits exiting from the Work Area.
  - b) Arrange Critical and Primary barriers so that they can be easily cut with one pass of a razor knife.
  - c) Mark the outline of the door on the Primary and Critical Barriers with luminescent paint at least one-inch wide. Hang a razor knife on a string beside the outline.
  - d) Paint the words "EMERGENCY EXIT" inside the outline with luminescent paint in letters at least one foot high and two-inches thick.

Control Access:

1. Provide the employees who are authorized to enter the construction site with work clothing consisting of disposable full body coveralls, head covers, boots, and other safety gear as needed, including hard hats and eye protection.
2. Allow only authorized personnel to enter the Work Area and only when properly protected. All unauthorized individuals entering the Work Area shall be immediately reported to Owner and Owner's Representative.
3. Provide warning signs at each outside locked door leading to Work Area reading as follows:

Print text in English:

Legend

KEEP OUT

Notation

3" Sans Serif Gothic or Block

---

CONSTRUCTION	1" Sans Serif Gothic or Block
WORK AREA	1" Sans Serif Gothic or Block
PROTECTIVE CLOTHING REQUIRED BEYOND THIS POINT	14 Point Gothic

4. Immediately inside door and outside critical barriers post an approximately 20 inch by 14 inch manufactured caution sign displaying the legend and with letter sizes and styles of a visibility as required by 29 CFR 1926.1101.

Alternative Methods of Enclosure:

Alternative methods of containing the Work Area may be submitted to the Owner's Representative for review and approval with the Contractor's proposal.

Respiratory And Worker Protection:

Before proceeding beyond this point in providing Temporary Enclosures:

1. Provide Worker Protection per Section 02 8213.02
2. Provide Respiratory Protection per Section 02 8213.03
3. Provide Personnel Decontamination Unit per paragraph H of this Section.

Critical Barriers:

1. Completely isolate the Work Area from the outside by closing all openings with two layers of sheet plastic barriers at least six-mil in thickness, or by sealing cracks leading out of Work Area with duct tape or approved expanding foam.
2. Individually seal all doorways, windows, and other openings into the Work Area with duct tape alone or with polyethylene sheeting, at least six-mil in thickness, taped securely in place with duct tape. Maintain seal until all work including Project Decontamination is completed.
3. Provide Pressure Differential System.

Preparation Of Work Area:

1. Scaffolding: If fixed scaffolding is to be used to provide access, HEPA vacuum and wet clean area prior to scaffolding installation.
2. Sheet Polyethylene: Protect windows in the Work Area with two layers of polyethylene sheeting. Mechanically support and seal with duct tape or spray-glue the Secondary Barrier in the same manner as "Critical Barrier" sheet polyethylene barriers.
3. Repair of Damaged Polyethylene Sheeting: Remove and replace polyethylene sheeting that has been damaged by removal operations or where seal has failed allowing water to seep between layers. Remove affected sheeting and wipe down entire area. Install new sheet polyethylene only when area is completely dry.

Personnel Decontamination Unit:

Provide a Personnel Decontamination Unit consisting of a serial arrangement of connected rooms or spaces, Changing Room, Shower Room, Equipment Room and/or "dirty" room. Require all persons without exception to pass through this Decontamination Unit for entry into and exiting from the Work Area for any purpose. Do not allow parallel routes for entry or exit. Do not remove equipment or materials through Personnel Decontamination Unit. Provide temporary lighting within Decontamination Units as necessary to reach a lighting level of 100 foot candles. If adequate hot water is not available from the building's hot water system, and

authorized for use by the Owner, equip each decontamination unit with an electric water heater to provide hot water to the shower.

1. Changing Room (clean room): Provide a room that is physically and visually separated from the rest of the building for the purpose of changing into protective clothing.
  - a) Construct using polyethylene sheeting, at least six-mil in thickness, to provide an airtight seal between the Changing Room and the rest of the building.
  - b) Locate so that access to Work Area from Changing Room is through Shower Room.
  - c) Require workers to remove all street clothes in this room, dress in clean, disposable coveralls, and don respiratory protection equipment. Do not allow asbestos-contaminated items to enter this room. Require workers to enter this room either from outside the structure dressed in street clothes, or naked from the showers.
  - d) Provide an area to clean, store and recharge respirators. An electrical board with Ground Fault Circuit Interrupters (GFCI) shall be constructed to recharge batteries for PAPRs and recharge personal air monitoring devices.
  - e) Maintain floor of changing room dry and clean at all times. Do not allow overflow water from shower to wet floor in changing room.
  - f) Damp wipe all surfaces twice after each shift change with a disinfectant solution. If elevated fiber counts are read from air monitoring samples collected from or close to the decontamination unit, the Owner's Representative or the Asbestos Project Designer may request that the Contractor install additional engineering controls to reduce the airborne fiber concentrations. The Contractor shall implement all additional engineering controls requested due to elevated fiber concentrations at no additional cost to the Owner.
  - g) Provide posted information for all emergency phone numbers and procedures.
  - h) Separate the Drying Room from the rest of the building with airtight walls fabricated of six-mil polyethylene.
  - i) Separate the Drying Room from the Changing Room and Shower Room with airtight walls fabricated of six-mil polyethylene.
  - j) Provide a continuously adequate supply of disposable bath towels.
2. Shower Room: Provide a completely watertight operational shower to be used for transit by cleanly dressed workers heading for the Work Area from the Changing Room, or for showering by workers headed out of the Work Area after undressing in the Equipment Room.
  - a) Construct room by providing a shower pan and two shower walls in a configuration that will cause water running down walls to drip into pan. Install a freely draining wooden floor in shower pan at elevation of top of pan.
  - b) Separate this room from the rest of the building with airtight walls fabricated of six-mil polyethylene.
  - c) Separate this room from the Drying Room and Equipment Room with airtight walls fabricated of six-mil polyethylene.
  - d) Provide splash-proof entrances to Drying Room and Equipment Room.
  - e) Provide shower head and controls.
  - f) Provide temporary extensions of existing hot and cold water and drainage, as necessary for a complete and operable shower.

- g) Provide liquid soap, shampoo, and fingernail brush.
  - h) Arrange water shut off and drain pump operation controls so that a single individual can shower without assistance from either inside or outside of the Work Area.
  - i) Pump waste water to drain or to storage for use in amended water. Provide 20-micron and 5-micron waste water filters inline to drain or waste water storage. Change filters daily or more often if necessary. Locate filters such that water lost during filter changes is caught by shower pan.
  - j) Provide hose bib.
3. Equipment Room (contaminated area): Require work equipment, footwear and additional contaminated work clothing to be left here. This is a change and transit area for workers.
- a) Separate this room from the Work Area by a six-mil polyethylene flapped doorway.
  - b) Separate this room from the rest of the building with airtight double walls fabricated of six-mil polyethylene.
  - c) Provide a drop cloth layer of sheet plastic on floor in the Equipment Room for every shift change expected. Roll drop cloth layer of plastic from Equipment Room into Work Area after each shift change. Replace before next shift change. Provide a minimum of two layers of polyethylene at all times. Use only clear polyethylene to cover floors.
4. Work Area: Separate Work Area from the Equipment Room by polyethylene barriers. If the airborne asbestos level in the Work Area is expected to be high, add an intermediate cleaning space between the Equipment Room and the Work Area. Damp wipe clean all surfaces after each shift change. Provide one additional floor layer of six-mil polyethylene per shift change and remove contaminated layer after each shift.
5. Decontamination Sequence: Require that all workers adhere to the following sequence when entering or leaving the Work Area:
- Entering Work Area:
- a) Worker enters Changing Room and removes street clothing, puts on clean disposable overalls and respirator, and passes through the Shower Room into the Equipment Room.
  - b) Any additional clothing and equipment left in Equipment Room needed by the worker, such as rubber work boots, are put on in the Equipment Room.
  - c) Worker proceeds to Work Area.
- Exiting Work Area:
- a) Before leaving the Work Area, require the worker to remove all gross contamination and debris from overalls and footwear.
  - b) The worker proceeds to the Equipment Room removes boots and removes all clothing except respiratory protection equipment.
  - c) Extra work clothing such as boots, hard hats, goggles, and gloves are to be stored in contaminated end of the Equipment Room.
  - d) Disposable coveralls are placed in a bag for disposal with other asbestos-contaminated material.
  - e) Require all individuals, including supervisors and superintendents, leaving the Work Area follow the Decontamination procedures found in these specifications.

Equipment Decontamination Unit:

Provide an Equipment Decontamination Unit consisting of a serial arrangement of rooms, Clean Room, Holding Room, and Wash Room, for removal of equipment and material from Work Area. Do not allow personnel to enter or exit Work Area through Equipment Decontamination Unit.

1. Wash Room: provide wash room for cleaning of bagged or containerized asbestos-containing waste materials passed from the Work Area.
  - a) Separate this room from the Work Area by a double flapped door of six-mil polyethylene sheeting.
  - b) Provide a drop cloth layer of polyethylene sheeting on floor in the Wash Room for every load-out operation. Roll this drop cloth layer of polyethylene from Wash Room into Work Area after each load-out. Provide a minimum of two layers of polyethylene at all times. Use only clear polyethylene to cover floors.
2. Holding Room: Provide Holding Room as a drop location for bagged asbestos-containing materials passed from the Wash Room.
  - a) Separate this room from the adjacent rooms by flap doors fabricated from six-mil polyethylene sheeting.
3. Load-out Area: The load-out area is the transfer area from the building to a truck or waste bin. It may be the Clean Room of the Equipment Decontamination unit or a separate room or loading dock area. Provide a layer of six-mil polyethylene sheeting on the floor in this room between the Holding Room and the truck or waste bin during load-out operations.
4. Decontamination Sequence: Take all equipment or material from the Work Area through the Equipment Decontamination Unit according to the following procedure:
  - a) At wash station, thoroughly wet-clean contaminated equipment or sealed polyethylene bags and pass into Wash Room.
  - b) Once inside the washroom, wet-clean the bags and/or equipment.
  - c) When cleaning is complete pass items into Holding Room. Close all doorways except the doorway between the Holding room and the Load-out area.
  - d) Workers from the Load-out area enter Holding Area and remove decontaminated equipment and/or containers for disposal.
5. Require these workers to wear full protective clothing and appropriate respiratory protection.
6. At no time is a worker from an uncontaminated area to enter the Holding Room when a removal worker is inside
7. Visual Barrier: Where the Decontamination area is immediately adjacent to, and within view of, occupied or public areas, the Contractor shall provide a visual barrier of opaque or black polyethylene sheeting at least six-mil in thickness so that worker privacy is maintained or construct a barrier with wood or metal studs covered with minimum 1/4 inch thick hardboard or 1/2 inch plywood. Where the solid barrier is provided, sheeting need not be opaque.
8. Submit methods of providing Decontamination facilities to the Owner's Representative for review.
9. Electrical: Provide sub-panel at Changing Room to accommodate all removal equipment. Connect all electrical branch circuits in Decontamination unit and particularly any pumps in shower room to a ground fault circuit interrupter (GFCI) device.
10. Heating: Provide water heaters to heat the water for decontamination purposes and wetting of ACM. If conditions require, provide heat to Change Room area.

Cleaning Of Decontamination Units:

1. Clean debris and residue from inside of Decontamination Units on a daily basis. Damp wipe or hose down all surfaces after each shift change. Clean debris from shower pans on a daily basis.
2. If the Changing Room of the Personnel Decontamination Unit becomes contaminated with asbestos-containing debris, abandon the entire Decontamination Unit and erect a new Decontamination Unit. Use the former Changing Room as an inner section of the new Equipment Room.

Signs:

Post an approximately 20 inch by 14 inch manufactured caution sign at each entrance to the Work Area displaying the legend with letter sizes and styles of a visibility as required by 29 CFR 1926.1101.

**DANGER**  
**ASBESTOS**  
**MAY CAUSE CANCER**  
**CAUSES DAMAGE TO LUNGS**  
**AUTHORIZED PERSONNEL ONLY**



In addition, where the use of respirators and protective clothing is required by the standard, the warning signs shall include:

**WEAR RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING IN THIS AREA**

Pressure Differential Isolation

1. Isolate the Work Area from all adjacent areas with a pressure differential that will cause a movement of air from outside to inside at any breach in the physical isolation of the Work Area.
2. Relative Negative Pressure in Work Area: Continuously maintain the Work Area at an air pressure that is lower than that in any surrounding space in the building, or at any location in the immediate proximity outside of the building envelope. This pressure differential when measured across any physical or critical barrier must equal or exceed a static pressure of - 0.02 column-inches of water, relative to the outside pressure.
3. Accomplish the negative pressure differential by exhausting a sufficient number of HEPA-filtered fan units from the Work Area. The number of units required will depend on machine characteristics, the seal at barriers, and required air circulation. The number of units will increase with increased make-up air or leaks into the Work Area. Determine the number of units required for pressure isolation by the following procedure:
  - a) Establish required air circulation in the Work Area, worker decontamination unit and equipment decontamination unit.
  - b) Establish isolation by increased pressure in adjacent areas or as part of seals where required.



- c) Exhaust a sufficient number of units from the Work Area to develop the required pressure differential.
4. Install the required number of units as determined above plus one additional unit.
5. **Vent the exhaust streams from the HEPA-filtered fan units to outside of building** unless authorized in writing by the Owner and Owner's Representative.

Air Circulation in The Work Area:

Air Circulation: Air circulation refers to either the introduction of outside air to the Work Area or the circulation and cleaning of air within the Work Area. Air circulation in the Work Area is a minimum requirement intended to help maintain airborne fiber counts at a level that does not significantly challenge the Work Area isolation measures. The Contractor may also use this air circulation as part of the engineering controls in his worker protection program.

1. Air Circulation Requirements: Provide a fully operational air circulation system supplying a minimum of four air changes per hour.
2. Number of Units: Determine the number of units needed to achieve the required air circulation according to the following procedure:

- a) Determine the volume in cubic feet of the Work Area by multiplying floor area by ceiling height.
- b) Determine total air circulation requirement in cubic feet per minute (CFM) for the Work Area by dividing this volume by the air change rate and multiplying by 60.
- c) Air Circulation Required in Cubic Feet of Air per Minute (CFM) =

$$\frac{\text{Volume of Work Area (cu. ft.)} \times \text{Number of air changes per hour}}{60 \text{ (minutes per hour)}}$$

- d) Divide the air circulation requirement (CFM) above by capacity of HEPA filtered fan unit(s) used. Capacity of a unit for purposes of this Section is the capacity in cubic feet per minute with fully loaded filters (pressure differential which causes loaded filter warning light to come on) in the machine's labeled operating characteristics.
- e) Number of Units Needed =

$$\frac{\text{Air circulation requirement (CFM)}}{\text{Capacity of Unit with Loaded Filters (CFM)}}$$

- f) Add two additional units as a reserve in case of equipment failure or machine shutdown for filter changing.

Exhaust System:

Pressure differential isolation and air circulation in the Work Area are to be accomplished by an exhaust system as described below.

1. Filtration Exhaust: Exhaust all units from the Work Area to meet air circulation requirement of this Section. Vent exhaust to outside of building, unless authorized in writing by the Owner and Owner's Representative.
2. Location of HEPA Filtered Fan Units: Locate fan unit(s) so that makeup air enters Work Area primarily through decontamination facilities and traverses Work Area as much as possible. This may be accomplished by positioning the HEPA-filtered fan unit(s) at a maximum distance from the worker access opening or other makeup air sources.

3. Unit Placement: Place end of unit, its intake duct or its exhaust duct, through an opening in the polyethylene barrier or wall covering. Seal polyethylene around the unit or duct with tape.
4. Primary Makeup Air Intake: Arrange the Work Area and decontamination unit(s) so that the majority of makeup air comes through the decontamination unit(s). Use either the personnel decontamination unit or the equipment decontamination unit at any one time and seal the unused unit so the makeup air passes through unit in use.
5. Supplemental Makeup Air Inlets: Provide where required for proper air flow through the Work Area in location approved by the Owner and Owner's Representative by making openings in the plastic sheeting that allow air from outside the building into the Work Area. Locate auxiliary makeup air inlets as far as possible from the fan unit(s) (e.g., on an opposite wall), off the floor (preferably near the ceiling), and away from barriers that separate the Work Area from occupied clean areas. Cover with flaps to re-seal automatically if the pressure differential system should shut down for any reason. Spray flap and around opening with spray adhesive so that if flap closes meeting surfaces are both covered with adhesive. Use adhesive that forms contact bond when dry.

Air Circulation in Decontamination Units:

1. Pressure Differential Isolation: Continuously maintain the pressure differential required for the Work Area in the:
  - a) Personnel Decontamination Unit: across the Shower Room with the Equipment Room at a lower pressure than the Clean room.
  - b) Equipment Decontamination Unit: Across the Holding Room with the Wash Room at a lower pressure than the Clean Room.
2. Air Circulation: Continuously maintain air circulation in Decontamination Units at same level as required for Work Area.
3. Air Movement: Arrange air circulation through the Personnel Decontamination Unit so that it produces a movement of air from the Clean Room through the Shower Room into the Equipment Room. Maintain continuous minimum velocities of 60 feet per minute in the breathing zone area of the shower and 30 feet per minute in all other locations of the shower.

Use of the Pressure Differential and Air Circulation System:

1. Electrical service: Each filtration unit shall be serviced by a dedicated minimum 115V-20A circuit with ground fault circuit interrupter (GFCI) supplied from temporary power supply installed under requirements of applicable NEMA, NECA, and UL standards and governing regulations for materials and layout of temporary electric service.
2. Testing the System: Test pressure differential system before any asbestos-containing material is wetted or removed. After the Work Area has been prepared, the decontamination facility set up, and the fan unit(s) installed, start the unit(s) (one at a time). Demonstrate operation and testing of pressure differential system to the Owner's Representative and the Project Monitor.
3. System Operation: The Contractor shall demonstrate operation of the pressure differential system to the satisfaction of the Owner's Representative and the Project Monitor. Such demonstration may include, but not be limited to:
  - a) Use of a smoke tube test to demonstrate air movement from Clean Room through Shower Room to Equipment Room.

- b) Use of a smoke tube test to demonstrate a definite motion of air across all areas in which work is to be performed.
4. Use a differential pressure meter or manometer to demonstrate the required pressure differential at every barrier separating the Work Area from the balance of the building, equipment, ductwork or outside.
5. Pressure Differential System Modification: The Contractor shall modify the system as necessary to successfully demonstrate the conditions listed above.
6. Pressure Differential Monitoring: The Contractor shall continuously monitor and record the pressure differential between the Work Area and the area outside the Work Area with a manometric monitoring device incorporating a continuous recorder (e.g. strip chart) or an electronic data logging system capable of producing a printed log with a log printed at the end of each work shift.
  - a) Monitor pressure differential at Personnel and Equipment Decontamination Units with a differential pressure meter equipped with a continuous recorder. Meter shall be equipped with an audible alarm that will sound if pressure differential rises above minus 0.01 inches of water column.
  - b) At the conclusion of the project: Submit printout from pressure differential monitoring equipment demonstrating continuous, adequate negative pressure differential for all NPE work areas. Mark printout with date and start of time for each day, as necessary. Use printout paper that indicates elapsed time in intervals no greater than one-half hours. Indicate on each day's record times of starting and stopping abatement work, type of work in progress, breaks for lunch or other purposes, periods of stop work, and filter changes. Cut printout into segments by day, attach to 8 1/2" by 11" paper. Label with project name, contractors name and date.
7. System During Abatement Activities: The Contractor shall operate the negative pressure differential system as outlined below:
  - a) Start fan units before beginning work (before any asbestos-containing material is disturbed). After abatement work has begun, run units continuously to maintain a constant pressure differential and air circulation until decontamination of the work area is complete. Do not turn off units at the end of the work shift or when abatement operations temporarily stop.
  - b) Do not shut down air pressure differential system during encapsulating procedures, unless authorized by the Owner, Owner's Representative, or Asbestos Project Designer in writing. Supply sufficient pre-filters to allow frequent changes
  - c) Start abatement work at a location farthest from the fan units and proceed toward them. If an electric power failure occurs, immediately stop all abatement work and do not resume until power is restored and fan units are operating again.
  - d) At completion of abatement work, allow fan units to run to remove airborne fibers that may have been generated during abatement work and cleanup and to purge the Work Area with clean makeup air. The units may be required to run for a longer time after decontamination, if dry or only partially wetted asbestos material was encountered during any abatement work.
8. Dismantling the System: When a final inspection and the results of clearance air tests indicate that the Work Area has been decontaminated, the filtration fan units may be removed from the Work Area. Before removal from the Work Area, remove and properly dispose of pre-filter, decontaminate exterior of machine and seal intake to the machine with six-mil polyethylene to prevent environmental contamination from the filters.

Secondary Barrier:

Secondary Barrier: Over the Primary Barrier, install as a drop cloth a clear six-mil sheet polyethylene in all areas where asbestos removal work is to be carried out. Completely cover floor with sheet polyethylene. Where the work is within 10'-0" of a wall extend the Secondary Barrier up wall to ceiling. Support sheet polyethylene on wall with duct tape, seal the top of the polyethylene Secondary Barrier to the Primary Barrier with duct tape so that debris is unable to get behind it. Provide cross strips of duct tape at wall support as necessary to support sheet polyethylene to prevent it falling during removal operations.

Install Secondary Barrier at the beginning of each work shift. Install only sufficient polyethylene for work of that shift.

Remove Secondary Barrier at end of each work shift or as work in an area is completed. Fold polyethylene toward center of sheet and pack in disposal bags. Keep material on sheet continuously wet until bagged.

#### Worker Protection:

Before beginning work with any material for which a Safety Data Sheet has been submitted provide workers with the required protective equipment. Require appropriate protective equipment and decontamination equipment in accordance with these project specifications.

#### Wet Removal Methods:

1. Thoroughly wet suspect ACM debris prior to stripping and/or tooling to reduce fiber dispersal into the air.
2. Remove saturated Asbestos-Containing Material in small sections from all areas. Do not allow material to dry out. As it is removed, simultaneously pack material while still wet into disposal bags. Twist neck of bags, bend over, and seal with minimum three wraps of duct tape.
3. Remove Secondary Barrier at end of each work shift or as work in an area is completed. Fold plastic toward center of sheet and pack in disposal bags. Keep material on sheet continuously wet until bagged.

#### Cleaning the Work Area:

1. First Cleaning: Carry out a first cleaning of all surfaces of the work area including Critical Barrier sheeting, tools, scaffolding and/or staging by use of damp cleaning and mopping, and/or a High Efficiency Particulate Absolute (HEPA) filtered vacuum. (Note: A HEPA vacuum will fail if used with wet material.) Do not dry dust or dry sweep. Continue cleaning until there is no visible dust, debris or residue on plastic sheeting or other surfaces. Clean the Work Area utilizing the following procedures:
  - a) Immerse paper towel or rag in container of water with surfactant, or diluted removal encapsulant.
  - b) Wring out towel or rag, fold into quarters, wipe surface once and refold to a fresh face of cloth.
  - c) Proceed in this manner until all available faces of paper towel or rag have been used then dispose of paper towel or rag as asbestos-contaminated material.
  - d) Do not reuse towel or rag.
2. Final Cleaning: Carry out a final cleaning of all surfaces in the Work Area in the same manner as the first cleaning.
3. Perform a Complete Visual Inspection of the entire Work Area including decontamination unit, sole barrier sheeting, seals over ventilation openings, doorways and windows, etc. for debris from any sources, residue on surfaces, etc. The visual inspection of each Work Area shall be conducted in general accordance with ASTM Designation *E 1368, Standard*

*Practice For Visual Inspection of Asbestos Abatement Projects.* If any such debris or residue is found repeat the first cleaning and continue the decontamination procedure from that point.

4. When the Work Area is visually clean and has been inspected by the Contractor's site foreman, request a visual review by the Project Monitor. The visual review of each Work Area shall be conducted in general accordance with ASTM Designation *E 1368, Standard Practice For Visual Inspection of Asbestos Abatement Projects*. The Project Monitor will review all areas the Contractor believes are complete and indicate what re-cleaning, if any, is required.
5. When the Work Area has passed visual inspection by the Contractor and has been reviewed by the Owner's Representative or Project Monitor, the Certification appended to the end of this Section shall be endorsed by the Contractor's superintendent.
6. After passing the visual inspection by Contractor and obtaining a concurring opinion from the Owner's Representative or Project Monitor, the Contractor shall apply an encapsulant to all surfaces in the Work Area and decontamination chamber. The encapsulant shall be tinted blue.
7. Clearance air samples will be collected by the Project Monitor in each Work Area at the completion of final cleaning.

Certificate of Visual Inspection:

1. Following this Section is a "Certificate of Visual Inspection". This Certification is to be completed by the Contractor for each NPE or asbestos abatement Work Area.
2. Submit completed Certificate to the Owner's Representative for the final project records.
3. Final payment will not be made until these Certifications are executed.

Disposal of ACM Waste

This part of this Section describes the disposal of asbestos-containing materials (ACMs). Disposal includes packaging of asbestos-containing waste materials.

1. Before Start of Work: Submit the following to the Owner, Owner's Representative, and Project Monitor for review. Do not start work until these submittals are returned with Owner's action stamp indicating that the submittal is returned for unrestricted use.
  - a) Copy of state or local license for waste transporter.
  - b) Name and address of landfill where asbestos-containing waste materials are to be buried. Include contact person and telephone number.
  - c) Within 48 hours, submit copies of all manifests and disposal site receipts to the Owner and Owner's Representative.
2. The Contractor shall be responsible for containerizing ACMs per the current, applicable federal and state regulations. Load all asbestos-containing waste material in disposal bags or leak-tight drums. All materials are to be contained in one of the following:

Two six-mil disposal bags or.

Two six-mil disposal bags and a fiberboard drum.
3. Provide six-mil thick leak-tight polyethylene bags labeled with text as follows:

**DANGER**  
**CONTAINS ASBESTOS FIBERS**  
**MAY CAUSE CANCER**  
**CAUSES DAMAGE TO LUNGS**  
**DO NOT BREATHE DUST**  
**AVOID CREATING DUST**



Provide marking for each asbestos-waste container as follows:

RQ, Asbestos, NA 2212 (plus the class 9 label)

4. Additional Labeling Requirements: The Contractor shall observe the labeling requirements pursuant to 40 CFR part 61.150 Standard for waste disposal for manufacturing, fabricating, demolition, renovation, and spraying operations. The following requirements are contained in Paragraph (a) (1) of the standard:
  - (iii) After wetting, seal all asbestos-containing waste material in leak-tight containers while wet: or, for materials that will not fit into containers without additional breaking, put materials into leak-tight wrapping; and
  - (iv) Label the containers or wrapped materials specified in this Section using warning labels specified by Occupational Safety and Health Standards of the Department of Labor, Occupational Safety and Health Administration (OSHA) under 29 CFR 1926.1101 (k)(7). The labels shall be printed in letters of sufficient size and contrast so as to be readily visible and legible.
  - (v) For asbestos-containing waste material to be transported off the facility site, label containers or wrapped materials with the name of the waste generator and the locations at which the waste was generated.

The Contractor shall provide appropriate covered, leak-proof waste bins that can be locked for holding and disposal of asbestos-containing materials and shall arrange for removal of asbestos-containing materials from the job site. The Contractor shall line the waste bin with six-mil thick polyethylene sheeting prior to depositing bagged asbestos waste. **The waste bins shall be staged at a location authorized by the Owner and Owner's Representative. Do not store containerized materials outside of the Work Area, except in lined waste bins.**

5. For asbestos-containing waste material to be transported from the project sites, affix each container and/or wrapped material with a label that complies with the labeling requirements pursuant to 40 CFR Part 61.150 Standard for waste disposal for manufacturing, fabricating, demolition, renovation, and spraying operations. Include the name of the waste generator and the locations at which the waste was generated.
6. The Contractor shall be responsible for properly loading the containers in fully enclosed waste bins, trucks, or other appropriate vehicles for transport. Do not transport bagged materials for disposal in open trucks. Label drums with same warning labels as bags. Uncontaminated drums may be reused. Treat drums that have been contaminated as asbestos-containing waste and dispose of in accordance with this specification. **Exercise**

**care before and during transport, to ensure that no unauthorized persons have access to the material.**

7. Workers handling asbestos waste outside the containment area shall wear protective clothing and at minimum negative pressure half-face respiratory protection unless a Negative Exposure Assessment for waste handling activities has been produced in accordance with the requirements of 29 CFR 1926.1101. Workers performing load out procedures shall receive personal air monitoring.
8. The Contractor shall be responsible for properly securing and off-loading at the previously approved disposal site. Advise the landfill operator or processor, in advance of transport, of the quantity of material to be delivered. At the disposal site, sealed plastic bags may be carefully unloaded from the truck. If bags are broken or damaged, return to work site for re-bagging. Clean entire truck and contents using procedures set forth in this Section.
9. Retain receipts from landfill for materials disposed. At completion of hauling and disposal of each load submit copy of waste manifest, chain of custody form, and landfill receipt to the Owner and the Owner's Representative. **Only those receipts fully completed and endorsed will be accepted by the Owner or Owner's Representative.**
10. **Within 35 days of each waste shipment from the project sites, submit a completed NESHAP Waste Shipment Record (WSR) for each shipment of waste transportation from the project sites.**

Stop Work:

If the Critical barrier falls or is breached in any manner stop work immediately. Do not start work until authorized verbally by the Owner, Owner's Representative, or Project Monitor.

**END OF SECTION 02 82 13**

---

**ATTACHMENT TO SECTION 02 82 13**  
**CERTIFICATE OF VISUAL INSPECTION**

In accordance with Section 02 82 13, "Asbestos Abatement", the Contractor hereby certifies that he/she has visually inspected the Work Area (all surfaces including pipes, beams, ledges, walls, ceiling and floor, Decontamination Unit(s), sheet plastic, etc.) and has found no dust, debris or residue. The Contractor further certifies that all surfaces have received an application of encapsulant to "lock-down" any remaining microscopic fibers.

Work Area: \_\_\_\_\_

As Authorized Representative of the Contractor,

Inspected By: (Signature) \_\_\_\_\_

Date \_\_\_\_\_

(Print Name) \_\_\_\_\_

(Print Title) \_\_\_\_\_



---

## SECTION 02 82 13.01 – ASBESTOS ABATEMENT AIR MONITORING

### PART 1 GENERAL

#### 1.1 SCOPE OF WORK:

This Section describes air monitoring carried out by the Project Monitor to verify that the outside environment remains uncontaminated. This Section sets forth airborne fiber levels both inside and outside the Work Area as action levels, and describes the action required by the Contractor if an action level is met or exceeded. The Contractor shall provide a copy of the project specifications, including this Section, to the Project Monitor retained for the project.

This Section also sets forth required post-abatement airborne asbestos concentrations in the Work Area and describes testing procedures the Project Monitor may use to measure these levels. A Visual Inspection of each Work Area is required as a prerequisite of clearance air testing, as set forth in Section 02 8213, Asbestos Abatement.

Contractor's Personnel Air Monitoring: The Contractor is required to perform personal exposure monitoring for his employees as required by the OSHA Asbestos Construction Standard (29 CFR 1926.1101). Specific personal exposure monitoring requirements are listed below, in Item 6 of this Section.

#### 1.2 RELATED DOCUMENTS:

Diagrams and general provisions of contract, including general and supplementary conditions and other project specification Sections, apply to work of this Section.

#### 1.3 AIR MONITORING:

A. Background and Perimeter Airborne Fiber Monitoring: The Project Monitor shall perform monitoring of airborne fiber counts during all phases of asbestos abatement including background sampling and sampling of areas adjacent to the Work Area(s). The purpose of this air monitoring is to detect faults in the Work Area isolation such as:

1. Failure of filtration or rupture in the differential pressure system
2. Contamination of air outside of the Work Area or Negative Pressure Enclosure (NPE) by elevated airborne fiber levels.
3. Contamination of air outside the building by airborne asbestos fibers.

**Should any of the above occur, the Contractor shall immediately cease asbestos abatement activities until the fault is corrected. Asbestos abatement activities shall not recommence until authorized by the Owner or Project Monitor.**

B. Work Area Airborne Fiber Count: The Project Monitor will have an Industrial Hygiene technician on-site who may monitor airborne fiber counts in the Work Area. The purpose of this air monitoring will be to detect airborne asbestos concentrations that may challenge the ability of the Work Area isolation procedures to protect the area outside of the building from contamination by airborne fibers.

#### 1.4 STOP WORK LEVELS:

Inside Work Area: Maintain an average airborne count in the Work Area of less than 0.5 fibers per cubic centimeter (f/cc). If the fiber counts rise above this figure for any sample taken, revise work procedures to lower fiber counts. If the Time Weighted Average (TWA) fiber count for any

work shift or eight-hour period exceeds 0.5 f/cc, stop all work, leave Negative Pressure Differential System in operation and notify the Project Monitor.

- A. Outside Work Area: If any air sample collected outside of the Work Area exceeds 0.01 f/cc, immediately and automatically stop all work except corrective action.
  1. The Contractor shall decontaminate the area by utilizing air filtration and damp wipe down measures.
    - a) If this air sample was collected inside the building and outside of critical barriers around the Work Area and it exceeds the base line, immediately erect new critical barriers as outlined in Section 02 8213, Asbestos Abatement to isolate the affected area from the balance of the building. Erect Critical Barriers at the next existing structural isolation of the involved space (e.g., wall, ceiling, floor).
    - b) Decontaminate the affected area as outlined in Section 02 8213, Asbestos Abatement.
  2. If the elevated reading was the result of other causes initiate corrective action as determined by the Owner's Consultant.
- B. Effect on Contract Sum: Complete corrective work with no change in the Contract Sum if elevated airborne fiber counts were caused by Contractor's activities. The Contract Sum and schedule will be adjusted for additional work caused by elevated airborne fiber counts beyond the Contractor's control.
- C. Fibers Counted: The following procedure will be used to resolve any disputes regarding fiber types when a project has been stopped due to excessive airborne fiber counts.
  1. Large Fibers: "Airborne Fibers" referred to above include all fibers regardless of composition as counted by phase contrast microscopy (PCM), unless additional analysis by transmission or scanning electron microscopy demonstrates to the satisfaction of the Owner and Project Monitor that non-asbestos fibers are being counted. "Airborne Fibers" counted in samples analyzed by scanning or transmission electron microscopy shall be asbestos fibers, greater than five microns in length and greater than 0.25 microns in diameter.
  2. Small Structures: "Airborne Fibers" referred to above include asbestos structures (fibers, bundles, clusters or matrices) of any diameter and any length greater than 0.5 microns.
  3. If the Contractor desires additional analysis to determine the type of fibers detected in an elevated concentration which results in a stop work order, the Contractor will be responsible for the cost of the scanning or transmission electron microscopy analysis and any associated shipping fees.

#### 1.5 ANALYTICAL METHODS:

The following methods will be used by the Project Monitor in analyzing filters used to collect air samples. Sampling rates may be varied from printed standards to allow for high volume sampling.

- A. Phase Contrast Microscopy (PCM) will be performed using the NIOSH 7400 method. This analysis will be carried out at the Project Site until such time as each Work Area is visually inspected and ready for "final clearance" air monitoring.
- B. Transmission Electron Microscopy (TEM): If a dispute arises pertaining to a high fiber count or as directed by the Owner or the Project Monitor, TEM analyses using the Level 1

analysis per USEPA Provisional Method and Update (USEPA 1977, Yamate 1984), with either polycarbonate or mixed cellulose ester filters will be utilized.

1.6 SCHEDULE OF AIR SAMPLES:

The number, type and volume of air samples collected by the Project Monitor will be in accordance with the following schedule. Sample volumes given may vary depending upon the analytical method used.

- A. Sample cassettes: Samples will be collected on 25 mm. cassettes as follows:
  - 1. PCM: 0.8 micrometer mixed cellulose ester, or if required,
  - 2. TEM: 0.45 micrometer mixed cellulose ester or 0.40 micrometer polycarbonate, with 5.0-micron mixed cellulose ester backing filter. Samples collected for TEM analysis may be held without analysis.
- B. Types of air monitoring samples:
  - 1. Baseline Air Monitoring: Collected inside and outside of the Work Area(s) prior to abatement to determine ambient fiber levels.
  - 2. Background: Collected on a daily basis in areas away from the Work Area which should not be affected by abatement action.
  - 3. Contiguous: Collected on a daily basis in various/numerous locations outside the Work Area to detect elevated fiber levels during abatement.
  - 4. Work Area: Collected on a daily basis in various locations inside the Work Area to ensure compliance with proper procedures and specifications.
  - 5. Field Blanks: Field blanks are collected to ensure that contamination of cassettes has not occurred. Each set of samples collected will include ten percent (10%) blanks or a minimum of two blanks.
- C. Samples will be collected on 25 mm. cassettes with 0.8 micrometer mixed cellulose ester the filter media according to the following schedule:

SAMPLE LOCATION	NUMBER OF SAMPLES	ANALYSIS METHOD	DETECTION LIMIT (F/CC)	MINIMUM VOLUME (LITERS)	SAMPLING RATE (LITERS PER MINUTE)
Work Area	1 or as required	PCM	0.01	500	1.0-14.0
Outside work Area	3 or as required	PCM	0.01	1,200	1.0-14.0
Clean Room	1 or as required	PCM	0.01	1,200	1.0-14.0
Equipment or Waste load out	1 or as required	PCM	0.01	1,200	1.0-14.0
Air Filtration Device Exhaust	1 or as required	PCM	0.01	1,200	1.0-14.0

Additional samples may be collected at the discretion of the Owner or Project Monitor. If the airborne fiber concentrations exceed allowable limits, additional samples will be collected as necessary to monitor fiber levels.

1.7 LABORATORY TESTING:

All daily air monitoring samples collected by the Project Monitor will be analyzed by Phase Contrast Microscopy.

- A. A Phase-Contrast microscope and Industrial Hygiene technician will be set up at the Project Site for analysis of air samples collected by the Project Monitor during each shift of work.
- B. The Contractor will have access to all air monitoring tests and results.
- C. Reports of all air monitoring tests will be available at the Project Site.

1.8 CONTRACTOR PERSONNEL EXPOSURE MONITORING:

- A. The Contractor shall perform worker exposure monitoring required to meet OSHA Requirements 29 CFR 1926.1101 for the maintenance of Time Weighted Average (TWA) fiber concentrations for the types of respiratory protection provided, including, at the beginning of each work period, collection and analysis of Excursion Limit (1.0 f/cc over a 30 minute period) air sample.
- B. At a minimum, 25% of the Contractor's work force, stratified over each job function in the Work Area, shall be monitored for exposure to asbestos fibers. The samples shall be collected at flow rates of ranging from 0.5 liters to 2.5 liters per minute. The samples shall be collected in a manner consistent with accepted industrial hygiene practices. The sampling units utilized for collection of the personal exposure samples shall be calibrated with a primary or secondary calibration device at the beginning and end of each sample period. The mean flow rate shall be used to compute the sample volume.
- C. The Contractor shall provide for analysis of the samples in accordance with NIOSH 7400 Method within 24-hours of collection and shall submit a copy of a written report of all personal air monitoring. In addition, at the beginning of each work shift, the Contractor shall post the results of the exposure sampling conducted during the previous shift.
- D. The Contractor shall be responsible for all costs associated with the personnel exposure monitoring.
- E. Results of the personal exposure samples shall be posted at the Project Site and made available to the Owner as specified herein. The Contractor shall maintain a fiber concentration inside enclosed containment regulated Work Area equal to or less than 0.1 f/cc expressed as an eight hour, TWA during asbestos abatement. If fiber concentration rises above 0.1 f/cc, the Contractor's superintendent and the Project Monitor shall examine work procedures to determine the cause.
- F. Workers shall not be exposed to an airborne fiber concentration in excess of 1.0 f/cc, as average over a sampling period of 30 minutes. If either an environmental concentration of 0.1 f/cc expressed as an eight-hour TWA or a personal excursion concentration of 1.0 f/cc expressed as a 30-minute sample occur inside the enclosed Work Area, stop work immediately, notify the Owner and Project Monitor, and implement additional engineering controls and work practice controls to reduce airborne fiber levels below prescribed limits in the Work Area.

1.9 ASBESTOS WORK AREA CLEARANCE:

- A. Contractor Release Criterion: A visual review of each regulated Work Area shall be conducted in general accordance with ASTM Designation E 1368, Standard Practice For Visual Inspection of Asbestos Abatement Projects. The Asbestos Abatement Work Area is cleared when the Work Area is visually clean and airborne asbestos structure concentrations have been reduced to the levels specified below.

- B. Aggressive Sampling: All Negative Pressure Enclosure Work Area clearance air samples will be collected using aggressive sampling techniques as follows:
1. Before sampling pumps are started the exhaust from forced-air equipment (leaf blower with an approximately one horsepower electric motor) will be swept against all walls, ceilings, floors, ledges and other surfaces in the room. This procedure will be continued for five minutes per 10,000 cubic feet of room volume.
  2. One 20-inch diameter fan per 10,000 cubic feet of room volume will be mounted in a central location and directed toward ceiling and operated at low speed for the entire period of sample collection.
  3. Air samples will be collected in areas subject to normal air circulation away from room corners, obstructed locations, and sites near windows, doors, or vents.
  4. After the air sampling pumps have been shut off, the fans will be shut off.
- C. Clearance Air Sampling: To determine if the elevated airborne asbestos structure concentration encountered during abatement operations has been reduced to the specified level, the Owner's Consultant will collect air samples and analyze them according to the following procedures.
1. Schedule of Air Samples: The number and volume of air samples collected, and analytical methods used by the Project Monitor will be in accordance with the following schedule. Sample volumes given may vary depending upon the analytical instruments used and conditions at the Project Site.
  2. In each Homogeneous Work Area, after completion of all cleaning work, air clearance samples will be collected and analyzed by PCM or TEM. The sample numbers indicated below are to be considered minimum. The Owner and Project Monitor will determine air sampling changes for PCM or TEM analysis.
- D. Phase Contrast Microscopy (PCM): In each homogeneous Work Area after completion of all cleaning work, for PCM clearance sampling, samples may be collected according to the following schedule:

SAMPLE LOCATION	NUMBER OF SAMPLES	ANALYSIS METHOD	DETECTION LIMIT (F/CC)	MINIMUM VOLUME (LITERS)	SAMPLING RATE (LITERS PER MINUTE)
Each Work Area or	3 or as required	PCM	0.01	1,200	1.0-10.0
Each Room Within Work Area	1 or as required	PCM	0.01	1,200	1.0-10.0
Outside Work Area	1 or as required	PCM	0.01	1,200	1.0-10.0
Field Blank	1	PCM	0.01	0	unsealed
Laboratory Blank	1	PCM	0.01	0	sealed

1. Analysis will be performed using the NIOSH 7400 method.
2. Release Criterion: Decontamination of the Project Site is complete if all Work Area samples exhibit fiber concentrations of less than or equal to 0.01 fibers per cubic centimeter of air collected.

3. If these conditions are not met then the decontamination is incomplete and the cleaning procedures of Section 02 82 13, Asbestos Abatement shall be repeated. Reclean, resample, and reanalyze until final clean-up requirements are met. Costs associate with additional samples, cleaning, and inspections will be paid by the Contractor.

**PART 2 PRODUCTS** (not used)

**PART 3 EXECUTION** (not used)

**END OF SECTION 02 82 13.01**

---

**SECTION 02 82 13.02 – WORKER PROTECTION – ASBESTOS ABATEMENT**

**PART 1 GENERAL**

1.1 SCOPE OF WORK:

This Section describes the equipment and procedures required for protecting workers against asbestos contamination and other workplace hazards except for respiratory protection. Worker protection must be coordinated with the daily site safety audit.

1.2 RELATED SECTIONS:

Diagrams and general provisions of contract, including general and supplementary conditions and other project specification Sections, apply to work of this Section.

1.3 WORKER TRAINING:

- A. State and Local License: All workers are to be trained and accredited as required by Ohio Revised Code Chapter 3710 and Ohio Administrative Code Chapter 3745-22.
- B. In accordance with the OSHA Asbestos Construction Standard, 29 CFR Part 1926.1101, train all workers regarding the dangers inherent in handling asbestos and breathing asbestos dust and in proper work procedures and personal and area protective measures.

1.4 MEDICAL EXAMINATIONS:

Provide medical examinations for all workers (prior to the start of work) who may encounter an airborne fiber level of 0.1 f/cc or greater for an eight-hour Time Weighted Average. In the absence of specific airborne fiber data provide medical examinations for all workers who will enter the Work Area for any reason. The examination shall, at a minimum, meet OSHA requirements as set forth in 29 CFR Part 1926.1101. In addition, provide an evaluation of the individual's ability to work in environments capable of producing heat stress in a worker.

**PART 2 PRODUCTS**

2.1 PROTECTIVE CLOTHING:

- A. Coveralls: Provide cloth full-body disposable coveralls and hats, require that they be worn by all workers in the Work Area. Require that workers change out of coverall in the Equipment Room of the Personnel Decontamination Unit. Dispose of coverall as asbestos waste at completion of all work.
- B. Boots: Provide work boots with non-skid soles, and where required by OSHA, foot protection for all workers. Provide boots at no cost to workers. Do not allow boots to be removed from the Work Area unless decontaminated to the satisfaction of the Owner or the Project Monitor.
- C. Hard Hats: Provide head protection (hard hats) as required by OSHA for all workers and provide two spares for use Owner and/or Owner's Representative. Require hard hats to be worn at all times that work is in progress that may potentially cause head injury. Provide hard hats of type with plastic strap type suspension. Require hats to remain in the Work Area throughout the work. Thoroughly clean, decontaminate and bag hats before removing them from Work Area at the end of the work.

- D. Gloves: Provide work gloves to all workers and require that they be worn at all times in the Work Area. Do not remove gloves from Work Area and dispose of as asbestos-contaminated waste at the end of the work.

2.2 ADDITIONAL PROTECTIVE EQUIPMENT:

- A. Disposable coveralls, head covers, footwear covers, and, if necessary, respirators shall be provided by the Contractor for the Owner's Representative and other authorized representatives who may inspect the project site. Provide two powered air-purifying respirators (PAPRs), six complete coveralls, and two PAPR respirator filter changes per day per person visiting the project site.
- B. Provide worker protection as required by the most stringent OSHA and/or USEPA standards applicable to the work. The following procedures are minimums to be adhered to regardless of fiber count in the Work Area.

**PART 3 EXECUTION**

3.1 WORK AREA ENTRY:

The Contractor shall ensure all personnel, including supervisors, follow the procedure outlined below for entry into a regulated asbestos removal area:

- A. Each time Work Area is entered remove all street clothes in the Changing Room of the Personnel Decontamination Unit and put on new disposable coverall, new head cover, and a clean respirator.
- B. Proceed through shower room to equipment room and put on work boots.

3.2 DECONTAMINATION PROCEDURES:

The Contractor shall require all personnel, including supervisors, to adhere to the following personal decontamination procedures whenever they leave the Work Area:

Procedures for Powered Air-Purifying Respirators (PAPR):

- A. When exiting area, remove disposable coveralls, disposable head covers, and disposable footwear covers or boots in the equipment room.
- B. Still wearing respirators, proceed to showers. Showering is mandatory. Care must be taken to follow reasonable procedures in removing the respirator to avoid asbestos fibers while showering. The following procedure is required as a minimum:
1. Thoroughly wet body including hair and face. Hold PAPR blower unit above head to keep filter canisters dry.
  2. With respirator still in place thoroughly wash body, hair, respirator face piece, and all parts of the respirator except the blower unit and battery pack on a PAPR. Pay particular attention to seal between face and respirator and under straps.
  3. Take a deep breath, hold it and/or exhale slowly, completely wet hair, face, and respirator. While still holding breath, remove respirator and hold it away from face before starting to breathe.
  4. Carefully wash face piece of respirator inside and out.
  5. Shut down PAPR in the following sequence:



- a) Cap inlets to filter cartridges, then turn off blower unit (this sequence will help keep debris which has collected on the inlet side of filter from dislodging and contaminating the outside of the unit).
  - b) Thoroughly wash blower unit and hoses.
  - c) Carefully wash battery pack with wet rag. Be extremely cautious of getting water in battery pack as this will short out and the destroy battery.
6. Shower completely with soap and water, including hair.
  7. Rinse thoroughly.
  8. Rinse shower room walls and floor prior to exit.
  9. Proceed from shower to Changing Room and change into street clothes or into new disposable work items.

Procedures for Air Purifying-Negative Pressure Respirators (half or full face cartridge type respirator):

- A. When exiting area, remove disposable coveralls, disposable head covers, and disposable footwear covers or boots in the equipment room.
- B. Still wearing respirators, proceed to showers. Showering is mandatory except for areas where asbestos-containing materials are removed substantially intact. Care must be taken to follow reasonable procedures in removing the respirator to avoid asbestos fibers while showering. The following procedure is required as a minimum:
  1. Thoroughly wet body from neck down.
  2. Wet hair as thoroughly as possible without wetting the respirator filter if using an air purifying type respirator.
  3. Take a deep breath, hold it and/or exhale slowly, complete wetting of hair, thoroughly wetting face, respirator and filter (air purifying respirator). While still holding breath, remove respirator and hold it away from face before starting to breathe.
  4. Dispose of wet filters from air purifying respirator in ACM waste bag.
  5. Carefully wash face piece of respirator, inside and out.
  6. Shower completely with soap and water, including hair.
  7. Rinse thoroughly.
  8. Rinse shower room walls and floor prior to exit.
  9. Proceed from shower to Changing Room and change into street clothes or into new disposable work items.

3.3 WORK AREA RESTRICTIONS:

- A. The Contractor shall ensure all personnel who enter asbestos removal or lead/cadmium paint Work Areas do NOT eat, drink, smoke, chew tobacco or gum, or apply cosmetics in the Work Area. Personnel with repeated infractions will be removed from the project Work Area and prohibited from returning to the project site.
- B. The Contractor shall instruct all personnel who enter asbestos Work Areas to completely utilize the disposable coveralls, including wearing the hood.

- C. In all Work Areas where disposable coveralls are employed for personal protection, the Contractor shall prohibit personnel from altering the disposable coveralls (cutting off sleeves, hoods, etc.) and shall ensure any person whose disposable coveralls become ripped or torn while in the Work Area proceeds immediately to the Decontamination Unit or area to don a new pair of coveralls.
- D. In all Work Areas where respirators are employed for personal protection, the Contractor shall prohibit personnel who enter the Work Area from removing respiratory protection while inside the Work Area. Personnel with repeated infractions will be removed from the Work Area and prohibited from returning to the project site.
- E. The Contractor shall prohibit personnel who enter the Work Area in leather work boots from removing the leather work boots from the Work Area. Upon completion of the project, the leather work boots shall be placed in an appropriately labeled waste bag and disposed as ACM waste, or in the case of lead/cadmium paint work areas as lead waste, respectively.

**END OF SECTION 02 82 13.02**

---

**ATTACHMENT TO SECTION 02 82 13.02 - WORKER PROTECTION**  
**CERTIFICATE OF WORKER'S ACKNOWLEDGEMENT**

Project Name Asbestos Removal and Demolition – Multiple Sites

Project Address \_\_\_\_\_

Contractor's Name \_\_\_\_\_

WORKING WITH ASBESTOS CAN BE DANGEROUS. INHALING ASBESTOS FIBERS HAS BEEN LINKED WITH VARIOUS TYPES OF CANCER. IF YOU SMOKE AND INHALE ASBESTOS FIBERS THE CHANCE THAT YOU WILL DEVELOP LUNG CANCER IS GREATER THAN THAT OF THE NON-SMOKING PUBLIC.

Your employer's contract with the Owner for the above project requires that: You are supplied with the proper respirator and are trained in its use. You are also trained in safe work practices and in the use of the equipment found on the job. You have received a medical examination. These things are to have been performed and supplied at no cost to you. By signing this certification you are assuring the Owner that your employer has met these obligations to you.

RESPIRATORY PROTECTION: I have been trained in the proper use of respirators and informed of the type respirator to be used on the above referenced project. I have a copy of the written respiratory protection manual issued by my employer. I have been equipped, at no cost, with the respirator to be used on the above project.

TRAINING COURSE: I have been trained in the dangers inherent in handling asbestos and breathing asbestos dust and in proper work procedures and personal and area protective measures. The topics covered in the course included the following:

- Physical characteristics of asbestos and health hazards associated with asbestos
- Respiratory protection and use of other protective equipment
- Negative air systems
- Work practices including hands on or on-job training
- Personal decontamination procedures
- Air monitoring, personal and area
- Physical Characteristics of any other hazardous materials
- Health hazards associated with any other hazardous materials
- Protective equipment for any other hazardous materials

---

MEDICAL EXAMINATION: I have had a medical examination within the past 12 months that was paid for by my employer. This examination included: health history, pulmonary function tests and may have included an evaluation of a chest x-ray.

Signature \_\_\_\_\_

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

Social Security Number \_\_\_\_\_

Witness \_\_\_\_\_

Date \_\_\_\_\_

---

**SECTION 02 82 13.03 – RESPIRATORY PROTECTION – ASBESTOS ABATEMENT**

**PART 1 GENERAL**

1.1 SCOPE OF WORK:

- A. Instruct and train each worker involved in asbestos abatement, maintenance and repair of friable asbestos-containing materials, or demolition of surfaces coated with lead bearing paints in proper respiratory use and require that each worker always wear a respirator, properly fitted on the face in the Work Area from the start of any operation which may cause airborne asbestos fibers in excess of the action level, until the Work Area is completely decontaminated.
- B. Use respiratory protection appropriate for the fiber concentration encountered in the workplace or as required for other toxic or oxygen-deficient situations that may be encountered.

1.2 RELATED SECTIONS:

Diagrams and general provisions of contract, including general and supplementary conditions and other project specifications Sections, apply to work of this Section.

1.3 STANDARDS:

Except to the extent that more stringent requirements are written directly into the Contract Documents, the following regulations and standards have the same force and effect (and are made a part of the Contract Documents by reference) as if copied directly into the Contract Documents, or as if published copies were bound herewith. Where there is a conflict in requirements set forth in these regulations and standards, meet the more stringent requirement.

- A. OSHA - U.S. Department of Labor Occupational Safety and Health Administration, Safety and Health Standards 29 CFR Part 1926.1101 and 29 CFR Part 1910.134.
- B. ANSI - American National Standard Practices for Respiratory Protection, ANSI Z88.2-1980.
- C. NIOSH - National Institute for Occupational Safety and Health
- D. MSHA - Mine Safety and Health Administration

1.4. SUBMITTALS:

Before the start of work, submit information and begin no work until these submittals are returned with Owner's action stamp indicating that the submittal is returned for unrestricted use or final, but restricted use. Submit information on the following to the Owner for review:

- A. Product Data: Submit manufacturer's product information for each component used, including NIOSH and MSHA Certifications for each component in an assembly and/or entire assembly.
- B. System Diagram: When a Type "C" supplied air, respiratory system is required by the work, submit a drawing showing assembly of components into a complete supplied air respiratory system. Include diagram showing location of compressor, filter banks, backup air supply

tanks, hose line connections in Work Area(s), and routing of air lines to Work Area(s) from compressor.

- C. Operating Instruction: Submit complete operating and maintenance instructions for all components and systems as a whole. Submittal is to be in bound manual form suitable for field use.
- D. Respiratory Protection Program: Submit Contractor's written respiratory protection program manual as required by the OSHA Respiratory Protection Standard (29 CFR 1910.134).
- E. Historic Air Monitoring Data/Negative Exposure Assessment: Submit airborne asbestos fiber concentration data and/or lead or cadmium exposure monitoring data from an independent air monitoring firm to substantiate selection of respiratory protection proposed. Data submitted shall include at least the following and have originated no more than six months prior to the start of work involving use of respiratory protection:
  - 1. Date of measurements
  - 2. Operation monitored
  - 3. Analytical description of ACMs abated
  - 4. Sampling and analytical methods used and evidence of their accuracy
  - 5. Number, duration, and results of samples collected
- F. Resume information: Submit resume and information on training for individual monitoring the operation of supplied air respiratory systems. Submit training certifications where applicable.
- G. Air quality for supplied air systems: Provide air used for breathing in Type "C" supplied air respiratory systems that meets or exceeds standards set for C.G.A. type 1 (Gaseous Air) Grade H or CSA Z180.1 whichever presents the more stringent quality standard.
- H. Delivery: Deliver replacement parts, etc., not otherwise labeled by NIOSH or MSHA to the Project Site in the manufacturer's containers.

## PART 2 EQUIPMENT

### 2.1 AIR PURIFYING RESPIRATORS:

- A. Respirator Bodies: Provide at a minimum, 1/2 face negative pressure respirators.
- B. Filter Cartridges: Provide, at a minimum, P100 (HEPA) type filters labeled with NIOSH and MSHA Certification for "Radionuclides, Radon Daughters, Dust, Fumes, Mists including Asbestos-Containing Dusts and Mists" and color coded in accordance with ANSI Z228.2 (1980). In addition, a chemical cartridge may be added, if required, for solvents, etc., in use. In this case, provide cartridges that have each section of the combination canister labeled with the appropriate color code and NIOSH/MSHA Certification.
- C. Supplied air respirator systems: Provide equipment capable of producing air of the quality and volume required by the above reference standards applied to the site conditions and crew size. Comply with provisions of this specification if more stringent than the governing standard.

**PART 3 EXECUTION**

3.1 GENERAL:

- A. Respiratory Protection Program: Must comply with ANSI Z88.2 - 1980 "Practices for Respiratory Protection" and the OSHA Respiratory Protection Standard (29 CFR 1910.134).
- B. Require that respiratory protection be used at all times that there is any possibility of disturbance of asbestos-containing materials whether intentional or accidental.
- C. Require that a respirator be worn by anyone in a Work Area at all times, regardless of activity, during a period that starts with any operation which could cause airborne asbestos fibers or airborne lead or cadmium in excess of the action levels until the area has been cleared for re-occupancy. **Prohibit all personnel who enter the Work Areas where respiratory protection is required from removing respiratory protection within the Work Area. Personnel with repeated infractions shall be removed from the Project Site and prohibited from returning.**
- D. Do not allow the use of single-use, disposable, or quarter-face respirators during asbestos abatement for any purpose.

3.2 FIT TESTING:

- A. Initial Fitting: Provide initial fitting of respiratory protection during a respiratory protection course. Fit types of respirator to be actually worn by each individual. Allow an individual to use only those respirators for which training and fit testing has been provided.
- B. Upon Each Wearing: Require that each time an air-purifying respirator is put on it be checked for fit with a positive and negative pressure seal check fit test in accordance with the manufacturer's instructions or ANSI Z88.2 (1980) and 29 CFR 1910.134.

3.3. PERMISSIBLE EXPOSURE LIMITS (PEL):

8-Hour Time Weighted Average (TWA) of asbestos fibers to which any worker may be exposed shall not exceed the following:

- A. Time Weighted Average (TWA) - 0.1 fibers/cubic centimeter
- B. Excursion Level (EL) of 1.0 fibers/cubic centimeter over a 30 minutes sampling period performed by the Contractor's Consultant at the commencement of every work period.

3.4 TYPE OF RESPIRATORY PROTECTION REQUIRED:

Provide Respiratory Protection for asbestos work in accordance with the requirements of the OSHA Asbestos Construction Standard, 29 CFR 1926.1101, paragraph (h).

3.5 AIR PURIFYING RESPIRATORS:

The Contractor's employees shall wear at minimum the following respiratory protection while setting up for ceiling panel removal during the project:

- A. Negative pressure air purifying - half face mask: Supply a sufficient quantity of P100 respirator filters approved for asbestos so that workers can change filters at any time that flow through the face piece decreases to the level that is uncomfortable to the worker.

Require that regardless of flow, filter cartridges be replaced after 24 hours of use. Require that high efficiency elements in filter cartridges be protected from wetting during showering. Require entire exterior housing of respirator be washed each time a worker leaves the Work Area.

- B. If chemical agents are used for any purpose, provide appropriate chemical filtration cartridges for the chemical used. Consult SDS sheet for the chemical to determine appropriate filtration cartridges.

**END OF SECTION 02 82 13.03**



---

**SECTION 02 82 13.04 – DEMOLITION INVOLVING ASBESTOS-CONTAINING MATERIALS**

**PART 1 GENERAL**

1.1 SCOPE OF WORK:

- A. Work item numbers included in the Bid Proposal for building demolition involving asbestos-containing materials (ACMs).

This Section includes building demolition, including requirements for building demolition in which friable and/or nonfriable ACM will remain in the building located at 516 Fairground Street in Caldwell, Ohio.

The Contractor shall remove the regulated asbestos-containing materials (RACMs) from the building as specified in Section 02 82 13, Asbestos Abatement prior to commencement of building demolition. Nonfriable asbestos-containing that are not likely to be rendered friable during demolition are permitted to remain in the building during demolition unless otherwise specified by the Owner's Representative. Demolition activities shall be conducted in accordance with the Occupational Safety and Health Administration (OSHA) Asbestos Construction Standard (29 CFR Part 1926.1101).

Summaries of the RACMs and nonfriable ACMs identified in the buildings are presented in Appendix F in the *Pre-Demolition Asbestos Assessment Report – Multiple Sites, Noble County, Ohio*, dated March 15, 2023, prepared by SME. A copy of the report is included as Attachment A.

The Contractor shall carefully review available asbestos survey information for each of the above listed buildings associated with the project scope of work and coordinate with the Owner's Representative for asbestos removal, proper notification documentation and submittals, and/or additional assessment, as required to facilitate building demolition per local, state, and federal asbestos requirements.

All staff engaged in asbestos work activities (including demolition and waste handling) shall be trained in accordance with applicable United States Environmental Protection Agency (USEPA) asbestos training requirements and appropriately licensed and accredited by the State of Ohio.

The Contractor shall complete the work within the specified time limits of the contract. All time limits stated in the project specifications and contract documents are of the essence of the contract. Should the Contractor fail to complete all of the work by the completion dates stipulated, the Owner shall have the right to suspend all future payments and/or invoke liquidated damages as specified in the project specifications and contract documents.

1.2 RELATED SECTIONS:

Diagrams and general provisions of contract, contract documents, and other project specification Sections, apply to this Section.

1.3 REFERENCE STANDARDS:

Except to the extent that more stringent requirements are written directly into the project specifications and contract documents, the following regulations and standards have the same

force and effect (and are made a part of the contract documents by reference) as if copied directly into the contract documents, or as if published copies were bound herewith. Where there is a conflict in requirements set forth in these regulations and standards, meet the more stringent requirement.

- A. CFR 29 Part 1926/1910 Construction Industry Occupational Safety and Health Standards.
- B. CFR 40 Part 61 National Emissions Standards for Hazardous Air Pollutants.
- C. CFR 40 Part 260 General Regulations for Hazardous Waste Management.
- D. CFR 40 Part 263 Standards Applicable to Transporters of Hazardous Waste.
- E. CFR 40 Part 763 Asbestos.
- F. CFR 49 CFR 171 Department of Transportation Regulations to Stipulate Requirements for Containers and Procedure for Shipment of Hazardous Waste.
- G. Chapter 3701-34 of the Ohio Administrative Code.
- H. Chapter 3710 of the Ohio Administrative Code.
- I. Chapter 3745-20 of the Ohio Administrative Code.
- J. ANSI – American National Standard Practices for Respiratory Protection ANSI Z88.2-1980.
- K. NIOSH – National Institute for Occupational Safety and Health.
- L. MSHA – Mine Safety and Health Administration.

1.4 SUBMITTALS:

A. Work Plan

Prior to proceeding with the asbestos demolition activities, the Contractor shall submit a Work Plan which includes the means, methods and procedures proposed for the accomplishment of the asbestos demolition work. The means, methods and procedures shall provide for safe conduct of the work; careful removal and disposition of buildings and structures, and solid materials and wastes; and protection of property that is to remain undisturbed. The procedures shall provide a detailed description of the methods and equipment to be used to comply with asbestos regulations for each operation, and the sequence of operations. The name and location of disposal facilities for all removed materials shall be submitted in the Work Plan. The Work Plan shall be based on work experience and the guidance provided in this specification. The cost of Work Plan preparation is incidental to the project and shall be included in the Base Bid for the project.

B. Inspection Reports

The Contractor shall provide a copy of the records of inspections and tests, as well as records of any corrective action taken to address any problems encountered.

C. Disposal Documents

The Contractor shall provide copies of all licenses, certifications, permits, agreements, manifests, waste shipment records, weigh tickets, meter recordings, delivery tickets, and receipts required or issued for the disposal of materials, the methods used, and the disposal areas and facilities. The Contractor shall also provide a copy of the results of characterization testing performed to comply with the requirements of each disposal facility.

D. Manifests

The Contractor shall submit a copy of the official manifest for each shipment of removed materials including, but not limited to, building and structure debris, concrete and brick debris, asbestos demolition waste, and miscellaneous site debris and solid wastes evidencing delivery of the material to an approved licensed disposal facility. All manifests shall be in accordance with the requirements of all the applicable federal, state and local regulations. The Contractor's superintendent shall coordinate with the Owner and the Owner's Representative to provide documentation of waste materials transported from the site each day.

1.5 PROJECT/SITE CONDITIONS:

The Contractor shall carefully coordinate the work in this Section with all other work. The work shall be in compliance with OSHA regulations and other applicable safety requirements.

A. Electrical Disconnection

The Contractor shall verify that on site electrical wiring to be demolished or in close enough proximity to be damaged by the demolition operations shall be disconnected, de-energized, and/or relocated prior to proceeding with demolition operations. The Contractor shall verify that operational electrical equipment is not present in all structures to be demolished. Any such equipment shall be disconnected and/or de-energized prior to proceeding with demolition operations. The Contractor shall coordinate with the local electrical utility company for any necessary relocation of utilities and include any associated fees or expenses in the Base Bid for the project.

B. Water Disconnection

The Contractor shall verify water lines on site or in close enough proximity to be damaged by the demolition operations are disconnected or capped at the main, or closed at the gate valve, as directed by the Owner or Owner's Representative, prior to proceeding with demolition operations.

C. Sewer Disconnection

The Contractor shall locate all sanitary sewer connections and floor drains at the site. Sewer connections shall be removed during excavation and capped at the site boundary.

The sewer pipes adjacent to the site must be preserved and protected during demolition and excavation. Adjacent storm water catch basins must also be preserved and protected during demolition to allow for continued adequate storm water drainage after the conclusion of this project. Any costs for repair/replacement of sewer pipes or catch basins damaged by the demolition or excavation activities shall be the sole responsibility of the Contractor. No additional compensation will be provided for repair/replacement of sewer pipes or catch basins. The Contractor shall also ensure that water, during abatement and demolition, not enter onsite or adjacent sewer systems. All costs associated with abatement/demolition water usage will also be the responsibility of the Contractor and included in the Base Bid for the project.

D. Gas Disconnection

The Contractor shall verify that on site combustible gas pipes/mains entering all structures included in the scope of work or in close enough proximity to be damaged as a result of the demolition operations shall be disconnected and/or capped prior to proceeding with demolition operations. The Contractor shall coordinate with the local natural gas utility company for any necessary relocation of utilities and be responsible for any associated fees or expenses, which are to be included in the Base Bid for the project.

E. Telephone and Cable Disconnection

The Contractor shall verify that on site telephone or electronic data lines/conduits entering all structures or in close enough proximity to be damaged as a result of the demolition/excavation operations shall be disconnected and/or relocated prior to proceeding with demolition operations. The Contractor shall coordinate with the local telephone and cable companies for any necessary relocation of utilities and be responsible for any associated fees or expenses.

1.6 GENERAL REQUIREMENTS:

A. Demolition

The work includes demolition of the site buildings and removal of slabs and foundations, resulting rubbish and debris associated with demolition activities at the site, backfilling of resulting void spaces, and site restoration. Rubbish and debris shall be removed from the site daily, unless otherwise directed, to avoid accumulation at the site. Materials that cannot be removed daily shall be stored in areas as specified by the Owner or Owner's Representative. In the interest of safety, the work shall be performed with regard to the protection of personnel and property.

The Contractor shall remove the asbestos-containing materials (ACMs) from the building as specified in Section 02 82 13, Asbestos Abatement prior to commencement of building demolition. Nonfriable asbestos-containing that are not likely to be rendered friable during demolition will remain in the building unless otherwise specified by the Owner's Representative. Demolition activities shall be conducted in accordance with the Occupational Safety and Health Administration (OSHA) Asbestos Construction Standard (29 CFR Part 1926.1101).

The Contractor shall complete the work within the specified time limits of the contract. All time limits stated in the project specifications and contract documents are of the essence of the contract. Should the Contractor fail to complete all of the work by the completion dates stipulated, the Owner shall have the right to suspend all future payments and/or invoke liquidated damages as specified in the project specifications and contract documents.

B. Dust Control and Air Monitoring

The Contractor shall take all necessary means and procedures to measure and control dust generated by the demolition operations as specified in the Section and other applicable Sections of the Project Specifications. The Contractor shall prevent, to the maximum extent practical, airborne dust from impacting the surrounding properties as a result of the demolition operations. At no time shall the concentration of aerosol dust resulting from the Contractor's activities exceed ten (10) parts per million for longer than 10 minutes during the site activities and dust levels shall not exceed 20% opacity over a 10 minute average, as measured by real-time aerosol particle monitoring (such as a TSI DustTrak or comparable equivalent). The responsibility and costs for the dust monitoring shall be borne solely by the Contractor. The costs for dust monitoring are incidental to the contract and shall be included in the Base Bid for the project.

C. Protection of Personnel

During the demolition work, the Contractor shall continuously evaluate the conditions of the items being demolished and take immediate action to protect all personnel working on and around the site. No area, section, or component of floors, walls, or other structural elements will be allowed to be left standing without sufficient bracing, shoring, or lateral supporting to prevent collapse or failure while personnel perform other work in the immediate area. The Contractor shall ensure that no elements determined to be unstable are left unsupported and shall be responsible for placing and securing bracing, shoring, or

lateral supports as may be required as a result of any cutting, removal, or demolition work performed under this contract.

The Contractor shall utilize wet methods, demarcate the demolition site as an asbestos work area, and comply with other applicable provisions of the OSHA Asbestos Construction Standard during the performance of demolition activities.

Contractor shall provide interim personal protective equipment (PPE) and perform employee exposure air monitoring during demolition as specified in Section 02 8213.02, Worker Protection-Asbestos Abatement and Section 02 8213.03, Respiratory Protection-Asbestos Abatement. The costs associated with providing demolition personnel with appropriate asbestos PPE and conducting exposure air monitoring are incidental to the project and shall be included in the Base Bid for the project.

D. Protection of Existing Work

The Contractor shall carefully assess the existing conditions and examine the drawings and specifications to determine the extent of work.

E. Ownership

The Contractor shall have rights of salvage and claim to any items or components of items to be demolished as well as debris generated by the demolition. The Contractor shall be responsible for the removal and disposal of materials and debris in a fashion that complies with all local, State and Federal codes and regulations. Ownership of items and materials to be removed by the Contractor does not transfer to the Contractor until such items and materials are physically removed from the site.

F. Sequencing and Scheduling

Contractor shall perform work in such a way so that any asbestos or contaminated materials discovered on site, or as designated by the Owner, shall be removed or cleaned-up prior to demolition or debris removal to protect the safety and health of all personnel.

G. Burning and Explosive

**Burning waste and debris materials are prohibited. Use of explosives for controlled demolition is not permitted.**

1.7 PERMITS:

The permits described here cover the general description of the permits called for demolition. The permits described below are not necessarily all of the permits required for completion of this project. The costs associated with obtaining the necessary permits required to complete the demolition activities are incidental to the project and shall be included in the Base Bid for demolition.

A. Demolition Permit

The Contractor shall be responsible for obtaining a Demolition permit from the municipality having jurisdiction over the site building. The Contractor shall contact the respective municipality at least 72 hours prior to construction or disconnection of utilities for all work onsite or within alleys, easements and public rights-of-way. In addition, if necessary, the Contractor shall obtain a permit from the Ohio Department of Transportation (ODOT), Noble County, and/or the applicable municipality to perform work in adjacent rights-of way, as required. The Contractor is responsible for all permits and associated permit costs are incidental to the contract and to be included in the Base Bid for the project.

B. *Notification of Demolition and Renovation/Abatement* form required by USEPA National Emission Standards for Hazardous Air Pollutants (NESHAP, 40 CFR 61 M).

The Contractor shall be responsible for filing a *Notification of Demolition and Renovation/Abatement* form required by the United States Environmental Protection Agency (USEPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations and payment of any fees associated with submitting the form to the Ohio Environmental Protection Agency (OEPA). The notification shall be completed in its entirety, including a description of the abatement and demolition tasks to be conducted, and the quantities of asbestos-containing materials (ACMs) to be removed. The *Notification of Demolition and Renovation/Abatement* form must submit to the OEPA at least 10 working days (14 calendar days) prior to demolition, regardless of whether or not ACMs are present in the building.

1.8 DUST CONTROL:

- A. The Contractor shall employ all necessary engineering controls and misting operations to ensure that the demolition debris remains adequately wetted at all times during the building demolition to prevent emission of dust and migration of airborne materials off site and impacting surrounding properties.
- B. The Contractor shall prevent, to the maximum extent practical, airborne dust from impacting the surrounding properties as a result of the demolition operations. At no time shall the concentration of aerosol dust resulting from the Contractor's activities exceed 0.01 fibers per cubic centimeter (f/cc), as measured by the Contractor or the Owner's Consultant via ambient air sampling and analyses by phase contrast microscopy (PCM) if requested by the Owner. If at any time during demolition activities, total fiber concentrations exceed 0.01 f/cc, the Contractor shall utilize additional dust suppression methodology until fiber analyzed fiber concentrations are shown to be below acceptable limits. The responsibility and costs for dust control shall be borne solely by the Contractor.
- C. The Contractor shall employ heavy-duty abrasion-resistant hoses with a pressure rating greater than the maximum pressure of the water distribution system to provide water for demolition dust suppression.
- D. If the Contractor desires to temporarily stockpile any demolition debris or pulverized concrete materials that may generate dust at the site, the stockpiles shall be placed at locations approved by the Owner and appropriately secured to prevent unauthorized access to the debris. Asbestos containing demolition debris shall be placed in a water-tight container, covered with polyethylene sheeting at least 10 mils thickness, and the material kept adequately wetted until the earliest feasible removal from the site and disposed at a landfill licensed to accept the waste.

1.9 DEMOLITION AND REMOVAL:

A. Buildings and Structures

The Contractor shall conduct demolition activities as specified in this Section, and all other applicable Sections of the project specifications.

B. Utilities

The Contractor shall submit a utility locating request to the Ohio Utilities Protection Service (OUPS) to demarcate underground utility locations 72 hours prior to the initiation of the project work. The Contractor shall identify any active utilities on and adjacent to the site. The Contractor shall be responsible for the deactivation of powered utilities as necessary for the safe conduct of work and protection of workers and the public.

The Contractor shall protect and preserve all utilities adjacent to the site prior to proceeding with demolition operations and during commencement of demolition and excavation. The

Contractor shall cut and cap subsurface utilities at the site boundaries. The Contractor shall, at his expense, be responsible for coordinating with the Owner's Representative, respective municipalities, and utility service providers to ensure that water, electrical, gas and other utilities are disconnected prior to demolition.

C. Hazardous Contaminated Materials

The removal and disposal of hazardous contaminated materials exposed as a result of the demolition activities shall be handled as detailed in the contract documents and applicable Sections of the project specifications. Other potentially hazardous or contaminated materials not specified which are exposed during the demolition and removal shall immediately be brought to the attention of the Owner, or the Owner's Representative on site, and documented in writing within 24 hours of discovery.

All demolition and removal work shall be performed in compliance with 29 CFR 1926.1101, OSHA Asbestos Standard for Construction; 29 CFR 1926.62, OSHA Lead Exposure in Construction Standard; 29 CFR Part 1926.1127, OSHA Cadmium Construction Standard; and other applicable local, state, and federal regulations and requirements.

Care must be taken to prevent the mixture of non-hazardous debris and waste materials with regulated hazardous materials. Non-hazardous materials must also be prevented from coming in contact with materials identified as being hazardous, so as to prevent increasing the volume of hazardous materials (by contact).

D. Asbestos Containing Materials (ACMs)

The Contractor shall remove and dispose of asbestos materials, in conformance with the requirements of Section 02 8213, Asbestos Abatement, and as applicable to the project specification, prior to beginning demolition work.

1. The Contractor shall demarcate the overall demolition area as a Regulated Area using asbestos warning barrier tape and signs with minimum perimeter of 25 feet from the building. Post warning signs that carry the following legend:

**DANGER**  
**ASBESTOS**  
**MAY CAUSE CANCER**  
**CAUSES DAMAGE TO LUNGS**  
**AUTHORIZED PERSONNEL ONLY**



In addition, where the use of respirators and protective clothing is required by the standard, the warning signs shall include:

**WEAR RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING IN THIS AREA**

2. The Contractor shall control access to the Regulated Areas. Allow only authorized personnel to enter the Regulated Areas and only when properly protected. All unauthorized individuals entering the Regulated Areas shall be immediately reported to Owner and the Owner's Representative.

3. The Contractor shall conduct all demolition activities utilizing wet methods and prevent visible dust emissions during demolition activities.
4. For Class I or Class II asbestos demolition activities, the Contractor shall establish a decontamination area adjacent to the Regulated Area for decontamination of employees and equipment. The decontamination area shall consist of an impermeable polyethylene drop cloth placed horizontally on the floor or ground surface adjacent to the Regulated Area. The decontamination area shall be equipped with a HEPA-filtered vacuum and labeled disposal bags. Dispose of coveralls as asbestos waste once removed.
5. Unless a Negative Exposure Assessment (NEA) is produced, the Contractor shall provide the employees who are authorized to enter the Regulated Areas with work clothing consisting of disposable full body coveralls, head covers, boots, and other safety gear as needed, including hard hats and eye protection
6. Each time a Regulated Area is entered or until an NEA is produced, the Contractor shall ensure all personnel, including supervisors, don a new disposable coverall, new head cover, work boots, and a clean respirator.
7. The Contractor shall ensure all personnel who enter a Regulated Area do NOT eat, drink, smoke, chew tobacco or gum, or apply cosmetics in the Regulated Area, until a NEA has been produced in accordance with 29 CFR 1926.1101.
8. The Contractor shall instruct all personnel who enter a Regulated Area to completely utilize the disposable coveralls, including wearing the hood, until a NEA has been produced in accordance with 29 CFR 1926.1101.
9. The Contractor shall prohibit personnel from altering the disposable coveralls (cutting off sleeves, hoods, etc.) and shall ensure any person whose disposable coveralls become ripped or torn while in a Regulated Area proceeds immediately to the decontamination area to don a new pair of coveralls unless an NEA has been produced
10. The Contractor shall designate a Competent Person to conduct personal exposure sampling as outlined above in Subpart 1.4 of this Section and otherwise supervise the asbestos demolition activities.

1.10 RECYCLING:

The Contractor shall maximize recycling of non-contaminated material found or demolished on site in order to reduce costs, shorten project duration, and demonstrate sustainable demolition practices. Although the materials are not limited, it is recommended that only steel and concrete be recycled. Concrete to be permitted to be stockpiled on site at the discretion of the Owner's Representative, at a location approved by the Owner, and eventually removed. Steel separated from demolition rubble may be recycled and becomes the property of the Contractor. The Contractor will not be permitted to conduct on-site abatement of lead-bearing or cadmium-bearing paint found on steel, except with the Owner's permission and unless appropriate procedures and federal, state and local codes or regulations are followed. Materials stockpiled for recycling shall be removed within 10 days of completion of demolition activities, and prior to restoration of the site.

1.11 CONSTRUCTION WATER:

Water use for demolition operations to control the emission of airborne dust shall be in accordance with all Federal, State and local codes and regulations. Water used for the removal of asbestos materials shall be collected and processed in accordance with specific Federal and



State requirements with respect to the asbestos abatement and as detailed in these specifications.

1.12 DISPOSAL:

The building and foundations required to be demolished and removed, as well as all miscellaneous inert debris, waste, and unsatisfactory materials resulting from this work, unless otherwise specified or directed by the Owner, shall be removed from the site. All disposals shall conform to Federal, State and local requirements. All removed materials shall be documented by manifests and disposal facility tickets with copies given to the Owner and the Owner's Representative within 48 hours after removal from the site.

1. The Contractor is responsible for disposal of all asbestos-containing waste materials pursuant to 40 CFR Part 61.150 Standard for waste disposal for manufacturing, fabricating, demolition, renovation, and spraying operations, Paragraph (a) (1), which states that after wetting, seal all asbestos-containing waste material in leak-tight containers while wet: or, for materials that will not fit into containers without additional breaking, put materials into leak-tight wrapping; and label the containers or wrapped materials specified in the standard using warning labels specified by OSHA under 29 CFR 1910.1101 (k)(7). The labels shall be printed in letters of sufficient size and contrast so as to be readily visible and legible.
2. For asbestos-containing waste material to be transported off the site, label containers or wrapped materials with the name of the waste generator and the locations at which the waste was generated pursuant to 40 CFR Part 61.150.
3. Waste Shipment Records required by USEPA NESHAP regulations for shipments of asbestos waste must be completed and returned to the Owner within 35 days of removal from the site.
4. If asbestos-containing waste materials will be stored on the site, the Contractor shall provide appropriate covered, leak-proof waste bins that can be locked for holding and disposal of asbestos-containing materials and shall arrange for prompt removal of asbestos-containing materials from the site. The Contractor shall line the waste bin with 6-mil thick polyethylene sheeting prior to depositing bagged asbestos waste. The waste bin shall be affixed with appropriate hazard warning signs prior to loading. The waste bins shall be staged at a location authorized by the Owner and the Owner's Representative. Do not store containerized materials outside of regulated areas. Take containers from the regulated areas directly to a sealed truck or waste bin. All asbestos waste shall remain adequately wetted at all times until disposal.
5. The demolition debris shall be handled in accordance with local, state, and federal regulations, and shall be disposed at a n Ohio landfill licensed to accept the waste.
6. Used coveralls, gloves, respirator filter cartridges, wet wipes, etc. used during the demolition must be properly disposed as asbestos-containing waste materials in appropriately labeled asbestos disposal bags or containers
7. Asbestos-containing waste is to be transported by a waste hauler with all required licenses from all state and local authority within the site jurisdiction. Do not transport bagged materials for disposal in open trucks. Label drums with same warning labels as bags. Advise the landfill operator or processor, in advance of transport, of the quantity of material to be delivered

1.13 RESTORATION:

- A. After removal of trailers, materials, and equipment from within the construction fenced area, the Contractor shall restore impacts to the site caused by the demolition and removal work.
- B. Upon completion of the project, the Contractor shall fill depressions created by removal of subsurface features and utilities with clean fill material approved by Owner and compact to the specifications outlined in contract documents and project specifications. The Contractor shall smoothly grade and restore the site for positive drainage and rake/level graded materials.

1.14 QUALITY CONTROL:

The Contractor shall establish and maintain a quality control system for contract requirements and maintain records of its quality control for all operations performed, including, but not limited to, the following:

- A. Electrical, gas and water disconnection verified.
- B. Dust Control.
- C. Soil Erosion and Sediment Control.
- D. Noise and vibration control.
- E. Demolition, removal and cleanup.
- F. Disposal.
- G. Observance of safety regulations.
- H. Observance of environmental regulations.

1.15 PROJECT CLOSEOUT:

Project Closeout is the term used to describe certain collective project requirements that indicate completion of the work and must be fulfilled near the end of the Contract time in preparation for final acceptance of the work by the Owner, as well as final payment to the Contractor and the normal termination of the contract:

Submit the following documents related to asbestos abatement and asbestos demolition activities to the Owner and the Owner's Representative for the Owner's records:

- A. Copies of all daily logs and safety inspection reports for abatement activities completed during the project.
- B. Copies of all sign-in rosters and visitors logs for abatement work areas.
- C. Copy of USEPA-NESHAP *Notification of Demolition and Renovation/Abatement* form submitted for abatement and demolition.
- D. Copies of all asbestos-related regulatory agency inspection documentation.
- E. Copies of all recycling receipts, bills of lading, and disposal manifests/receipts, including completed NESHAP waste shipment record for all asbestos-containing waste generated and transported from the site.
- F. Additions to scope of work and change order proposals.
- G. Contractor's asbestos/pollution liability insurance certificates (including guarantee period).

- H. Waivers of mechanics liens from every entity who may lawfully be entitled to file a mechanics lien arising out of the contract and related to asbestos work (abatement or demolition).
- I. Documentation that all taxes, fees, and similar obligations required to facilitate and complete the asbestos abatement and demolition project have been paid/satisfied.
- J. Copies of all closeout documents related to the asbestos removal activities including but not limited to: evidence of workers' training, accreditation, medical surveillance, and respirator fit testing; negative pressure monitoring logs (recorded manometer readings for NPE work areas); exposure monitoring data; completed worker acknowledgement forms for each worker conducting asbestos removal activities; and certificates of visual inspection for each asbestos removal area signed by the contractor's competent person/abatement superintendent.
- K. Trucking tickets and certification of clean source origin for all backfill and grading materials imported onto the site.
- L. Copies of Soil Erosion and Sediment Control documentation.

**PART 2 PRODUCTS** (not used)

**PART 3 EXECUTION** (not used)

**END OF SECTION 02 82 13.04**

**ATTACHMENT A**

**MARCH 15, 2023, PRE-DEMOLITION ASBESTOS ASSESSMENT REPORT -  
MULTIPLE SITES, NOBLE COUNTY, OHIO**



# PRE-DEMOLITION ASBESTOS ASSESSMENT REPORT

MULTIPLE SITES  
NOBLE COUNTY, OHIO

SME Project Number: 089229.00  
March 15, 2023

Funded by: Ohio Department of Development Building Demolition and Site Revitalization Program Grant  
DEV--2022 - 191148





4401 Lyman Drive, Suite C  
Hilliard, OH 43026

T (614) 705-2250

[www.sme-usa.com](http://www.sme-usa.com)

March 14, 2023

Noble County Board of Commissioners  
c/o Chasity Schmelzenbach  
Executive Director  
Buckeye Hills Regional Council  
1400 Pike Street  
Marietta, Ohio 45750

Via E-Mail: [cschmelzenbach@buckeyehills.org](mailto:cschmelzenbach@buckeyehills.org)

RE: Pre-Demolition Asbestos Assessment Report  
Multiple Sites  
Noble County, Ohio  
SME Project No.: 089229.00

Dear Ms. Schmelzenbach:

We have completed an asbestos assessment of six structures located in Noble County, Ohio. The Noble County Board of Commissioners requested the assessment prior to the planned demolition of the structures. The assessment was funded by the Ohio Department of Development's Building Demolition and Site Revitalization Program Grant. We completed our assessment services in accordance with our proposal for environmental consulting services (SME Proposal No. P00614.22), dated March 1, 2022.

We plan to contact you within the next week to discuss the findings of the assessment and provide answers to any questions you may have.

Sincerely,

**SME**

 Kelsea Pohl  
Mar 15 2023 1:33 PM

**PREPARED BY:**  
Kelsea M. Pohl, PE  
Project Engineer



**REVIEWED BY:**  
Jason C. Lafayette  
Senior Project Consultant

Enclosure: SME Pre-Demolition Asbestos Assessment Report Dated; March 14, 2023

# TABLE OF CONTENTS

<b>1. INTRODUCTION .....</b>	<b>1</b>
<b>2. ASBESTOS ASSESSMENT .....</b>	<b>2</b>
2.1 VISUAL ASSESSMENT AND SAMPLING PROCEDURES.....	2
2.2 FINDINGS AND CONCLUSIONS.....	2
2.3 REGULATORY INFORMATION REGARDING ASBESTOS NOTIFICATIONS AND WORK PRACTICES .....	2
2.3.1 ASBESTOS REMOVAL .....	2
2.3.2 MATERIALS CONTAINING TRACE ASBESTOS .....	4
<b>3. LIMITATIONS AND GENERAL COMMENTS .....</b>	<b>5</b>
<b>4. IDENTIFICATION OF REPORT AUTHOR .....</b>	<b>6</b>

## **APPENDIX A**

201 MAIN STREET, BELLE VALLEY, OHIO

## **APPENDIX B**

308 WEST CROSS STREET, SUMMERFIELD, OHIO

## **APPENDIX C**

114 NORTH MAIN STREET, SUMMERFIELD, OHIO

## **APPENDIX D**

812 WEST STREET, CALDWELL, OHIO

## **APPENDIX E**

919 ½ BELFORD STREET, CALDWELL, OHIO

## **APPENDIX F**

516 FAIRGROUND STREET, CALDWELL, OHIO

# 1. INTRODUCTION

We completed a pre-demolition asbestos assessment of six structures located in Noble County, Ohio. The assessment was requested by the Noble County Board of Commissioners to assist with the identification of asbestos-containing materials (ACMs) associated with the structures prior to planned demolition activities. The assessment was funded by the Ohio Department of Development's Building Demolition and Site Revitalization Program Grant. The scope of our assessment included the structures associated with the following addresses:

- 201 Main Street, Belle Valley, Ohio
- 308 West Cross Street, Summerfield, Ohio
- 114 North Main Street, Summerfield, Ohio
- 812 West Street, Caldwell, Ohio
- 919 ½ Belford Street, Caldwell, Ohio
- 516 Fairground Street, Caldwell, Ohio

Descriptions of each structure are presented in the respective report appendices (Appendix A through F).

This assessment will provide information to assist in complying with the United States Environmental Protection Agency (USEPA) requirements for inspection of residential and commercial buildings prior to renovation or demolition under the National Emission Standards for Hazardous Air Pollutants asbestos regulation (NESHAP, 40 CFR Part 61). The assessment also provides information to assist in complying with the Occupational Safety and Health Administration (OSHA) Asbestos Construction Standard (29 CFR Part 1926.1101), regarding communication of hazards.

SME staff members, Ms. Kelsea M. Pohl, PE (Certification No. ES36366), and Ms. Cayla Woods (Certification No. ES ES546627), trained in accordance with the USEPA regulations and accredited as Asbestos Hazard Evaluation Specialists by the Ohio Environmental Protection Agency (OEPA), under the requirements of Chapter 3701-34 of the Ohio Administrative Code, as amended, conducted the field activities.



## 2. ASBESTOS ASSESSMENT

### 2.1 VISUAL ASSESSMENT AND SAMPLING PROCEDURES

From January 23, 2023, to January 27, 2023, we conducted visual assessments of the project structures for the presence of suspect ACMs. We estimated the quantities of the suspect ACMs identified and assigned a unique homogeneous area number to each suspect ACM observed. A homogeneous area, as defined by the USEPA's Asbestos Hazard Emergency Response Act (AHERA, 40 CFR Part 763), is an area of thermal system insulation (TSI), surfacing material, or miscellaneous material that appears uniform in color and texture.

Following the visual assessment, we collected representative samples from the homogeneous areas of suspected ACMs in accordance with the AHERA assessment protocol (40 CFR Part 763), which is also referenced by the OSHA regulations. We submitted the suspect bulk samples to International Asbestos Testing Laboratories (IATL), a laboratory accredited by the National Institute of Standards and Technology (NIST) under the requirements of the National Voluntary Laboratory Accreditation Program (NVLAP), for asbestos analysis of the bulk samples via Polarized Light Microscopy (PLM). Samples found to contain less than ten percent (10%) asbestos via the visual estimation method of PLM were further verified via the "Point Count Method" as defined by the AHERA regulation (40 CFR Part 763). Results from analyses of samples collected from suspect ACMs are presented in the following subsections.

### 2.2 FINDINGS AND CONCLUSIONS

USEPA and OSHA asbestos regulations define an ACM as any material that contains greater than one percent (1%) asbestos. Materials containing detectable concentrations of asbestos equal to, or less than, one percent asbestos are considered trace asbestos materials. Suspect ACMs that were not sampled during the assessment are considered assumed ACMs until future sampling and analyses in accordance with USEPA asbestos assessment protocol demonstrates otherwise.

According to the USEPA NESHAP asbestos regulation, ACMs including thermal system insulation (TSI), surfacing materials, friable ACMs, and Category I and Category II nonfriable ACMs that are likely to become friable if subjected to demolition forces, are defined as Regulated Asbestos-Containing Materials (RACMs) and must be removed from a building prior to demolition.

Summaries of the results of asbestos assessments for each structure are presented in the respective report appendices (Appendix A through F). Detailed descriptions of suspect ACMs identified in association with each structure, RACM, ACM, trace asbestos, or non-ACM categorizations, estimated quantities, friability, conditions, and locations of the materials sampled are presented in the summary table included in the corresponding project site appendix, along with the Chain-of-Custody forms and analytical data for the bulk asbestos samples collected.

Information regarding federal and state requirements for notification or work operations and the required work practices for activities involving ACMs and trace asbestos materials is presented below. Assumed ACMs are considered ACMs relative to regulatory notification and work requirements.

### 2.3 REGULATORY INFORMATION REGARDING ASBESTOS NOTIFICATIONS AND WORK PRACTICES

#### 2.3.1 ASBESTOS REMOVAL

According to the USEPA NESHAP asbestos regulation, friable ACMs and nonfriable ACMs which could be expected to be disturbed and become friable must be removed prior to demolition activities. A ten-working day (14 calendar-day) notification to the OEPA is required when greater than 50 linear feet or 50

square feet of regulated asbestos material will be abated or when a renovation will be conducted involving greater than 160 square feet, 260 linear feet, or 35 cubic feet of regulated asbestos material. The *Notification of Demolition and Renovation/Abatement* form required by the Ohio EPA can be downloaded from the Ohio EPA website.<sup>1</sup>

The *Notification of Demolition and Renovation/Abatement* form required by the USEPA NESHAP regulation must also be prepared and submitted to the Ohio EPA at least 10 working-days (14 calendar-days) prior to demolition of a building, regardless of whether or not ACMs are present in the building. The contractor is responsible for submitting the notification prior to demolition activities.

According to the OSHA Asbestos Construction Standard, removal or demolition involving TSI or surfacing ACMs is considered Class I asbestos work. Removal or demolition involving ACM that is not TSI or surfacing material is considered Class II asbestos work. All Class I asbestos work activities must be conducted by a licensed and accredited asbestos contractor and in accordance with the standard. Work activities defined as Class II asbestos work must be conducted by appropriately trained or accredited staff under the supervision of an accredited Asbestos Hazard Abatement Specialist in accordance with the standard.

According to the USEPA NESHAP asbestos regulation, nonfriable ACMs, if in good condition and not subjected to forces that would render them friable, need not be removed from a building prior to demolition. However, if a building contains one or more ACM during demolition, the demolition workers are required to have eight hours of asbestos training with specific “hands-on” instruction for each asbestos material present during demolition. An individual who has completed a 40-hour asbestos supervisor training course must also supervise the work. Specific OSHA asbestos work practices including, but not limited to, the use of respirators and personal protective equipment, and restrictions related to the material(s) would apply. Personal exposure monitoring of the personnel on site would be required during demolition. In addition, hazard communication requirements contained in the OSHA Asbestos Construction Standard related to multiple employer work sites would apply.

40 CFR Part 763 requires asbestos abatement project design by an Asbestos Hazard Abatement Project Designer that is trained in accordance with USEPA requirements and accredited by the Ohio EPA. All ACM waste generated during asbestos abatement activities should be placed in doubled, appropriately labeled waste bags, affixed with a waste generator location label, and disposed in a landfill licensed to accept asbestos waste in the State of Ohio. All ACM waste generated during asbestos abatement activities that is removed from the site should be inventoried on a Waste Shipment Record that complies with NESHAP regulations, 40 CFR Part 61.

Paragraph (k) of the OSHA Asbestos Construction Standard (29 CFR Part 1926.1101) and paragraph (j) of the OSHA Asbestos Standard for General Industry (29 CFR Part 1910.1001) require that building owners communicate to their employees, tenants, and building contractors information regarding the presence, quantity, and location of ACMs in a building.

---

<sup>1</sup> Prior Notification of Asbestos Hazard Abatement Project Form: [https://www.epa.ohio.gov/dapc/atu/asbestos\\_](https://www.epa.ohio.gov/dapc/atu/asbestos_)

### 2.3.2 MATERIALS CONTAINING TRACE ASBESTOS

According to the OSHA Asbestos Construction Standard, work involving materials containing trace concentrations of asbestos is considered “unclassified” asbestos work. Unclassified asbestos work is subject to the engineering and work practice requirements contained within paragraphs (g)(1), (g)(2), and (g)(3) of the standard with the exception of (g)(1)(i). These requirements include:

- Use of wetting agents and wet methods.
- Prompt cleanup of waste and disposal of waste within leak-tight containers.
- Use of local exhaust ventilation equipped with high-efficiency particulate air (HEPA) filtration.
- Enclosure or isolation of the work area or process.
- Ventilation of the work area to move contaminated air from the breathing zone of employees towards the HEPA filtered ventilation source.

Work involving this material may also be subject to other requirements contained within the standard including, but not limited to, exposure assessment/monitoring of personnel working with these materials, use of personal protective equipment, and hazard communication requirements.

### 3. LIMITATIONS AND GENERAL COMMENTS

Our project team conducted limited destructive assessment of wall cavities, ceilings, floor surfaces, and other interstitial spaces of the structures. However, we did not assess every wall cavity and ceiling space within the structures or demolish floor surfaces. Additional ACMs may exist in concealed spaces that were not assessed. We recommend selective demolition to expose concealed spaces such as these prior to initiation of demolition activities to assess for the presence of concealed ACMs. If suspect ACMs are encountered for which no analytical data exists, we recommend the material(s) remain undisturbed until the asbestos content of the material(s) is determined in accordance with USEPA and OSHA regulations.

Other site-specific limitations encountered during our assessment are summarized in the respective project site appendix.

The quantities presented in our report are intended to be “Order of Magnitude” estimates and the estimated quantities and other information in this report should not be used as an exclusive source of information for bid formulation or for notification to regulatory agencies.

Laboratory descriptions of materials analyzed by PLM method for asbestos content were based upon the microscopists’ perceptions of bulk samples that were pulverized and prepared with dispersion oils for PLM analysis. Due to the preparation of the sampled materials and the minute level of observation by the laboratory personnel, the descriptions on the Certificates of Analysis may not match the sample descriptions recorded by SME’s project team in the field. Our sample descriptions and locations should be used to identify materials that were sampled, and our sample numbers should be used to correlate analytical results for the sampled materials.

We based the conclusions and recommendations submitted in this report upon the scope of services noted herein. In the process of obtaining the field information presented in this report, we followed procedures that represent reasonable and accepted industrial hygiene practices and principles, in a manner consistent with that level of care and skill ordinarily exercised by members of this profession currently practicing under similar conditions. We understand that Noble County Land Reutilization Corporation will rely upon the professional opinions and representations contained in this report. However, the information and opinions contained within this report are not to be construed a warranty of the conditions of this site in any way, implied or explicit. No other party may rely upon our opinions, conclusions or reports unless we have agreed to such reliance in writing.

## 4. IDENTIFICATION OF REPORT AUTHOR

This assessment report was prepared by Ms. Kelsea M. Pohl and was reviewed by Mr. Jason C. Lafayette. Contact information for Ms. Pohl and Mr. Lafayette is provided below.

Kelsea M. Pohl, PE  
Project Engineer  
SME  
9375 Chillicothe Road  
Kirtland, Ohio 44094  
(216) 536-2581  
kelsea.pohl@sme-usa.com

Jason C. Lafayette  
Senior Project Consultant  
SME  
15825 Leone Drive  
Macomb, Michigan 48402  
(586) 731-3100  
jason.lafayette@sme-usa.com

### REPORT PREPARED BY:



Kelsea Pohl  
Mar 15 2023 1:34 PM

Kelsea M. Pohl, PE  
Project Engineer

### REPORT REVIEWED BY:



Jason C. Lafayette  
Senior Project Consultant

**APPENDIX A**  
**201 MAIN STREET, BELLE VALLEY, OHIO**



## **ASBESTOS ASSESSMENT SUMMARY**

### **201 MAIN STREET, BELLE VALLEY, OHIO**

#### **SITE DESCRIPTION AND STRUCTURE CONDITION**

The 201 Main Street site was located south of Main Street between Walnut Street and Spruce Street in Belle Valley, Ohio. The site was developed with an approximately 3,000 square-foot, two-story commercial and residential structure and an approximately 500 square-foot shed that were unoccupied at the time of our assessment. The first floor of the structure had collapsed into the basement and it was unsafe for our staff to access the interior of the structure.

#### **ASBESTOS SAMPLING RESULTS**

The United States Environmental Protection Agency (USEPA) and the Occupational Safety and Health Administration (OSHA) asbestos regulations define an ACM as any material that contains greater than one percent asbestos. Suspect ACMs not analyzed for asbestos content are considered assumed ACMs. According to the USEPA National Emission Standard for Hazardous Air Pollutants asbestos regulation (NESHAP, 40 CFR Part 61 M), friable ACMs and nonfriable ACMs which could be expected to be disturbed and become friable are considered Regulated Asbestos Containing Materials (RACMs) and must be removed prior to demolition activities. Nonfriable ACMs, if in good condition and not subjected to forces that would render them friable, are permitted by USEPA to remain in a structure during demolition. According to the OSHA Asbestos Construction Standard, demolition activities involving ACMs must be conducted by trained personnel in accordance with the standard and in accordance with the Ohio Administrative Code (OAC). Refer to the following section and Section 2.3.1 of the report for additional information regarding asbestos work requirements and notifications.

Materials containing trace asbestos (equal to or less than one percent asbestos) are not considered RACM or ACM but are subject to the engineering and work practice requirements of paragraphs (g)(1), (g)(2), and (g)(3) of the OSHA Asbestos Construction Standard.

A summary of the descriptions of suspect ACMs identified, RACM, ACM, Trace Asbestos, or non-ACM categorization of the materials, estimated quantity, friability, condition, and locations of the materials sampled is presented in the attached Table 1.

#### **SITE-SPECIFIC LIMITATIONS AND PROJECT CONSIDERATIONS**

Due to the collapsed first floor, SME was unable to safely assess the interior of the structure for the presence of ACMs but assessed the shed and the exterior of the structure. Additionally, we noted the presence of suspect asbestos-containing pipe insulation in the basement of the structure from the basement windows. Whenever such a structure is demolished and no prior asbestos building inspection or abatement was performed because the structure could not be safely assessed/abated, all the demolition debris must be treated as RACM and must be disposed of in an Ohio Environmental Protection Agency (OEPA) approved asbestos waste disposal site. Because, in this scenario, the material is to be treated/disposed of as RACM, an OEPA licensed Asbestos Hazard Abatement Contractor must be on-site to oversee removal and packaging of the waste per OAC rule 3745-22-02.

The municipality is responsible for issuing an Emergency Demolition Order or Ordered Demolition Order to be submitted with the OEPA emergency/ordered Notification of Demolition and Renovation/Abatement form. The OAC rule 3745-20-01(B)(17) defines an emergency demolition as any demolition operation conducted under a written order issued by a state or local governmental agency because a facility is structurally unsound and in danger of imminent collapse. While ordered demolitions are not defined in the OAC asbestos rules, OEPA recognizes that certain structures are unsafe to enter to perform an asbestos building inspection and/or remove ACM even though the building is not in danger of imminent collapse.

Both emergency demolitions and ordered demolitions must be ordered in writing by a government authority and a copy of the order submitted to OEPA with the Notification of Demolition and Renovation/Abatement form. Refer to the attached OEPA Roles and Responsibilities for Emergency Demolitions and Ordered Demolitions guidance document for specific information to be included in the demolition notification.

## RECOMMENDATIONS

- We recommend a qualified professional for the Village of Belle Valley or Noble County perform a structural evaluation of the site structure and issue a written Emergency Demolition Order or Ordered Demolition Order, as appropriate. A copy of the written order must be submitted with the OEPA emergency/ordered Notification of Demolition and Renovation/Abatement form.
- We recommend demolition of the structure by a licensed Asbestos Hazard Abatement Contractor, supervised by a 40-hour trained asbestos supervisor accredited by the Ohio Environmental Protection Agency (OEPA), and conducted in accordance with the OSHA Asbestos Construction Standard. All resulting building demolition waste should be disposed as asbestos containing waste.
- We recommend that the identified RACMs, if safely accessible, be removed by a licensed asbestos contractor, and in accordance with the OSHA Asbestos Construction Standard, prior to demolition.
- We recommend proper notification to the OEPA prior to removal of ACMs and demolition of the structure including a copy of an Emergency Demolition Order or Ordered Demolition Order prepared by a qualified city official.
- We recommend asbestos abatement project design by an Asbestos Hazard Abatement Project Designer that is trained in accordance with USEPA requirements and accredited by the OEPA. We also recommend monitoring asbestos removal work or disturbance with air sampling, visual verification, and clearance air monitoring performed by an independent third party (such as SME). We recommend notification of the presence, quantity, and location of ACMs and communication of the hazards associated with them in accordance.



## ASBESTOS BULK SAMPLING RESULTS TABLE

**TABLE 1  
ASBESTOS BULK SAMPLING RESULTS  
201 MAIN STREET, BELLE VALLEY, OHIO  
SME PROJECT NUMBER: 089229.00.002**

The quantities presented in this table are intended to be “Order of Magnitude” estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
1	Red clay brick Gray mortar	Non-ACM Non-ACM	100 sq. ft.	Nonfriable	Damaged	North side of building
2	White exterior window glaze	<b>RACM</b>	15 sq. ft. (18 windows)	Nonfriable likely to become friable during demolition	Significantly Damaged	Exterior windows
3	White siding	Non-ACM	350 sq. ft.	Nonfriable	Significantly Damaged	South and west side exterior
4	Gray CMU block Gray mortar	Non-ACM Non-ACM	300 sq. ft.	Nonfriable	Good	West side of structure
5	Red brick Gray mortar	Non-ACM Non-ACM	100 sq. ft.	Nonfriable	Damaged	Exterior
6	Gray roofing tiles	Non-ACM	500 sq. ft.	Nonfriable	Damaged	West side of roof
7	White pipe wrap on 1-foot diameter water heaters	Not Sampled <b>Assumed RACM</b>	20 ln. ft.	Friable	Damaged	Basement
8	White pipe wrap on 6-foot diameter boiler	Not Sampled <b>Assumed RACM</b>	30 ln. ft.	Friable	Damaged	Basement
9	White pipe wrap on 4-inch pipe	Not Sampled <b>Assumed RACM</b>	40 ln. ft.	Friable	Damaged	Basement
10	Pink wall insulation	Non-ACM	400 sq. ft.	Friable	Significantly Damaged	West side

**TABLE 1  
ASBESTOS BULK SAMPLING RESULTS  
201 MAIN STREET, BELLE VALLEY, OHIO  
SME PROJECT NUMBER: 089229.00.002**

The quantities presented in this table are intended to be “Order of Magnitude” estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
201	White exterior window glaze	Non-ACM	2 sq. ft. (2 windows)	Nonfriable likely to become friable during demolition	Significantly Damaged	Exterior windows on shed

**NOTES:**

HA = Homogenous Area.

**RACM** = Regulated Asbestos-Containing Material. Must be removed from the building prior to demolition.

**ACM** = Asbestos-Containing Material as defined by USEPA and OSHA definition.

**Trace Asbestos** = Equal to or less than 1% asbestos detected.

Friable = Material that can be crumbled or reduced to powder by hand pressure.

NQ = Not quantified

Material conditions are described as defined in AHERA, 40 CFR Part 763.

In. ft. = linear feet

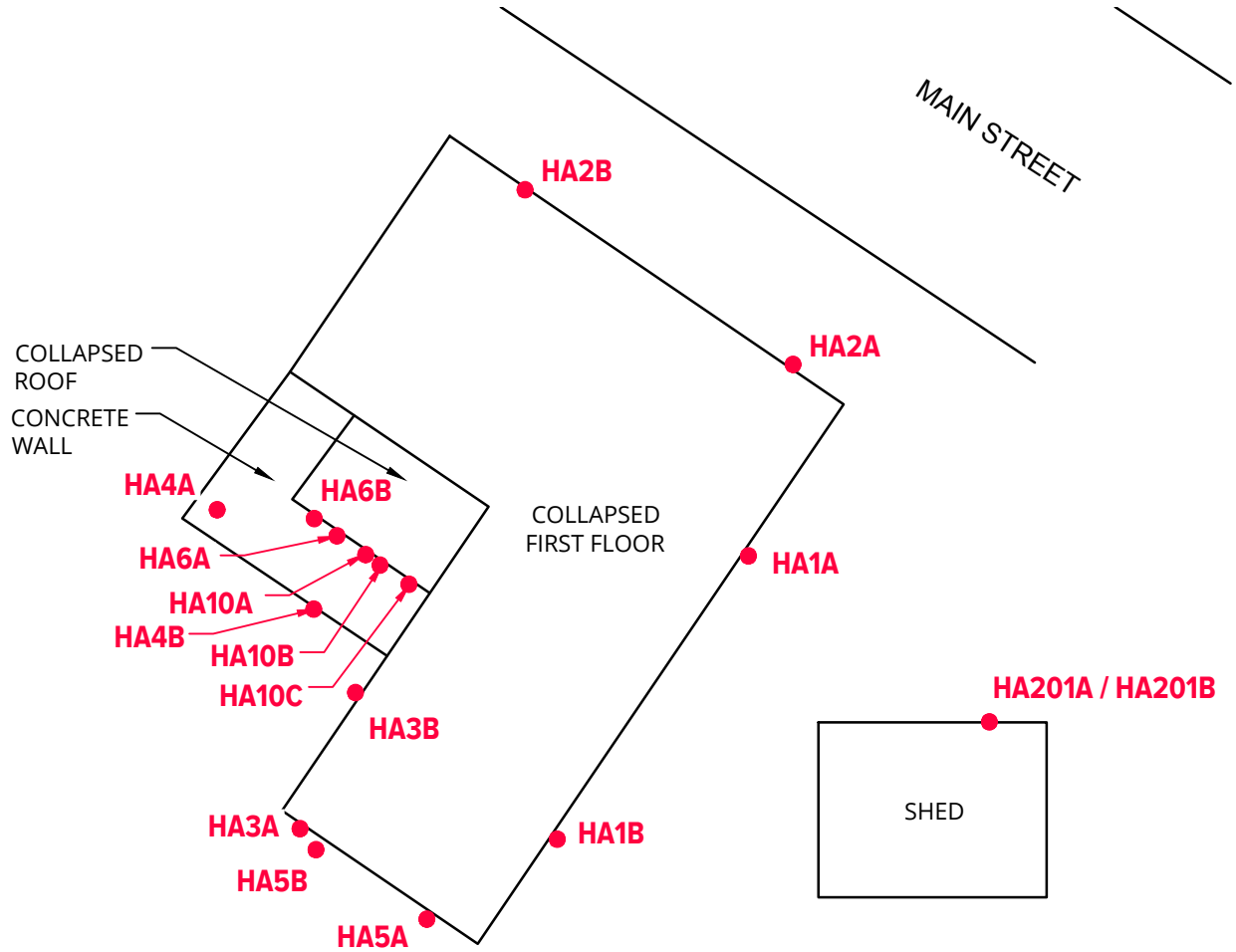
sq. ft. = square feet

cu. ft.= cubic feet

\* = Estimate of visible, accessible materials. Additional quantities and materials may be present in concealed spaces not assessed

**SAMPLE LOCATION DIAGRAM**





### LEGEND

● BULK ASBESTOS SAMPLE

NOTE:

- BUILDING FEATURES AND SAMPLE LOCATIONS ARE APPROXIMATE.



No.	Revision Date	Date	02-03-2023
	Drawn By	CRC	
	Designed By	KP	
	Scale	Not To Scale	
	Project	089229.00.002	

**ASBESTOS ASSESSMENT SAMPLE LOCATION DIAGRAM**  
**NOBLE CO ENVIRONMENTAL CONSULTING**  
**201 MAIN STREET**  
**BELLE VALLEY, OHIO**



www.sme-usa.com

**Figure No. 2**

**CERTIFICATE OF ANALYSIS  
CHAIN OF CUSTODY FORM**

## Chain of Custody

-Bulk Asbestos -

### Contact Information

<b>Client Company:</b> <u>SME</u>	<b>Project Number:</b> <u>089229.00.02</u>
<b>Office Address:</b> <u>4401 Lyman Drive St C</u>	<b>Project Name:</b> <u>Noble County</u>
<b>City, State, Zip:</b> <u>Hilliard, Ohio, 43026</u>	<b>Primary Contact:</b> <u>Kelsea Pohl</u>
<b>Fax Number:</b> _____	<b>Office Phone:</b> _____
<b>Email Address:</b> <u>kelsea.pohl@sme-usa.com</u>	<b>Cell Phone:</b> <u>216 536 2581</u>

### PLM Instructions:

- PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993
- PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982
- PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010
- TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009
  
- PLM: Point Counting
  - PC: via ELAP 198.1
  - PC: 400 Points
  - PC: 800 Points \*
  - PC: 1600 Points \*
- PLM: Analyze Until Positive (Positive Stop)
  - AUP: by Homogenous Area as Noted
  - AUP: by Material Type as Noted
- PLM: NOB via 198.6
  - PLM: Friable via EPA 600 2.3
  - If <1% by PLM, to TEM via 198.4 \*
  - If <1% by PLM, Hold for Instructions
- PLM: Instructions for Multi-Layered Samples
  - Analyze and Report All Separable Layers per EPA 600
  - Report Composite for Drywall Systems per NESHAP
  - Report All Layers and Composite Where Applicable
  - Only Analyze and Report Specifically Noted Layer
- PLM: Non-Building Material \*\*\* (Dust, Wipe, Tape)
  - Soil or Vermiculite Analysis \*
  - CARB 435

**Special Instructions:** REFER TO ATTACHED SME CHAIN OF CUSTODY FOR ANALYSIS INSTRUCTIONS

*\* Additional charge and turnaround may be required    \*\* Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory*

### Turnaround Time

Preliminary Results Requested Date: \_\_\_\_\_  Verbal  Email  Fax

Specific date / time

10 Day  5 Day  3 Day  2 Day  1 Day\*  12 Hour\*\*  6 Hour\*\*  RUSH\*\*

*\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\**

### Chain of Custody

Relinquished (Name/Organization): <u>Callan Woods SME</u>	Date: <u>1/30/23</u>	Time: <u>3:00 PM</u>
Received (Name / iATL): _____	Date: _____	Time: _____
Sample Login (Name / iATL): _____	Date: _____	Time: _____
Analysis (Name(s) / iATL): <u>AS 2/10/23</u>	Date: _____	Time: _____
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____

RECEIVED  
FEB - 1 2023



CHAIN OF CUSTODY LOG

4401 Lyman Drive, St C  
Hilliard, OH, 43026  
Phone 614-705-2250  
FAX 614-705-2250

CLIENT NAME: Noble County  
SITE ADDRESS: 201 North Main Street, Belle Valley

BULK SAMPLE ANALYSIS REQUESTED: EPA 600R-93/116, 1993 with PLM Point Counting PC: 400 points

Note: Multiple samples of each homogeneous area may have been collected. If asbestos is detected at greater than 1% in first sample, DO NOT analyze subsequent samples from that area with exception of plaster and wallboard system samples. Please analyze all plaster and wallboard system samples, and provide individual layer analysis for each sample. If asbestos is detected in an individual layer of a wallboard system sample, please provide composite analysis. Please provide mastic analysis for floor tile samples. Treat mastic as a separate homogeneous area. For each thermal system insulation sample, please analyze the insulation portion(s) of each sample first. If asbestos is detected at 1% or greater do not analyze the insulation covering layer of the sample. Please provide the insulation covering analysis for thermal system insulation samples where asbestos is not detected in insulation layer(s) or where asbestos is detected at less than 1%.

Table with 5 columns: AREA #, SAMPLE #, MATERIAL DESCRIPTION, SAMPLE LOCATION, #. Rows 1-31.

RELINQUISHED BY: Cynthia Woods [Signature] SME DATE: 11/30/23 TIME: 3:00 PM  
RECEIVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

Please provide 10 day turnaround, emailed to Kelsea Pohl at Kelsea.pohl@sme-usa.com .

SME USE ONLY

Date Sampled: 11/24/2023

SME Project #: 089229.00.02





CHAIN OF CUSTODY LOG

Project: 201 N Main Street

Address:

Project No: 089229.00.02

Date Sampled: 01/24/2023

Note: Multiple samples of each homogeneous area may have been collected. If asbestos is detected at greater than 1% in first sample, DO NOT analyze subsequent samples from that area with exception of plaster samples, wallboard system samples, and spray applied fireproofing (SAFP) samples. Please analyze all plaster, wallboard, and SAFP samples, and provide individual layer analysis for each sample. If asbestos is detected at a concentration greater than 1% in an individual layer of a wallboard system sample, please provide composite analysis for that sample. Please provide mastic analysis for floor tile samples. Treat mastic as a separate homogeneous area. For each thermal system insulation sample, please analyze the insulation portion(s) of each sample first. If asbestos is detected at 1% or greater do not analyze the insulation covering layer of the sample. Please provide the insulation covering analysis for thermal system insulation samples where asbestos is not detected in insulation layer(s) or where asbestos is detected at less than 1%.

Sample ID	Description	Sample Location	#
1A	Red clay brick with gray mortar	East exterior wall	7562555
1B	Red clay brick with gray mortar	East exterior wall	7562555
2A	White window glaze ext	North exterior window	7562560
2B	White window glaze ext	North exterior wall	7562560
3A	White siding	South exterior wall	7562566
3B	White siding	West exterior wall	7562566
4A	Gray cmu block with gray mortar	South exterior fence	7562564
4B	Gray cmu block with gray mortar	West exterior wall	7562565
5A	Red brick with gray mortar	South exterior wall	7562560
5B	Red brick with gray mortar	South exterior wall	7562560
6A	Gray roofing tiles	Center portion	7562566
6B	Gray roofing tiles	Center portion	7562566
201A	White window glaze ext	North exterior window	7562570
201B	White window glaze ext	North exterior window	7562570
7	White pipe wrap on water heaters 1 ft diam		Not sampled
8	White pipe wrap on boiler 6 ft diagram		Not sampled
9	White pipe wrap on 4 inch pipe		Not sampled
10A	Wall insulation pink	Center portion	7562572
10B	Wall insulation pink	Center portion	7562573

ACCREDITATION #:

LICENSED ASBESTOS INSPECTOR:

ASR

10C

7562574

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/16/2023 Report No.: 677290 - PLM Project: Nobel County; 201 N Main St Belle Valley Project No.: 089229.00.02
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562558 <b>Client No.:</b> 1A	<b>Analyst Observation:</b> Red Brick <b>Client Description:</b> Red Clay Brick With Gray Mortar	<b>Location:</b> East Exterior Wall <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562558(L2) <b>Client No.:</b> 1A	<b>Analyst Observation:</b> Grey Mortar <b>Client Description:</b> Red Clay Brick With Gray Mortar	<b>Location:</b> East Exterior Wall <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


<b>Lab No.:</b> 7562559 <b>Client No.:</b> 1B	<b>Analyst Observation:</b> Red Brick <b>Client Description:</b> Red Clay Brick With Gray Mortar	<b>Location:</b> East Exterior Wall <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

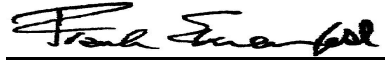
<b>Lab No.:</b> 7562559(L2) <b>Client No.:</b> 1B	<b>Analyst Observation:</b> Grey Mortar <b>Client Description:</b> Red Clay Brick With Gray Mortar	<b>Location:</b> East Exterior Wall <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562560 <b>Client No.:</b> 2A	<b>Analyst Observation:</b> White Glazing <b>Client Description:</b> White Window Glaze Ext	<b>Location:</b> North Exterior Window <b>Facility:</b>
<u>Percent Asbestos:</u> <b>PC 1.8 Chrysotile</b>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 98.2

<b>Lab No.:</b> 7562561 <b>Client No.:</b> 2B	<b>Analyst Observation:</b> Sample Not Analyzed <b>Client Description:</b> White Window Glaze Ext	<b>Location:</b> North Exterior Wall <b>Facility:</b>
<u>Percent Asbestos:</u> <i>Sample Not Analyzed</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Sample Not Analyzed	<u>Percent Non-Fibrous Material:</u>

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/16/2023 Report No.: 677290 - PLM Project: Nobel County; 201 N Main St Belle Valley Project No.: 089229.00.02
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562562 <b>Client No.:</b> 3A	<b>Analyst Observation:</b> White Siding <b>Client Description:</b> White Siding	<b>Location:</b> South Exterior Wall <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 90 Cellulose	<u>Percent Non-Fibrous Material:</u> 10

<b>Lab No.:</b> 7562563 <b>Client No.:</b> 3B	<b>Analyst Observation:</b> White Siding <b>Client Description:</b> White Siding	<b>Location:</b> West Exterior Wall <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 90 Cellulose	<u>Percent Non-Fibrous Material:</u> 10


<b>Lab No.:</b> 7562564 <b>Client No.:</b> 4A	<b>Analyst Observation:</b> Grey Concrete <b>Client Description:</b> Gray CMU Block With Gray Mortar	<b>Location:</b> South Exterior Fence <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

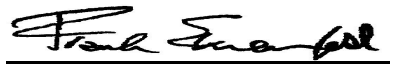
<b>Lab No.:</b> 7562564(L2) <b>Client No.:</b> 4A	<b>Analyst Observation:</b> Grey Mortar <b>Client Description:</b> Gray CMU Block With Gray Mortar	<b>Location:</b> South Exterior Fence <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562565 <b>Client No.:</b> 4B	<b>Analyst Observation:</b> Grey Concrete <b>Client Description:</b> Gray CMU Block With Gray Mortar	<b>Location:</b> West Exterior Wall <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562565(L2) <b>Client No.:</b> 4B	<b>Analyst Observation:</b> Grey Mortar <b>Client Description:</b> Gray CMU Block With Gray Mortar	<b>Location:</b> West Exterior Wall <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677290 - PLM  
Project: Nobel County; 201 N Main St Belle Valley  
Project No.: 089229.00.02

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562566      **Analyst Observation:** Red Brick      **Location:** South Exterior Wall  
**Client No.:** 5A      **Client Description:** Red Brick With Gray Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562566(L2)      **Analyst Observation:** Grey Mortar      **Location:** South Exterior Wall  
**Client No.:** 5A      **Client Description:** Red Brick With Gray Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100


**Lab No.:** 7562567      **Analyst Observation:** Red Brick      **Location:** South Exterior Wall  
**Client No.:** 5B      **Client Description:** Red Brick With Gray Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

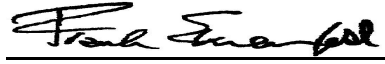
**Lab No.:** 7562567(L2)      **Analyst Observation:** Grey Mortar      **Location:** South Exterior Wall  
**Client No.:** 5B      **Client Description:** Red Brick With Gray Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562568      **Analyst Observation:** Grey Non-Fibrous      **Location:** Center Portion  
**Client No.:** 6A      **Client Description:** Gray Roofing Tiles      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562569      **Analyst Observation:** Grey Non-Fibrous      **Location:** Center Portion  
**Client No.:** 6B      **Client Description:** Gray Roofing Tiles      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677290 - PLM  
Project: Nobel County; 201 N Main St Belle Valley  
Project No.: 089229.00.02

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562570  
**Client No.:** 201A

**Analyst Observation:** White Glazing  
**Client Description:** White Window Glaze Ext

**Location:** North Exterior Window  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562571  
**Client No.:** 201B

**Analyst Observation:** White Glazing  
**Client Description:** White Window Glaze Ext

**Location:** North Exterior Window  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562572  
**Client No.:** 10A

**Analyst Observation:** Pink Insulation  
**Client Description:** Wall Insulation Pink

**Location:** Center Portion  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
100 Fibrous Glass

Percent Non-Fibrous Material:  
None Detected

**Lab No.:** 7562573  
**Client No.:** 10B

**Analyst Observation:** Pink Insulation  
**Client Description:** Wall Insulation Pink

**Location:** Center Portion  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
100 Fibrous Glass

Percent Non-Fibrous Material:  
None Detected

**Lab No.:** 7562574  
**Client No.:** 10C

**Analyst Observation:** Pink Insulation  
**Client Description:**

**Location:** Additional Sample Received  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
100 Fibrous Glass

Percent Non-Fibrous Material:  
None Detected

Please refer to the Appendix of this report for further information regarding your analysis.

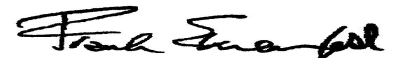
Date Received: 2/1/2023

Date Analyzed: 02/16/2023

Signature: 

Analyst: Aidan Becker

Approved By:



Frank E. Ehrenfeld, III  
Laboratory Director

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677290 - PLM  
Project: Nobel County; 201 N Main St Belle Valley  
Project No.: 089229.00.02

Client: SOI995

## Appendix to Analytical Report

**Customer Contact:** Davin Ojala

**Method:** 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, USEPA 600, R93-116 and NYSDOH ELAP 198.1 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

**iATL Customer Service:** customerservice@iatl.com

**iATL Office Manager:** wchampion@iatl.com

**iATL Account Representative:** Shirley Clark

**Sample Login Notes:** See Batch Sheet Attached

**Sample Matrix:** Bulk Building Materials

**Exceptions Noted:** See Following Pages

### General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at [www.iATL.com](http://www.iATL.com) and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

### Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

#### Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB) See additional information at the end of this appendix.

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677290 - PLM  
Project: Nobel County; 201 N Main St Belle Valley  
Project No.: 089229.00.02

Client: SOI995

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)  
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

### Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at [customerservice@iatl.com](mailto:customerservice@iatl.com).

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

### Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) [www.atsdr.cdc.gov](http://www.atsdr.cdc.gov), United States Geological Survey (USGS) [www.minerals.usgs.gov/minerals/](http://www.minerals.usgs.gov/minerals/), US EPA [www.epa.gov/asbestos](http://www.epa.gov/asbestos). The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite ([https://www.wadsworth.org/sites/default/files/WebDoc/I198\\_8\\_02\\_2.pdf](https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf))

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1) **Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116  
**Requirements/Comments:** Minimum of 0.1 g of sample. ~0.25% for most samples.

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677290 - PLM  
Project: Nobel County; 201 N Main St Belle Valley  
Project No.: 089229.00.02

Client: SOI995

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Suspension" only.  
\*With advance notice and confirmation by the laboratory.

\*\*Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM CERTIFICATION MANUAL - ITEM No. 198.1, Revision Date 5/6/16)

\*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other than SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% vermiculite.

Statistically derived uncertainty with any measure should be taken into consideration when reviewing and interpreting all reported data and results. A more comprehensive listing of accuracy, precision, and uncertainty as it impacts this method is available upon request.



**APPENDIX B**  
**308 WEST CROSS STREET, SUMMERFIELD, OHIO**



## **ASBESTOS ASSESSMENT SUMMARY**

### **308 WEST CROSS STREET, SUMMERFIELD, OHIO**

#### **SITE DESCRIPTION AND STRUCTURE CONDITION**

The 308 West Cross Street site was located north of West Cross Street between Plum Street and Railroad Street in Summerfield, Ohio. The site was developed with an approximately 4,000 square-foot two-story residential/commercial structure that was unoccupied at the time of our assessment. Debris was present throughout the structure and the second floor was warped, toward the first floor, and was unsafe for our staff to access. Areas of the first floor had collapsed into the crawlspace.

#### **ASBESTOS SAMPLING RESULTS**

The United States Environmental Protection Agency (USEPA) and the Occupational Safety and Health Administration (OSHA) asbestos regulations define an ACM as any material that contains greater than one percent asbestos. Suspect ACMs not analyzed for asbestos content are considered assumed ACMs. According to the USEPA National Emission Standard for Hazardous Air Pollutants asbestos regulation (NESHAP, 40 CFR Part 61 M), friable ACMs and nonfriable ACMs which could be expected to be disturbed and become friable are considered Regulated Asbestos Containing Materials (RACMs) and must be removed prior to demolition activities. Nonfriable ACMs, if in good condition and not subjected to forces that would render them friable, are permitted by USEPA to remain in a structure during demolition. According to the OSHA Asbestos Construction Standard, demolition activities involving ACMs must be conducted by trained personnel in accordance with the standard and in accordance with the Ohio Administrative Code (OAC). Refer to Section 2.3.1 of the report for additional information regarding asbestos work requirements and notifications.

Materials containing trace asbestos (equal to or less than one percent asbestos) are not considered RACM or ACM but are subject to the engineering and work practice requirements of paragraphs (g)(1), (g)(2), and (g)(3) of the OSHA Asbestos Construction Standard.

A summary of the descriptions of suspect ACMs identified, RACM, ACM, Trace Asbestos, or non-ACM categorization of the materials, estimated quantity, friability, condition, and locations of the materials sampled is presented in the attached Table 1.

#### **SITE-SPECIFIC LIMITATIONS AND PROJECT CONSIDERATIONS**

Due to the condition of the second floor, SME was unable to safely assess the interior of the second level of the structure for the presence of ACMs but assessed the first floor and the exterior of the structure.

#### **RECOMMENDATIONS**

- If the second floor of the structure can be stabilized, we recommend that the unassessed areas of the structure be assessed for the presence of ACMs by an Asbestos Hazard Evaluation Specialist prior to demolition of the structure. Access to the second floor of the structure and clearing of debris throughout the structure allowing safe passage to the second floor of the structure will be necessary for these areas to be properly assessed. If the second floor of the structure cannot be safely assessed, we recommend that a licensed asbestos contractor be present during demolition such that demolition can be appropriately halted, and ACMs removed if encountered.

- We recommend that the identified RACMs be removed by a licensed asbestos contractor, and in accordance with the OSHA Asbestos Construction Standard, prior to demolition.
- If the identified nonfriable ACMs which are not likely to be rendered friable during demolition will be removed prior to demolition, we recommend that they be removed by a licensed asbestos contractor, and in accordance with the asbestos work requirements of the OSHA Asbestos Construction Standard. If one or more of these nonfriable ACMs will remain intact during demolition, we recommend that the demolition activities be conducted by staff trained to conduct demolition involving those ACMs, supervised by a 40-hour trained asbestos supervisor accredited by the Ohio Environmental Protection Agency (OEPA) and conducted in accordance with the OSHA Asbestos Construction Standard.
- We recommend proper notification to the OEPA prior to removal of ACMs and demolition of the structure.
- We recommend asbestos abatement project design by an Asbestos Hazard Abatement Project Designer that is trained in accordance with USEPA requirements and accredited by the OEPA. We also recommend monitoring asbestos removal work or disturbance with air sampling, visual verification, and clearance air monitoring performed by an independent third party (such as SME). We recommend notification of the presence, quantity, and location of ACMs and communication of the hazards associated with them in accordance.

## ASBESTOS BULK SAMPLING RESULTS TABLE

**TABLE 1  
ASBESTOS BULK SAMPLING RESULTS  
308 WEST CROSS STREET, SUMMERFIELD, OHIO  
SME PROJECT NUMBER: 089229.00.005**

The quantities presented in this table are intended to be “Order of Magnitude” estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
1	White exterior window glaze	<b>RACM</b>	10 sq. ft. (17 windows)	Nonfriable likely to become friable during demolition	Significantly Damaged	Exterior windows
2	Gray exterior concrete porch	Non-ACM	700 sq. ft.	Nonfriable	Good	Throughout the exterior
3	Gray tile roofing system	Non-ACM	2,000 sq. ft.	Nonfriable	Damaged	Exterior roof
4	Gray CMU block  Gray mortar	Non-ACM  Non-ACM	700 sq. ft.	Nonfriable	Good	Expansion on north side of structure
5	White vinyl floor tile  Gray mastic**	<b>ACM</b>	160 sq. ft.	Nonfriable	Damaged	Kitchen
6	Gray plaster wall system  Gray plaster  White plaster  Brown wall cover	  Non-ACM  Non-ACM  Non-ACM	7,000 sq. ft.	Nonfriable	Damaged	Throughout interior
7	Gray plaster ceiling system  Gray plaster  White plaster  Brown wall cover	  Non-ACM  Non-ACM  Non-ACM	7,000 sq. ft.	Nonfriable	Damaged	Throughout interior
8	White countertop  Yellow mastic	Non-ACM  Non-ACM	50 sq. ft.	Nonfriable	Damaged	Kitchen

**TABLE 1  
ASBESTOS BULK SAMPLING RESULTS  
308 WEST CROSS STREET, SUMMERFIELD, OHIO  
SME PROJECT NUMBER: 089229.00.005**

The quantities presented in this table are intended to be “Order of Magnitude” estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
9	Gray fireplace brick  Gray mortar	Non-ACM  Non-ACM	7 sq. ft.	Nonfriable	Damaged	Kitchen
10	12" x12" white ceiling tile	Non-ACM	170 sq. ft.	Friable	Significantly Damaged	Living room
11	Gray concrete floor	Non-ACM	500 sq. ft.	Nonfriable	Good	Expansion on north portion of structure
12	2' x 2' white ceiling tile	Non-ACM	100 sq. ft.	Friable	Significantly Damaged	Stairs to second floor
13	Red brick  Gray mortar	Non-ACM  Non-ACM	25 sq. ft.	Nonfriable	Good	Fireplace
14	Exterior ¼" bead cream window caulk	Non-ACM	1 sq. ft.  (1 window)	Nonfriable	Damaged	Kitchen window
15	White wallboard wall system  White drywall  White joint compound	Non-ACM  Non-ACM	10 sq. ft.	Nonfriable	Significantly Damaged	Center of building
16	Green asphaltic shingle roofing system  Green shingle  Black tar paper	Non-ACM  Non-ACM	400 sq. ft.	Nonfriable	Damaged	Extension on north side of structure and west porch

**NOTES:**

HA = Homogenous Area.

**RACM** = Regulated Asbestos-Containing Material. Must be removed from the building prior to demolition.

**ACM** = Asbestos-Containing Material as defined by USEPA and OSHA definition.

**Trace Asbestos** = Equal to or less than 1% asbestos detected.

Friable = Material that can be crumbled or reduced to powder by hand pressure.

NQ = Not quantified

Material conditions are described as defined in AHERA, 40 CFR Part 763.

In. ft. = linear feet

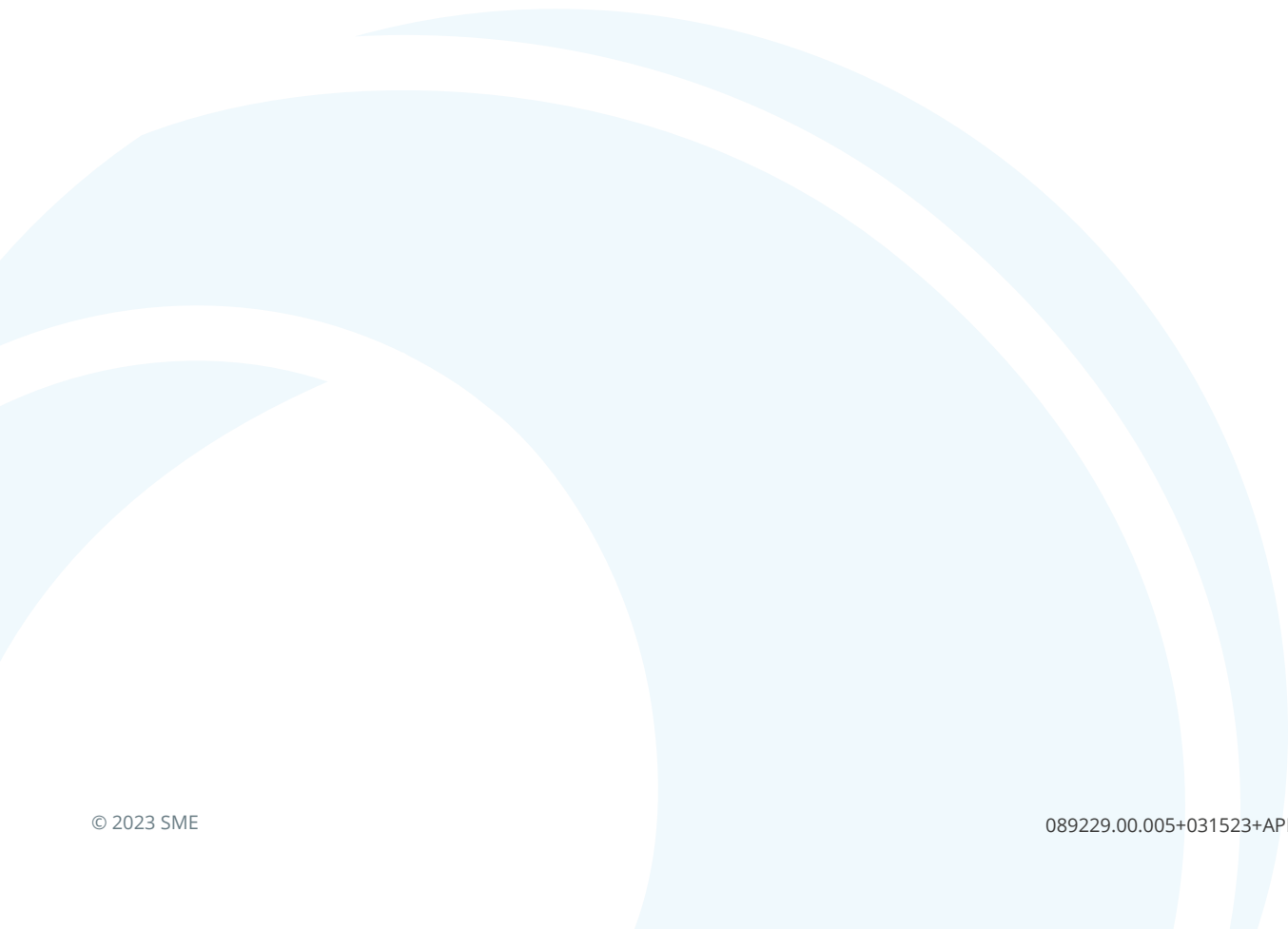
sq. ft. = square feet

cu. ft.= cubic feet

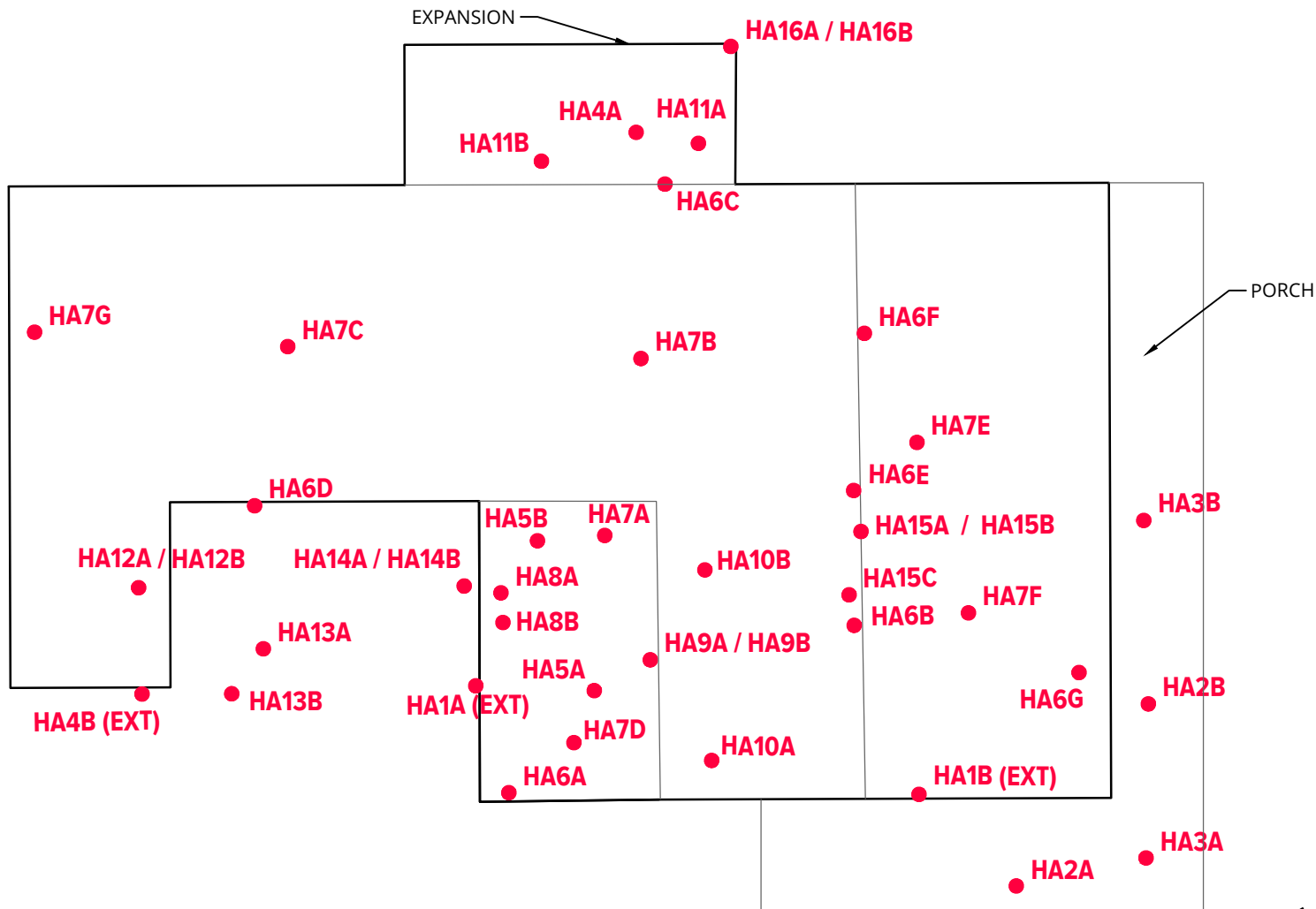
\* = Estimate of visible, accessible materials. Additional quantities and materials may be present in concealed spaces not assessed

\*\* = Mastic not analyzed, attached to ACM

**SAMPLE LOCATION DIAGRAM**







**LEGEND**

● BULK ASBESTOS SAMPLE

NOTE:  
1. BUILDING FEATURES AND SAMPLE LOCATIONS ARE APPROXIMATE.



No.	Revision Date	Date	02-03-2023
	Drawn By	CRC	
	Designed By	KP	
	Scale	Not To Scale	
	Project	089229.00.005	

**ASBESTOS ASSESSMENT SAMPLE LOCATION DIAGRAM**  
**NOBLE CO ENVIRONMENTAL CONSULTING**  
**308 WEST CROSS STREET**  
**SUMMERFIELD, OHIO**



**Figure No. 5**

**CERTIFICATE OF ANALYSIS  
CHAIN OF CUSTODY FORM**

## Chain of Custody

-Bulk Asbestos -

### Contact Information

<b>Client Company:</b> <u>SME</u>	<b>Project Number:</b> <u>089229.00.05</u>
<b>Office Address:</b> <u>4401 Lyman Drive St C</u>	<b>Project Name:</b> <u>Noble County</u>
<b>City, State, Zip:</b> <u>Hilliard, Ohio, 43026</u>	<b>Primary Contact:</b> <u>Kelsea Pohl</u>
<b>Fax Number:</b> _____	<b>Office Phone:</b> _____
<b>Email Address:</b> <u>kelsea.pohl@sme-usa.com</u>	<b>Cell Phone:</b> <u>216 536 2581</u>

### PLM Instructions:

- PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993
- PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982
- PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010
- TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009
  
- PLM: Point Counting
  - PC: via ELAP 198.1
  - PC: 400 Points
  - PC: 800 Points \*
  - PC: 1600 Points \*
- PLM: Analyze Until Positive (Positive Stop)
  - AUP: by Homogenous Area as Noted
  - AUP: by Material Type as Noted
- PLM: NOB via 198.6
  - PLM: Friable via EPA 600 2.3
  - If <1% by PLM, to TEM via 198.4 \*
  - If <1% by PLM, Hold for Instructions
- PLM: Instructions for Multi-Layered Samples
  - Analyze and Report All Separable Layers per EPA 600
  - Report Composite for Drywall Systems per NESHAP
  - Report All Layers and Composite Where Applicable
  - Only Analyze and Report Specifically Noted Layer
- PLM: Non-Building Material \*\*\* (Dust, Wipe, Tape)
  - Soil or Vermiculite Analysis \*
  - CARB 435

**Special Instructions:** REFER TO ATTACHED SME CHAIN OF CUSTODY FOR ANALYSIS INSTRUCTIONS

\* Additional charge and turnaround may be required    \*\* Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory

### Turnaround Time

Preliminary Results Requested Date: \_\_\_\_\_  Verbal  Email  Fax

Specific date / time

10 Day    5 Day    3 Day    2 Day    1 Day\*    12 Hour\*\*    6 Hour\*\*    RUSH\*\*

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\*

### Chain of Custody

Relinquished (Name/Organization): <u>CON/19 Woods SME</u>	Date: <u>1/30/23</u>	Time: <u>3:00 PM</u>
Received (Name / iATL): _____	Date: _____	Time: _____
Sample Login (Name / iATL): _____	Date: _____	Time: _____
Analysis(Name(s) / iATL): <u>AS 2.17.23</u>	Date: _____	Time: <u>FEB - 1 2023</u>
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____

RECEIVED



CHAIN OF CUSTODY LOG

4401 Lyman Drive, St C
Hilliard, OH, 43026
Phone 614-705-2250
FAX 614-705-2250

CLIENT NAME: Noble County
SITE ADDRESS: 308 West Cross Street, Summerfield

BULK SAMPLE ANALYSIS REQUESTED: EPA 600R-93/116, 1993 with PLM Point Counting PC: 400 points

Note: Multiple samples of each homogeneous area may have been collected. If asbestos is detected at greater than 1% in first sample, DO NOT analyze subsequent samples from that area with exception of plaster and wallboard system samples. Please analyze all plaster and wallboard system samples, and provide individual layer analysis for each sample. If asbestos is detected in an individual layer of a wallboard system sample, please provide composite analysis. Please provide mastic analysis for floor tile samples. Treat mastic as a separate homogeneous area. For each thermal system insulation sample, please analyze the insulation portion(s) of each sample first. If asbestos is detected at 1% or greater do not analyze the insulation covering layer of the sample. Please provide the insulation covering analysis for thermal system insulation samples where asbestos is not detected in insulation layer(s) or where asbestos is detected at less than 1%.

Table with 5 columns: AREA #, SAMPLE #, MATERIAL DESCRIPTION, SAMPLE LOCATION, #. Rows 1-31.

RELINQUISHED BY: Carla Woods / SME DATE: 1/30/23 TIME: 3:00 PM
RECEIVED BY: [Signature] DATE: TIME:

Please provide 10 day turnaround, emailed to Kelsea Pohl at Kelsea.pohl@sme-usa.com .

SME USE ONLY

Date Sampled: 1/25/23

SME Project #: 059229.00.05



CHAIN OF CUSTODY LOG

Project No: 089229.00.005

Project: 308 W Cross Street

Address:

Date Sampled: 01/25/2023

Note: Multiple samples of each homogeneous area may have been collected. If asbestos is detected at greater than 1% in first sample, DO NOT analyze subsequent samples from that area with exception of plaster samples, wallboard system samples, and spray applied fireproofing (SAFP) samples. Please analyze all plaster, wallboard, and SAFP samples, and provide individual layer analysis for each sample. If asbestos is detected at a concentration greater than 1% in an individual layer of a wallboard system sample, please provide composite analysis for that sample. Please provide mastic analysis for floor tile samples. Treat mastic as a separate homogeneous area. For each thermal system insulation sample, please analyze the insulation portion(s) of each sample first. If asbestos is detected at 1% or greater do not analyze the insulation covering layer of the sample. Please provide the insulation covering analysis for thermal system insulation samples where asbestos is not detected in insulation layer(s) or where asbestos is detected at less than 1%.

Sample ID	Description	Sample Location	#
1A	White ext window glaze	West window	7562575
1B	White ext window glaze	North window	7562576
2A	Gray ext concrete	North walkway	7562577
2B	Gray ext concrete	East walkway	7562578
3A	Tile roofing system gray	East porch	7562579
3B	Tile roofing system gray	East porch	7562580
4A	Gray cmu block with gray mortar	North room	7562581
4B	Gray cmu block with gray mortar	North room	7562582
5A	White vft with gray mastic	North kitchen	7562583
5B	White vft with gray mastic	North kitchen	7562584
6A	Gray plaster wall system	South kitchen	7562585
6B	Gray plaster wall system	Center room	7562586
6C	Gray plaster wall system	North room	7562587
6D	Gray plaster wall system	South center room	7562588
6E	Gray plaster wall system	Center room	7562589
6F	Gray plaster wall system	East room	7562590
6G	Gray plaster wall system	East room	7562591
7A	Plaster ceiling system	South kitchen	7562592
7B	Plaster ceiling system	Center room	7562593
7C	Plaster ceiling system	Center room	7562594
7D	Plaster ceiling system	South kitchen	7562595
7E	Plaster ceiling system	West center room	7562596
7F	Plaster ceiling system	East room	7562597
7G	Plaster ceiling system	East room	7562598
8A	White countertop with yellow mastic	Kitchen	7562599
8B	White countertop with yellow mastic	Kitchen	7562600
9A	Gray fireplace brick with gray mortar	Kitchen fireplace	7562601
9B	Gray fireplace brick with gray mortar	Kitchen fireplace	7562602
10A	12x12 white ct	Center room	7562603
10B	12x12 white ct	Center room	7562604
11A	Gray int concrete floor	North room	7562605
11B	Gray int concrete floor	North room	7562606
12A	2x2 white ct	East room	7562607



**CHAIN OF CUSTODY LOG**

Project No: 089229.00.005

Project: 308 W Cross Street

Address: ,

Sample ID	Description	Sample Location	#
12B	2x2 white ct	East room	7562608
13A	Red brick with gray mortar	Exterior south box	7552609
13B	Red brick with gray mortar	Exterior south box	7552610
14A	Exterior cream window caulk	West wall exterior	7572611
14B	Exterior cream window caulk	West exterior wall	7582612
15A	Finished dry wall wallboard system , White	Center room	7562613
15B	Finished dry wall wallboard system , White	Center room	7382614
15C	Finished dry wall wallboard system , White	Center room	7542615
16A	Green asphaltic shingle roofing system	Extension roof	7532616
16B	Green asphaltic shingle roofing system	Side porch roof	7542617

ACCREDITATION #:

LICENSED ASBESTOS INSPECTOR:

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677291 - PLM  
Project: Nobel County; 308 W Cross St Summerfield  
Project No.: 089229.00.05

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562575	<b>Analyst Observation:</b> White Glazing	<b>Location:</b> West Window
<b>Client No.:</b> 1A	<b>Client Description:</b> White Ext Window Glaze	<b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562576	<b>Analyst Observation:</b> White Glazing	<b>Location:</b> North Window
<b>Client No.:</b> 1B	<b>Client Description:</b> White Ext Window Glaze	<b>Facility:</b>
<u>Percent Asbestos:</u> <b>PC 1.0 Chrysotile</b>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 99


<b>Lab No.:</b> 7562577	<b>Analyst Observation:</b> Grey Concrete	<b>Location:</b> North Walkway
<b>Client No.:</b> 2A	<b>Client Description:</b> Gray Ext Concrete	<b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

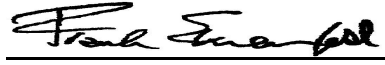
<b>Lab No.:</b> 7562578	<b>Analyst Observation:</b> Grey Concrete	<b>Location:</b> East Walkway
<b>Client No.:</b> 2B	<b>Client Description:</b> Gray Ext Concrete	<b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562579	<b>Analyst Observation:</b> Grey Non-Fibrous	<b>Location:</b> East Porch
<b>Client No.:</b> 3A	<b>Client Description:</b> Tile Roofing System Gray	<b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562580	<b>Analyst Observation:</b> Grey Non-Fibrous	<b>Location:</b> East Porch
<b>Client No.:</b> 3B	<b>Client Description:</b> Tile Roofing System Gray	<b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677291 - PLM  
Project: Nobel County; 308 W Cross St Summerfield  
Project No.: 089229.00.05

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562581  
**Client No.:** 4A  
**Analyst Observation:** Grey Concrete  
**Client Description:** Gray CMU Block With Gray Mortar  
**Location:** North Room  
**Facility:**  
Percent Asbestos:  
*None Detected*  
Percent Non-Asbestos Fibrous Material:  
None Detected  
Percent Non-Fibrous Material:  
100

**Lab No.:** 7562581(L2)  
**Client No.:** 4A  
**Analyst Observation:** Grey Mortar  
**Client Description:** Gray CMU Block With Gray Mortar  
**Location:** North Room  
**Facility:**  
Percent Asbestos:  
*None Detected*  
Percent Non-Asbestos Fibrous Material:  
None Detected  
Percent Non-Fibrous Material:  
100

**Lab No.:** 7562582  
**Client No.:** 4B  
**Analyst Observation:** Grey Concrete  
**Client Description:** Gray CMU Block With Gray Mortar  
**Location:** North Room  
**Facility:**  
Percent Asbestos:  
*None Detected*  
Percent Non-Asbestos Fibrous Material:  
None Detected  
Percent Non-Fibrous Material:  
100


**Lab No.:** 7562582(L2)  
**Client No.:** 4B  
**Analyst Observation:** Grey Mortar  
**Client Description:** Gray CMU Block With Gray Mortar  
**Location:** North Room  
**Facility:**  
Percent Asbestos:  
*None Detected*  
Percent Non-Asbestos Fibrous Material:  
None Detected  
Percent Non-Fibrous Material:  
100

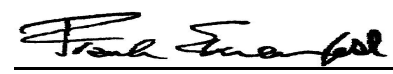
**Lab No.:** 7562583  
**Client No.:** 5A  
**Analyst Observation:** White Vinyl Sheet Flooring  
**Client Description:** White VFT With Gray Mastic  
**Location:** North Kitchen  
**Facility:**  
Percent Asbestos:  
**20 Chrysotile**  
Percent Non-Asbestos Fibrous Material:  
None Detected  
Percent Non-Fibrous Material:  
80

Mastic not analyzed, attached to ACM

**Lab No.:** 7562584  
**Client No.:** 5B  
**Analyst Observation:** Sample Not Analyzed  
**Client Description:** White VFT With Gray Mastic  
**Location:** North Kitchen  
**Facility:**  
Percent Asbestos:  
*Sample Not Analyzed*  
Percent Non-Asbestos Fibrous Material:  
Sample Not Analyzed  
Percent Non-Fibrous Material:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677291 - PLM  
Project: Nobel County; 308 W Cross St Summerfield  
Project No.: 089229.00.05

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562585      **Analyst Observation:** Grey Plaster      **Location:** South Kitchen  
**Client No.:** 6A      **Client Description:** Gray Plaster Wall System      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      5 Hair      95

**Lab No.:** 7562585(L2)      **Analyst Observation:** White Plaster      **Location:** South Kitchen  
**Client No.:** 6A      **Client Description:** Gray Plaster Wall System      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100


**Lab No.:** 7562586      **Analyst Observation:** Grey Plaster      **Location:** Center Room  
**Client No.:** 6B      **Client Description:** Gray Plaster Wall System      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      5 Hair      95

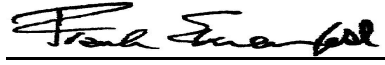
**Lab No.:** 7562586(L2)      **Analyst Observation:** White Plaster      **Location:** Center Room  
**Client No.:** 6B      **Client Description:** Gray Plaster Wall System      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562587      **Analyst Observation:** Grey Plaster      **Location:** North Room  
**Client No.:** 6C      **Client Description:** Gray Plaster Wall System      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562587(L2)      **Analyst Observation:** White Plaster      **Location:** North Room  
**Client No.:** 6C      **Client Description:** Gray Plaster Wall System      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677291 - PLM Project: Nobel County; 308 W Cross St Summerfield Project No.: 089229.00.05
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562587(L3) <b>Client No.:</b> 6C <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Brown Wall Cover <b>Client Description:</b> Gray Plaster Wall System <u>Percent Non-Asbestos Fibrous Material:</u> 100 Cellulose	<b>Location:</b> North Room <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> None Detected
<b>Lab No.:</b> 7562588 <b>Client No.:</b> 6D <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Plaster <b>Client Description:</b> Gray Plaster Wall System <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> South Center Room <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562588(L2) <b>Client No.:</b> 6D <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White Plaster <b>Client Description:</b> Gray Plaster Wall System <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> South Center Room <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562588(L3) <b>Client No.:</b> 6D <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Brown Wall Cover <b>Client Description:</b> Gray Plaster Wall System <u>Percent Non-Asbestos Fibrous Material:</u> 100 Cellulose	<b>Location:</b> South Center Room <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> None Detected
<b>Lab No.:</b> 7562589 <b>Client No.:</b> 6E <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Plaster <b>Client Description:</b> Gray Plaster Wall System <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Center Room <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562589(L2) <b>Client No.:</b> 6E <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White Plaster <b>Client Description:</b> Gray Plaster Wall System <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Center Room <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677291 - PLM  
Project: Nobel County; 308 W Cross St Summerfield  
Project No.: 089229.00.05

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562589(L3)	<b>Analyst Observation:</b> Brown Wall Cover	<b>Location:</b> Center Room
<b>Client No.:</b> 6E	<b>Client Description:</b> Gray Plaster Wall System	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	100 Cellulose	None Detected

<b>Lab No.:</b> 7562590	<b>Analyst Observation:</b> Grey Plaster	<b>Location:</b> East Room
<b>Client No.:</b> 6F	<b>Client Description:</b> Gray Plaster Wall System	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	5 Hair	95

<b>Lab No.:</b> 7562590(L2)	<b>Analyst Observation:</b> White Plaster	<b>Location:</b> East Room
<b>Client No.:</b> 6F	<b>Client Description:</b> Gray Plaster Wall System	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 7562591	<b>Analyst Observation:</b> Grey Plaster	<b>Location:</b> East Room
<b>Client No.:</b> 6G	<b>Client Description:</b> Gray Plaster Wall System	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	5 Hair	95

<b>Lab No.:</b> 7562591(L2)	<b>Analyst Observation:</b> White Plaster	<b>Location:</b> East Room
<b>Client No.:</b> 6G	<b>Client Description:</b> Gray Plaster Wall System	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 7562592	<b>Analyst Observation:</b> Grey Plaster	<b>Location:</b> South Kitchen
<b>Client No.:</b> 7A	<b>Client Description:</b> Plaster Ceiling System	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	5 Hair	95

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677291 - PLM  
Project: Nobel County; 308 W Cross St Summerfield  
Project No.: 089229.00.05

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562592(L2)	<b>Analyst Observation:</b> White Plaster	<b>Location:</b> South Kitchen
<b>Client No.:</b> 7A	<b>Client Description:</b> Plaster Ceiling System	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 7562592(L3)	<b>Analyst Observation:</b> Brown Wall Cover	<b>Location:</b> South Kitchen
<b>Client No.:</b> 7A	<b>Client Description:</b> Plaster Ceiling System	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	100 Cellulose	None Detected

<b>Lab No.:</b> 7562593	<b>Analyst Observation:</b> Grey Plaster	<b>Location:</b> Center Room
<b>Client No.:</b> 7B	<b>Client Description:</b> Plaster Ceiling System	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	2 Cellulose	98

<b>Lab No.:</b> 7562593(L2)	<b>Analyst Observation:</b> White Plaster	<b>Location:</b> Center Room
<b>Client No.:</b> 7B	<b>Client Description:</b> Plaster Ceiling System	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 7562594	<b>Analyst Observation:</b> Grey Plaster	<b>Location:</b> Center Room
<b>Client No.:</b> 7C	<b>Client Description:</b> Plaster Ceiling System	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	2 Cellulose	98

<b>Lab No.:</b> 7562594(L2)	<b>Analyst Observation:</b> White Plaster	<b>Location:</b> Center Room
<b>Client No.:</b> 7C	<b>Client Description:</b> Plaster Ceiling System	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677291 - PLM  
Project: Nobel County; 308 W Cross St Summerfield  
Project No.: 089229.00.05

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562595      **Analyst Observation:** Grey Plaster      **Location:** South Kitchen  
**Client No.:** 7D      **Client Description:** Plaster Ceiling System      **Facility:**  
**Percent Asbestos:**      **Percent Non-Asbestos Fibrous Material:**      **Percent Non-Fibrous Material:**  
*None Detected*      5 Hair      95

**Lab No.:** 7562595(L2)      **Analyst Observation:** White Plaster      **Location:** South Kitchen  
**Client No.:** 7D      **Client Description:** Plaster Ceiling System      **Facility:**  
**Percent Asbestos:**      **Percent Non-Asbestos Fibrous Material:**      **Percent Non-Fibrous Material:**  
*None Detected*      None Detected      100


**Lab No.:** 7562595(L3)      **Analyst Observation:** Brown Wall Cover      **Location:** South Kitchen  
**Client No.:** 7D      **Client Description:** Plaster Ceiling System      **Facility:**  
**Percent Asbestos:**      **Percent Non-Asbestos Fibrous Material:**      **Percent Non-Fibrous Material:**  
*None Detected*      100 Cellulose      None Detected

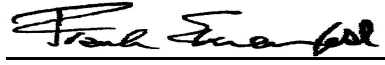
**Lab No.:** 7562596      **Analyst Observation:** Grey Plaster      **Location:** West Center Room  
**Client No.:** 7E      **Client Description:** Plaster Ceiling System      **Facility:**  
**Percent Asbestos:**      **Percent Non-Asbestos Fibrous Material:**      **Percent Non-Fibrous Material:**  
*None Detected*      2 Cellulose      98

**Lab No.:** 7562596(L2)      **Analyst Observation:** White Plaster      **Location:** West Center Room  
**Client No.:** 7E      **Client Description:** Plaster Ceiling System      **Facility:**  
**Percent Asbestos:**      **Percent Non-Asbestos Fibrous Material:**      **Percent Non-Fibrous Material:**  
*None Detected*      None Detected      100

**Lab No.:** 7562597      **Analyst Observation:** Grey Plaster      **Location:** East Room  
**Client No.:** 7F      **Client Description:** Plaster Ceiling System      **Facility:**  
**Percent Asbestos:**      **Percent Non-Asbestos Fibrous Material:**      **Percent Non-Fibrous Material:**  
*None Detected*      2 Cellulose      98

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677291 - PLM  
Project: Nobel County; 308 W Cross St Summerfield  
Project No.: 089229.00.05

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562597(L2)	<b>Analyst Observation:</b> White Plaster	<b>Location:</b> East Room
<b>Client No.:</b> 7F	<b>Client Description:</b> Plaster Ceiling System	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 7562598	<b>Analyst Observation:</b> Grey Plaster	<b>Location:</b> East Room
<b>Client No.:</b> 7G	<b>Client Description:</b> Plaster Ceiling System	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	2 Cellulose	98

<b>Lab No.:</b> 7562598(L2)	<b>Analyst Observation:</b> White Plaster	<b>Location:</b> East Room
<b>Client No.:</b> 7G	<b>Client Description:</b> Plaster Ceiling System	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 7562599	<b>Analyst Observation:</b> White Countertop	<b>Location:</b> Kitchen
<b>Client No.:</b> 8A	<b>Client Description:</b> White Countertop With Yellow Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 7562599(L2)	<b>Analyst Observation:</b> Yellow Mastic	<b>Location:</b> Kitchen
<b>Client No.:</b> 8A	<b>Client Description:</b> White Countertop With Yellow Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 7562600	<b>Analyst Observation:</b> White Countertop	<b>Location:</b> Kitchen
<b>Client No.:</b> 8B	<b>Client Description:</b> White Countertop With Yellow Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677291 - PLM  
Project: Nobel County; 308 W Cross St Summerfield  
Project No.: 089229.00.05

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562600(L2)      **Analyst Observation:** Yellow Mastic      **Location:** Kitchen  
**Client No.:** 8B      **Client Description:** White Countertop With Yellow Mastic      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562601      **Analyst Observation:** Grey Brick      **Location:** Kitchen Fireplace  
**Client No.:** 9A      **Client Description:** Gray Fireplace Brick With Gray Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100


**Lab No.:** 7562601(L2)      **Analyst Observation:** Grey Mortar      **Location:** Kitchen Fireplace  
**Client No.:** 9A      **Client Description:** Gray Fireplace Brick With Gray Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

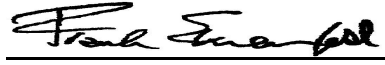
**Lab No.:** 7562602      **Analyst Observation:** Grey Brick      **Location:** Kitchen Fireplace  
**Client No.:** 9B      **Client Description:** Gray Fireplace Brick With Gray Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562602(L2)      **Analyst Observation:** Grey Mortar      **Location:** Kitchen Fireplace  
**Client No.:** 9B      **Client Description:** Gray Fireplace Brick With Gray Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562603      **Analyst Observation:** White Ceiling Tile      **Location:** Center Room  
**Client No.:** 10A      **Client Description:** 12x12 White CT      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      100 Cellulose      None Detected

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677291 - PLM  
Project: Nobel County; 308 W Cross St Summerfield  
Project No.: 089229.00.05

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7562604  
Client No.: 10B

**Analyst Observation:** White Ceiling Tile  
**Client Description:** 12x12 White CT

**Location:** Center Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
100 Cellulose

Percent Non-Fibrous Material:  
None Detected

Lab No.: 7562605  
Client No.: 11A

**Analyst Observation:** Grey Concrete  
**Client Description:** Gray Int Concrete Floor

**Location:** North Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Lab No.: 7562606  
Client No.: 11B

**Analyst Observation:** Grey Concrete  
**Client Description:** Gray Int Concrete Floor

**Location:** North Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Lab No.: 7562607  
Client No.: 12A

**Analyst Observation:** White Ceiling Tile  
**Client Description:** 2x2 White CT

**Location:** East Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
100 Cellulose

Percent Non-Fibrous Material:  
None Detected

Lab No.: 7562608  
Client No.: 12B

**Analyst Observation:** White Ceiling Tile  
**Client Description:** 2x2 White CT

**Location:** East Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
100 Cellulose

Percent Non-Fibrous Material:  
None Detected

Lab No.: 7562609  
Client No.: 13A

**Analyst Observation:** Red Brick  
**Client Description:** Red Brick With Gray Mortar

**Location:** Exterior South Box  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677291 - PLM  
Project: Nobel County; 308 W Cross St Summerfield  
Project No.: 089229.00.05

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562609(L2)	<b>Analyst Observation:</b> Grey Mortar	<b>Location:</b> Exterior South Box
<b>Client No.:</b> 13A	<b>Client Description:</b> Red Brick With Gray Mortar	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 7562610	<b>Analyst Observation:</b> Red Brick	<b>Location:</b> Exterior South Box
<b>Client No.:</b> 13B	<b>Client Description:</b> Red Brick With Gray Mortar	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


<b>Lab No.:</b> 7562610(L2)	<b>Analyst Observation:</b> Grey Mortar	<b>Location:</b> Exterior South Box
<b>Client No.:</b> 13B	<b>Client Description:</b> Red Brick With Gray Mortar	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

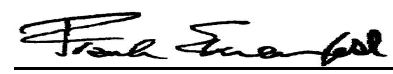
<b>Lab No.:</b> 7562611	<b>Analyst Observation:</b> Cream Caulk	<b>Location:</b> West Wall Exterior
<b>Client No.:</b> 14A	<b>Client Description:</b> Exterior Cream Window Caulk	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 7562612	<b>Analyst Observation:</b> Cream Caulk	<b>Location:</b> West Exterior Wall
<b>Client No.:</b> 14B	<b>Client Description:</b> Exterior Cream Window Caulk	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 7562613	<b>Analyst Observation:</b> White Drywall	<b>Location:</b> Center Room
<b>Client No.:</b> 15A	<b>Client Description:</b> Finished Dry Wall Wallboard System; White	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	5 Cellulose	95

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677291 - PLM  
Project: Nobel County; 308 W Cross St Summerfield  
Project No.: 089229.00.05

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562613(L2)	<b>Analyst Observation:</b> White Joint Compound	<b>Location:</b> Center Room
<b>Client No.:</b> 15A	<b>Client Description:</b> Finished Dry Wall Wallboard System; White	<b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562614	<b>Analyst Observation:</b> White Drywall	<b>Location:</b> Center Room
<b>Client No.:</b> 15B	<b>Client Description:</b> Finished Dry Wall Wallboard System; White	<b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose	<u>Percent Non-Fibrous Material:</u> 95


<b>Lab No.:</b> 7562614(L2)	<b>Analyst Observation:</b> White Joint Compound	<b>Location:</b> Center Room
<b>Client No.:</b> 15B	<b>Client Description:</b> Finished Dry Wall Wallboard System; White	<b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

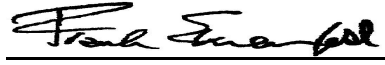
<b>Lab No.:</b> 7562615	<b>Analyst Observation:</b> White Drywall	<b>Location:</b> Center Room
<b>Client No.:</b> 15C	<b>Client Description:</b> Finished Dry Wall Wallboard System; White	<b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose	<u>Percent Non-Fibrous Material:</u> 95

<b>Lab No.:</b> 7562615(L2)	<b>Analyst Observation:</b> Grey Plaster	<b>Location:</b> Center Room
<b>Client No.:</b> 15C	<b>Client Description:</b> Finished Dry Wall Wallboard System; White	<b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562615(L3)	<b>Analyst Observation:</b> White Texture	<b>Location:</b> Center Room
<b>Client No.:</b> 15C	<b>Client Description:</b> Finished Dry Wall Wallboard System; White	<b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677291 - PLM  
Project: Nobel County; 308 W Cross St Summerfield  
Project No.: 089229.00.05

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562616  
**Client No.:** 16A

**Analyst Observation:** Green Shingle  
**Client Description:** Green Asphaltic Shingle Roofing System

**Location:** Extension Roof  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
15 Cellulose

Percent Non-Fibrous Material:  
85

**Lab No.:** 7562616(L2)  
**Client No.:** 16A

**Analyst Observation:** Black Tar Paper  
**Client Description:** Green Asphaltic Shingle Roofing System

**Location:** Extension Roof  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
40 Cellulose

Percent Non-Fibrous Material:  
60

**Lab No.:** 7562617  
**Client No.:** 16B

**Analyst Observation:** Green Shingle  
**Client Description:** Green Asphaltic Shingle Roofing System

**Location:** Side Porch Roof  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
15 Cellulose

Percent Non-Fibrous Material:  
85

**Lab No.:** 7562617(L2)  
**Client No.:** 16B

**Analyst Observation:** Black Tar Paper  
**Client Description:** Green Asphaltic Shingle Roofing System

**Location:** Side Porch Roof  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
40 Cellulose

Percent Non-Fibrous Material:  
60

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677291 - PLM  
Project: Nobel County; 308 W Cross St Summerfield  
Project No.: 089229.00.05

Client: SOI995

## Appendix to Analytical Report

**Customer Contact:** Davin Ojala

**Method:** 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, USEPA 600, R93-116 and NYSDOH ELAP 198.1 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

**iATL Customer Service:** customerservice@iatl.com

**iATL Office Manager:** wchampion@iatl.com

**iATL Account Representative:** Shirley Clark

**Sample Login Notes:** See Batch Sheet Attached

**Sample Matrix:** Bulk Building Materials

**Exceptions Noted:** See Following Pages

### General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at [www.iATL.com](http://www.iATL.com) and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

### Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

### Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB) See additional information at the end of this appendix.

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677291 - PLM  
Project: Nobel County; 308 W Cross St Summerfield  
Project No.: 089229.00.05

Client: SOI995

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)  
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

### Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at [customerservice@iatl.com](mailto:customerservice@iatl.com).

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

### Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gänge, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) [www.atsdr.cdc.gov](http://www.atsdr.cdc.gov), United States Geological Survey (USGS) [www.minerals.usgs.gov/minerals/](http://www.minerals.usgs.gov/minerals/), US EPA [www.epa.gov/asbestos](http://www.epa.gov/asbestos). The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite ([https://www.wadsworth.org/sites/default/files/WebDoc/I198\\_8\\_02\\_2.pdf](https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf))

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1) **Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116  
**Requirements/Comments:** Minimum of 0.1 g of sample. ~0.25% for most samples.

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677291 - PLM  
Project: Nobel County; 308 W Cross St Summerfield  
Project No.: 089229.00.05

Client: SOI995

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Suspension" only.

\*With advance notice and confirmation by the laboratory.

\*\*Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM CERTIFICATION MANUAL - ITEM No. 198.1, Revision Date 5/6/16)

\*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other than SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% vermiculite.

Statistically derived uncertainty with any measure should be taken into consideration when reviewing and interpreting all reported data and results. A more comprehensive listing of accuracy, precision, and uncertainty as it impacts this method is available upon request.

**APPENDIX C**  
**114 NORTH MAIN STREET, SUMMERFIELD, OHIO**



## **ASBESTOS ASSESSMENT SUMMARY**

### **114 NORTH MAIN STREET, SUMMERFIELD, OHIO**

#### **SITE DESCRIPTION AND STRUCTURE CONDITION**

The 114 North Main Street site was located east of North Main Street between Farley Park Road (north) and Farley Park Road (south) in Summerfield, Ohio. The site was developed with an approximately 2,000 square-foot, single-story, residential structure with a basement and was unoccupied at the time of our assessment. Water damage was observed throughout the eastern portion of the first floor and basement, and holes to the basement were observed in the first floor. It was unsafe for our staff to access the east interior portion of the structure.

#### **ASBESTOS SAMPLING RESULTS**

The United States Environmental Protection Agency (USEPA) and the Occupational Safety and Health Administration (OSHA) asbestos regulations define an ACM as any material that contains greater than one percent asbestos. Suspect ACMs not analyzed for asbestos content are considered assumed ACMs. According to the USEPA National Emission Standard for Hazardous Air Pollutants asbestos regulation (NESHAP, 40 CFR Part 61 M), friable ACMs and nonfriable ACMs which could be expected to be disturbed and become friable are considered Regulated Asbestos Containing Materials (RACMs) and must be removed prior to demolition activities. Nonfriable ACMs, if in good condition and not subjected to forces that would render them friable, are permitted by USEPA to remain in a structure during demolition. According to the OSHA Asbestos Construction Standard, demolition activities involving ACMs must be conducted by trained personnel in accordance with the standard and in accordance with the Ohio Administrative Code (OAC). Refer to the following section and Section 2.3.1 of the report for additional information regarding asbestos work requirements and notifications.

Materials containing trace asbestos (equal to or less than one percent asbestos) are not considered RACM or ACM but are subject to the engineering and work practice requirements of paragraphs (g)(1), (g)(2), and (g)(3) of the OSHA Asbestos Construction Standard.

A summary of the descriptions of suspect ACMs identified, RACM, ACM, Trace Asbestos, or non-ACM categorization of the materials, estimated quantity, friability, condition, and locations of the materials sampled is presented in the attached Table 1.

#### **SITE-SPECIFIC LIMITATIONS AND PROJECT CONSIDERATIONS**

Due to the observed water damaged walls and floors, and the holes in the first floor, SME was unable to safely assess the interior of the east portion of the structure for the presence of ACMs but assessed the west portion of the first floor and basement and the exterior of the structure. Whenever such a structure is demolished and no prior asbestos building inspection or abatement was performed because the structure could not be safely assessed/abated, all the demolition debris must be treated as RACM and must be disposed of in an Ohio Environmental Protection Agency (OEPA) approved asbestos waste disposal site. Because, in this scenario, the material is to be treated/disposed of as RACM, an OEPA licensed Asbestos Hazard Abatement Contractor must be on-site to oversee removal and packaging of the waste per OAC rule 3745-22-02.



The municipality is responsible for issuing an Emergency Demolition Order or Ordered Demolition Order to be submitted with the OEPA emergency/ordered Notification of Demolition and Renovation/Abatement form. The OAC rule 3745-20-01(B)(17) defines an emergency demolition as any demolition operation conducted under a written order issued by a state or local governmental agency because a facility is structurally unsound and in danger of imminent collapse. While ordered demolitions are not defined in the OAC asbestos rules, OEPA recognizes that certain structures are unsafe to enter to perform an asbestos building inspection and/or remove ACM even though the building is not in danger of imminent collapse.

Both emergency demolitions and ordered demolitions must be ordered in writing by a government authority and a copy of the order submitted to OEPA with the Notification of Demolition and Renovation/Abatement form. Refer to the attached OEPA Roles and Responsibilities for Emergency Demolitions and Ordered Demolitions guidance document for specific information to be included in the demolition notification.

## RECOMMENDATIONS

- We recommend a qualified professional for the City of Summerfield perform a structural evaluation of the site structure and issue a written Emergency Demolition Order or Ordered Demolition Order, as appropriate. A copy of the written order must be submitted with the OEPA emergency/ordered Notification of Demolition and Renovation/Abatement form.
- We recommend demolition of the structure by a licensed Asbestos Hazard Abatement Contractor, supervised by a 40-hour trained asbestos supervisor accredited by the OEPA, and conducted in accordance with the OSHA Asbestos Construction Standard. Dispose of all demolition debris as asbestos waste.
- If the identified nonfriable ACMs which are not likely to be rendered friable during demolition will be removed prior to demolition, we recommend that they be removed by a licensed asbestos contractor, and in accordance with the asbestos work requirements of the OSHA Asbestos Construction Standard. If one or more of these nonfriable ACMs will remain intact during demolition, we recommend that the demolition activities be conducted by staff trained to conduct demolition involving those ACMs, supervised by a 40-hour trained asbestos supervisor accredited by the OEPA and conducted in accordance with the OSHA Asbestos Construction Standard.
- We recommend proper notification to the OEPA prior to removal of ACMs and demolition of the structure including a copy of an Emergency Demolition Order or Ordered Demolition Order prepared by a qualified city official.
- We recommend asbestos abatement project design by an Asbestos Hazard Abatement Project Designer that is trained in accordance with USEPA requirements and accredited by the OEPA. We also recommend monitoring asbestos removal work or disturbance with air sampling, visual verification, and clearance air monitoring performed by an independent third party (such as SME). We recommend notification of the presence, quantity, and location of ACMs and communication of the hazards associated with them in accordance.

## ASBESTOS BULK SAMPLING RESULTS TABLE

**TABLE 1  
ASBESTOS BULK SAMPLING RESULTS  
114 NORTH MAIN STREET, SUMMERFIELD, OHIO  
SME PROJECT NUMBER: 089229.00.005**

The quantities presented in this table are intended to be “Order of Magnitude” estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
1	White wallboard wall system (did not observe joint compound)  White drywall	Non-ACM	900 sq. ft.	Nonfriable	Good	Throughout
2	2' x 2' white textured ceiling tile  White texture	Non-ACM Non-ACM	300 sq. ft.	Friable	Significantly Damaged	Living room
3	Red brick  White mortar	Non-ACM Non-ACM	20 sq. ft.	Nonfriable	Good	Fireplace
4	Grey concrete coating behind fireplace	<b>ACM</b>	40 sq. ft.	Nonfriable	Good	Fireplace
5	White wallboard ceiling system (did not observe joint compound)  White drywall	Non-ACM	250 sq. ft.	Nonfriable	Significantly Damaged	Throughout
6	12" x 12" white ceiling tile	Non-ACM	170 sq. ft.	Friable	Significantly Damaged	Central
7	Pink vinyl wall tile	Not Sampled  <b>Assumed ACM</b>	100 sq. ft.	Nonfriable	Damaged	Bathroom
8	Yellow attic insulation	Non-ACM	1,500 sq. ft.	Friable	Significantly Damaged	Throughout
9	White 12" x 12" vinyl floor tile  Clear mastic	Non-ACM Non-ACM	65 sq. ft.	Nonfriable	Good	Basement
10	12" x 12" faux wood vinyl floor tile  Clear mastic	Non-ACM Non-ACM	50 sq. ft.	Nonfriable	Damaged	Basement

**TABLE 1  
ASBESTOS BULK SAMPLING RESULTS  
114 NORTH MAIN STREET, SUMMERFIELD, OHIO  
SME PROJECT NUMBER: 089229.00.005**

The quantities presented in this table are intended to be “Order of Magnitude” estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
11	12" x 12" white textured ceiling tile	Non-ACM	50 sq. ft.	Friable	Damaged	Basement
12	Unfinished wallboard wall system  Brown wallboard	Non-ACM	35 sq. ft.	Nonfriable	Damaged	Basement
13	Yellow wall insulation	Non-ACM	45 sq. ft.	Friable	Good	Basement
14	Gray concrete	Non-ACM	200 sq. ft.	Nonfriable	Damaged	Basement
15	Black asphalt shingle roofing system  Black shingle  Black tar	Non-ACM  Non-ACM	1,300 sq. ft.	Nonfriable	Damaged	Roof
16	Gray exterior concrete	Non-ACM	200 sq. ft.	Nonfriable	Good	Front porch
17	Gray CMU block  Gray mortar	Non-ACM  Non-ACM	100 sq. ft.	Nonfriable	Good	Exterior
18	Gray asphaltic shingle roofing system  Gray shingle  Black tar	Non-ACM  Non-ACM	200 sq. ft.	Nonfriable	Significantly Damaged	Exterior collapsed porch
19	Plaster white ceiling system  Tan plaster	Non-ACM	500 sq. ft.	Nonfriable	Good	Living room

**NOTES:**

HA = Homogenous Area.

**RACM** = Regulated Asbestos-Containing Material. Must be removed from the building prior to demolition.

**ACM** = Asbestos-Containing Material as defined by USEPA and OSHA definition.

**Trace Asbestos** = Equal to or less than 1% asbestos detected.

Friable = Material that can be crumbled or reduced to powder by hand pressure.

NQ = Not quantified

Material conditions are described as defined in AHERA, 40 CFR Part 763.

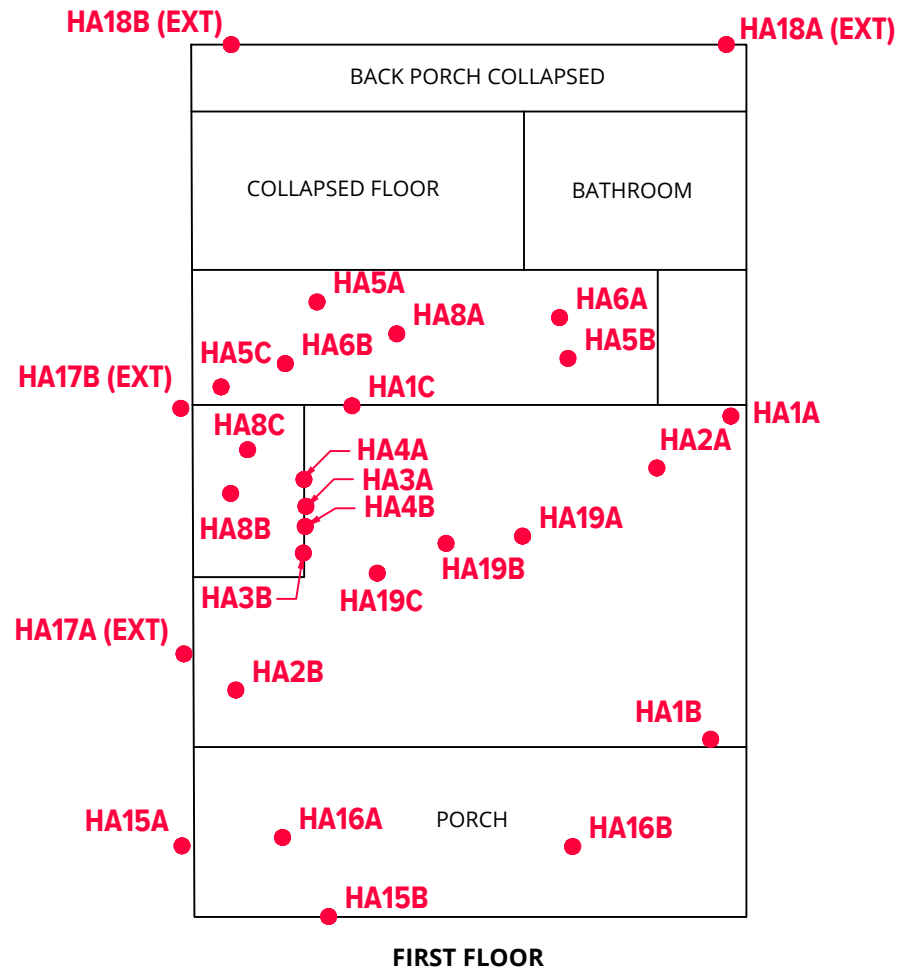
In. ft. = linear feet

sq. ft. = square feet

cu. ft.= cubic feet

\* = Estimate of visible, accessible materials. Additional quantities and materials may be present in concealed spaces not assessed

## SAMPLE LOCATION DIAGRAMS



**LEGEND**

● BULK ASBESTOS SAMPLE

NOTE:  
 1. BUILDING FEATURES AND SAMPLE LOCATIONS ARE APPROXIMATE.

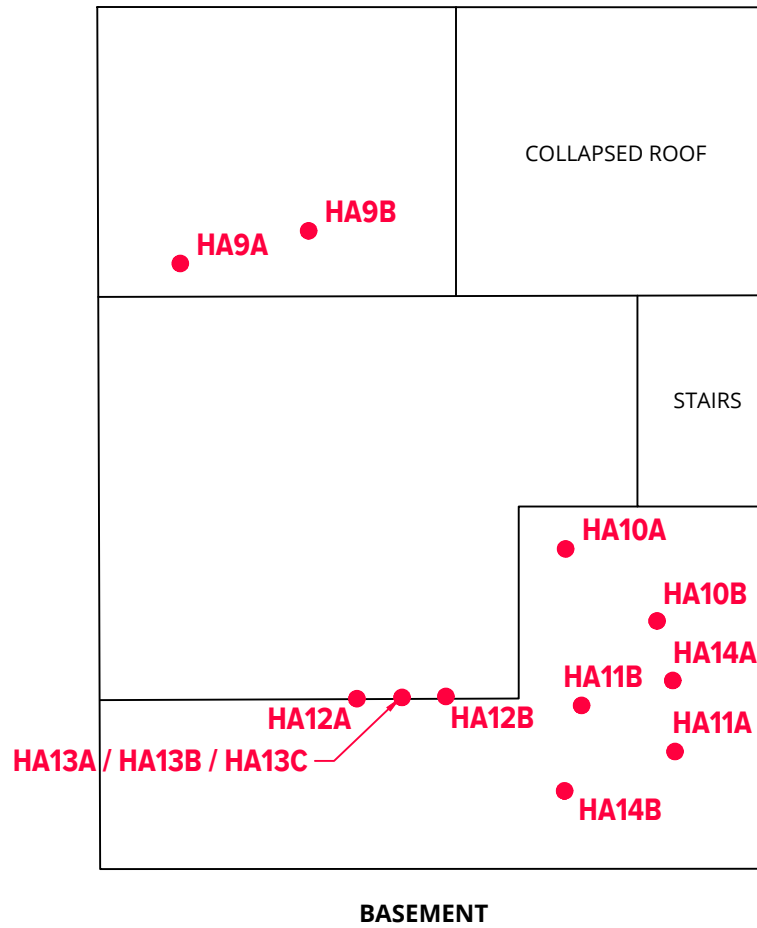


No.	Revision Date	Date	02-07-2023
		Drawn By	CRC
		Designed By	KP
		Scale	Not To Scale
		Project	089229.00.005

**ASBESTOS ASSESSMENT SAMPLE LOCATION DIAGRAM**  
**NOBLE CO ENVIRONMENTAL CONSULTING**  
**114 NORTH MAIN STREET**  
**SUMMERFIELD, OHIO**



**Figure No. 3A**



**LEGEND**

● BULK ASBESTOS SAMPLE

NOTE:  
 1. BUILDING FEATURES AND SAMPLE LOCATIONS ARE APPROXIMATE.



No.	Revision Date	Date	02-07-2023
	Drawn By	CRC	
	Designed By	KP	
	Scale	Not To Scale	
	Project	089229.00.005	

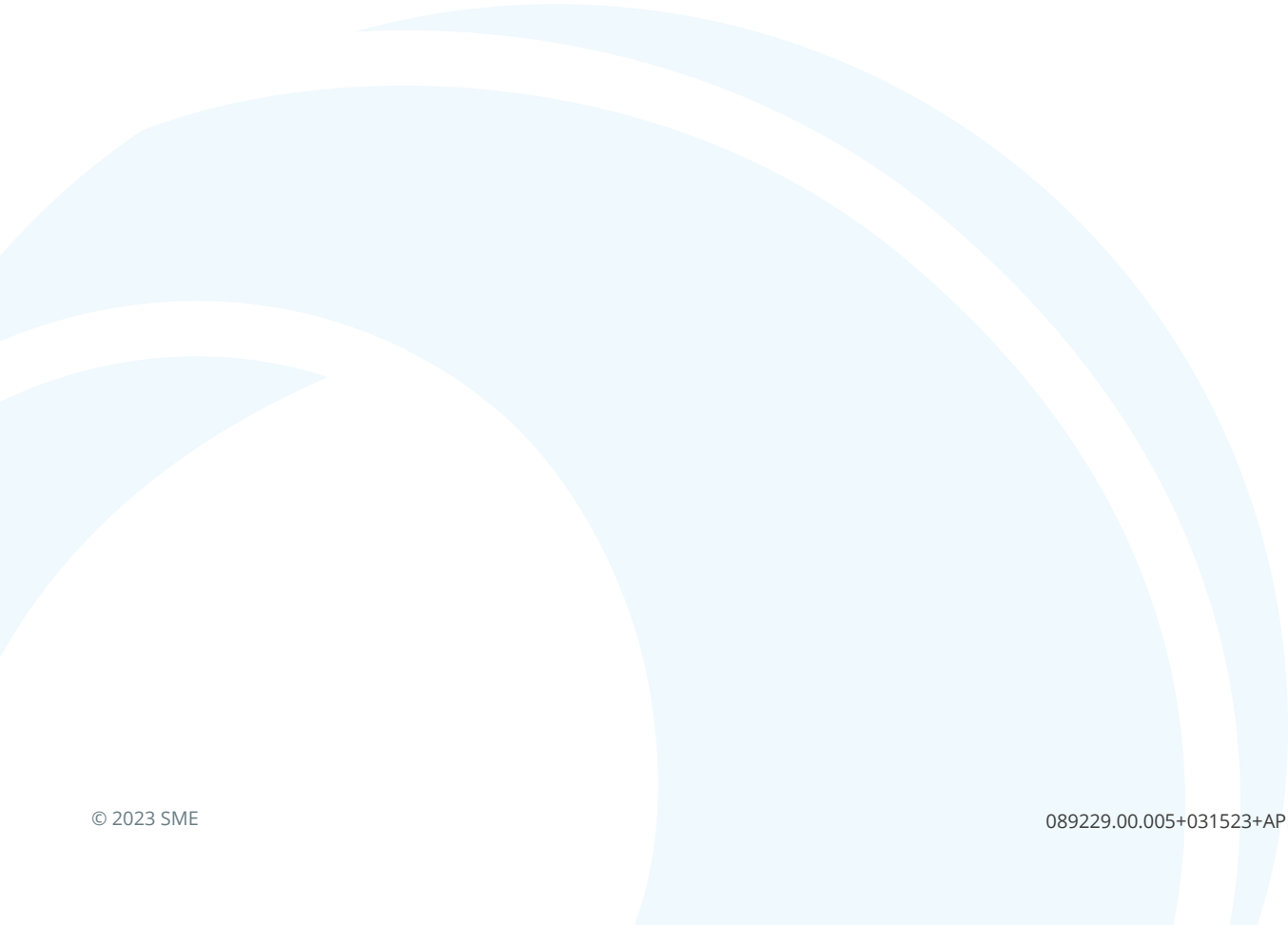
**ASBESTOS ASSESSMENT SAMPLE LOCATION DIAGRAM**  
**NOBLE CO ENVIRONMENTAL CONSULTING**  
**114 NORTH MAIN STREET**  
**SUMMERFIELD, OHIO**



**Figure No. 3B**



**CERTIFICATE OF ANALYSIS  
CHAIN OF CUSTODY FORM**



\* 5,19411011 payo \*



9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054  
Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

# Chain of Custody

-Bulk Asbestos -

<b>Contact Information</b>	
<b>Client Company:</b> <u>SME</u>	<b>Project Number:</b> <u>089229.00.05</u>
<b>Office Address:</b> <u>4401 Lyman Drive St C</u>	<b>Project Name:</b> <u>Noble County</u>
<b>City, State, Zip:</b> <u>Hilliard, Ohio, 43026</u>	<b>Primary Contact:</b> <u>Kelsea Pohl</u>
<b>Fax Number:</b> _____	<b>Office Phone:</b> _____
<b>Email Address:</b> <u>kelsea.pohl@sme-usa.com</u>	<b>Cell Phone:</b> <u>216 536 2581</u>

**PLM Instructions:**

- PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993
- PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982
- PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010
- TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009

- PLM: Point Counting
  - PC: via ELAP 198.1
  - PC: 400 Points
  - PC: 800 Points \*
  - PC: 1600 Points \*
- PLM: Analyze Until Positive (Positive Stop)
  - AUP: by Homogenous Area as Noted
  - AUP: by Material Type as Noted
- PLM: NOB via 198.6
  - PLM: Friable via EPA 600 2.3
  - If <1% by PLM, to TEM via 198.4 \*
  - If <1% by PLM, Hold for Instructions
- PLM: Instructions for Multi-Layered Samples
  - Analyze and Report All Separable Layers per EPA 600
  - Report Composite for Drywall Systems per NESHAP
  - Report All Layers and Composite Where Applicable
  - Only Analyze and Report Specifically Noted Layer
- PLM: Non-Building Material<sup>\*,\*\*</sup> (Dust, Wipe, Tape)
  - Soil or Vermiculite Analysis<sup>\*</sup>
  - CARB 435

**Special Instructions:** Perform completed tiered analysis of sinks and suspension via PLM and TEM

\* Additional charge and turnaround may be required    \*\* Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory

**Turnaround Time**

Preliminary Results Requested Date: \_\_\_\_\_

Specific date / time

10 Day    5 Day    3 Day    2 Day    1 Day\*    12 Hour\*\*    6 Hour\*\*    RUSH\*\*

Verbal    Email    Fax

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\*

**Chain of Custody**

Relinquished (Name/Organization): <u>CVT Woods SME</u>	Date: <u>1/30/23</u>	Time: <u>3:00 PM</u>
Received (Name / iATL): _____	Date: _____	Time: _____
Sample Login (Name / iATL): _____	Date: _____	Time: _____
Analysis(Name(s) / iATL): _____	Date: _____	Time: _____
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____
		Time: _____



## Chain of Custody

-Bulk Asbestos -

<b>Contact Information</b>	
<b>Client Company:</b> <u>SME</u>	<b>Project Number:</b> <u>089229.00.05</u>
<b>Office Address:</b> <u>4401 Lyman Drive St C</u>	<b>Project Name:</b> <u>Noble County</u>
<b>City, State, Zip:</b> <u>Hilliard, Ohio, 43026</u>	<b>Primary Contact:</b> <u>Kelsea Pohl</u>
<b>Fax Number:</b> _____	<b>Office Phone:</b> _____
<b>Email Address:</b> <u>kelsea.pohl@sme-usa.com</u>	<b>Cell Phone:</b> <u>216 536 2581</u>

**PLM Instructions:**

- PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993
- PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982
- PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010
- TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009

- PLM: Point Counting
  - PC: via ELAP 198.1
  - PC: 400 Points
  - PC: 800 Points \*
  - PC: 1600 Points \*
- PLM: Analyze Until Positive (Positive Stop)
  - AUP: by Homogenous Area as Noted
  - AUP: by Material Type as Noted
- PLM: NOB via 198.6
  - PLM: Friable via EPA 600 2.3
  - If <1% by PLM, to TEM via 198.4 \*
  - If <1% by PLM, Hold for Instructions
- PLM: Instructions for Multi-Layered Samples
  - Analyze and Report All Separable Layers per EPA 600
  - Report Composite for Drywall Systems per NESHAP
  - Report All Layers and Composite Where Applicable
  - Only Analyze and Report Specifically Noted Layer
- PLM: Non-Building Material \*\*\* (Dust, Wipe, Tape)
  - Soil or Vermiculite Analysis \*
  - CARB 435

**Special Instructions:** REFER TO ATTACHED SME CHAIN OF CUSTODY FOR ANALYSIS INSTRUCTIONS

\* Additional charge and turnaround may be required    \*\* Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory

**Turnaround Time**

Preliminary Results Requested Date: \_\_\_\_\_

Specific date / time

10 Day  
  5 Day  
  3 Day  
  2 Day  
  1 Day\*  
  12 Hour\*\*  
  6 Hour\*\*  
  RUSH\*\*

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\*

**Chain of Custody**

Relinquished (Name/Organization): <u>CAYIA WOODS SME</u>	Date: <u>1/30/23</u>	Time: <u>3:00 PM</u>	
Received (Name / iATL): _____	Date: _____	Time: _____	
Sample Login (Name / iATL): _____	Date: _____	Time: _____	
Analysis(Name(s) / iATL): _____	Date: _____	Time: _____	
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____	
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____	Time: _____

RECEIVED  
FEB -4 2023

MR - 2/17/23

## Chain of Custody

-Bulk Asbestos -

<b>Contact Information</b>	
<b>Client Company:</b> <u>SME</u>	<b>Project Number:</b> <u>089229.00.05</u>
<b>Office Address:</b> <u>4401 Lyman Drive St C</u>	<b>Project Name:</b> <u>Noble County</u>
<b>City, State, Zip:</b> <u>Hilliard, Ohio, 43026</u>	<b>Primary Contact:</b> <u>Kelsea Pohl</u>
<b>Fax Number:</b> _____	<b>Office Phone:</b> _____
<b>Email Address:</b> <u>kelsea.pohl@sme-usa.com</u>	<b>Cell Phone:</b> <u>216 536 2581</u>

<b>PLM Instructions:</b>	
<input checked="" type="checkbox"/> PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010	
<input type="checkbox"/> TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009	
<input type="checkbox"/> PLM: Point Counting	<input type="checkbox"/> PLM: Analyze Until Positive (Positive Stop)
<input type="checkbox"/> PC: via ELAP 198.1	<input type="checkbox"/> AUP: by Homogenous Area as Noted
<input checked="" type="checkbox"/> PC: 400 Points	<input type="checkbox"/> AUP: by Material Type as Noted
<input type="checkbox"/> PC: 800 Points *	<input type="checkbox"/> PLM: NOB via 198.6
<input type="checkbox"/> PC: 1600 Points *	<input type="checkbox"/> PLM: Friable via EPA 600 2.3
<input type="checkbox"/> PLM: Instructions for Multi-Layered Samples	<input type="checkbox"/> If <1% by PLM, to TEM via 198.4 *
<input type="checkbox"/> Analyze and Report All Separable Layers per EPA 600	<input type="checkbox"/> If <1% by PLM, Hold for Instructions
<input type="checkbox"/> Report Composite for Drywall Systems per NESHAP	<input type="checkbox"/> PLM: Non-Building Material <sup>*,**</sup> (Dust, Wipe, Tape)
<input type="checkbox"/> Report All Layers and Composite Where Applicable	<input type="checkbox"/> Soil or Vermiculite Analysis <sup>*</sup>
<input type="checkbox"/> Only Analyze and Report Specifically Noted Layer	<input type="checkbox"/> CARB 435
<b>Special Instructions:</b> <u>REFER TO ATTACHED SME CHAIN OF CUSTODY FOR ANALYSIS INSTRUCTIONS</u>	
* Additional charge and turnaround may be required    ** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory	

<b>Turnaround Time</b>	
Preliminary Results Requested Date: _____	<input type="checkbox"/> Verbal <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax
Specific date / time	
<input checked="" type="checkbox"/> 10 Day <input type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day* <input type="checkbox"/> 12 Hour** <input type="checkbox"/> 6 Hour** <input type="checkbox"/> RUSH**	
* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***	

<b>Chain of Custody</b>			
Relinquished (Name/Organization): <u>CAYWOOD'S SME</u>	Date: <u>1/30/23</u>	Time: <u>3:00 PM</u>	
Received (Name / iATL): _____	Date: _____	Time: _____	
Sample Login (Name / iATL): _____	Date: _____	Time: _____	
Analysis (Name(s) / iATL): <u>JACKSON</u>	Date: <u>2/10/23</u>	Time: _____	
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____	
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____	Time: _____

## Chain of Custody

-Bulk Asbestos -

### Contact Information

<b>Client Company:</b> <u>SME</u>	<b>Project Number:</b> <u>089229.00.05</u>
<b>Office Address:</b> <u>4401 Lyman Drive St C</u>	<b>Project Name:</b> <u>Noble County</u>
<b>City, State, Zip:</b> <u>Hilliard, Ohio, 43026</u>	<b>Primary Contact:</b> <u>Kelsea Pohl</u>
<b>Fax Number:</b> _____	<b>Office Phone:</b> _____
<b>Email Address:</b> <u>kelsea.pohl@sme-usa.com</u>	<b>Cell Phone:</b> <u>216 536 2581</u>

### PLM Instructions:

- PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993
- PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982
- PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010
- TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009
  
- PLM: Point Counting
  - PC: via ELAP 198.1
  - PC: 400 Points
  - PC: 800 Points \*
  - PC: 1600 Points \*
- PLM: Analyze Until Positive (Positive Stop)
  - AUP: by Homogenous Area as Noted
  - AUP: by Material Type as Noted
- PLM: NOB via 198.6
  - PLM: Friable via EPA 600 2.3
  - If <1% by PLM, to TEM via 198.4 \*
  - If <1% by PLM, Hold for Instructions
- PLM: Instructions for Multi-Layered Samples
  - Analyze and Report All Separable Layers per EPA 600
  - Report Composite for Drywall Systems per NESHAP
  - Report All Layers and Composite Where Applicable
  - Only Analyze and Report Specifically Noted Layer
- PLM: Non-Building Material\*\*\* (Dust, Wipe, Tape)
  - Soil or Vermiculite Analysis\*
  - CARB 435

**Special Instructions:** REFER TO ATTACHED SME CHAIN OF CUSTODY FOR ANALYSIS INSTRUCTIONS

\* Additional charge and turnaround may be required    \*\* Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory

### Turnaround Time

Preliminary Results Requested Date: \_\_\_\_\_  Verbal  Email  Fax

Specific date / time

10 Day    5 Day    3 Day    2 Day    1 Day\*    12 Hour\*\*    6 Hour\*\*    RUSH\*\*

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\*

### Chain of Custody

Relinquished (Name/Organization): <u>CONIWOODS SME</u>	Date: <u>1/30/23</u>	Time: <u>3:00 PM</u>	
Received (Name / iATL): _____	Date: _____	Time: _____	
Sample Login (Name / iATL): _____	Date: _____	Time: _____	
Analysis(Name(s) / iATL): <u>CSA 110-23</u>	Date: _____	Time: _____	
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____	
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____	Time: _____

RECEIVED

L  
FEB 1 2023  
L

## Chain of Custody

-Bulk Asbestos -

<u>Contact Information</u>	
Client Company: <u>SME</u>	Project Number: <u>089229.00.05</u>
Office Address: <u>4401 Lyman Drive St C</u>	Project Name: <u>Noble County</u>
City, State, Zip: <u>Hilliard, Ohio, 43026</u>	Primary Contact: <u>Kelsea Pohl</u>
Fax Number: _____	Office Phone: _____
Email Address: <u>kelsea.pohl@sme-usa.com</u>	Cell Phone: <u>216 536 2581</u>

<u>PLM Instructions:</u>	
<input checked="" type="checkbox"/> PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993	<input type="checkbox"/> PLM: Analyze Until Positive (Positive Stop)
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982	<input type="checkbox"/> AUP: by Homogenous Area as Noted
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985	<input type="checkbox"/> AUP: by Material Type as Noted
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002	<input type="checkbox"/> PLM: NOB via 198.6
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010	<input type="checkbox"/> PLM: Friable via EPA 600 2.3
<input type="checkbox"/> TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009	<input type="checkbox"/> If <1% by PLM, to TEM via 198.4 *
<input type="checkbox"/> PLM: Point Counting	<input type="checkbox"/> If <1% by PLM, Hold for Instructions
<input type="checkbox"/> PC: via ELAP 198.1	<input type="checkbox"/> PLM: Non-Building Material*** (Dust, Wipe, Tape)
<input checked="" type="checkbox"/> PC: 400 Points	<input type="checkbox"/> Soil or Vermiculite Analysis*
<input type="checkbox"/> PC: 800 Points *	<input type="checkbox"/> CARB 435
<input type="checkbox"/> PC: 1600 Points *	
<input type="checkbox"/> PLM: Instructions for Multi-Layered Samples	
<input type="checkbox"/> Analyze and Report All Separable Layers per EPA 600	
<input type="checkbox"/> Report Composite for Drywall Systems per NESHAP	
<input type="checkbox"/> Report All Layers and Composite Where Applicable	
<input type="checkbox"/> Only Analyze and Report Specifically Noted Layer	
<b>Special Instructions:</b> <u>REFER TO ATTACHED SME CHAIN OF CUSTODY FOR ANALYSIS INSTRUCTIONS</u>	
* Additional charge and turnaround may be required    ** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory	

<u>Turnaround Time</u>	
Preliminary Results Requested Date: _____	<input type="checkbox"/> Verbal <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax
<div style="text-align: center; font-size: small;">Specific date / time</div> <input checked="" type="checkbox"/> 10 Day <input type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day* <input type="checkbox"/> 12 Hour** <input type="checkbox"/> 6 Hour** <input type="checkbox"/> RUSH**	
* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***	

<u>Chain of Custody</u>			
Relinquished (Name/Organization): <u>CAYIAWOOD'S SME</u>	Date: <u>1/30/23</u>	Time: <u>3:01 PM</u>	
Received (Name / iATL): _____	Date: _____	Time: _____	
Sample Login (Name / iATL): _____	Date: _____	Time: _____	
Analysis(Name(s) / iATL): _____	Date: _____	Time: _____	
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____	
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____	Time: _____

## Chain of Custody

-Bulk Asbestos -

<b>Contact Information</b>	
<b>Client Company:</b> <u>SME</u>	<b>Project Number:</b> <u>089229.00.05</u>
<b>Office Address:</b> <u>4401 Lyman Drive St C</u>	<b>Project Name:</b> <u>Noble County</u>
<b>City, State, Zip:</b> <u>Hilliard, Ohio, 43026</u>	<b>Primary Contact:</b> <u>Kelsea Pohl</u>
<b>Fax Number:</b> _____	<b>Office Phone:</b> _____
<b>Email Address:</b> <u>kelsea.pohl@sme-usa.com</u>	<b>Cell Phone:</b> <u>216 536 2581</u>

<b>PLM Instructions:</b>	
<input checked="" type="checkbox"/> PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010	
<input type="checkbox"/> TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009	
<input type="checkbox"/> PLM: Point Counting	<input type="checkbox"/> PLM: Analyze Until Positive (Positive Stop)
<input type="checkbox"/> PC: via ELAP 198.1	<input type="checkbox"/> AUP: by Homogenous Area as Noted
<input checked="" type="checkbox"/> PC: 400 Points	<input type="checkbox"/> AUP: by Material Type as Noted
<input type="checkbox"/> PC: 800 Points *	<input type="checkbox"/> PLM: NOB via 198.6
<input type="checkbox"/> PC: 1600 Points *	<input type="checkbox"/> PLM: Friable via EPA 600 2.3
<input type="checkbox"/> PLM: Instructions for Multi-Layered Samples	<input type="checkbox"/> If <1% by PLM, to TEM via 198.4 *
<input type="checkbox"/> Analyze and Report All Separable Layers per EPA 600	<input type="checkbox"/> If <1% by PLM, Hold for Instructions
<input type="checkbox"/> Report Composite for Drywall Systems per NESHAP	<input type="checkbox"/> PLM: Non-Building Material*** (Dust, Wipe, Tape)
<input type="checkbox"/> Report All Layers and Composite Where Applicable	<input type="checkbox"/> Soil or Vermiculite Analysis*
<input type="checkbox"/> Only Analyze and Report Specifically Noted Layer	<input type="checkbox"/> CARB 435
<b>Special Instructions:</b> <u>REFER TO ATTACHED SME CHAIN OF CUSTODY FOR ANALYSIS INSTRUCTIONS</u>	
* Additional charge and turnaround may be required      ** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory	

<b>Turnaround Time</b>	
Preliminary Results Requested Date: _____	<input type="checkbox"/> Verbal <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax
<input checked="" type="checkbox"/> 10 Day <input type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day* <input type="checkbox"/> 12 Hour** <input type="checkbox"/> 6 Hour** <input type="checkbox"/> RUSH**	
* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***	

<b>Chain of Custody</b>			
Relinquished (Name/Organization): <u>CAYIA WOODS SME</u>	Date: <u>1/30/23</u>	Time: <u>3:01 PM</u>	
Received (Name / iATL): _____	Date: _____	Time: _____	
Sample Login (Name / iATL): _____	Date: _____	Time: _____	
Analysis (Name(s) / iATL): <u>[Signature]</u>	Date: <u>2/16/23</u>	Time: _____	
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____	
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____	Time: _____





# CHAIN OF CUSTODY LOG

4401 Lyman Drive, St C  
Hilliard, OH, 43026  
Phone 614-705-2250  
FAX 614-705-2250

CLIENT NAME: Noble County  
SITE ADDRESS: 114 North Main Street, Summerfield

BULK SAMPLE ANALYSIS REQUESTED: EPA 600R-93/116, 1993 with PLM Point Counting PC: 400 points

Note: Multiple samples of each homogeneous area may have been collected. If asbestos is detected at greater than 1% in first sample, DO NOT analyze subsequent samples from that area with exception of plaster and wallboard system samples. Please analyze all plaster and wallboard system samples, and provide individual layer analysis for each sample. If asbestos is detected in an individual layer of a wallboard system sample, please provide composite analysis. Please provide mastic analysis for floor tile samples. Treat mastic as a separate homogeneous area. For each thermal system insulation sample, please analyze the insulation portion(s) of each sample first. If asbestos is detected at 1% or greater do not analyze the insulation covering layer of the sample. Please provide the insulation covering analysis for thermal system insulation samples where asbestos is not detected in insulation layer(s) or where asbestos is detected at less than 1%.

AREA #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	#
-				1
				2
				3
				4
				5
-				6
				7
				8
				9
				10
-				11
				12
				13
				14
				15
-				16
				17
				18
				19
				20
-				21
				22
				23
				24
				25
-				26
				27
				28
				29
				30
-				31

RELINQUISHED BY: Cayla Woods SME DATE: 11/30/23 TIME: 3:00pm  
RECEIVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

Please provide 10 day turnaround, emailed to Kelsea Pohl at [Kelsea.pohl@sme-usa.com](mailto:Kelsea.pohl@sme-usa.com).

**SME USE ONLY**

Date Sampled: 11/24/23

SME Project #: 089229.00.05



CHAIN OF CUSTODY LOG

Project: 114 N Main Street

Address:

Project No: 089229.00.005.01

Date Sampled: 01/24/2023

Note: Multiple samples of each homogeneous area may have been collected. If asbestos is detected at greater than 1% in first sample, DO NOT analyze subsequent samples from that area with exception of plaster samples, wallboard system samples, and spray applied fireproofing (SAFP) samples. Please analyze all plaster, wallboard, and SAFP samples, and provide individual layer analysis for each sample. If asbestos is detected at a concentration greater than 1% in an individual layer of a wallboard system sample, please provide composite analysis for that sample. Please provide mastic analysis for floor tile samples. Treat mastic as a separate homogeneous area. For each thermal system insulation sample, please analyze the insulation portion(s) of each sample first. If asbestos is detected at 1% or greater do not analyze the insulation covering layer of the sample. Please provide the insulation covering analysis for thermal system insulation samples where asbestos is not detected in insulation layer(s) or where asbestos is detected at less than 1%.

Sample ID	Description	Sample Location	#
Defau	12x12 white cat		Not sampled
HA1A	Wallboard wall system, White	West wall	7562517
HA1B	Wallboard wall system, White	North wall	7562518
HA1C	Wallboard wall system, White	Center room	7562519
2A	2x2 white textured ct	Center room	7562520
2B	2x2 white textured ct	Center room	7562521
3A	Red brick with white mortar	Fireplace NE room	7562522
3B	Red brick with white mortar	Fireplace NE room	7562523
4A	Grey concrete coating behind fireplace	Fireplace NE room	7562524
4B	Grey concrete coating behind fireplace	Fireplace NE room	7562525
5A	White wallboard ceiling system,	Center room	7562526
5B	White wallboard ceiling system,	Center room	7562527
5C	White wallboard ceiling system,	Center room	7562528
6A	12x12 white ct	Center room	7562529
6B	12x12 white ct	Center room	7562530
7	Pink vinyl wall tile		Not sampled
8A	Attic insulation yellow	East back room	7562531
8B	Attic insulation yellow	East back room	7562532
8C	Attic insulation yellow	Center room	7562533
9A	White 12x12 vft with black mastic	Basement kitchen	7562534
9B	White 12x12 vft with black mastic	Basement kitchen	7562535
10A	12x12 faux wood vft with black mastic	Basement north room	7562536
10B	12x12 faux wood vft with black mastic	Basement north room	7562537
11A	12x12 white textured ct	Basement north room	7562538
11B	12x12 white textured ct	Basement north room	7562539
12A	Unfinished wallboard wall system	Basement east room	7562540
12B	Unfinished wallboard wall system	Basement east room	7562541
13A	Yellow wall insulation	Basement east room	7562542
13B	Yellow wall insulation	Basement east room	7562543
13C	Yellow wall insulation	Basement east room	7562544
14A	Gray concrete	Basement north room	7562545

CW

MR 2/16/23 7

OST Start

PA 2/16 Start DA 2/16



**CHAIN OF CUSTODY LOG**

Project: 114 N Main Street

Address:

Project No:  
089229.00.005.01

DA  
2/16  
start

Sample ID	Description	Sample Location	#
14B	Gray concrete	Basement north room	7562546
15A	Black asphalt shingle roof system	East porch	7562547
15B	Black asphalt shingle roof system	North porch	7562548
16A	Gray ext concrete	East patio	7562549
16B	Gray ext concrete	North patio	7562550
17A	Gray cmu block with gray mortar	East exterior wall	7562551
17B	Gray cmu block with gray mortar	East exterior wall	7562552
18A	Gray asphalt I roof shingle system	West back patio	7562553
18B	Gray asphalt I roof shingle system	West back patio	7562554
19A	Plaster white ceiling system	NE room	7562555
19B	Plaster white ceiling system	NE room	7562556
19C	Plaster white ceiling system	NE room	7562557

ACCREDITATION #:

LICENSED ASBESTOS INSPECTOR:

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008  
  
Client: SOI995

Report Date: 2/17/2023  
Report No.: 677289 - PLM  
Project: Nobel County; 114 N Main St Summerfield  
Project No.: 089229.00.05

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562517      **Analyst Observation:** White Drywall      **Location:** West Wall  
**Client No.:** HA1A      **Client Description:** Wallboard Wall System, White      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

Note: No joint compound present

**Lab No.:** 7562518      **Analyst Observation:** White Drywall      **Location:** North Wall  
**Client No.:** HA1B      **Client Description:** Wallboard Wall System, White      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

Note: No joint compound present

**Lab No.:** 7562519      **Analyst Observation:** White Drywall      **Location:** Center Room  
**Client No.:** HA1C      **Client Description:** Wallboard Wall System, White      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      5 Cellulose      95


Note: No joint compound present

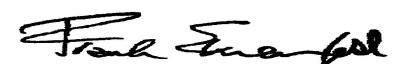
**Lab No.:** 7562520      **Analyst Observation:** Tan Ceiling Tile      **Location:** Center Room  
**Client No.:** 2A      **Client Description:** 2x2 White Textured CT      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      90 Cellulose      10

**Lab No.:** 7562520(L2)      **Analyst Observation:** White Texture      **Location:** Center Room  
**Client No.:** 2A      **Client Description:** 2x2 White Textured CT      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562521      **Analyst Observation:** Tan Ceiling Tile      **Location:** Center Room  
**Client No.:** 2B      **Client Description:** 2x2 White Textured CT      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      90 Cellulose      10

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Maxamillian Roselli

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677289 - PLM  
Project: Nobel County; 114 N Main St Summerfield  
Project No.: 089229.00.05

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562521(L2)  
**Client No.:** 2B

**Analyst Observation:** White Texture  
**Client Description:** 2x2 White Textured CT

**Location:** Center Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562522  
**Client No.:** 3A

**Analyst Observation:** Red Brick  
**Client Description:** Red Brick With White Mortar

**Location:** Fireplace NE Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562522(L2)  
**Client No.:** 3A

**Analyst Observation:** Pink Mortar  
**Client Description:** Red Brick With White Mortar

**Location:** Fireplace NE Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562523  
**Client No.:** 3B

**Analyst Observation:** Red Brick  
**Client Description:** Red Brick With White Mortar

**Location:** Fireplace NE Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562523(L2)  
**Client No.:** 3B

**Analyst Observation:** Pink Mortar  
**Client Description:** Red Brick With White Mortar


**Location:** Fireplace NE Room  
**Facility:**

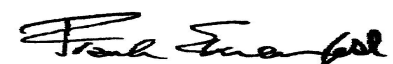
Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Maxamillian Roselli

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677289 - PLM Project: Nobel County; 114 N Main St Summerfield Project No.: 089229.00.05
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562524 <b>Client No.:</b> 4A	<b>Analyst Observation:</b> Grey Cementitious <b>Client Description:</b> Grey Concrete Coating Behind Fireplace	<b>Location:</b> Fireplace NE Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>PC 1.2 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 98.8

<b>Lab No.:</b> 7562525 <b>Client No.:</b> 4B	<b>Analyst Observation:</b> Sample Not Analyzed <b>Client Description:</b> Grey Concrete Coating Behind Fireplace	<b>Location:</b> Fireplace NE Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>Sample Not Analyzed</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Sample Not Analyzed	<u>Percent Non-Fibrous Material:</u>

<b>Lab No.:</b> 7562526 <b>Client No.:</b> 5A	<b>Analyst Observation:</b> White Drywall <b>Client Description:</b> White Wallboard Ceiling System	<b>Location:</b> Center Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose	<u>Percent Non-Fibrous Material:</u> 95

Note: No joint compound present

<b>Lab No.:</b> 7562527 <b>Client No.:</b> 5B	<b>Analyst Observation:</b> White Drywall <b>Client Description:</b> White Wallboard Ceiling System	<b>Location:</b> Center Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose	<u>Percent Non-Fibrous Material:</u> 95


Note: No joint compound present

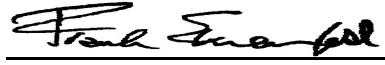
<b>Lab No.:</b> 7562528 <b>Client No.:</b> 5C	<b>Analyst Observation:</b> White Drywall <b>Client Description:</b> White Wallboard Ceiling System	<b>Location:</b> Center Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose	<u>Percent Non-Fibrous Material:</u> 95

Note: No joint compound present

<b>Lab No.:</b> 7562529 <b>Client No.:</b> 6A	<b>Analyst Observation:</b> White Ceiling Tile <b>Client Description:</b> 12x12 White CT	<b>Location:</b> Center Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 100 Cellulose	<u>Percent Non-Fibrous Material:</u> None Detected

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677289 - PLM  
Project: Nobel County; 114 N Main St Summerfield  
Project No.: 089229.00.05

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562530  
**Client No.:** 6B

**Analyst Observation:** White Ceiling Tile  
**Client Description:** 12x12 White CT

**Location:** Center Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
100 Cellulose

Percent Non-Fibrous Material:  
None Detected

**Lab No.:** 7562531  
**Client No.:** 8A

**Analyst Observation:** Yellow Insulation  
**Client Description:** Attic Insulation Yellow

**Location:** East Back Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
90 Cellulose

Percent Non-Fibrous Material:  
10

**Lab No.:** 7562532  
**Client No.:** 8B

**Analyst Observation:** Yellow Insulation  
**Client Description:** Attic Insulation Yellow

**Location:** East Back Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
90 Cellulose

Percent Non-Fibrous Material:  
10

**Lab No.:** 7562533  
**Client No.:** 8C

**Analyst Observation:** Yellow Insulation  
**Client Description:** Attic Insulation Yellow

**Location:** Center Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
90 Cellulose

Percent Non-Fibrous Material:  
10

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023

Date Analyzed: 02/16/2023

Signature:

Analyst: Aidan Becker

Approved By:

Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677289 - PLM  
Project: Nobel County; 114 N Main St Summerfield  
Project No.: 089229.00.05

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562534	<b>Analyst Observation:</b> White Floor Tile	<b>Location:</b> Basement Kitchen
<b>Client No.:</b> 9A	<b>Client Description:</b> White 12x12 VFT With Black Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 7562534(L2)	<b>Analyst Observation:</b> Clear Mastic	<b>Location:</b> Basement Kitchen
<b>Client No.:</b> 9A	<b>Client Description:</b> White 12x12 VFT With Black Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Note: No black mastic present.

<b>Lab No.:</b> 7562535	<b>Analyst Observation:</b> White Floor Tile	<b>Location:</b> Basement Kitchen
<b>Client No.:</b> 9B	<b>Client Description:</b> White 12x12 VFT With Black Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 7562535(L2)	<b>Analyst Observation:</b> Clear Mastic	<b>Location:</b> Basement Kitchen
<b>Client No.:</b> 9B	<b>Client Description:</b> White 12x12 VFT With Black Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


Note: No black mastic present.

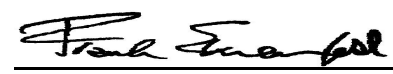
<b>Lab No.:</b> 7562536	<b>Analyst Observation:</b> Brown Floor Tile	<b>Location:</b> Basement North Room
<b>Client No.:</b> 10A	<b>Client Description:</b> 12x12 Faux Wood VFT With Black Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 7562536(L2)	<b>Analyst Observation:</b> Clear Mastic	<b>Location:</b> Basement North Room
<b>Client No.:</b> 10A	<b>Client Description:</b> 12x12 Faux Wood VFT With Black Mastic	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	10 Cellulose	90

Note: No black mastic present.

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Dean Andrews

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677289 - PLM Project: Nobel County; 114 N Main St Summerfield Project No.: 089229.00.05
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562537 <b>Client No.:</b> 10B	<b>Analyst Observation:</b> Brown Floor Tile <b>Client Description:</b> 12x12 Faux Wood VFT With Black Mastic	<b>Location:</b> Basement North Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Note: No mastic present

<b>Lab No.:</b> 7562538 <b>Client No.:</b> 11A	<b>Analyst Observation:</b> White Ceiling Tile <b>Client Description:</b> 12x12 White Textured CT	<b>Location:</b> Basement North Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 90 Cellulose	<u>Percent Non-Fibrous Material:</u> 10


<b>Lab No.:</b> 7562539 <b>Client No.:</b> 11B	<b>Analyst Observation:</b> White Ceiling Tile <b>Client Description:</b> 12x12 White Textured CT	<b>Location:</b> Basement North Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 90 Cellulose	<u>Percent Non-Fibrous Material:</u> 10

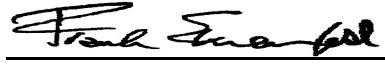
<b>Lab No.:</b> 7562540 <b>Client No.:</b> 12A	<b>Analyst Observation:</b> Brown Wallboard <b>Client Description:</b> Unfinished Wallboard Wall System	<b>Location:</b> Basement East Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 90 Cellulose	<u>Percent Non-Fibrous Material:</u> 10

<b>Lab No.:</b> 7562541 <b>Client No.:</b> 12B	<b>Analyst Observation:</b> Brown Wallboard <b>Client Description:</b> Unfinished Wallboard Wall System	<b>Location:</b> Basement East Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 90 Cellulose	<u>Percent Non-Fibrous Material:</u> 10

<b>Lab No.:</b> 7562542 <b>Client No.:</b> 13A	<b>Analyst Observation:</b> Yellow Insulation <b>Client Description:</b> Yellow Wall Insulation	<b>Location:</b> Basement East Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 95 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 5

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Dean Andrews

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677289 - PLM Project: Nobel County; 114 N Main St Summerfield Project No.: 089229.00.05
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562543 <b>Client No.:</b> 13B	<b>Analyst Observation:</b> Yellow Insulation <b>Client Description:</b> Yellow Wall Insulation	<b>Location:</b> Basement East Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 95 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 5

<b>Lab No.:</b> 7562544 <b>Client No.:</b> 13C	<b>Analyst Observation:</b> Yellow Insulation <b>Client Description:</b> Yellow Wall Insulation	<b>Location:</b> Basement East Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562545 <b>Client No.:</b> 14A	<b>Analyst Observation:</b> Grey Concrete <b>Client Description:</b> Gray Concrete	<b>Location:</b> Basement North Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562546 <b>Client No.:</b> 14B	<b>Analyst Observation:</b> Grey Concrete <b>Client Description:</b> Gray Concrete	<b>Location:</b> Basement North Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562547 <b>Client No.:</b> 15A	<b>Analyst Observation:</b> Black Shingle <b>Client Description:</b> Black Asphalt Shingle Roof System	<b>Location:</b> East Porch <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose	<u>Percent Non-Fibrous Material:</u> 95

<b>Lab No.:</b> 7562547(L2) <b>Client No.:</b> 15A	<b>Analyst Observation:</b> Black Tar <b>Client Description:</b> Black Asphalt Shingle Roof System	<b>Location:</b> East Porch <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	<u>Percent Non-Fibrous Material:</u> 98

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Dean Andrews

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677289 - PLM Project: Nobel County; 114 N Main St Summerfield Project No.: 089229.00.05
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562548 <b>Client No.:</b> 15B <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Black Shingle <b>Client Description:</b> Black Asphalt Shingle Roof System <u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose 1 Fibrous Glass	<b>Location:</b> North Porch <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 94
<b>Lab No.:</b> 7562548(L2) <b>Client No.:</b> 15B <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Black Tar <b>Client Description:</b> Black Asphalt Shingle Roof System <u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	<b>Location:</b> North Porch <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 98

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Dean Andrews

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677289 - PLM  
Project: Nobel County; 114 N Main St Summerfield  
Project No.: 089229.00.05

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562549      **Analyst Observation:** Grey Concrete      **Location:** East Patio  
**Client No.:** 16A      **Client Description:** Gray Ext Concrete      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562550      **Analyst Observation:** Grey Concrete      **Location:** North Patio  
**Client No.:** 16B      **Client Description:** Gray Ext Concrete      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562551      **Analyst Observation:** Grey Cementitious      **Location:** East Exterior Wall  
**Client No.:** 17A      **Client Description:** Gray CMU Block With Gray Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

Note: No mortar present.


**Lab No.:** 7562552      **Analyst Observation:** Grey Cementitious      **Location:** East Exterior Wall  
**Client No.:** 17B      **Client Description:** Gray CMU Block With Gray Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

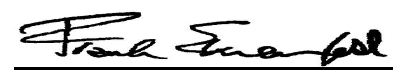
Note: No mortar present.

**Lab No.:** 7562553      **Analyst Observation:** Grey Shingle      **Location:** West Back Patio  
**Client No.:** 18A      **Client Description:** Gray Asphalt I Roof Shingle System      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      10 Cellulose      90

**Lab No.:** 7562553(L2)      **Analyst Observation:** Black Tar      **Location:** West Back Patio  
**Client No.:** 18A      **Client Description:** Gray Asphalt I Roof Shingle System      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Maxamillian Roselli

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677289 - PLM Project: Nobel County; 114 N Main St Summerfield Project No.: 089229.00.05
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562554 <b>Client No.:</b> 18B	<b>Analyst Observation:</b> Grey Shingle <b>Client Description:</b> Gray Asphalt I Roof Shingle System	<b>Location:</b> West Back Patio <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	<u>Percent Non-Fibrous Material:</u> 90

<b>Lab No.:</b> 7562554(L2) <b>Client No.:</b> 18B	<b>Analyst Observation:</b> Black Tar <b>Client Description:</b> Gray Asphalt I Roof Shingle System	<b>Location:</b> West Back Patio <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562555 <b>Client No.:</b> 19A	<b>Analyst Observation:</b> Tan Plaster <b>Client Description:</b> Plaster Wall Ceiling System	<b>Location:</b> NE Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Hair	<u>Percent Non-Fibrous Material:</u> 95

<b>Lab No.:</b> 7562556 <b>Client No.:</b> 19B	<b>Analyst Observation:</b> Tan Plaster <b>Client Description:</b> Plaster Wall Ceiling System	<b>Location:</b> NE Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Hair	<u>Percent Non-Fibrous Material:</u> 95

<b>Lab No.:</b> 7562557 <b>Client No.:</b> 19C	<b>Analyst Observation:</b> Tan Plaster <b>Client Description:</b> Plaster Wall Ceiling System	<b>Location:</b> NE Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Hair	<u>Percent Non-Fibrous Material:</u> 95

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Maxamillian Roselli

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677289 - PLM  
Project: Nobel County; 114 N Main St Summerfield  
Project No.: 089229.00.05

Client: SOI995

## Appendix to Analytical Report

**Customer Contact:** Davin Ojala

**Method:** 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, USEPA 600, R93-116 and NYSDOH ELAP 198.1 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

**iATL Customer Service:** customerservice@iatl.com

**iATL Office Manager:** wchampion@iatl.com

**iATL Account Representative:** Shirley Clark

**Sample Login Notes:** See Batch Sheet Attached

**Sample Matrix:** Bulk Building Materials

**Exceptions Noted:** See Following Pages

### General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at [www.iATL.com](http://www.iATL.com) and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

### Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

### Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB) See additional information at the end of this appendix.

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677289 - PLM  
Project: Nobel County; 114 N Main St Summerfield  
Project No.: 089229.00.05

Client: SOI995

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)  
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

### Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at [customerservice@iatl.com](mailto:customerservice@iatl.com).

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

### Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) [www.atsdr.cdc.gov](http://www.atsdr.cdc.gov), United States Geological Survey (USGS) [www.minerals.usgs.gov/minerals/](http://www.minerals.usgs.gov/minerals/), US EPA [www.epa.gov/asbestos](http://www.epa.gov/asbestos). The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite ([https://www.wadsworth.org/sites/default/files/WebDoc/I198\\_8\\_02\\_2.pdf](https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf))

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1) **Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116  
**Requirements/Comments:** Minimum of 0.1 g of sample. ~0.25% for most samples.

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677289 - PLM  
Project: Nobel County; 114 N Main St Summerfield  
Project No.: 089229.00.05

Client: SOI995

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Suspension" only.

\*With advance notice and confirmation by the laboratory.

\*\*Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM CERTIFICATION MANUAL - ITEM No. 198.1, Revision Date 5/6/16)

\*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other than SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% vermiculite.

Statistically derived uncertainty with any measure should be taken into consideration when reviewing and interpreting all reported data and results. A more comprehensive listing of accuracy, precision, and uncertainty as it impacts this method is available upon request.



**APPENDIX D**  
**812 WEST STREET, CALDWELL, OHIO**



## **ASBESTOS ASSESSMENT SUMMARY**

### **812 WEST STREET, CALDWELL, OHIO**

#### **SITE DESCRIPTION AND STRUCTURE CONDITION**

The 812 West Street site was located east of West Street between Frazier Street and Fairground Street in Caldwell, Ohio. The site was developed with an approximately 1,700 square-foot two-story residential structure that was unoccupied at the time of our assessment. At the time of the site assessment, the floor in the central portion of the structure had sunk into the crawlspace.

#### **ASBESTOS SAMPLING RESULTS**

The United States Environmental Protection Agency (USEPA) and the Occupational Safety and Health Administration (OSHA) asbestos regulations define an ACM as any material that contains greater than one percent asbestos. Suspect ACMs not analyzed for asbestos content are considered assumed ACMs. According to the USEPA National Emission Standard for Hazardous Air Pollutants asbestos regulation (NESHAP, 40 CFR Part 61 M), friable ACMs and nonfriable ACMs which could be expected to be disturbed and become friable are considered Regulated Asbestos Containing Materials (RACMs) and must be removed prior to demolition activities. Nonfriable ACMs, if in good condition and not subjected to forces that would render them friable, are permitted by USEPA to remain in a structure during demolition. According to the OSHA Asbestos Construction Standard, demolition activities involving ACMs must be conducted by trained personnel in accordance with the standard and in accordance with the Ohio Administrative Code (OAC). Refer to Section 2.3.1 of the report for additional information regarding asbestos work requirements and notifications.

Materials containing trace asbestos (equal to or less than one percent asbestos) are not considered RACM or ACM but are subject to the engineering and work practice requirements of paragraphs (g)(1), (g)(2), and (g)(3) of the OSHA Asbestos Construction Standard.

A summary of the descriptions of suspect ACMs identified, RACM, ACM, Trace Asbestos, or non-ACM categorization of the materials, estimated quantity, friability, condition, and locations of the materials sampled is presented in the attached Table 1.

#### **SITE-SPECIFIC LIMITATIONS AND PROJECT CONSIDERATIONS**

SME was able to assess the structure.

#### **RECOMMENDATIONS**

- If the identified nonfriable, asbestos-containing floor tiles will be removed prior to demolition, we recommend that they be removed by a licensed asbestos contractor, and in accordance with the asbestos work requirements of the OSHA Asbestos Construction Standard. If this material will remain intact during demolition, we recommend that the demolition activities be conducted by staff trained to conduct demolition involving those ACMs, supervised by a 40-hour trained asbestos supervisor accredited by the Ohio Environmental Protection Agency (OEPA) and conducted in accordance with the OSHA Asbestos Construction Standard.

- We recommend proper notification to the OEPA prior to removal of ACMs and demolition of the structure.
- We recommend asbestos abatement project design by an Asbestos Hazard Abatement Project Designer that is trained in accordance with USEPA requirements and accredited by the OEPA. We also recommend monitoring asbestos removal work or disturbance with air sampling, visual verification, and clearance air monitoring performed by an independent third party (such as SME). We recommend notification of the presence, quantity, and location of ACMs and communication of the hazards associated with them in accordance.

## ASBESTOS BULK SAMPLING RESULTS TABLE

**TABLE 1  
ASBESTOS BULK SAMPLING RESULTS  
812 WEST STREET, CALDWELL, OHIO  
SME PROJECT NUMBER: 089229.00.004**

The quantities presented in this table are intended to be “Order of Magnitude” estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
1	Unfinished wallboard ceiling system  White drywall	Non-ACM	170 sq. ft.	Nonfriable	Damaged	Front porch
2	Gray plaster ceiling system  Gray plaster  White plaster  Tan plaster  White joint compound	Non-ACM  Non-ACM  Non-ACM  Non-ACM	1,000 sq. ft.	Nonfriable	Good	Throughout second floor bathroom
3	Gray plaster wall system  Gray plaster  White plaster  White joint compound	Non-ACM  Non-ACM  Non-ACM	1,600 sq. ft.	Nonfriable	Good	Throughout
4	Red brick  Gray mortar	Non-ACM  Non-ACM	25 sq. ft.	Nonfriable	Significantly Damaged	Exterior fireplace
5	Red brick  Gray mortar	Non-ACM  Non-ACM	10 sq. ft.	Nonfriable	Good	Interior fireplace
6	White textured plaster ceiling system  White texture  White plaster  Gray plaster	Non-ACM  Non-ACM  Non-ACM	170 sq. ft.	Friable	Good	East room, first floor
7	Gray 12" x 12" vinyl floor tile	<b>ACM</b>	40 sq. ft.	Nonfriable	Damaged	Bathroom first floor

**TABLE 1  
ASBESTOS BULK SAMPLING RESULTS  
812 WEST STREET, CALDWELL, OHIO  
SME PROJECT NUMBER: 089229.00.004**

The quantities presented in this table are intended to be “Order of Magnitude” estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
8	12" x 12" brown vinyl floor tile over multicolored vinyl floor tile  Brown vinyl floor tile  Multicolored vinyl floor tile	Non-ACM  Non-ACM	150 sq. ft.	Friable	Significantly Damaged	Kitchen
9	Wallboard white wall system over gray plaster  White drywall  White joint compound  White plaster  Gray plaster	Non-ACM  Non-ACM  Non-ACM  Non-ACM	1,600 sq. ft.	Nonfriable	Damaged	Kitchen and north room, second floor west and bathroom, east second floor bedroom
10	White wallboard ceiling system over white wallboard  White drywall  White joint compound	Non-ACM  Non-ACM	150 sq. ft.	Nonfriable	Damaged	Kitchen
11	Cream countertop  Tan mastic	Non-ACM  Non-ACM	30 sq. ft.	Nonfriable	Damaged	Kitchen
12	White wallboard wall system  White drywall  White joint compound	Non-ACM  Non-ACM	400 sq. ft.	Nonfriable	Good	North room, second floor bathroom

**TABLE 1  
ASBESTOS BULK SAMPLING RESULTS  
812 WEST STREET, CALDWELL, OHIO  
SME PROJECT NUMBER: 089229.00.004**

The quantities presented in this table are intended to be “Order of Magnitude” estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
13	Floral vinyl sheet flooring	Non-ACM	160 sq. ft.	Nonfriable	Significantly Damaged	Far east room
14	Yellow insulation	Non-ACM	85 sq. ft.	Friable	Damaged	Center of house
15	White window glaze	Non-ACM	1 sq. ft. (18 windows)	Nonfriable likely to become friable during demolition	Damaged	Exterior windows
16	Red ceramic brick  Gray mortar	Non-ACM  Non-ACM	200 sq. ft.	Nonfriable	Good	Throughout exterior
17	Red/Gray asphaltic roofing system	Non-ACM	1,300 sq. ft.	Nonfriable	Good	West portion of roof
18	Black asphaltic roof system  Black/Green shingle  Black tar paper	Non-ACM  Non-ACM	400 sq. ft.	Nonfriable	Damaged	Area between house and garage

**NOTES:**

HA = Homogenous Area.

**RACM** = Regulated Asbestos-Containing Material. Must be removed from the building prior to demolition.

**ACM** = Asbestos-Containing Material as defined by USEPA and OSHA definition.

**Trace Asbestos** = Equal to or less than 1% asbestos detected.

Friable = Material that can be crumbled or reduced to powder by hand pressure.

NQ = Not quantified

Material conditions are described as defined in AHERA, 40 CFR Part 763.

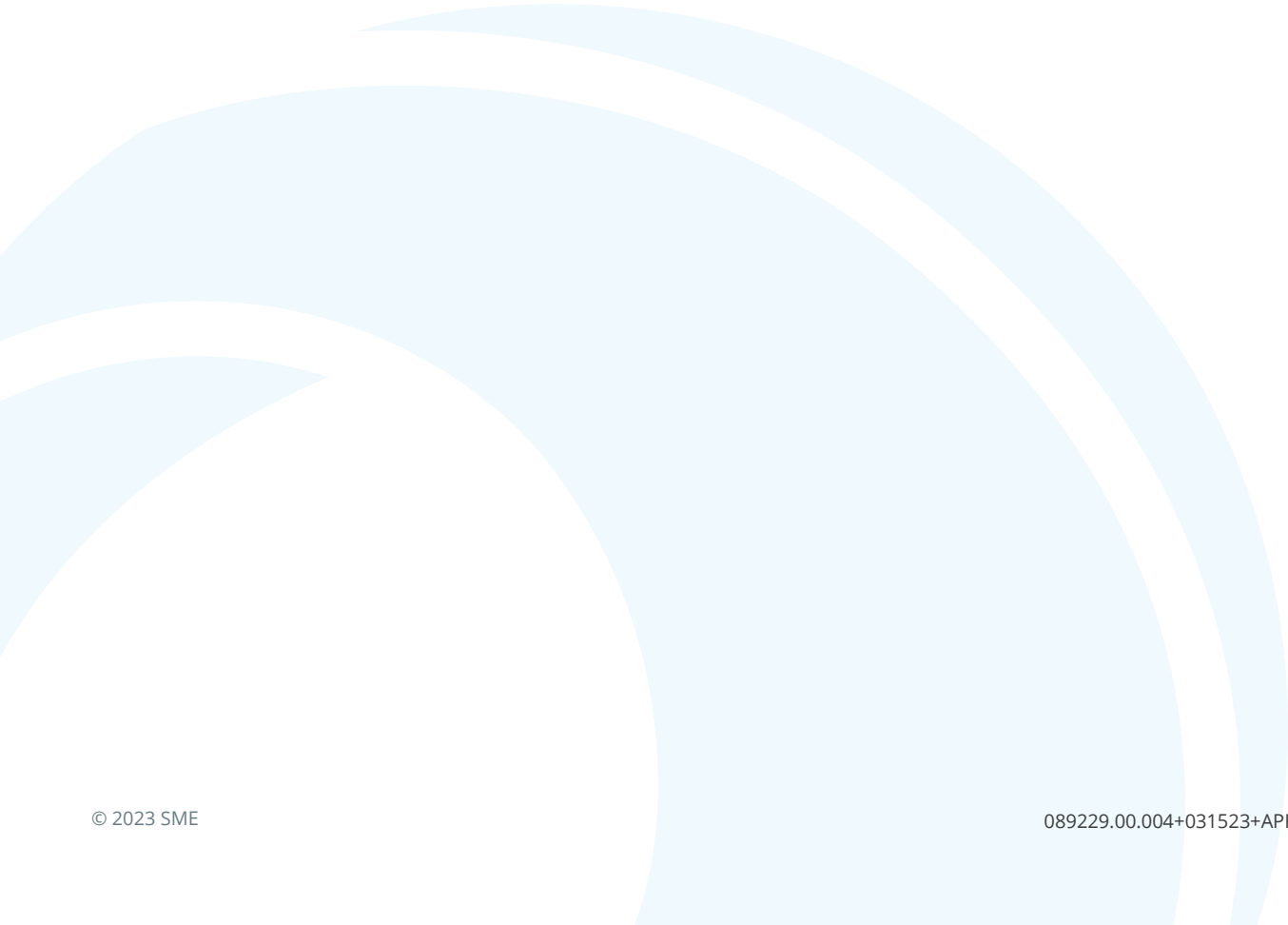
ln. ft. = linear feet

sq. ft. = square feet

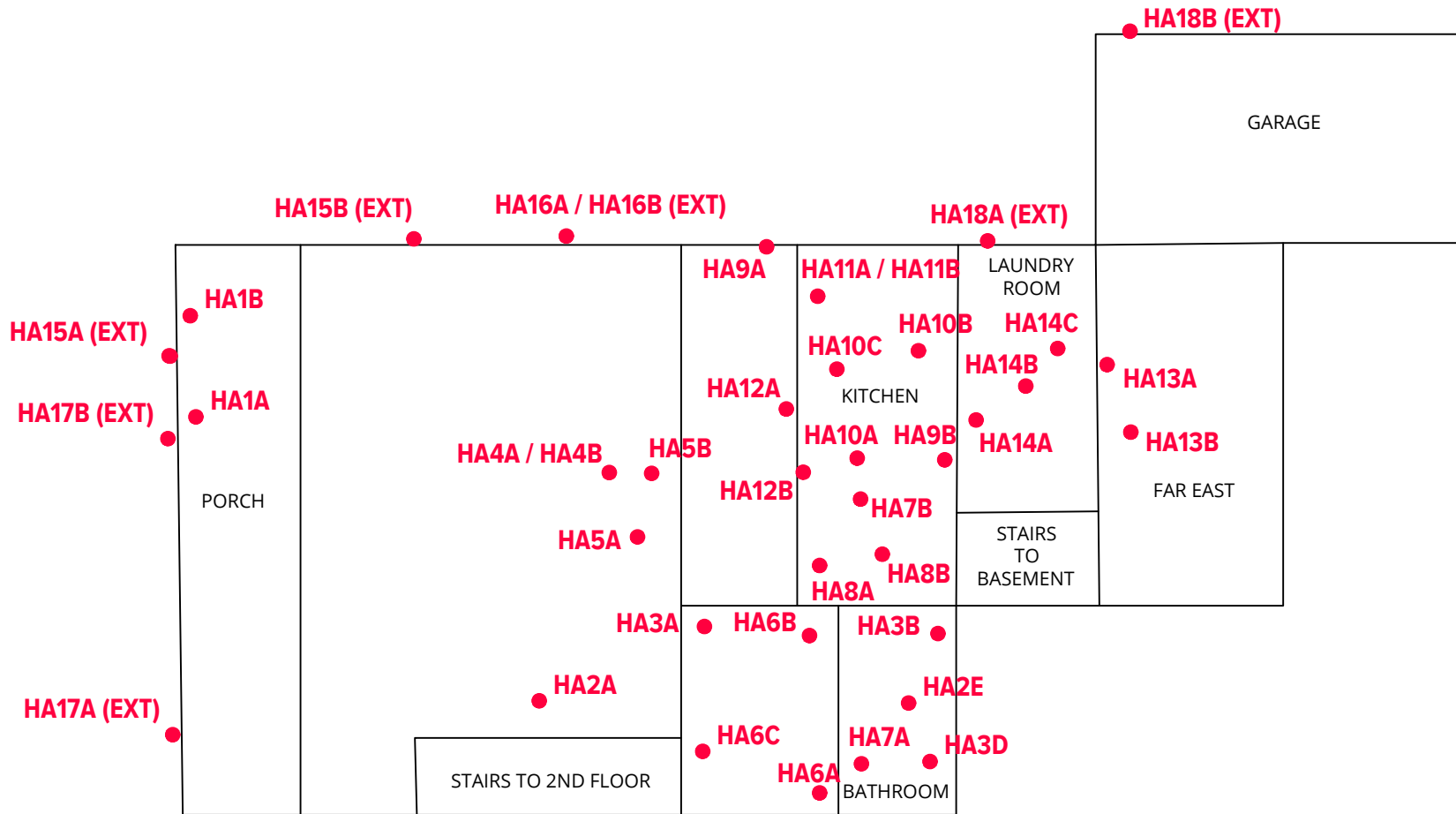
cu. ft. = cubic feet

\* = Estimate of visible, accessible materials. Additional quantities and materials may be present in concealed spaces not assessed

**SAMPLE LOCATION DIAGRAMS**







**LEGEND**

● BULK ASBESTOS SAMPLE

FIRST FLOOR

NOTE:

1. BUILDING FEATURES AND SAMPLE LOCATIONS ARE APPROXIMATE.



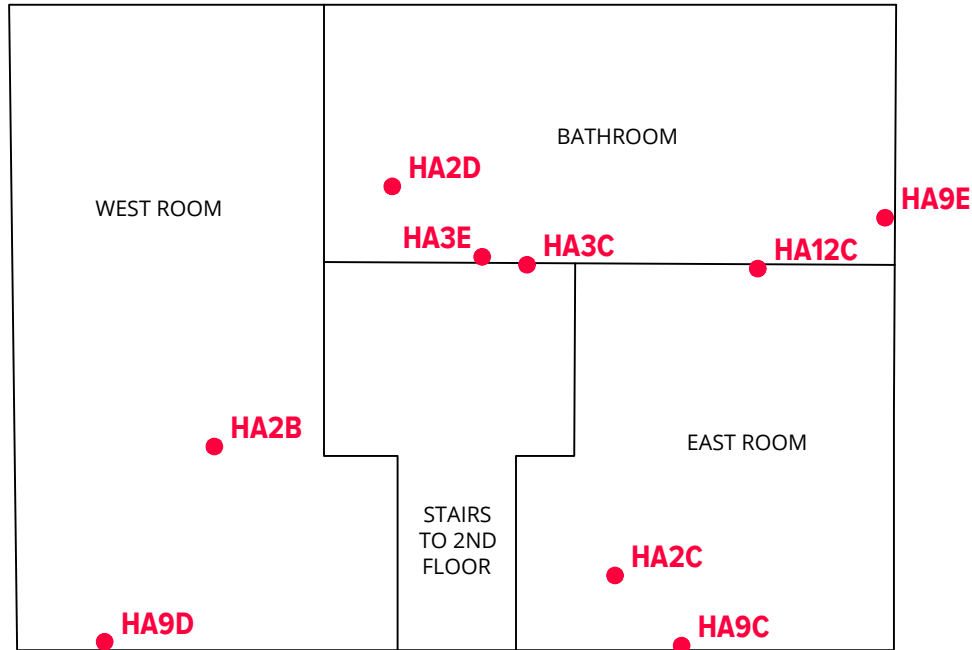
No.	Revision Date	Date	03-07-2023
	Drawn By	CRC	
	Designed By	KP	
	Scale	Not To Scale	
	Project	089229.00.004	

**ASBESTOS ASSESSMENT SAMPLE LOCATION DIAGRAM**  
**NOBLE CO ENVIRONMENTAL CONSULTING**  
**812 WEST STREET**  
**CALDWELL, OHIO**



www.sme-usa.com

**Figure No. 4A**



SECOND FLOOR

**LEGEND**

● BULK ASBESTOS SAMPLE

NOTE:

1. BUILDING FEATURES AND SAMPLE LOCATIONS ARE APPROXIMATE.



No.	Revision Date	Date	03-07-2023
	Drawn By	CRC	
	Designed By	KP	
	Scale	Not To Scale	
	Project	089229.00.004	

**ASBESTOS ASSESSMENT SAMPLE LOCATION DIAGRAM**  
**NOBLE CO ENVIRONMENTAL CONSULTING**  
**812 WEST STREET**  
**CALDWELL, OHIO**



www.sme-usa.com

**Figure No. 4B**

**CERTIFICATE OF ANALYSIS  
CHAIN OF CUSTODY FORM**

## Chain of Custody

– Bulk Asbestos –

### Contact Information

<b>Client Company:</b> <u>SME</u>	<b>Project Number:</b> <u>0892290.00.04</u>
<b>Office Address:</b> <u>4401 Lyman Drive St C</u>	<b>Project Name:</b> <u>Noble County</u>
<b>City, State, Zip:</b> <u>Hilliard, Ohio, 43026</u>	<b>Primary Contact:</b> <u>Kelsea Pohl</u>
<b>Fax Number:</b> _____	<b>Office Phone:</b> _____
<b>Email Address:</b> <u>kelsea.pohl@sme-usa.com</u>	<b>Cell Phone:</b> <u>216 536 2581</u>

### PLM Instructions:

- PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993
- PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982
- PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010
- TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009
  
- PLM: Point Counting
  - PC: via ELAP 198.1
  - PC: 400 Points
  - PC: 800 Points \*
  - PC: 1600 Points \*
- PLM: Analyze Until Positive (Positive Stop)
  - AUP: by Homogenous Area as Noted
  - AUP: by Material Type as Noted
- PLM: NOB via 198.6
  - PLM: Friable via EPA 600 2.3
  - If <1% by PLM, to TEM via 198.4 \*
  - If <1% by PLM, Hold for Instructions
- PLM: Instructions for Multi-Layered Samples
  - Analyze and Report All Separable Layers per EPA 600
  - Report Composite for Drywall Systems per NESHAP
  - Report All Layers and Composite Where Applicable
  - Only Analyze and Report Specifically Noted Layer
- PLM: Non-Building Material \*\*\* (Dust, Wipe, Tape)
  - Soil or Vermiculite Analysis \*
  - CARB 435

**Special Instructions:** REFER TO ATTACHED SME CHAIN OF CUSTODY FOR ANALYSIS INSTRUCTIONS

\* Additional charge and turnaround may be required    \*\* Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory

### Turnaround Time

Preliminary Results Requested Date: \_\_\_\_\_  Verbal  Email  Fax

Specific date / time

10 Day  5 Day  3 Day  2 Day  1 Day\*  12 Hour\*\*  6 Hour\*\*  RUSH\*\*

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\*

### Chain of Custody

Relinquished (Name/Organization): <u>Ray Woods SME</u>	Date: <u>1/30/23</u>	Time: <u>3:00 pm</u>
Received (Name / iATL): _____	Date: _____	Time: _____
Sample Login (Name / iATL): _____	Date: _____	Time: _____
Analysis(Name(s) / iATL): <u>052/1623</u>	Date: _____	Time: <u>FEB - 1 2023</u>
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____



**CHAIN OF CUSTODY LOG**  
 Project: 812 W Cross Street  
 Address: ,

Project No:  
 089229.00.004.01

2<sup>nd</sup>  
 Date Sampled: 01/30/2023

Note: Multiple samples of each homogeneous area may have been collected. If asbestos is detected at greater than 1% in first sample, DO NOT analyze subsequent samples from that area with exception of plaster samples, wallboard system samples, and spray applied fireproofing (SAFP) samples. Please analyze all plaster, wallboard, and SAFP samples, and provide individual layer analysis for each sample. If asbestos is detected at a concentration greater than 1% in an individual layer of a wallboard system sample, please provide composite analysis for that sample. Please provide mastic analysis for floor tile samples. Treat mastic as a separate homogeneous area. For each thermal system insulation sample, please analyze the insulation portion(s) of each sample first. If asbestos is detected at 1% or greater do not analyze the insulation covering layer of the sample. Please provide the insulation covering analysis for thermal system insulation samples where asbestos is not detected in insulation layer(s) or where asbestos is detected at less than 1%.

↑  
 B  
 2.16  
 ↓  
 STOP

Sample ID	Description	Sample Location	#
1A	Unfinished wallboard ceiling system	Porch	7562658
1B	Unfinished wallboard ceiling system	Porch	7562659
2A	Plaster ceiling system gray	East room	7562660
2B	Plaster ceiling system gray	Second floor west room	7562661
2C	Plaster ceiling system gray	Second floor east room	7562662
2D	Plaster ceiling system gray	Second floor bathroom	7562663
2E	Plaster ceiling system gray	First floor bathroom	7562664
3A	Plaster wall system gray	Central room first floor	7562665
3B	Plaster wall system gray	First floor bathroom	7562666
3C	Plaster wall system gray	Second floor bathroom	7562667
3D	Plaster wall system gray	First floor bathroom	7562668
3E	Plaster wall system gray	Second floor bathroom	7562669
4A	Red brick with gray mortar	Fireplace	7562670
4B	Red brick with gray mortar	Fireplace	7562671
5A	Red brick with gray mortar	Inside fireplace	7562672
5B	Red brick with gray mortar	Inside fireplace	7562673
6A	Textured plaster ceiling system white	First floor central room	7562674
6B	Textured plaster ceiling system white	First floor central room	7562675
6C	Textured plaster ceiling system white	First floor central room	7562676
7A	Gray 12x12 vft	Bathroom first floor	7562677
7B	Gray 12x12 vft	Kitchen	7562678
8A	12x12 brown over multicolored vft	Kitchen	7562679
8B	12x12 brown over multicolored vft	Kitchen	7562680
9A	Wallboard white wall system over plaster	North central room first floor	7562681
9B	Wallboard white wall system over plaster	Kitchen	7562682
9C	Wallboard white wall system over plaster	East room second floor	7562683
9D	Wallboard white wall system over plaster	Second floor west room	7562684
9E	Wallboard white wall system over plaster	Second floor bathroom	7562685
10A	White wallboard ceiling system over wallboard	Kitchen	7562686
10B	White wallboard ceiling system over wallboard	Kitchen	7562687
10C	White wallboard ceiling system over wallboard	Kitchen	7562688
11A	Cream countertop	Kitchen	7562689
11B	Cream countertop	Kitchen	7562690



**CHAIN OF CUSTODY LOG**  
 Project: 812 W Cross Street  
 Address: ,

Project No:  
 089229.00.004.01

Sample ID	Description	Sample Location	#
12A	White wallboard wall system	North central room first floor	7362691
12B	White wallboard wall system	Kitchen	73562692
12C	White wallboard wall system	Second floor east room	73662693
13A	Floral vinyl sheet flooring	Far East first floor room	73752694
13B	Floral vinyl sheet flooring	Far East first floor room	73852695
14A	Yellow insulation	Laundry room	73952696
14B	Yellow insulation	Laundry room	74052697
14C	Yellow insulation	Laundry room	74152698
15A	White window glaze	East ext window	74252699
15B	White window glaze	North exterior window	74352700
16A	Red block with gray mortar	North wall ext	74452701
16B	Red block with gray mortar	North wall ext	74552702
17A	Red asphaltic roofing system	West roof	74652703
17B	Red asphaltic roofing system	West roof	74752704
18A	Black asphalt l'd roof system	North roof	74852705
18B	Black asphalt l'd roof system	North garage roof	74952706

ACCREDITATION #:

LICENSED ASBESTOS INSPECTOR:



CHAIN OF CUSTODY LOG

4401 Lyman Drive, St C
Hilliard, OH, 43026
Phone 614-705-2250
FAX 614-705-2250

CLIENT NAME: Noble County
SITE ADDRESS: 812 West Street, Caldwell

BULK SAMPLE ANALYSIS REQUESTED: EPA 600R-93/116, 1993 with PLM Point Counting PC: 400 points

Note: Multiple samples of each homogeneous area may have been collected. If asbestos is detected at greater than 1% in first sample, DO NOT analyze subsequent samples from that area with exception of plaster and wallboard system samples. Please analyze all plaster and wallboard system samples, and provide individual layer analysis for each sample. If asbestos is detected in an individual layer of a wallboard system sample, please provide composite analysis. Please provide mastic analysis for floor tile samples. Treat mastic as a separate homogeneous area. For each thermal system insulation sample, please analyze the insulation portion(s) of each sample first. If asbestos is detected at 1% or greater do not analyze the insulation covering layer of the sample. Please provide the insulation covering analysis for thermal system insulation samples where asbestos is not detected in insulation layer(s) or where asbestos is detected at less than 1%.

Table with 5 columns: AREA #, SAMPLE #, MATERIAL DESCRIPTION, SAMPLE LOCATION, #. Rows 1-31.

RELINQUISHED BY: [Signature] SME DATE: 1/30/23 TIME: 3:00 PM
RECEIVED BY: DATE: TIME:

Please provide 10 day turnaround, emailed to Kelsea Pohl at Kelsea.pohl@sme-usa.com .

SME USE ONLY

Date Sampled: 1/25/2023

SME Project #: 899229.00.04

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562658  
**Client No.:** 1A

**Analyst Observation:** White Drywall  
**Client Description:** Unfinished Wallboard Ceiling System

**Location:** Porch  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
5 Cellulose

Percent Non-Fibrous Material:  
95

Note: No joint compound present

**Lab No.:** 7562659  
**Client No.:** 1B

**Analyst Observation:** White Drywall  
**Client Description:** Unfinished Wallboard Ceiling System

**Location:** Porch  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
5 Cellulose

Percent Non-Fibrous Material:  
95

Note: No joint compound present

**Lab No.:** 7562660  
**Client No.:** 2A

**Analyst Observation:** Grey Plaster  
**Client Description:** Plaster Ceiling System Gray

**Location:** East Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
5 Hair

Percent Non-Fibrous Material:  
98

**Lab No.:** 7562660(L2)  
**Client No.:** 2A

**Analyst Observation:** White Plaster  
**Client Description:** Plaster Ceiling System Gray

**Location:** East Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562661  
**Client No.:** 2B

**Analyst Observation:** Grey Plaster  
**Client Description:** Plaster Ceiling System Gray

**Location:** Second Floor West Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
5 Hair

Percent Non-Fibrous Material:  
98

**Lab No.:** 7562661(L2)  
**Client No.:** 2B

**Analyst Observation:** Tan Plaster  
**Client Description:** Plaster Ceiling System Gray


**Location:** Second Floor West Room  
**Facility:**

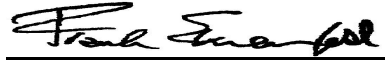
Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562661(L3)      **Analyst Observation:** White Joint Compound      **Location:** Second Floor West Room  
**Client No.:** 2B      **Client Description:** Plaster Ceiling System Gray      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562662      **Analyst Observation:** Grey Plaster      **Location:** Second Floor East Room  
**Client No.:** 2C      **Client Description:** Plaster Ceiling System Gray      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      5 Hair      95

**Lab No.:** 7562662(L2)      **Analyst Observation:** White Plaster      **Location:** Second Floor East Room  
**Client No.:** 2C      **Client Description:** Plaster Ceiling System Gray      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562663      **Analyst Observation:** Grey Plaster      **Location:** Second Floor Bathroom  
**Client No.:** 2D      **Client Description:** Plaster Ceiling System Gray      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      5 Hair      95

**Lab No.:** 7562663(L2)      **Analyst Observation:** White Plaster      **Location:** Second Floor Bathroom  
**Client No.:** 2D      **Client Description:** Plaster Ceiling System Gray      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562664      **Analyst Observation:** Grey Plaster      **Location:** First Floor Bathroom  
**Client No.:** 2E      **Client Description:** Plaster Ceiling System Gray      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      5 Hair      95

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562664(L2)	<b>Analyst Observation:</b> White Plaster	<b>Location:</b> First Floor Bathroom
<b>Client No.:</b> 2E	<b>Client Description:</b> Plaster Ceiling System Gray	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 7562665	<b>Analyst Observation:</b> Grey Plaster	<b>Location:</b> Central Room First Floor
<b>Client No.:</b> 3A	<b>Client Description:</b> Plaster Wall System Gray	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	5 Hair	95

<b>Lab No.:</b> 7562665(L2)	<b>Analyst Observation:</b> White Plaster	<b>Location:</b> Central Room First Floor
<b>Client No.:</b> 3A	<b>Client Description:</b> Plaster Wall System Gray	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 7562666	<b>Analyst Observation:</b> Grey Plaster	<b>Location:</b> First Floor Bathroom
<b>Client No.:</b> 3B	<b>Client Description:</b> Plaster Wall System Gray	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	5 Hair	95

<b>Lab No.:</b> 7562666(L2)	<b>Analyst Observation:</b> White Plaster	<b>Location:</b> First Floor Bathroom
<b>Client No.:</b> 3B	<b>Client Description:</b> Plaster Wall System Gray	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 7562666(L3)	<b>Analyst Observation:</b> White Joint Compound	<b>Location:</b> First Floor Bathroom
<b>Client No.:</b> 3B	<b>Client Description:</b> Plaster Wall System Gray	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7562667  
Client No.: 3C

**Analyst Observation:** Grey Plaster  
**Client Description:** Plaster Wall System Gray

**Location:** Second Floor Bathroom  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
5 Hair

Percent Non-Fibrous Material:  
95

Lab No.: 7562667(L2)  
Client No.: 3C

**Analyst Observation:** White Plaster  
**Client Description:** Plaster Wall System Gray

**Location:** Second Floor Bathroom  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Lab No.: 7562668  
Client No.: 3D

**Analyst Observation:** Grey Plaster  
**Client Description:** Plaster Wall System Gray

**Location:** First Floor Bathroom  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
5 Hair

Percent Non-Fibrous Material:  
95

Lab No.: 7562668(L2)  
Client No.: 3D

**Analyst Observation:** White Plaster  
**Client Description:** Plaster Wall System Gray

**Location:** First Floor Bathroom  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Lab No.: 7562669  
Client No.: 3E

**Analyst Observation:** Grey Plaster  
**Client Description:** Plaster Wall System Gray

**Location:** Second Floor Bathroom  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
5 Hair

Percent Non-Fibrous Material:  
95

Lab No.: 7562669(L2)  
Client No.: 3E

**Analyst Observation:** White Plaster  
**Client Description:** Plaster Wall System Gray


**Location:** Second Floor Bathroom  
**Facility:**

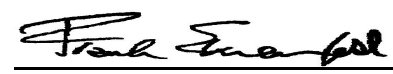
Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562669(L3)  
**Client No.:** 3E

**Analyst Observation:** White Joint Compound  
**Client Description:** Plaster Wall System Gray

**Location:** Second Floor Bathroom  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562670  
**Client No.:** 4A

**Analyst Observation:** Red Brick  
**Client Description:** Red Brick With Gray Mortar

**Location:** Fireplace  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562670(L2)  
**Client No.:** 4A

**Analyst Observation:** Grey Mortar  
**Client Description:** Red Brick With Gray Mortar

**Location:** Fireplace  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562671  
**Client No.:** 4B

**Analyst Observation:** Red Brick  
**Client Description:** Red Brick With Gray Mortar

**Location:** Fireplace  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562671(L2)  
**Client No.:** 4B

**Analyst Observation:** Grey Mortar  
**Client Description:** Red Brick With Gray Mortar

**Location:** Fireplace  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562672  
**Client No.:** 5A

**Analyst Observation:** Red Brick  
**Client Description:** Red Brick With Gray Mortar

**Location:** Inside Fireplace  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Please refer to the Appendix of this report for further information regarding your analysis.

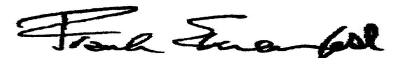
Date Received: 2/1/2023

Date Analyzed: 02/16/2023

Signature: 

Analyst: Aidan Becker

Approved By:



Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562672(L2)  
**Client No.:** 5A

**Analyst Observation:** Grey Mortar  
**Client Description:** Red Brick With Gray Mortar

**Location:** Inside Fireplace  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562673  
**Client No.:** 5B

**Analyst Observation:** Red Brick  
**Client Description:** Red Brick With Gray Mortar

**Location:** Inside Fireplace  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562673(L2)  
**Client No.:** 5B

**Analyst Observation:** Grey Mortar  
**Client Description:** Red Brick With Gray Mortar

**Location:** Inside Fireplace  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7562674  
Client No.: 6A

**Analyst Observation:** White Texture  
**Client Description:** Textured Plaster Ceiling System White

**Location:** First Floor Central Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Lab No.: 7562674(L2)  
Client No.: 6A

**Analyst Observation:** White Plaster  
**Client Description:** Textured Plaster Ceiling System White

**Location:** First Floor Central Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Lab No.: 7562674(L3)  
Client No.: 6A

**Analyst Observation:** Grey Plaster  
**Client Description:** Textured Plaster Ceiling System White

**Location:** First Floor Central Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
3 Hair  
Trace Cellulose

Percent Non-Fibrous Material:  
97

Lab No.: 7562675  
Client No.: 6B

**Analyst Observation:** White Texture  
**Client Description:** Textured Plaster Ceiling System White

**Location:** First Floor Central Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Lab No.: 7562675(L2)  
Client No.: 6B

**Analyst Observation:** White Plaster  
**Client Description:** Textured Plaster Ceiling System White

**Location:** First Floor Central Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Lab No.: 7562675(L3)  
Client No.: 6B

**Analyst Observation:** Grey Plaster  
**Client Description:** Textured Plaster Ceiling System White

**Location:** First Floor Central Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
3 Hair  
1 Cellulose

Percent Non-Fibrous Material:  
96

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature: *David Hayes*  
Analyst: David Hayes

Approved By: *Frank E. Ehrenfeld, III*  
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7562676  
Client No.: 6C

**Analyst Observation:** White Texture  
**Client Description:** Textured Plaster Ceiling System White

**Location:** First Floor Central Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Lab No.: 7562676(L2)  
Client No.: 6C

**Analyst Observation:** White Plaster  
**Client Description:** Textured Plaster Ceiling System White

**Location:** First Floor Central Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Lab No.: 7562676(L3)  
Client No.: 6C

**Analyst Observation:** Grey Plaster  
**Client Description:** Textured Plaster Ceiling System White

**Location:** First Floor Central Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
3 Hair  
Trace Cellulose

Percent Non-Fibrous Material:  
97

Lab No.: 7562677  
Client No.: 7A

**Analyst Observation:** White/Grey Floor Tile  
**Client Description:** Gray 12x12 VFT

**Location:** Bathroom First Floor  
**Facility:**

Percent Asbestos:  
**PC 4.8 Chrysotile**

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
95.2

Note: No mastic present

Lab No.: 7562678  
Client No.: 7B

**Analyst Observation:** Sample Not Analyzed  
**Client Description:** Gray 12x12 VFT

**Location:** Kitchen  
**Facility:**

Percent Asbestos:  
*Sample Not Analyzed*

Percent Non-Asbestos Fibrous Material:  
Sample Not Analyzed

Percent Non-Fibrous Material:

Lab No.: 7562679  
Client No.: 8A

**Analyst Observation:** Brown Floor Material  
**Client Description:** 12x12 Brown Over Multicolored VFT


**Location:** Kitchen  
**Facility:**

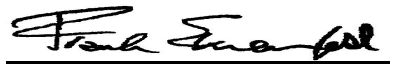
Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
80 Cellulose

Percent Non-Fibrous Material:  
20

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: David Hayes

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562679(L2)  
**Client No.:** 8A

Percent Asbestos:  
*None Detected*

**Analyst Observation:** Tan/Brown Vinyl Sheet Flooring  
**Client Description:** 12x12 Brown Over Multicolored VFT  
Percent Non-Asbestos Fibrous Material:  
15 Cellulose  
Trace Synthetic

**Location:** Kitchen  
**Facility:**  
Percent Non-Fibrous Material:  
85

**Lab No.:** 7562680  
**Client No.:** 8B

Percent Asbestos:  
*None Detected*

**Analyst Observation:** Brown Floor Material  
**Client Description:** 12x12 Brown Over Multicolored VFT  
Percent Non-Asbestos Fibrous Material:  
80 Cellulose

**Location:** Kitchen  
**Facility:**  
Percent Non-Fibrous Material:  
20

**Lab No.:** 7562680(L2)  
**Client No.:** 8B

Percent Asbestos:  
*None Detected*

**Analyst Observation:** Tan/Brown Vinyl Sheet Flooring  
**Client Description:** 12x12 Brown Over Multicolored VFT  
Percent Non-Asbestos Fibrous Material:  
15 Cellulose  
Trace Synthetic

**Location:** Kitchen  
**Facility:**  
Percent Non-Fibrous Material:  
85

**Lab No.:** 7562681  
**Client No.:** 9A

Percent Asbestos:  
*None Detected*

**Analyst Observation:** White Drywall  
**Client Description:** Wallboard White Wall System Over Plaster  
Percent Non-Asbestos Fibrous Material:  
3 Cellulose

**Location:** North Central Room First Floor  
**Facility:**  
Percent Non-Fibrous Material:  
97

**Lab No.:** 7562681(L2)  
**Client No.:** 9A

Percent Asbestos:  
*None Detected*

**Analyst Observation:** White Joint Compound  
**Client Description:** Wallboard White Wall System Over Plaster  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** North Central Room First Floor  
**Facility:**  
Percent Non-Fibrous Material:  
100


**Lab No.:** 7562681(L3)  
**Client No.:** 9A

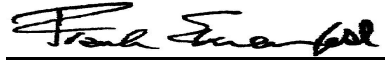
Percent Asbestos:  
*None Detected*

**Analyst Observation:** White Plaster  
**Client Description:** Wallboard White Wall System Over Plaster  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** North Central Room First Floor  
**Facility:**  
Percent Non-Fibrous Material:  
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: David Hayes

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562681(L4)  
**Client No.:** 9A

**Analyst Observation:** Grey Plaster  
**Client Description:** Wallboard White Wall System Over Plaster  
Percent Non-Asbestos Fibrous Material:  
2 Hair  
1 Cellulose

**Location:** North Central Room First Floor  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Fibrous Material:  
97

**Lab No.:** 7562682  
**Client No.:** 9B

**Analyst Observation:** White Drywall  
**Client Description:** Wallboard White Wall System Over Plaster  
Percent Non-Asbestos Fibrous Material:  
3 Cellulose

**Location:** Kitchen  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Fibrous Material:  
97

**Lab No.:** 7562682(L2)  
**Client No.:** 9B

**Analyst Observation:** White Joint Compound  
**Client Description:** Wallboard White Wall System Over Plaster  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Kitchen  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562682(L3)  
**Client No.:** 9B

**Analyst Observation:** White Plaster  
**Client Description:** Wallboard White Wall System Over Plaster  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Kitchen  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562682(L4)  
**Client No.:** 9B


**Analyst Observation:** Grey Plaster  
**Client Description:** Wallboard White Wall System Over Plaster  
Percent Non-Asbestos Fibrous Material:  
3 Hair  
Trace Cellulose


**Location:** Kitchen  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Fibrous Material:  
97

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: David Hayes

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562683      **Analyst Observation:** White Drywall      **Location:** East Room Second Floor  
**Client No.:** 9C      **Client Description:** Wallboard White Wall System Over Plaster      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      3 Cellulose      97

**Lab No.:** 7562683(L2)      **Analyst Observation:** White Joint Compound      **Location:** East Room Second Floor  
**Client No.:** 9C      **Client Description:** Wallboard White Wall System Over Plaster      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100


**Lab No.:** 7562683(L3)      **Analyst Observation:** White Plaster      **Location:** East Room Second Floor  
**Client No.:** 9C      **Client Description:** Wallboard White Wall System Over Plaster      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

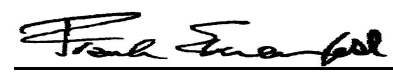
**Lab No.:** 7562683(L4)      **Analyst Observation:** Grey Plaster      **Location:** East Room Second Floor  
**Client No.:** 9C      **Client Description:** Wallboard White Wall System Over Plaster      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      2 Hair  
Trace Cellulose      98

**Lab No.:** 7562684      **Analyst Observation:** White Drywall      **Location:** Second Floor West Room  
**Client No.:** 9D      **Client Description:** Wallboard White Wall System Over Plaster      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      3 Cellulose      97

**Lab No.:** 7562684(L2)      **Analyst Observation:** White Joint Compound      **Location:** Second Floor West Room  
**Client No.:** 9D      **Client Description:** Wallboard White Wall System Over Plaster      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: David Hayes

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562684(L3)  
**Client No.:** 9D

**Analyst Observation:** White Plaster  
**Client Description:** Wallboard White Wall System Over Plaster

**Location:** Second Floor West Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562684(L4)  
**Client No.:** 9D

**Analyst Observation:** Grey Plaster  
**Client Description:** Wallboard White Wall System Over Plaster  
Percent Non-Asbestos Fibrous Material:  
2 Hair  
Trace Cellulose

**Location:** Second Floor West Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Fibrous Material:  
98

**Lab No.:** 7562685  
**Client No.:** 9E

**Analyst Observation:** White Drywall  
**Client Description:** Wallboard White Wall System Over Plaster

**Location:** Second Floor Bathroom  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Note: No joint compound present

**Lab No.:** 7562685(L2)  
**Client No.:** 9E

**Analyst Observation:** White Plaster  
**Client Description:** Wallboard White Wall System Over Plaster

**Location:** Second Floor Bathroom  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562685(L3)  
**Client No.:** 9E

**Analyst Observation:** Grey Plaster  
**Client Description:** Wallboard White Wall System Over Plaster

**Location:** Second Floor Bathroom  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: David Hayes

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562686  
**Client No.:** 10A

**Analyst Observation:** White Drywall  
**Client Description:** White Wallboard Ceiling System Over Wallboard

**Location:** Kitchen  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
3 Cellulose

Percent Non-Fibrous Material:  
97

**Lab No.:** 7562686(L2)  
**Client No.:** 10A

**Analyst Observation:** White Joint Compound  
**Client Description:** White Wallboard Ceiling System Over Wallboard

**Location:** Kitchen  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562687  
**Client No.:** 10B

**Analyst Observation:** White Drywall  
**Client Description:** White Wallboard Ceiling System Over Wallboard

**Location:** Kitchen  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
3 Cellulose

Percent Non-Fibrous Material:  
97

**Lab No.:** 7562687(L2)  
**Client No.:** 10B

**Analyst Observation:** White Joint Compound  
**Client Description:** White Wallboard Ceiling System Over Wallboard

**Location:** Kitchen  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562688  
**Client No.:** 10C

**Analyst Observation:** White Drywall  
**Client Description:** White Wallboard Ceiling System Over Wallboard

**Location:** Kitchen  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
3 Cellulose

Percent Non-Fibrous Material:  
97

**Lab No.:** 7562688(L2)  
**Client No.:** 10C

**Analyst Observation:** White Joint Compound  
**Client Description:** White Wallboard Ceiling System Over Wallboard


**Location:** Kitchen  
**Facility:**

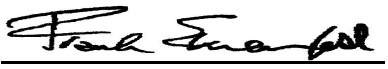
Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: David Hayes

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562689  
**Client No.:** 11A  
Percent Asbestos:  
*None Detected*

**Analyst Observation:** Cream/Brown Countertop  
**Client Description:** Cream Countertop  
Percent Non-Asbestos Fibrous Material:  
45 Cellulose

**Location:** Kitchen  
**Facility:**  
Percent Non-Fibrous Material:  
55

**Lab No.:** 7562689(L2)  
**Client No.:** 11A  
Percent Asbestos:  
*None Detected*

**Analyst Observation:** Tan Mastic  
**Client Description:** Cream Countertop  
Percent Non-Asbestos Fibrous Material:  
Trace Cellulose

**Location:** Kitchen  
**Facility:**  
Percent Non-Fibrous Material:  
100

**Lab No.:** 7562690  
**Client No.:** 11B  
Percent Asbestos:  
*None Detected*

**Analyst Observation:** Cream/Brown Countertop  
**Client Description:** Cream Countertop  
Percent Non-Asbestos Fibrous Material:  
45 Cellulose

**Location:** Kitchen  
**Facility:**  
Percent Non-Fibrous Material:  
55

**Lab No.:** 7562690(L2)  
**Client No.:** 11B  
Percent Asbestos:  
*None Detected*

**Analyst Observation:** Tan Mastic  
**Client Description:** Cream Countertop  
Percent Non-Asbestos Fibrous Material:  
Trace Cellulose

**Location:** Kitchen  
**Facility:**  
Percent Non-Fibrous Material:  
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature: *David Hayes*  
Analyst: David Hayes

Approved By: *Frank E. Ehrenfeld, III*  
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/16/2023 Report No.: 677293 - PLM Project: Nobel County; 812 W St Caldwell Project No.: 089229.00.04
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562691 <b>Client No.:</b> 12A	<b>Analyst Observation:</b> White Drywall <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> North Central Room First Floor <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	<u>Percent Non-Fibrous Material:</u> 90

<b>Lab No.:</b> 7562691(L2) <b>Client No.:</b> 12A	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> North Central Room First Floor <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562692 <b>Client No.:</b> 12B	<b>Analyst Observation:</b> White Drywall <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Kitchen <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	<u>Percent Non-Fibrous Material:</u> 90

<b>Lab No.:</b> 7562692(L2) <b>Client No.:</b> 12B	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Kitchen <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562693 <b>Client No.:</b> 12C	<b>Analyst Observation:</b> White Drywall <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Second Floor East Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	<u>Percent Non-Fibrous Material:</u> 90

<b>Lab No.:</b> 7562693(L2) <b>Client No.:</b> 12C	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Second Floor East Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Maxamillian Roselli

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562694      **Analyst Observation:** Multi-Colored Vinyl Sheet Flooring      **Location:** Far East First Floor Room  
**Client No.:** 13A      **Client Description:** Floral Vinyl Sheet Flooring      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      10 Cellulose      90

**Lab No.:** 7562695      **Analyst Observation:** Multi-Colored Vinyl Sheet Flooring      **Location:** Far East First Floor Room  
**Client No.:** 13B      **Client Description:** Floral Vinyl Sheet Flooring      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      20 Cellulose      80

**Lab No.:** 7562696      **Analyst Observation:** Yellow Insulation      **Location:** Laundry Room  
**Client No.:** 14A      **Client Description:** Yellow Insulation      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      60 Cellulose      40

**Lab No.:** 7562697      **Analyst Observation:** Yellow Insulation      **Location:** Laundry Room  
**Client No.:** 14B      **Client Description:** Yellow Insulation      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      60 Cellulose      40

**Lab No.:** 7562698      **Analyst Observation:** Yellow Insulation      **Location:** Laundry Room  
**Client No.:** 14C      **Client Description:** Yellow Insulation      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      60 Cellulose      40

**Lab No.:** 7562699      **Analyst Observation:** White Glazing      **Location:** East Ext Window  
**Client No.:** 15A      **Client Description:** White Window Glaze      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Maxamillian Roselli

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562700      **Analyst Observation:** White Glazing      **Location:** North Ext Window  
**Client No.:** 15B      **Client Description:** White Window Glaze      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562701      **Analyst Observation:** Tan Ceramic      **Location:** North Wall Ext  
**Client No.:** 16A      **Client Description:** Red Block With Gray Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562701(L2)      **Analyst Observation:** Grey Mortar      **Location:** North Wall Ext  
**Client No.:** 16A      **Client Description:** Red Block With Gray Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100


**Lab No.:** 7562702      **Analyst Observation:** Tan Ceramic      **Location:** North Wall Ext  
**Client No.:** 16B      **Client Description:** Red Block With Gray Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

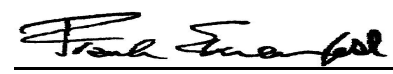
**Lab No.:** 7562702(L2)      **Analyst Observation:** Grey Mortar      **Location:** North Wall Ext  
**Client No.:** 16B      **Client Description:** Red Block With Gray Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562703      **Analyst Observation:** Grey Non-Fibrous      **Location:** West Roof  
**Client No.:** 17A      **Client Description:** Red Asphaltic Roofing System      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

Different Material analyzed than listed on the sample log.

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Maxamillian Roselli

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562704  
**Client No.:** 17B

**Analyst Observation:** Grey Non-Fibrous  
**Client Description:** Red Asphaltic Roofing System

**Location:** West Roof  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Different Material analyzed than listed on the sample log.

**Lab No.:** 7562705  
**Client No.:** 18A

**Analyst Observation:** Black/Green Shingle  
**Client Description:** Black Asphalt I'd Roof System

**Location:** North Roof  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
5 Cellulose  
15 Fibrous Glass

Percent Non-Fibrous Material:  
80

**Lab No.:** 7562705(L2)  
**Client No.:** 18A

**Analyst Observation:** Black Tar Paper  
**Client Description:** Black Asphalt I'd Roof System

**Location:** North Roof  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
10 Cellulose

Percent Non-Fibrous Material:  
90

**Lab No.:** 7562706  
**Client No.:** 18B

**Analyst Observation:** Black/Green Shingle  
**Client Description:** Black Asphalt I'd Roof System

**Location:** North Garage Roof  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
5 Cellulose  
15 Fibrous Glass

Percent Non-Fibrous Material:  
80

**Lab No.:** 7562706(L2)  
**Client No.:** 18B

**Analyst Observation:** Black Tar Paper  
**Client Description:** Black Asphalt I'd Roof System

**Location:** North Garage Roof  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
10 Cellulose

Percent Non-Fibrous Material:  
90

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023

Date Analyzed: 02/16/2023

Signature: 

Analyst: Maxamillian Roselli

Approved By: 

Frank E. Ehrenfeld, III  
Laboratory Director

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

## Appendix to Analytical Report

**Customer Contact:** Davin Ojala

**Method:** 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, USEPA 600, R93-116 and NYSDOH ELAP 198.1 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

**iATL Customer Service:** customerservice@iatl.com

**iATL Office Manager:** wchampion@iatl.com

**iATL Account Representative:** Shirley Clark

**Sample Login Notes:** See Batch Sheet Attached

**Sample Matrix:** Bulk Building Materials

**Exceptions Noted:** See Following Pages

### General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at [www.iATL.com](http://www.iATL.com) and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

### Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

### Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB) See additional information at the end of this appendix.

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)  
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

### Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at [customerservice@iatl.com](mailto:customerservice@iatl.com).

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

### Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gänge, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) [www.atsdr.cdc.gov](http://www.atsdr.cdc.gov), United States Geological Survey (USGS) [www.minerals.usgs.gov/minerals/](http://www.minerals.usgs.gov/minerals/), US EPA [www.epa.gov/asbestos](http://www.epa.gov/asbestos). The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite ([https://www.wadsworth.org/sites/default/files/WebDoc/I198\\_8\\_02\\_2.pdf](https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf))

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1) **Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116  
**Requirements/Comments:** Minimum of 0.1 g of sample. ~0.25% for most samples.

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677293 - PLM  
Project: Nobel County; 812 W St Caldwell  
Project No.: 089229.00.04

Client: SOI995

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Suspension" only.

\*With advance notice and confirmation by the laboratory.

\*\*Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM CERTIFICATION MANUAL - ITEM No. 198.1, Revision Date 5/6/16)

\*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other than SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% vermiculite.

Statistically derived uncertainty with any measure should be taken into consideration when reviewing and interpreting all reported data and results. A more comprehensive listing of accuracy, precision, and uncertainty as it impacts this method is available upon request.

**APPENDIX E**  
**919 ½ BELFORD STREET, CALDWELL, OHIO**



## **ASBESTOS ASSESSMENT SUMMARY**

### **919 ½ BELFORD STREET, CALDWELL, OHIO**

#### **SITE DESCRIPTION AND STRUCTURE CONDITION**

The 919 ½ Belford Street site was located south of Belford Street between Marietta Road and Ross Street, in Caldwell, Ohio. The site was developed with an approximately 1,000 square-foot mobile home that was unoccupied at the time of our assessment.

#### **ASBESTOS SAMPLING RESULTS**

The United States Environmental Protection Agency (USEPA) and the Occupational Safety and Health Administration (OSHA) asbestos regulations define an ACM as any material that contains greater than one percent asbestos. Suspect ACMs not analyzed for asbestos content are considered assumed ACMs. According to the USEPA National Emission Standard for Hazardous Air Pollutants asbestos regulation (NESHAP, 40 CFR Part 61 M), friable ACMs and nonfriable ACMs which could be expected to be disturbed and become friable are considered Regulated Asbestos Containing Materials (RACMs) and must be removed prior to demolition activities. Nonfriable ACMs, if in good condition and not subjected to forces that would render them friable, are permitted by USEPA to remain in a structure during demolition. According to the OSHA Asbestos Construction Standard, demolition activities involving ACMs must be conducted by trained personnel in accordance with the standard and in accordance with the Ohio Administrative Code (OAC). Refer to Section 2.3.1 of the report for additional information regarding asbestos work requirements and notifications.

Materials containing trace asbestos (equal to or less than one percent asbestos) are not considered RACM or ACM but are subject to the engineering and work practice requirements of paragraphs (g)(1), (g)(2), and (g)(3) of the OSHA Asbestos Construction Standard.

A summary of the descriptions of suspect ACMs identified, RACM, ACM, Trace Asbestos, or non-ACM categorization of the materials, estimated quantity, friability, condition, and locations of the materials sampled is presented in the attached Table 1.

#### **RECOMMENDATIONS**

- If the identified nonfriable ACMs not likely to be rendered friable during demolition will be removed prior to demolition, we recommend that they be removed by a licensed asbestos contractor, and in accordance with the asbestos work requirements of the OSHA Asbestos Construction Standard. If one or more of these nonfriable ACMs will remain intact during demolition, we recommend that the demolition activities be conducted by staff trained to conduct demolition involving those ACMs, supervised by a 40-hour trained asbestos supervisor accredited by the Ohio Environmental Protection Agency (OEPA) and conducted in accordance with the OSHA Asbestos Construction Standard.
- We recommend proper notification to the OEPA prior to removal of ACMs and demolition of the structure.

- We recommend asbestos abatement project design by an Asbestos Hazard Abatement Project Designer that is trained in accordance with USEPA requirements and accredited by the OEPA. We also recommend monitoring asbestos removal work or disturbance with air sampling, visual verification, and clearance air monitoring performed by an independent third party (such as SME). We recommend notification of the presence, quantity, and location of ACMs and communication of the hazards associated with them in accordance.

## ASBESTOS BULK SAMPLING RESULTS TABLE



**TABLE 1  
ASBESTOS BULK SAMPLING RESULTS  
919 1/2 BELFORD STREET, CALDWELL, OHIO  
SME PROJECT NUMBER: 089229.00.004**

The quantities presented in this table are intended to be “Order of Magnitude” estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
1	Black ¼" bead exterior window caulk	Non-ACM	0.5 sq. ft. (2 windows)	Nonfriable	Good	Exterior windows
2	Tan ¼" bead door caulk exterior	Non-ACM	0.5 sq. ft. (1 door)	Nonfriable	Damaged	Exterior door west
3	Gray ¼" bead exterior window caulk	Non-ACM	0.5 sq. ft. (2 windows)	Nonfriable	Good	Exterior windows
4	White ¼" bead exterior window caulk	Non-ACM	0.5 sq. ft. (1 window)	Nonfriable	Good	East window
5	Black roofing tar  Silver Paint	Non-ACM  <b>ACM</b>	1,000 sq. ft.	Nonfriable	Damaged	Roof
6	Faux wood 12" x 12" vinyl floor tile	Non-ACM	35 sq. ft.	Nonfriable	Significantly Damaged	East entrance
7	White wallboard wall system  White drywall  White joint compound	Non-ACM  Non-ACM	1,900 sq. ft.	Nonfriable	Damaged	Throughout
8	Yellow wall and ceiling insulation	Non-ACM	5,000 sq. ft.	Friable	Damaged	Throughout
9	White work track 10' x 1' ceiling tiles	Non-ACM	400 sq. ft.	Friable	Significantly Damaged	Throughout
10	Yellow wall glue on back of wood paneling	Non-ACM	20 sq. ft.	Nonfriable	Good	South room
11	White ¼" bead sink caulk	Non-ACM	0.5 sq. ft.	Nonfriable	Good	Bathroom south
12	Tan vinyl sheet flooring  White mastic	Non-ACM  Non-ACM	300 sq. ft.	Nonfriable	Damaged	Bathroom and closet, bedrooms central under carpet

**TABLE 1  
ASBESTOS BULK SAMPLING RESULTS  
919 1/2 BELFORD STREET, CALDWELL, OHIO  
SME PROJECT NUMBER: 089229.00.004**

The quantities presented in this table are intended to be “Order of Magnitude” estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
13	Cream and blue 12' x 12" vinyl floor tile	Non-ACM	130 sq. ft.	Nonfriable	Damaged	Kitchen
14	Cream countertop  Yellow mastic	Non-ACM  Non-ACM	10 sq. ft.	Nonfriable	Good	Kitchen
15	Yellow 10' x 1' ceiling tiles	Non-ACM	100 sq. ft.	Friable	Good	Central bedroom
16	Gray 12" x 12" vinyl floor tile  Yellow mastic	Non-ACM  Not Sampled  <b>Assumed ACM</b>	80 sq. ft.	Nonfriable	Damaged	Hallway
17	Pink 12" x 12" vinyl floor tile	Non-ACM	20 sq. ft.	Nonfriable	Damaged	North bathroom
18	¼" yellow interior door caulk	Non-ACM	0.5 sq. ft.  (1 door)	Nonfriable	Damaged	East door interior

**NOTES:**

HA = Homogenous Area.

**RACM** = Regulated Asbestos-Containing Material. Must be removed from the building prior to demolition.

**ACM** = Asbestos-Containing Material as defined by USEPA and OSHA definition.

**Trace Asbestos** = Equal to or less than 1% asbestos detected.

Friable = Material that can be crumbled or reduced to powder by hand pressure.

NQ = Not quantified

Material conditions are described as defined in AHERA, 40 CFR Part 763.

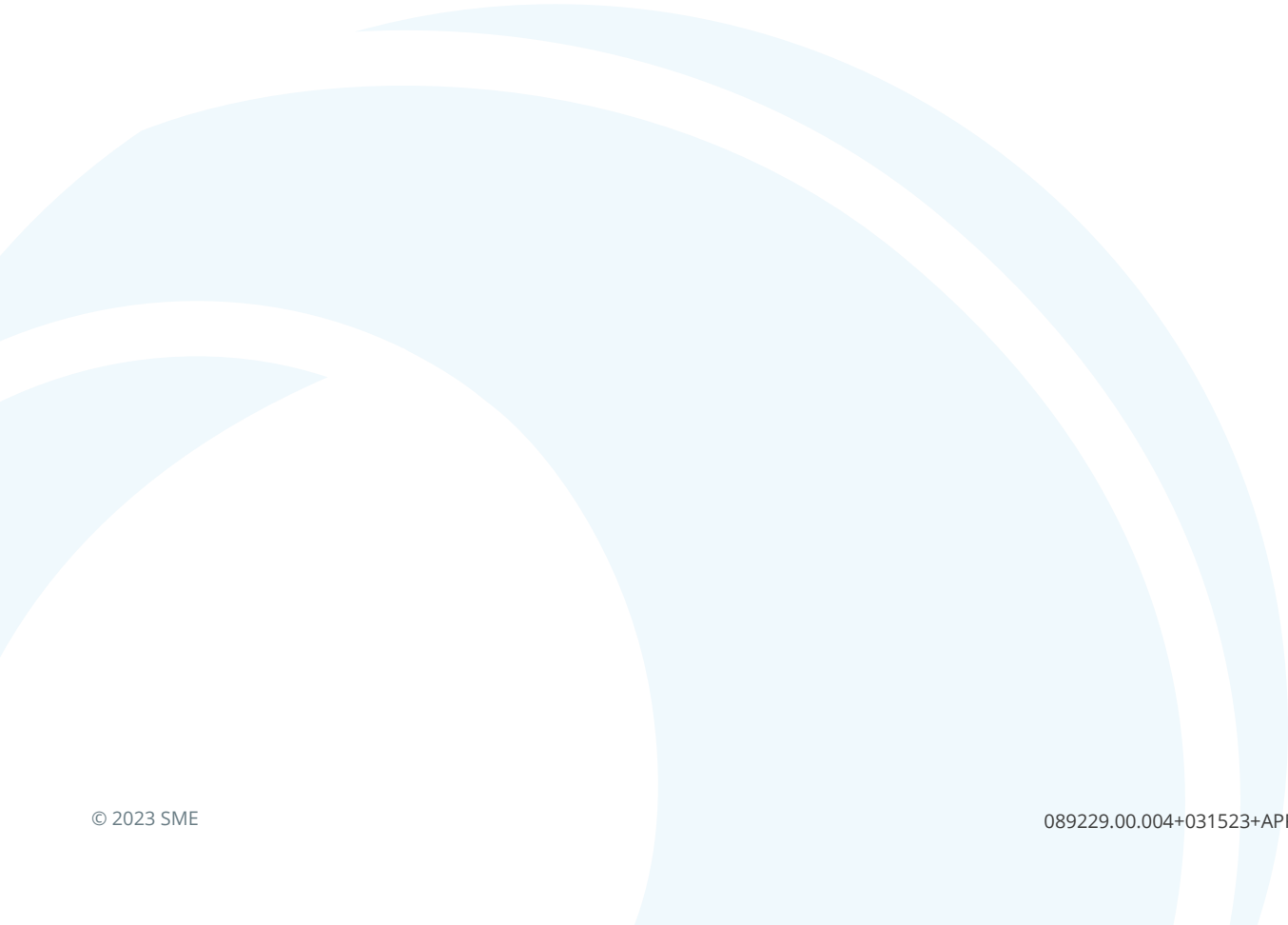
In. ft. = linear feet

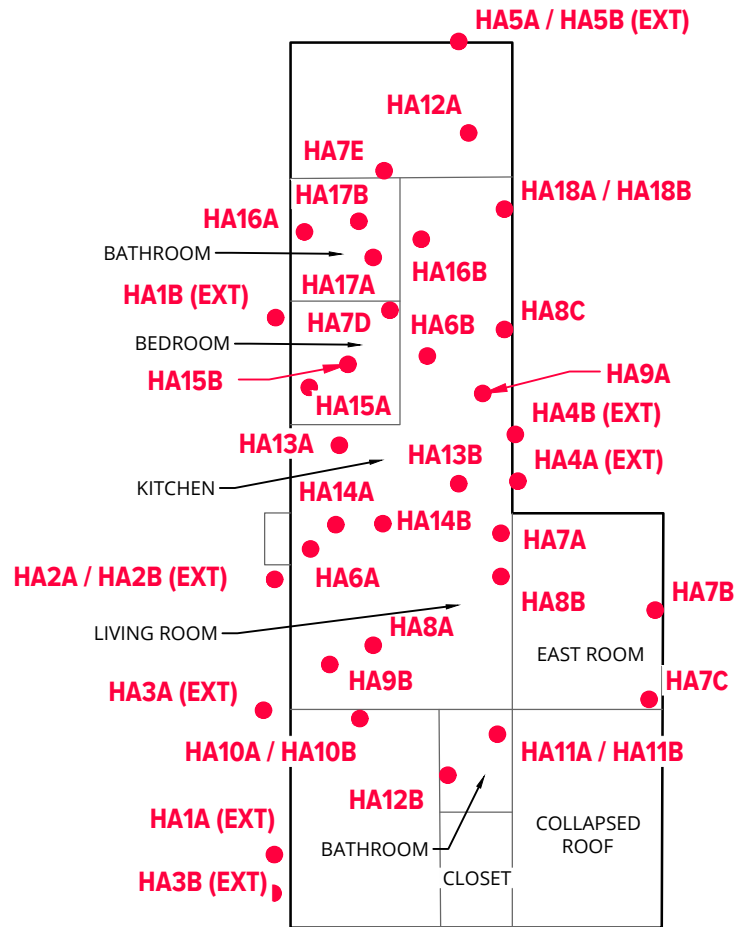
sq. ft. = square feet

cu. ft. = cubic feet

\* = Estimate of visible, accessible materials. Additional quantities and materials may be present in concealed spaces not assessed

**SAMPLE LOCATION DIAGRAM**





**LEGEND**

● BULK ASBESTOS SAMPLE

NOTE:

- 1. BUILDING FEATURES AND SAMPLE LOCATIONS ARE APPROXIMATE.



No.	Revision Date	Date	03-08-2023
	Drawn By	CRC	
	Designed By	KP	
	Scale	Not To Scale	
	Project	089229.00.004	

**ASBESTOS ASSESSMENT SAMPLE LOCATION DIAGRAM**  
**NOBLE CO ENVIRONMENTAL CONSULTING**  
**919 1/2 BELFORD STREET**  
**CALDWELL, OHIO**



www.sme-usa.com

**Figure No. 4**

**CERTIFICATE OF ANALYSIS  
CHAIN OF CUSTODY FORM**

## Chain of Custody

-Bulk Asbestos -

<b>Contact Information</b>	
<b>Client Company:</b> <u>SME</u>	<b>Project Number:</b> <u>089229.00.04</u>
<b>Office Address:</b> <u>4401 Lyman Drive St C</u>	<b>Project Name:</b> <u>Noble County</u>
<b>City, State, Zip:</b> <u>Hilliard, Ohio, 43026</u>	<b>Primary Contact:</b> <u>Kelsea Pohl</u>
<b>Fax Number:</b> _____	<b>Office Phone:</b> _____
<b>Email Address:</b> <u>kelsea.pohl@sme-usa.com</u>	<b>Cell Phone:</b> <u>216 536 2581</u>

**PLM Instructions:**

- PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993
- PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982
- PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010
- TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009

- PLM: Point Counting
  - PC: via ELAP 198.1
  - PC: 400 Points
  - PC: 800 Points \*
  - PC: 1600 Points \*
- PLM: Analyze Until Positive (Positive Stop)
  - AUP: by Homogenous Area as Noted
  - AUP: by Material Type as Noted
- PLM: NOB via 198.6
  - PLM: Friable via EPA 600 2.3
  - If <1% by PLM, to TEM via 198.4 \*
  - If <1% by PLM, Hold for Instructions
- PLM: Instructions for Multi-Layered Samples
  - Analyze and Report All Separable Layers per EPA 600
  - Report Composite for Drywall Systems per NESHAP
  - Report All Layers and Composite Where Applicable
  - Only Analyze and Report Specifically Noted Layer
- PLM: Non-Building Material\*\*\* (Dust, Wipe, Tape)
  - Soil or Vermiculite Analysis\*
  - CARB 435

**Special Instructions:** REFER TO ATTACHED SME CHAIN OF CUSTODY FOR ANALYSIS INSTRUCTIONS

\* Additional charge and turnaround may be required    \*\* Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory

**Turnaround Time**

Preliminary Results Requested Date: \_\_\_\_\_

Specific date / time

10 Day  
  5 Day  
  3 Day  
  2 Day  
  1 Day\*  
  12 Hour\*\*  
  6 Hour\*\*  
  RUSH\*\*

Verbal  
  Email  
  Fax

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\*

**Chain of Custody**

Relinquished (Name/Organization): <u>CAYIA Woods SME</u>	Date: <u>1/30/23</u>	Time: <u>3:00 PM</u>	<b>RECEIVED</b>
Received (Name / iATL): _____	Date: _____	Time: _____	L
Sample Login (Name / iATL): _____	Date: _____	Time: _____	
Analysis(Name(s) / iATL): <u>[Signature]</u>	Date: <u>2/16/23</u>	Time: _____	
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____	FEB -1 2023
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____	Time: _____



9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054  
Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

# Sample Log

-Bulk Asbestos -

Client: SME

Project: 919 1/2 Belford Street

Sampling Date/Time: 1/27/2023

Bulk Asbestos Sample Log			
Client Sample #	iATL #	Location/Description	Notes



# CHAIN OF CUSTODY LOG

4401 Lyman Drive, St C  
 Hilliard, OH, 43026  
 Phone 614-705-2250  
 FAX 614-705-2250

CLIENT NAME: Noble County  
 SITE ADDRESS: 919 1/2 Belford Street, Caldwell

BULK SAMPLE ANALYSIS REQUESTED: EPA 600R-93/116, 1993 with PLM Point Counting PC: 400 points

Note: Multiple samples of each homogeneous area may have been collected. If asbestos is detected at greater than 1% in first sample, DO NOT analyze subsequent samples from that area with exception of plaster and wallboard system samples. Please analyze all plaster and wallboard system samples, and provide individual layer analysis for each sample. If asbestos is detected in an individual layer of a wallboard system sample, please provide composite analysis. Please provide mastic analysis for floor tile samples. Treat mastic as a separate homogeneous area. For each thermal system insulation sample, please analyze the insulation portion(s) of each sample first. If asbestos is detected at 1% or greater do not analyze the insulation covering layer of the sample. Please provide the insulation covering analysis for thermal system insulation samples where asbestos is not detected in insulation layer(s) or where asbestos is detected at less than 1%.

AREA #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	#
-				1
				2
				3
				4
				5
-				6
				7
				8
				9
				10
-				11
				12
				13
				14
				15
-				16
				17
				18
				19
				20
-				21
				22
				23
				24
				25
-				26
				27
				28
				29
-				30
				31

RELINQUISHED BY: Conrad Woods / SME DATE: 11/30/23 TIME: 3:00pm  
 RECEIVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

Please provide 10 day turnaround, emailed to Kelsea Pohl at [Kelsea.pohl@sme-usa.com](mailto:Kelsea.pohl@sme-usa.com).

**SME USE ONLY**

Date Sampled: 11/27/2023

SME Project #: 089229.00.04





CHAIN OF CUSTODY LOG

Project No: 089229.00.004

Project: 919 1/2 Belford

Address:

Date Sampled: 01/27/2023

Note: Multiple samples of each homogeneous area may have been collected. If asbestos is detected at greater than 1% in first sample, DO NOT analyze subsequent samples from that area with exception of plaster samples, wallboard system samples, and spray applied fireproofing (SAFP) samples. Please analyze all plaster, wallboard, and SAFP samples, and provide individual layer analysis for each sample. If asbestos is detected at a concentration greater than 1% in an individual layer of a wallboard system sample, please provide composite analysis for that sample. Please provide mastic analysis for floor tile samples. Treat mastic as a separate homogeneous area. For each thermal system insulation sample, please analyze the insulation portion(s) of each sample first. If asbestos is detected at 1% or greater do not analyze the insulation covering layer of the sample. Please provide the insulation covering analysis for thermal system insulation samples where asbestos is not detected in insulation layer(s) or where asbestos is detected at less than 1%.

Sample ID	Description	Sample Location	#
1A	Black ext 1/4 inch bead window caulk	West ext	7562618
1B	Black ext 1/4 inch bead window caulk	West ext	7562619
2A	Tan 1/4 inch bead door caulk exterior	West door ext	7562620
2B	Tan 1/4 inch bead door caulk exterior	West door ext	7562621
3A	Gray 1/4 inch bead window caulk	West side ext	7562622
3B	Gray 1/4 inch bead window caulk	West side ext	7562623
4A	1/4 inch bead white window caulk ext	East ext window	7562624
4B	1/4 inch bead white window caulk ext	East ext window	7562625
5A	Black roofing tar, Black	North roof	7562626
5B	Black roofing tar, Black	North roof	7562627
6A	12x12 faux wood vft with clear mastic	East entryway	7562628
6B	12x12 faux wood vft with clear mastic	East entryway	7562629
7A	White wallboard wall system	Living room	7562630
7B	White wallboard wall system	East room	7562631
7C	White wallboard wall system	East room	7562632
7D	White wallboard wall system	West central room	7562633
7E	White wallboard wall system	North room	7562634
8A	Yellow wall and ceiling insulation	Living room	7562635
8B	Yellow wall and ceiling insulation	Living room	7562636
8C	Yellow wall and ceiling insulation	Kitchen	7562637
9A	White 10x1 worm track ct	Hallway	7562638
9B	White 10x1 worm track ct	Living room	7562639
10A	Yellow wall glue on back of wood paneling	Southroom	7562640
10B	Yellow wall glue on back of wood paneling	South room	7562641
11A	White 1/4 inch bead sink caulk	South bathroom	7562642
11B	White 1/4 inch bead sink caulk	South bathroom	7562643
12A	Tan vinyl sheet flooring with white mastic	North room	7562644
12B	Tan vinyl sheet flooring with white mastic	South bathroom	7562645
13A	Cream and blue 12x12vft	Kitchen	7562646
13B	Cream and blue 12x12vft	Kitchen	7562647
14A	Cream countertop with yellow mastic	Kitchen	7562648
14B	Cream countertop with yellow mastic	Kitchen	7562649
15A	Yellow 10x1 ct	West central room	7562650



**CHAIN OF CUSTODY LOG**

Project No: 089229.00.004

Project: 919 1/2 Belford

Address: ,

Sample ID	Description	Sample Location	#
15B	Yellow 10x1 ct	West central room	7362651
16A	Gray 12x12 vft with yellow mastic	North bathroom	7562652
16B	Gray 12x12 vft with yellow mastic	Hallway	7362653
17A	Pink 12x12 vft	North bathroom	7562654
17B	Pink 12x12 vft	North bathroom	7562655
18A	1/4 inch yellow int door caulk	East door int	7362656
18B	1/4 inch yellow int door caulk	East door int	7362657

ACCREDITATION #:

LICENSED ASBESTOS INSPECTOR:

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/16/2023 Report No.: 677292 - PLM Project: Nobel County; 919 1/2 Belford St Caldwell Project No.: 089229.00.04
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562618	<b>Analyst Observation:</b> White Caulk	<b>Location:</b> West Ext.
<b>Client No.:</b> 1A	<b>Client Description:</b> Black Ext. 1/4 Inch Bead Window Caulk	<b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Sample color different than client description.

<b>Lab No.:</b> 7562619	<b>Analyst Observation:</b> White Caulk	<b>Location:</b> West Ext.
<b>Client No.:</b> 1B	<b>Client Description:</b> Black Ext. 1/4 Inch Bead Window Caulk	<b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Sample color different than client description.

<b>Lab No.:</b> 7562620	<b>Analyst Observation:</b> Tan Caulk	<b>Location:</b> West Door Ext.
<b>Client No.:</b> 2A	<b>Client Description:</b> Tan 1/4 Inch Bead Door Caulk Exterior	<b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562621	<b>Analyst Observation:</b> Tan Caulk	<b>Location:</b> West Door Ext.
<b>Client No.:</b> 2B	<b>Client Description:</b> Tan 1/4 Inch Bead Door Caulk Exterior	<b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


<b>Lab No.:</b> 7562622	<b>Analyst Observation:</b> White Caulk	<b>Location:</b> West Side Ext.
<b>Client No.:</b> 3A	<b>Client Description:</b> Grey 1/4 Inch Bead Window Caulk	<b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

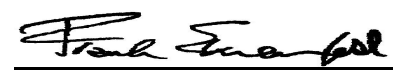
Sample color different than client description.

<b>Lab No.:</b> 7562623	<b>Analyst Observation:</b> White Caulk	<b>Location:</b> West Side Ext.
<b>Client No.:</b> 3B	<b>Client Description:</b> Grey 1/4 Inch Bead Window Caulk	<b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Sample color different than client description.

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Dean Andrews

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/16/2023 Report No.: 677292 - PLM Project: Nobel County; 919 1/2 Belford St Caldwell Project No.: 089229.00.04
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562624 <b>Client No.:</b> 4A	<b>Analyst Observation:</b> White Caulk <b>Client Description:</b> 1/4 Bead White Window Caulk Ext.	<b>Location:</b> East Ext. Window <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562625 <b>Client No.:</b> 4B	<b>Analyst Observation:</b> White Caulk <b>Client Description:</b> 1/4 Bead White Window Caulk Ext.	<b>Location:</b> East Ext. Window <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562626 <b>Client No.:</b> 5A	<b>Analyst Observation:</b> Black Tar <b>Client Description:</b> Black Roofing Tar, Black	<b>Location:</b> North Roof <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562626(L2) <b>Client No.:</b> 5A	<b>Analyst Observation:</b> Silver Paint <b>Client Description:</b> Black Roofing Tar, Black	<b>Location:</b> North Roof <b>Facility:</b>
<u>Percent Asbestos:</u> <i>PC 4.2 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 95.8


<b>Lab No.:</b> 7562627 <b>Client No.:</b> 5B	<b>Analyst Observation:</b> Sample Not Analyzed <b>Client Description:</b> Black Roofing Tar, Black	<b>Location:</b> North Roof <b>Facility:</b>
<u>Percent Asbestos:</u> <i>Sample Not Analyzed</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Sample Not Analyzed	<u>Percent Non-Fibrous Material:</u>

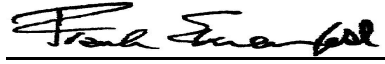
Note: Positive stop analysis instructions per client for each homogeneous sample group.

<b>Lab No.:</b> 7562628 <b>Client No.:</b> 6A	<b>Analyst Observation:</b> Brown/Clear Flooring <b>Client Description:</b> 12x12 Faux Wood VFT With Clear Mastic	<b>Location:</b> East Entryway <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Insufficient mastic to analyze

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Dean Andrews

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/16/2023 Report No.: 677292 - PLM Project: Nobel County; 919 1/2 Belford St Caldwell Project No.: 089229.00.04
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562629 <b>Client No.:</b> 6B	<b>Analyst Observation:</b> Brown/Clear Flooring <b>Client Description:</b> 12x12 Faux Wood VFT With Clear Mastic	<b>Location:</b> East Entryway <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Insufficient mastic to analyze

<b>Lab No.:</b> 7562630 <b>Client No.:</b> 7A	<b>Analyst Observation:</b> White Drywall <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Living Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 7 Cellulose	<u>Percent Non-Fibrous Material:</u> 93


<b>Lab No.:</b> 7562630(L2) <b>Client No.:</b> 7A	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Living Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

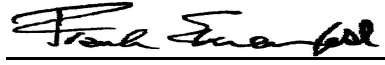
<b>Lab No.:</b> 7562631 <b>Client No.:</b> 7B	<b>Analyst Observation:</b> White Drywall <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> East Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 7 Cellulose	<u>Percent Non-Fibrous Material:</u> 93

<b>Lab No.:</b> 7562631(L2) <b>Client No.:</b> 7B	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> East Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562631(L3) <b>Client No.:</b> 7B	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> East Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Dean Andrews

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008  
  
Client: SOI995

Report Date: 2/16/2023  
Report No.: 677292 - PLM  
Project: Nobel County; 919 1/2 Belford St Caldwell  
Project No.: 089229.00.04

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562632      **Analyst Observation:** White Drywall      **Location:** East Room  
**Client No.:** 7C      **Client Description:** White Wallboard Wall System      **Facility:**  
**Percent Asbestos:**      **Percent Non-Asbestos Fibrous Material:**      **Percent Non-Fibrous Material:**  
*None Detected*      7 Cellulose      93

**Lab No.:** 7562632(L2)      **Analyst Observation:** White Joint Compound      **Location:** East Room  
**Client No.:** 7C      **Client Description:** White Wallboard Wall System      **Facility:**  
**Percent Asbestos:**      **Percent Non-Asbestos Fibrous Material:**      **Percent Non-Fibrous Material:**  
*None Detected*      None Detected      100


**Lab No.:** 7562633      **Analyst Observation:** White Drywall      **Location:** West Central Room  
**Client No.:** 7D      **Client Description:** White Wallboard Wall System      **Facility:**  
**Percent Asbestos:**      **Percent Non-Asbestos Fibrous Material:**      **Percent Non-Fibrous Material:**  
*None Detected*      7 Cellulose      93

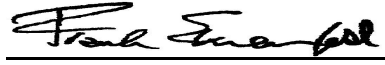
**Lab No.:** 7562633(L2)      **Analyst Observation:** White Joint Compound      **Location:** West Central Room  
**Client No.:** 7D      **Client Description:** White Wallboard Wall System      **Facility:**  
**Percent Asbestos:**      **Percent Non-Asbestos Fibrous Material:**      **Percent Non-Fibrous Material:**  
*None Detected*      None Detected      100

**Lab No.:** 7562633(L3)      **Analyst Observation:** White Joint Compound      **Location:** West Central Room  
**Client No.:** 7D      **Client Description:** White Wallboard Wall System      **Facility:**  
**Percent Asbestos:**      **Percent Non-Asbestos Fibrous Material:**      **Percent Non-Fibrous Material:**  
*None Detected*      None Detected      100

**Lab No.:** 7562634      **Analyst Observation:** White Drywall      **Location:** North Room  
**Client No.:** 7E      **Client Description:** White Wallboard Wall System      **Facility:**  
**Percent Asbestos:**      **Percent Non-Asbestos Fibrous Material:**      **Percent Non-Fibrous Material:**  
*None Detected*      7 Cellulose      93

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Dean Andrews

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677292 - PLM  
Project: Nobel County; 919 1/2 Belford St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562634(L2)  
**Client No.:** 7E

**Analyst Observation:** White Joint Compound  
**Client Description:** White Wallboard Wall System

**Location:** North Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562635  
**Client No.:** 8A

**Analyst Observation:** Yellow Insulation  
**Client Description:** Yellow Wall And Ceiling Insulation

**Location:** Living Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
95 Fibrous Glass

Percent Non-Fibrous Material:  
5

**Lab No.:** 7562636  
**Client No.:** 8B

**Analyst Observation:** Yellow Insulation  
**Client Description:** Yellow Wall And Ceiling Insulation

**Location:** Living Room  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
93 Fibrous Glass  
2 Cellulose

Percent Non-Fibrous Material:  
5

**Lab No.:** 7562637  
**Client No.:** 8C

**Analyst Observation:** Yellow Insulation  
**Client Description:** Yellow Wall And Ceiling Insulation

**Location:** Kitchen  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
90 Fibrous Glass

Percent Non-Fibrous Material:  
10

**Lab No.:** 7562637(L2)  
**Client No.:** 8C

**Analyst Observation:** White Drywall  
**Client Description:** Yellow Wall And Ceiling Insulation

**Location:** Kitchen  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
7 Cellulose

Percent Non-Fibrous Material:  
93

**Lab No.:** 7562638  
**Client No.:** 9A

**Analyst Observation:** White Ceiling Tile  
**Client Description:** White 10x1 Worm Track CT

**Location:** Hallway  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
90 Cellulose

Percent Non-Fibrous Material:  
10

Please refer to the Appendix of this report for further information regarding your analysis.


Date Received: 2/1/2023

Date Analyzed: 02/16/2023

Signature: 

Analyst: Dean Andrews

Approved By:



Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677292 - PLM  
Project: Nobel County; 919 1/2 Belford St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562639      **Analyst Observation:** White Ceiling Tile      **Location:** Living Room  
**Client No.:** 9B      **Client Description:** White 10x1 Worm Track CT      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      90 Cellulose      10

**Lab No.:** 7562640      **Analyst Observation:** Tan Mastic      **Location:** South Room  
**Client No.:** 10A      **Client Description:** Yellow Wall Glue On Back Of Wood      **Facility:**  
Paneling  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100


**Lab No.:** 7562641      **Analyst Observation:** Tan Mastic      **Location:** South Room  
**Client No.:** 10B      **Client Description:** Yellow Wall Glue On Back Of Wood      **Facility:**  
Paneling  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

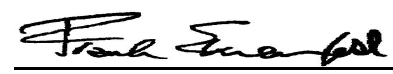
**Lab No.:** 7562642      **Analyst Observation:** White Caulk      **Location:** South Bathroom  
**Client No.:** 11A      **Client Description:** White 1/4 Inch Bead Sink Caulk      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562643      **Analyst Observation:** White Caulk      **Location:** South Bathroom  
**Client No.:** 11B      **Client Description:** White 1/4 Inch Bead Sink Caulk      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562644      **Analyst Observation:** Tan Vinyl Sheet Flooring      **Location:** North Room  
**Client No.:** 12A      **Client Description:** Tan Vinyl Sheet Flooring With White      **Facility:**  
Mastic  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      20 Synthetic      80

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Dean Andrews

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/16/2023 Report No.: 677292 - PLM Project: Nobel County; 919 1/2 Belford St Caldwell Project No.: 089229.00.04
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562644(L2) <b>Client No.:</b> 12A	<b>Analyst Observation:</b> White Mastic <b>Client Description:</b> Tan Vinyl Sheet Flooring With White Mastic	<b>Location:</b> North Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562645 <b>Client No.:</b> 12B	<b>Analyst Observation:</b> Tan Vinyl Sheet Flooring <b>Client Description:</b> Tan Vinyl Sheet Flooring With White Mastic	<b>Location:</b> South Bathroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 20 Synthetic 1 Cellulose	<u>Percent Non-Fibrous Material:</u> 79


<b>Lab No.:</b> 7562645(L2) <b>Client No.:</b> 12B	<b>Analyst Observation:</b> White Mastic <b>Client Description:</b> Tan Vinyl Sheet Flooring With White Mastic	<b>Location:</b> South Bathroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

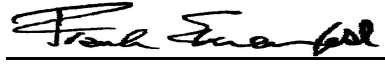
<b>Lab No.:</b> 7562646 <b>Client No.:</b> 13A	<b>Analyst Observation:</b> Cream/Blue Floor Tile <b>Client Description:</b> Cream And Blue 12x12 VFT	<b>Location:</b> Kitchen <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562647 <b>Client No.:</b> 13B	<b>Analyst Observation:</b> Cream/Blue Floor Tile <b>Client Description:</b> Cream And Blue 12x12 VFT	<b>Location:</b> Kitchen <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562648 <b>Client No.:</b> 14A	<b>Analyst Observation:</b> Cream Countertop <b>Client Description:</b> Cream Countertop With Yellow Mastic	<b>Location:</b> Kitchen <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Dean Andrews

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/16/2023 Report No.: 677292 - PLM Project: Nobel County; 919 1/2 Belford St Caldwell Project No.: 089229.00.04
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562648(L2) <b>Client No.:</b> 14A	<b>Analyst Observation:</b> Yellow Mastic <b>Client Description:</b> Cream Countertop With Yellow Mastic	<b>Location:</b> Kitchen <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562649 <b>Client No.:</b> 14B	<b>Analyst Observation:</b> Cream Countertop <b>Client Description:</b> Cream Countertop With Yellow Mastic	<b>Location:</b> Kitchen <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562649(L2) <b>Client No.:</b> 14B	<b>Analyst Observation:</b> Yellow Mastic <b>Client Description:</b> Cream Countertop With Yellow Mastic	<b>Location:</b> Kitchen <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


<b>Lab No.:</b> 7562650 <b>Client No.:</b> 15A	<b>Analyst Observation:</b> Lt Yellow Ceiling Tile <b>Client Description:</b> Yellow 10x1 CT	<b>Location:</b> West Central Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 90 Cellulose	<u>Percent Non-Fibrous Material:</u> 10

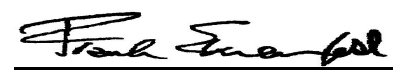
<b>Lab No.:</b> 7562651 <b>Client No.:</b> 15B	<b>Analyst Observation:</b> Lt Yellow Ceiling Tile <b>Client Description:</b> Yellow 10x1 CT	<b>Location:</b> West Central Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 90 Cellulose	<u>Percent Non-Fibrous Material:</u> 10

<b>Lab No.:</b> 7562652 <b>Client No.:</b> 16A	<b>Analyst Observation:</b> Green Floor Tile <b>Client Description:</b> Grey 12x12 VFT With Yellow Mastic	<b>Location:</b> North Bathroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Insufficient mastic to analyze  
Sample color different than client description.

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Dean Andrews

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677292 - PLM  
Project: Nobel County; 919 1/2 Belford St Caldwell  
Project No.: 089229.00.04

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562653  
**Client No.:** 16B

**Analyst Observation:** Green Floor Tile  
**Client Description:** Grey 12x12 VFT With Yellow Mastic

**Location:** Hallway  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Insufficient mastic to analyze  
Sample color different than client description.

**Lab No.:** 7562654  
**Client No.:** 17A

**Analyst Observation:** Pink Vinyl Sheet Flooring  
**Client Description:** Pink 12x12 VFT

**Location:** North Bathroom  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562655  
**Client No.:** 17B

**Analyst Observation:** Pink Vinyl Sheet Flooring  
**Client Description:** Pink 12x12 VFT

**Location:** North Bathroom  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562656  
**Client No.:** 18A

**Analyst Observation:** Yellow Caulk  
**Client Description:** 1/4 Inch Yellow Int. Door Caulk

**Location:** East Door Int.  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 7562657  
**Client No.:** 18B

**Analyst Observation:** Yellow Caulk  
**Client Description:** 1/4 Inch Yellow Int. Door Caulk


**Location:** East Door Int.  
**Facility:**

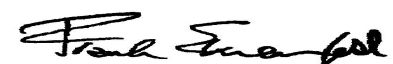
Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/16/2023  
Signature:   
Analyst: Dean Andrews

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677292 - PLM  
Project: Nobel County; 919 1/2 Belford St Caldwell  
Project No.: 089229.00.04

Client: SOI995

## Appendix to Analytical Report

**Customer Contact:** Davin Ojala

**Method:** 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, USEPA 600, R93-116 and NYSDOH ELAP 198.1 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

**iATL Customer Service:** customerservice@iatl.com

**iATL Office Manager:** wchampion@iatl.com

**iATL Account Representative:** Shirley Clark

**Sample Login Notes:** See Batch Sheet Attached

**Sample Matrix:** Bulk Building Materials

**Exceptions Noted:** See Following Pages

### General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at [www.iATL.com](http://www.iATL.com) and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

### Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

### Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB) See additional information at the end of this appendix.

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677292 - PLM  
Project: Nobel County; 919 1/2 Belford St Caldwell  
Project No.: 089229.00.04

Client: SOI995

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)  
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

### Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at [customerservice@iatl.com](mailto:customerservice@iatl.com).

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

### Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gänge, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) [www.atsdr.cdc.gov](http://www.atsdr.cdc.gov), United States Geological Survey (USGS) [www.minerals.usgs.gov/minerals/](http://www.minerals.usgs.gov/minerals/), US EPA [www.epa.gov/asbestos](http://www.epa.gov/asbestos). The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite ([https://www.wadsworth.org/sites/default/files/WebDoc/I198\\_8\\_02\\_2.pdf](https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf))

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1) **Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116  
**Requirements/Comments:** Minimum of 0.1 g of sample. ~0.25% for most samples.

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/16/2023  
Report No.: 677292 - PLM  
Project: Nobel County; 919 1/2 Belford St Caldwell  
Project No.: 089229.00.04

Client: SOI995

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Suspension" only.

\*With advance notice and confirmation by the laboratory.

\*\*Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM CERTIFICATION MANUAL - ITEM No. 198.1, Revision Date 5/6/16)

\*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other than SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% vermiculite.

Statistically derived uncertainty with any measure should be taken into consideration when reviewing and interpreting all reported data and results. A more comprehensive listing of accuracy, precision, and uncertainty as it impacts this method is available upon request.

**APPENDIX F**  
**516 FAIRGROUND STREET, CALDWELL, OHIO**



## **ASBESTOS ASSESSMENT SUMMARY**

### **516 FAIRGROUND STREET, CALDWELL, OHIO**

#### **SITE DESCRIPTION AND STRUCTURE CONDITION**

The 516 Fairground Street site was located north of Fairground Street between Private Dalzell Street and Woodland Avenue and Lewis Street in Caldwell, Ohio. The site consisted of the vacated, original section of the Caldwell High School that comprised a 15,000 square-foot, three-story structure attached to the southeast corner of the current, operational high school building. The remaining portions of the current high school building were not included in the scope of our assessment. Debris was present throughout the former school structure. The debris inhibited access to the first-floor women's bathroom, and the doors to the third-floor east bathroom and the nurse's office were locked at the time of the assessment.

#### **ASBESTOS SAMPLING RESULTS**

The United States Environmental Protection Agency (USEPA) and the Occupational Safety and Health Administration (OSHA) asbestos regulations define an ACM as any material that contains greater than one percent asbestos. Suspect ACMs not analyzed for asbestos content are considered assumed ACMs. According to the USEPA National Emission Standard for Hazardous Air Pollutants asbestos regulation (NESHAP, 40 CFR Part 61 M), friable ACMs and nonfriable ACMs which could be expected to be disturbed and become friable are considered Regulated Asbestos Containing Materials (RACMs) and must be removed prior to demolition activities. Nonfriable ACMs, if in good condition and not subjected to forces that would render them friable, are permitted by USEPA to remain in a structure during demolition. According to the OSHA Asbestos Construction Standard, demolition activities involving ACMs must be conducted by trained personnel in accordance with the standard and in accordance with the Ohio Administrative Code (OAC). Refer to Section 2.3.1 of the report for additional information regarding asbestos work requirements and notifications.

Materials containing trace asbestos (equal to or less than one percent asbestos) are not considered RACM or ACM but are subject to the engineering and work practice requirements of paragraphs (g)(1), (g)(2), and (g)(3) of the OSHA Asbestos Construction Standard.

A summary of the descriptions of suspect ACMs identified, RACM, ACM, Trace Asbestos, or non-ACM categorization of the materials, estimated quantity, friability, condition, and locations of the materials sampled is presented in the attached Table 1.

#### **SITE-SPECIFIC LIMITATIONS AND PROJECT CONSIDERATIONS**

SME was unable to access the third-floor east bathroom and the nurse's office in the structure due to a locked door at the time of the site reconnaissance. The entrance to the first-floor women's bathroom was obstructed by debris. SME assessed the remainder of the former school structure, including the exterior.



## RECOMMENDATIONS

- We recommend that the unassessed areas of the structure be assessed for the presence of ACMs by an Asbestos Hazard Evaluation Specialist prior to demolition of the structure. Access to the third-floor east bathroom and the nurse's office and clearing of debris throughout the structure allowing safe passage to the first-floor women's bathroom of the structure will be necessary for these areas to be properly assessed.
- We recommend that the identified RACMs be removed by a licensed asbestos contractor, and in accordance with the OSHA Asbestos Construction Standard, prior to demolition.
- If the identified nonfriable ACMs which are not likely to be rendered friable during demolition will be removed prior to demolition, we recommend that they be removed by a licensed asbestos contractor, and in accordance with the asbestos work requirements of the OSHA Asbestos Construction Standard. If one or more of these nonfriable ACMs will remain intact during demolition, we recommend that the demolition activities be conducted by staff trained to conduct demolition involving those ACMs, supervised by a 40-hour trained asbestos supervisor accredited by the Ohio Environmental Protection Agency (OEPA) and conducted in accordance with the OSHA Asbestos Construction Standard.
- We recommend proper notification to the OEPA prior to removal of ACMs and demolition of the structure.
- We recommend asbestos abatement project design by an Asbestos Hazard Abatement Project Designer that is trained in accordance with USEPA requirements and accredited by the OEPA. We also recommend monitoring asbestos removal work or disturbance with air sampling, visual verification, and clearance air monitoring performed by an independent third party (such as SME). We recommend notification of the presence, quantity, and location of ACMs and communication of the hazards associated with them in accordance.

## ASBESTOS BULK SAMPLING RESULTS TABLE

**TABLE 1  
ASBESTOS BULK SAMPLING RESULTS  
516 FAIRGROUND STREET, CALDWELL, OHIO  
SME PROJECT NUMBER: 089229.00.003**

The quantities presented in this table are intended to be “Order of Magnitude” estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
1	Cream 12" x 12" vinyl floor tile  Black mastic	Non-ACM  <b>ACM</b>	1,050 sq. ft.	Nonfriable	Good	Wrestling room first floor, first floor east classroom
2	Gray plaster wall system  Gray plaster  White plaster	  <b>RACM</b>  Non-ACM	15,000 sq. ft.	Nonfriable	Good	Throughout
3	Gray plaster ceiling system  Gray plaster  White plaster  White joint compound  Tan plaster	Non-ACM  Non-ACM  <b>RACM</b>  Non-ACM	10,000 sq. ft.	Nonfriable	Good	Throughout
4	Cream stair cover  Yellow mastic	Non-ACM  Non-ACM	60 sq. ft.	Nonfriable	Good	Wrestling first floor
5	Red brick  Gray mortar	Non-ACM  Non-ACM	160 sq. ft.	Nonfriable	Good	Wrestling room first floor
6	Red brick  Gray mortar	Non-ACM  Non-ACM	600 sq. ft.	Nonfriable	Good	Wrestling room first floor and first floor hallway
7	Gray concrete floor	Non-ACM	10,000 sq. ft.	Nonfriable	Good	Throughout
8	White 2' x 2' worm track ceiling tiles	Non-ACM	2,400 sq. ft.	Friable	Good	Wrestling first floor, south classroom second floor
9	White wallboard ceiling system  White drywall  White joint compound	Non-ACM  Non-ACM	300 sq. ft.	Nonfriable	Damaged	Wrestling first floor storage room

**TABLE 1  
ASBESTOS BULK SAMPLING RESULTS  
516 FAIRGROUND STREET, CALDWELL, OHIO  
SME PROJECT NUMBER: 089229.00.003**

The quantities presented in this table are intended to be “Order of Magnitude” estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
10	White wallboard wall system  White drywall  White joint compound	Non-ACM  Non-ACM	1,000 sq. ft.	Nonfriable	Damaged	Wrestling first floor storage room, first floor storage room, second floor wrestling
11	Faux wood countertop  Yellow mastic	Non-ACM  Non-ACM	35 sq. ft.	Nonfriable	Good	Wrestling first floor cleaning room
12	Black sink coating	Non-ACM	3 sq. ft.	Nonfriable likely to become friable during demolition	Good	Cleaning room off of wrestling first floor
13	Gray mortar associated with red brick	Non-ACM	60 sq. ft.	Nonfriable	Good	Cleaning room off of wrestling first floor
14	Gray ¼" bead door caulk	Non-ACM	0.5 sq. ft.  (1 door)	Nonfriable	Good	Cleaning room off of wrestling first floor
15	Black fire door	Not Sampled  <b>Assumed RACM</b>	7 doors	Assumed Friable	Good	Throughout
16	Yellow mastic under burgundy carpet	Non-ACM	300 sq. ft.	Nonfriable	Good	First floor storage-r east classroom
17	Gray grout  Red ceramic tile	Non-ACM  Non-ACM	150 sq. ft.	Nonfriable	Good	Boys first floor bathroom and exterior in front of doors
18	Gray mortar  Pink ceramic tile  White grout	Non-ACM  Non-ACM  Non-ACM	350 sq. ft.	Nonfriable	Good	Boys first floor bathroom

**TABLE 1  
ASBESTOS BULK SAMPLING RESULTS  
516 FAIRGROUND STREET, CALDWELL, OHIO  
SME PROJECT NUMBER: 089229.00.003**

The quantities presented in this table are intended to be “Order of Magnitude” estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
19	White interior window glaze	Non-ACM	2 sq. ft. (1 window)	Nonfriable likely to become friable during demolition	Significantly Damaged	Boys bathroom first floor
20	White ¼” caulk around pipe	Not Sampled  <b>Assumed ACM</b>	0.5 sq. ft.	Nonfriable	Good	Boys bathroom first floor
21	White pipe wrap over 2” pipe  White/Yellow insultation	Non-ACM  Non-ACM	40 ln. ft.	Nonfriable	Good	Boiler room
22	Gray mortar around furnace	Non-ACM	50 sq. ft.	Nonfriable	Good	Boiler room
23	Cream countertop  Yellow mastic	Non-ACM  Non-ACM	25 sq. ft.	Nonfriable	Good	First floor east classroom
24	White 2’ x 2’ ceiling tile	Non-ACM	1,700 sq. ft.	Friable	Damaged	Second floor east classroom
25	Black built up roof system  Silver/Black flashing  Black tar  Black tar paper	Non-ACM  Non-ACM  <b>ACM</b>	200 sq. ft.	Nonfriable	Good	Roof
26	White 1/4” bead window caulk	Non-ACM	0.5 sq. ft. (2 windows)	Nonfriable	Good	Second floor wrestling window

**TABLE 1  
ASBESTOS BULK SAMPLING RESULTS  
516 FAIRGROUND STREET, CALDWELL, OHIO  
SME PROJECT NUMBER: 089229.00.003**

The quantities presented in this table are intended to be “Order of Magnitude” estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
27	Yellow wall glue under noise proof panels	Non-ACM	10 sq. ft.	Nonfriable	Good	West second floor classroom
28	Black tar and tar paper around features on roof  Black tar  Black tar paper	Non-ACM  Non-ACM	610 sq. ft.	Nonfriable	Good	Roof
29	Yellow interior window glaze  White glaze	Non-ACM  <b>RACM</b>	2.5 sq. ft.  (2 windows)	Nonfriable likely to become friable	Significantly Damaged	Third floor north windows
30	Exterior red brick  Gray mortar	Non-ACM  Non-ACM	35 sq. ft.	Nonfriable	Good	Throughout exterior
31	Exterior white window glaze	Non-ACM	35 In. ft.  (70 windows)	Nonfriable likely to become friable	Damaged	Exterior windows
32	White ¼” bead exterior window caulk	Non-ACM	0.5 sq. ft.  (70 windows)	Nonfriable likely to become friable	Good	Throughout exterior windows
33	Gray ¼” bead exterior door caulk	<b>ACM</b>	0.5 sq. ft.  (4 doors)	Nonfriable	Good	Exterior doors
34	Black ¼” bead exterior window caulk	Non-ACM	4 sq. ft.  (3 windows)	Nonfriable	Good	North first floor windows exterior
35	White ¼” bead interior caulk between bricks	Non-ACM	1 sq. ft.	Nonfriable	Good	First floor hallway

**TABLE 1  
ASBESTOS BULK SAMPLING RESULTS  
516 FAIRGROUND STREET, CALDWELL, OHIO  
SME PROJECT NUMBER: 089229.00.003**

The quantities presented in this table are intended to be “Order of Magnitude” estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
36	Gray brick	Non-ACM	50 sq. ft.	Nonfriable	Good	First floor hallway
	Gray mortar	Non-ACM				
37	Insulation around pipe through wall	Non-ACM	10 sq. ft.	Friable	Good	Boiler room
38	Green chalkboard	Non-ACM	50 sq. ft.	Nonfriable	Good	East classroom first floor, second floor classrooms
39	Black roof caulk	Non-ACM	40 sq. ft.	Nonfriable	Good	Roof
40	Black roof tile with black tar	Non-ACM	6,000 sq. ft.	Nonfriable	Good	Roof
	Red Brick	Non-ACM				
	Gray mortar	Non-ACM				
	Black tar	<b>ACM</b>				
41	Silver HVAC wrap insulation	Not Sampled  <b>Assumed ACM</b>	50 In. ft.	Nonfriable	Good	Second floor north classroom

**NOTES:**

HA = Homogenous Area.

**RACM** = Regulated Asbestos-Containing Material. Must be removed from the building prior to demolition.

**ACM** = Asbestos-Containing Material as defined by USEPA and OSHA definition.

**Trace Asbestos** = Equal to or less than 1% asbestos detected.

Friable = Material that can be crumbled or reduced to powder by hand pressure.

NQ = Not quantified

Material conditions are described as defined in AHERA, 40 CFR Part 763.

In. ft. = linear feet

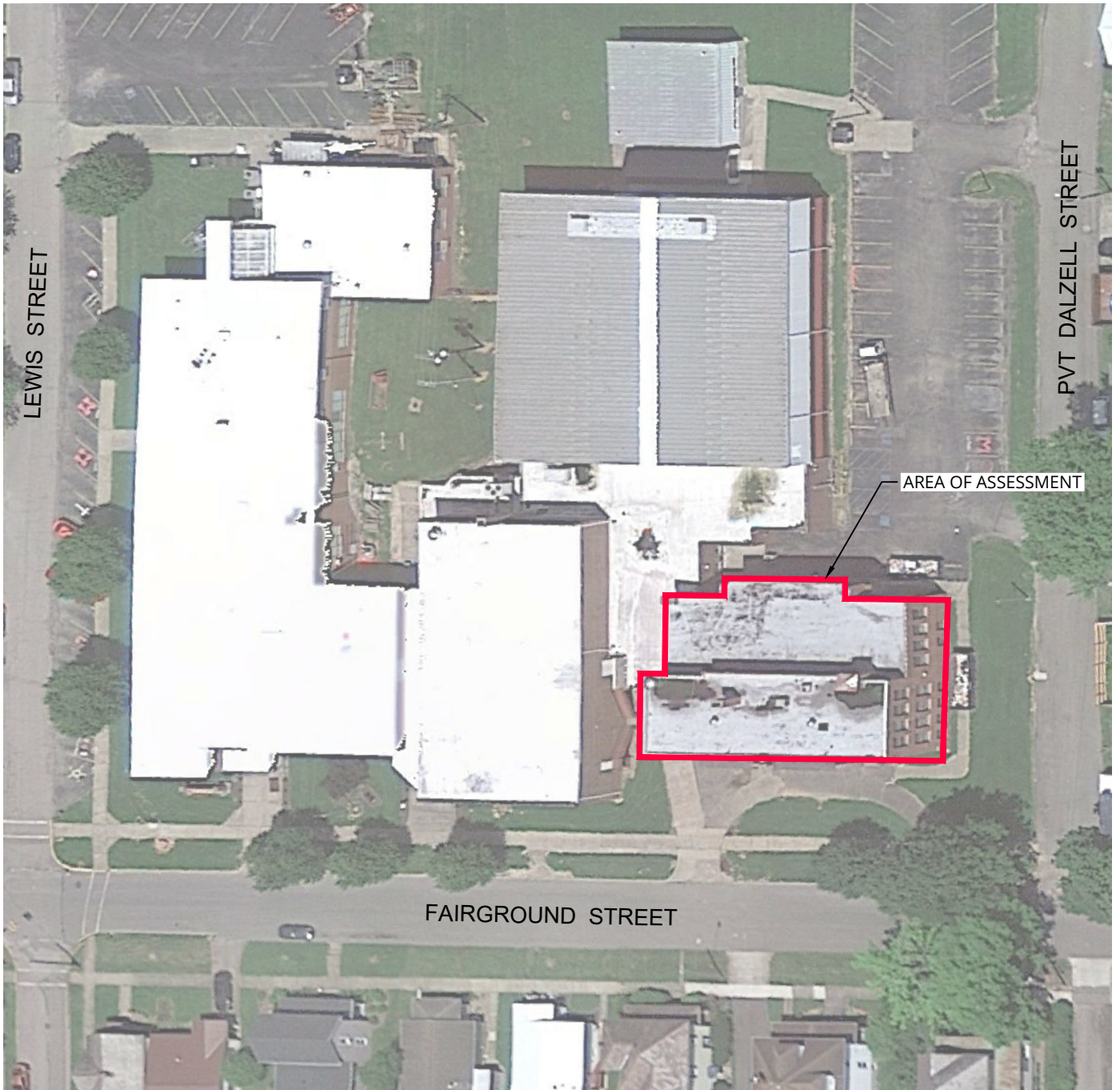
sq. ft. = square feet

cu. ft. = cubic feet

\* = Estimate of visible, accessible materials. Additional quantities and materials may be present in concealed spaces not assessed

## SAMPLE LOCATION DIAGRAMS



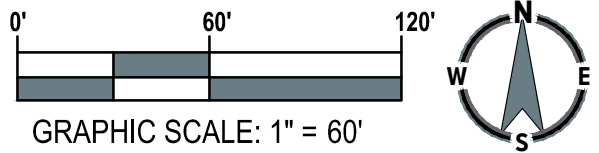


**LEGEND**

APPROXIMATE ASSESSMENT BOUNDARY

NOTE:

1. AERIAL IMAGE TAKEN FROM GOOGLE EARTH PRO WITH AN IMAGE DATE OF 6-3-2022 AND SITE RECONNAISSANCE.

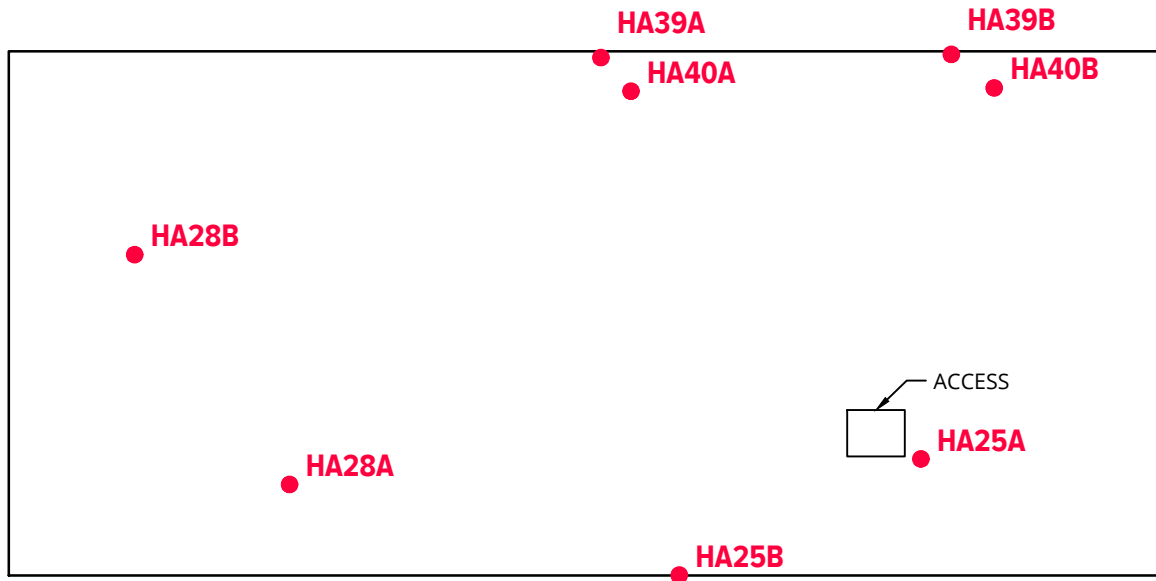


No.	Revision Date	Date	3-14-2023
		Drawn By	JAB
		Designed By	KMP
		Scale	AS NOTED
		Project	089229.00.003

**AREA OF ASSESSMENT**  
**NOBLE CO ENVIRONMENTAL CONSULTING**  
**516 FAIRGROUND STREET**  
**CALDWELL, OHIO**



**Figure No. 1**



ROOF

**LEGEND**

● BULK ASBESTOS SAMPLE

NOTE:

1. BUILDING FEATURES AND SAMPLE LOCATIONS ARE APPROXIMATE.



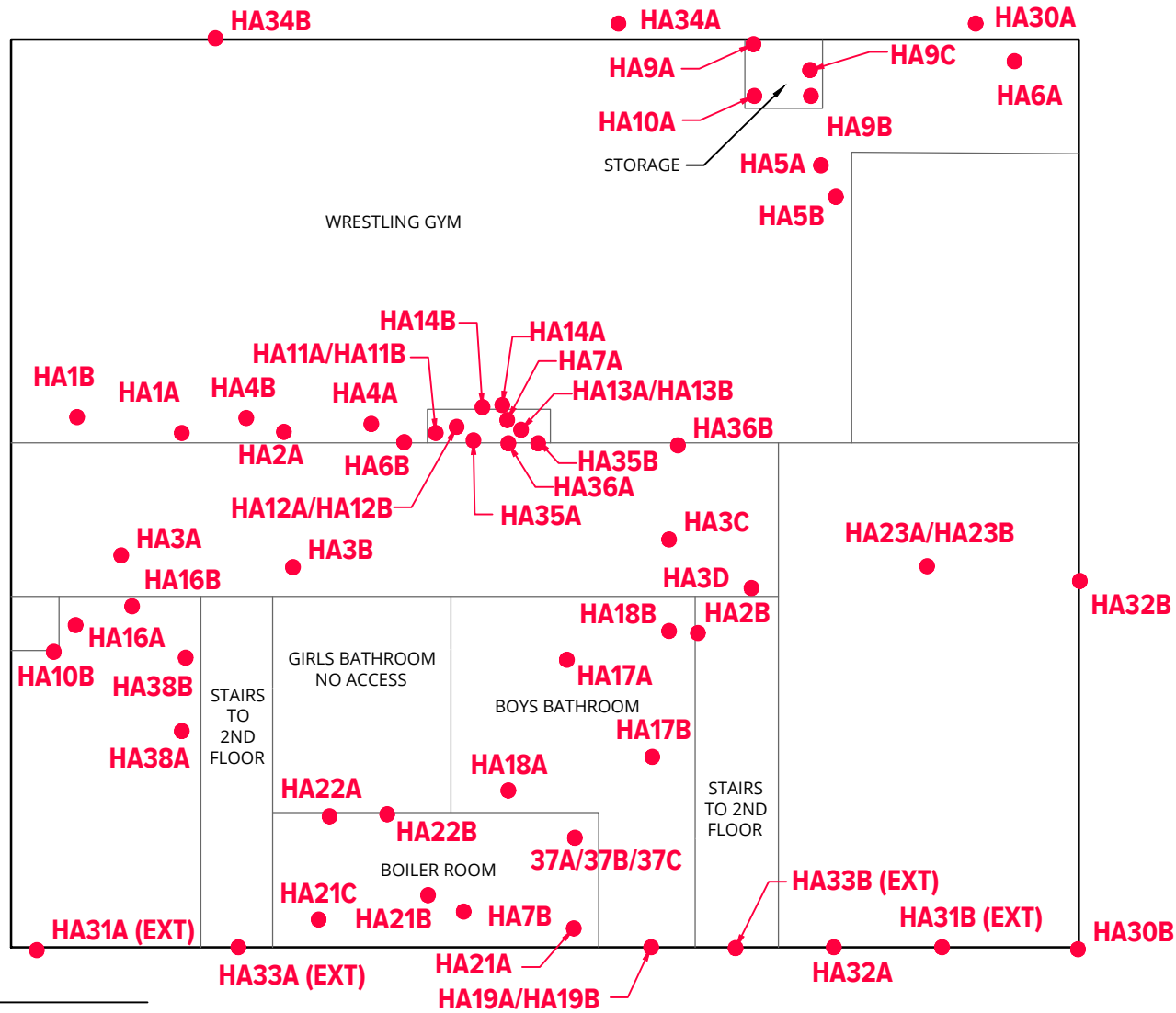
No.	Revision Date	Date	02-07-2023
		Drawn By	CRC
		Designed By	KP
		Scale	Not to Scale
		Project	089229.00.003

**ASBESTOS ASSESSMENT SAMPLE LOCATION DIAGRAM**  
**NOBLE CO ENVIRONMENTAL CONSULTING**  
**516 FAIRGROUND STREET**  
**CALDWELL, OHIO**



www.sme-usa.com

**Figure No. 2A**



**LEGEND**

● BULK ASBESTOS SAMPLE

NOTE:  
1. BUILDING FEATURES AND SAMPLE LOCATIONS ARE APPROXIMATE.

**FIRST FLOOR**

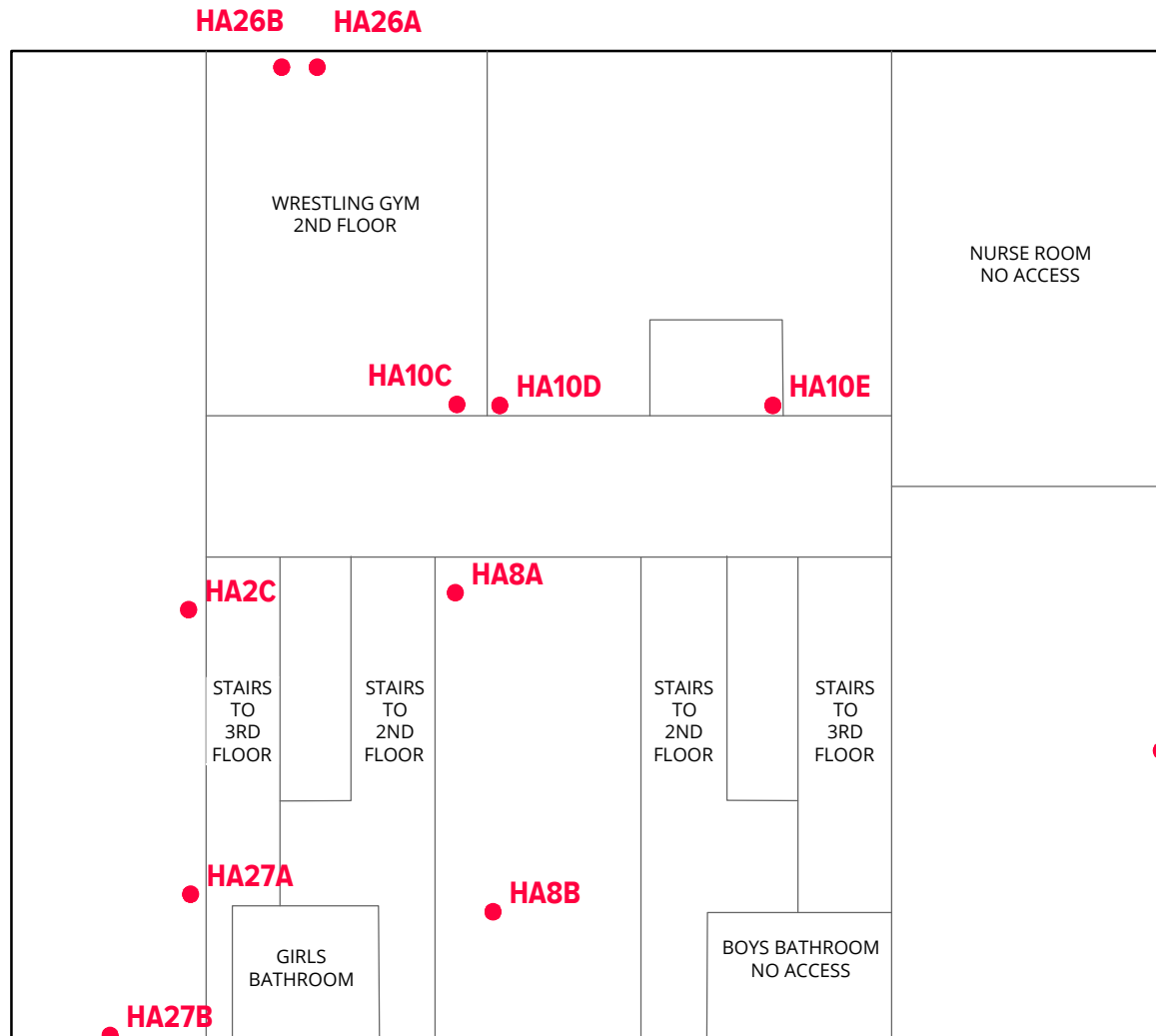


No.	Revision Date	Date	02-07-2023
	Drawn By	CRC	
	Designed By	KP	
	Scale	Not to Scale	
	Project	089229.00.003	

**ASBESTOS ASSESSMENT SAMPLE LOCATION DIAGRAM**  
**NOBLE CO ENVIRONMENTAL CONSULTING**  
**516 FAIRGROUND STREET**  
**CALDWELL, OHIO**



**Figure No. 2B**



**LEGEND**

● BULK ASBESTOS SAMPLE

NOTE:  
 1. BUILDING FEATURES AND SAMPLE LOCATIONS ARE APPROXIMATE.

**SECOND FLOOR**

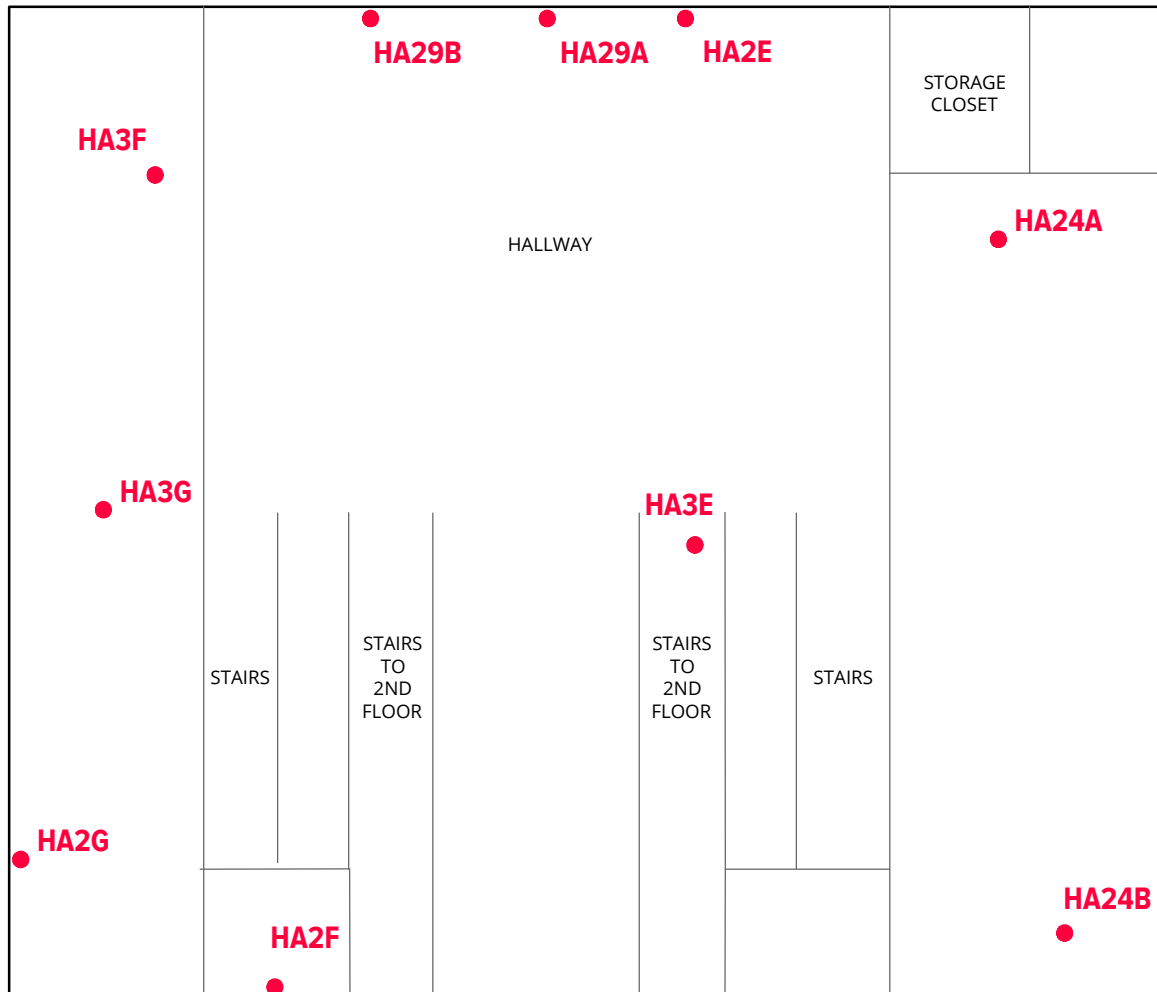


No.	Revision Date	Date	02-07-2023
	Drawn By	CRC	
	Designed By	KP	
	Scale	Not to Scale	
	Project	089229.00.003	

**ASBESTOS ASSESSMENT SAMPLE LOCATION DIAGRAM**  
**NOBLE CO ENVIRONMENTAL CONSULTING**  
**516 FAIRGROUND STREET**  
**CALDWELL, OHIO**



**Figure No. 2C**



**LEGEND**

● BULK ASBESTOS SAMPLE

NOTE:  
1. BUILDING FEATURES AND SAMPLE LOCATIONS ARE APPROXIMATE.

**THIRD FLOOR**



No.	Revision Date	Date	02-07-2023
	Drawn By	CRC	
	Designed By	KP	
	Scale	Not to Scale	
	Project	089229.00.003	

**ASBESTOS ASSESSMENT SAMPLE LOCATION DIAGRAM**  
**NOBLE CO ENVIRONMENTAL CONSULTING**  
**516 FAIRGROUND STREET**  
**CALDWELL, OHIO**



**Figure No. 2D**

**CERTIFICATE OF ANALYSIS  
CHAIN OF CUSTODY FORM**



9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054  
 Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

## Chain of Custody

-Bulk Asbestos -

<b>Contact Information</b>	
<b>Client Company:</b> <u>SME</u>	<b>Project Number:</b> <u>089229.00.03</u>
<b>Office Address:</b> <u>4401 Lyman Drive St C</u>	<b>Project Name:</b> <u>Noble County</u>
<b>City, State, Zip:</b> <u>Hilliard, Ohio, 43026</u>	<b>Primary Contact:</b> <u>Kelsea Pohl</u>
<b>Fax Number:</b> _____	<b>Office Phone:</b> _____
<b>Email Address:</b> <u>kelsea.pohl@sme-usa.com</u>	<b>Cell Phone:</b> <u>216 536 2581</u>

**PLM Instructions:**

- PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993
- PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982
- PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010
- TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009

<ul style="list-style-type: none"> <li><input type="checkbox"/> PLM: Point Counting           <ul style="list-style-type: none"> <li><input type="checkbox"/> PC: via ELAP 198.1</li> <li><input checked="" type="checkbox"/> PC: 400 Points</li> <li><input type="checkbox"/> PC: 800 Points *</li> <li><input type="checkbox"/> PC: 1600 Points *</li> </ul> </li> <li><input type="checkbox"/> PLM: Instructions for Multi-Layered Samples           <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyze and Report All Separable Layers per EPA 600</li> <li><input type="checkbox"/> Report Composite for Drywall Systems per NESHAP</li> <li><input type="checkbox"/> Report All Layers and Composite Where Applicable</li> <li><input type="checkbox"/> Only Analyze and Report Specifically Noted Layer</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> PLM: Analyze Until Positive (Positive Stop)           <ul style="list-style-type: none"> <li><input type="checkbox"/> AUP: by Homogenous Area as Noted</li> <li><input type="checkbox"/> AUP: by Material Type as Noted</li> </ul> </li> <li><input type="checkbox"/> PLM: NOB via 198.6           <ul style="list-style-type: none"> <li><input type="checkbox"/> PLM: Friable via EPA 600 2.3</li> <li><input type="checkbox"/> If &lt;1% by PLM, to TEM via 198.4 *</li> <li><input type="checkbox"/> If &lt;1% by PLM, Hold for Instructions</li> </ul> </li> <li><input type="checkbox"/> PLM: Non-Building Material *** (Dust, Wipe, Tape)           <ul style="list-style-type: none"> <li><input type="checkbox"/> Soil or Vermiculite Analysis *</li> <li><input type="checkbox"/> CARB 435</li> </ul> </li> </ul>
--	---

**Special Instructions:** REFER TO ATTACHED SME CHAIN OF CUSTODY FOR ANALYSIS INSTRUCTIONS

\* Additional charge and turnaround may be required    \*\* Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory

**Turnaround Time**

Preliminary Results Requested Date: \_\_\_\_\_  Verbal    Email    Fax

Specific date / time

10 Day    5 Day    3 Day    2 Day    1 Day\*    12 Hour\*\*    6 Hour\*\*    RUSH\*\*

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping

**Chain of Custody**

Relinquished (Name/Organization): <u>Carli Woods SME</u>	Date: <u>11/30/23</u>	Time: <u>3:00PM</u>	
Received (Name / iATL): _____	Date: _____	Time: _____	
Sample Login (Name / iATL): _____	Date: _____	Time: _____	
Analysis(Name(s) / iATL): _____	Date: _____	Time: _____	
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____	
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____	Time: _____

## Chain of Custody

-Bulk Asbestos -

<b>Contact Information</b>	
<b>Client Company:</b> <u>SME</u>	<b>Project Number:</b> <u>089229.00.03</u>
<b>Office Address:</b> <u>4401 Lyman Drive St C</u>	<b>Project Name:</b> <u>Noble County</u>
<b>City, State, Zip:</b> <u>Hilliard, Ohio, 43026</u>	<b>Primary Contact:</b> <u>Kelsea Pohl</u>
<b>Fax Number:</b> _____	<b>Office Phone:</b> _____
<b>Email Address:</b> <u>kelsea.pohl@sme-usa.com</u>	<b>Cell Phone:</b> <u>216 536 2581</u>

<b>PLM Instructions:</b>	
<input checked="" type="checkbox"/> PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010	
<input type="checkbox"/> TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009	
<input type="checkbox"/> PLM: Point Counting	<input type="checkbox"/> PLM: Analyze Until Positive (Positive Stop)
<input type="checkbox"/> PC: via ELAP 198.1	<input type="checkbox"/> AUP: by Homogenous Area as Noted
<input checked="" type="checkbox"/> PC: 400 Points	<input type="checkbox"/> AUP: by Material Type as Noted
<input type="checkbox"/> PC: 800 Points *	<input type="checkbox"/> PLM: NOB via 198.6
<input type="checkbox"/> PC: 1600 Points *	<input type="checkbox"/> PLM: Friable via EPA 600 2.3
<input type="checkbox"/> PLM: Instructions for Multi-Layered Samples	<input type="checkbox"/> If <1% by PLM, to TEM via 198.4 *
<input type="checkbox"/> Analyze and Report All Separable Layers per EPA 600	<input type="checkbox"/> If <1% by PLM, Hold for Instructions
<input type="checkbox"/> Report Composite for Drywall Systems per NESHAP	<input type="checkbox"/> PLM: Non-Building Material <sup>***</sup> (Dust, Wipe, Tape)
<input type="checkbox"/> Report All Layers and Composite Where Applicable	<input type="checkbox"/> Soil or Vermiculite Analysis <sup>*</sup>
<input type="checkbox"/> Only Analyze and Report Specifically Noted Layer	<input type="checkbox"/> CARB 435
<b>Special Instructions:</b> <u>REFER TO ATTACHED SME CHAIN OF CUSTODY FOR ANALYSIS INSTRUCTIONS</u>	
* Additional charge and turnaround may be required      ** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory	

<b>Turnaround Time</b>	
Preliminary Results Requested Date: _____	<input type="checkbox"/> Verbal <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax
Specific date / time	
<input checked="" type="checkbox"/> 10 Day <input type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day* <input type="checkbox"/> 12 Hour** <input type="checkbox"/> 6 Hour** <input type="checkbox"/> RUSH**	
* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***	

<b>Chain of Custody</b>			
Relinquished (Name/Organization): <u>Carroll Woods SME</u>	Date: <u>1/30/23</u>	Time: <u>3:00pm</u>	
Received (Name / iATL): _____	Date: _____	Time: _____	
Sample Login (Name / iATL): _____	Date: _____	Time: _____	
Analysis(Name(s) / iATL): <u>[Signature]</u>	Date: <u>2/17/23</u>	Time: _____	
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____	
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____	Time: _____



## Chain of Custody

-Bulk Asbestos -

<b>Contact Information</b>	
<b>Client Company:</b> <u>SME</u>	<b>Project Number:</b> <u>089229.00.03</u>
<b>Office Address:</b> <u>4401 Lyman Drive St C</u>	<b>Project Name:</b> <u>Noble County</u>
<b>City, State, Zip:</b> <u>Hilliard, Ohio, 43026</u>	<b>Primary Contact:</b> <u>Kelsea Pohl</u>
<b>Fax Number:</b> _____	<b>Office Phone:</b> _____
<b>Email Address:</b> <u>kelsea.pohl@sme-usa.com</u>	<b>Cell Phone:</b> <u>216 536 2581</u>

<b>PLM Instructions:</b>	
<input checked="" type="checkbox"/> PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002	
<input type="checkbox"/> PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010	
<input type="checkbox"/> TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009	
<input type="checkbox"/> PLM: Point Counting	<input type="checkbox"/> PLM: Analyze Until Positive (Positive Stop)
<input type="checkbox"/> PC: via ELAP 198.1	<input type="checkbox"/> AUP: by Homogenous Area as Noted
<input checked="" type="checkbox"/> PC: 400 Points	<input type="checkbox"/> AUP: by Material Type as Noted
<input type="checkbox"/> PC: 800 Points *	<input type="checkbox"/> PLM: NOB via 198.6
<input type="checkbox"/> PC: 1600 Points *	<input type="checkbox"/> PLM: Friable via EPA 600 2.3
<input type="checkbox"/> PLM: Instructions for Multi-Layered Samples	<input type="checkbox"/> If <1% by PLM, to TEM via 198.4 *
<input type="checkbox"/> Analyze and Report All Separable Layers per EPA 600	<input type="checkbox"/> If <1% by PLM, Hold for Instructions
<input type="checkbox"/> Report Composite for Drywall Systems per NESHAP	<input type="checkbox"/> PLM: Non-Building Material <sup>***</sup> (Dust, Wipe, Tape)
<input type="checkbox"/> Report All Layers and Composite Where Applicable	<input type="checkbox"/> Soil or Vermiculite Analysis
<input type="checkbox"/> Only Analyze and Report Specifically Noted Layer	<input type="checkbox"/> CARB 435
<b>Special Instructions:</b> <u>REFER TO ATTACHED SME CHAIN OF CUSTODY FOR ANALYSIS INSTRUCTIONS</u>	
* Additional charge and turnaround may be required    ** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory	

<b>Turnaround Time</b>	
Preliminary Results Requested Date: _____	<input type="checkbox"/> Verbal <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax
Specific date / time	
<input checked="" type="checkbox"/> 10 Day <input type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day* <input type="checkbox"/> 12 Hour** <input type="checkbox"/> 6 Hour** <input type="checkbox"/> RUSH**	
* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***	

<b>Chain of Custody</b>			
Relinquished (Name/Organization): <u>Cayle Woods OME</u>	Date: <u>11/30/23</u>	Time: <u>3:00PM</u>	
Received (Name / iATL): _____	Date: _____	Time: _____	
Sample Login (Name / iATL): _____	Date: _____	Time: _____	
Analysis(Name(s) / iATL): <u>AS 2.17.23</u>	Date: _____	Time: _____	
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____	
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____	Time: _____

## Chain of Custody

-Bulk Asbestos -

<b>Contact Information</b>	
<b>Client Company:</b> <u>SME</u>	<b>Project Number:</b> <u>089229.00.03</u>
<b>Office Address:</b> <u>4401 Lyman Drive St C</u>	<b>Project Name:</b> <u>Noble County</u>
<b>City, State, Zip:</b> <u>Hilliard, Ohio, 43026</u>	<b>Primary Contact:</b> <u>Kelsea Pohl</u>
<b>Fax Number:</b> _____	<b>Office Phone:</b> _____
<b>Email Address:</b> <u>kelsea.pohl@sme-usa.com</u>	<b>Cell Phone:</b> <u>216 536 2581</u>

**PLM Instructions:**

- PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993
- PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982
- PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010
- TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009

<ul style="list-style-type: none"> <li><input type="checkbox"/> PLM: Point Counting           <ul style="list-style-type: none"> <li><input type="checkbox"/> PC: via ELAP 198.1</li> <li><input checked="" type="checkbox"/> PC: 400 Points</li> <li><input type="checkbox"/> PC: 800 Points *</li> <li><input type="checkbox"/> PC: 1600 Points *</li> </ul> </li> <li><input type="checkbox"/> PLM: Instructions for Multi-Layered Samples           <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyze and Report All Separable Layers per EPA 600</li> <li><input type="checkbox"/> Report Composite for Drywall Systems per NESHAP</li> <li><input type="checkbox"/> Report All Layers and Composite Where Applicable</li> <li><input type="checkbox"/> Only Analyze and Report Specifically Noted Layer</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> PLM: Analyze Until Positive (Positive Stop)           <ul style="list-style-type: none"> <li><input type="checkbox"/> AUP: by Homogenous Area as Noted</li> <li><input type="checkbox"/> AUP: by Material Type as Noted</li> </ul> </li> <li><input type="checkbox"/> PLM: NOB via 198.6           <ul style="list-style-type: none"> <li><input type="checkbox"/> PLM: Friable via EPA 600 2.3</li> <li><input type="checkbox"/> If &lt;1% by PLM, to TEM via 198.4 *</li> <li><input type="checkbox"/> If &lt;1% by PLM, Hold for Instructions</li> </ul> </li> <li><input type="checkbox"/> PLM: Non-Building Material*** (Dust, Wipe, Tape)           <ul style="list-style-type: none"> <li><input type="checkbox"/> Soil or Vermiculite Analysis*</li> <li><input type="checkbox"/> CARB 435</li> </ul> </li> </ul>
--	---

**Special Instructions:** REFER TO ATTACHED SME CHAIN OF CUSTODY FOR ANALYSIS INSTRUCTIONS

\* Additional charge and turnaround may be required    \*\* Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory

**Turnaround Time**

Preliminary Results Requested Date: \_\_\_\_\_

Specific date / time

Verbal     Email     Fax

10 Day     5 Day     3 Day     2 Day     1 Day\*     12 Hour\*\*     6 Hour\*\*     RUSH\*\*

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\*

**Chain of Custody**

Relinquished (Name/Organization): <u>CAYIA WOODS SME</u>	Date: <u>1/30/23</u>	Time: <u>3:00PM</u>	
Received (Name / iATL): _____	Date: _____	Time: _____	
Sample Login (Name / iATL): _____	Date: _____	Time: _____	
Analysis(Name(s) / iATL): <u>Sherrill Hayes</u>	Date: <u>2/17/23</u>	Time: _____	RECEIVED FEB -1 2023
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____	
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____	Time: _____



CHAIN OF CUSTODY LOG

4401 Lyman Drive, St C
Hilliard, OH, 43026
Phone 614-705-2250
FAX 614-705-2250

CLIENT NAME: Noble County
SITE ADDRESS: 516 Fairground, Caldwell

BULK SAMPLE ANALYSIS REQUESTED: EPA 600R-93/116, 1993 with PLM Point Counting PC: 400 points

Note: Multiple samples of each homogeneous area may have been collected. If asbestos is detected at greater than 1% in first sample, DO NOT analyze subsequent samples from that area with exception of plaster and wallboard system samples. Please analyze all plaster and wallboard system samples, and provide individual layer analysis for each sample. If asbestos is detected in an individual layer of a wallboard system sample, please provide composite analysis. Please provide mastic analysis for floor tile samples. Treat mastic as a separate homogeneous area. For each thermal system insulation sample, please analyze the insulation portion(s) of each sample first. If asbestos is detected at 1% or greater do not analyze the insulation covering layer of the sample. Please provide the insulation covering analysis for thermal system insulation samples where asbestos is not detected in insulation layer(s) or where asbestos is detected at less than 1%.

Table with 5 columns: AREA #, SAMPLE #, MATERIAL DESCRIPTION, SAMPLE LOCATION, #. Rows 1-31.

RELINQUISHED BY: [Signature] SME DATE: 11/30/23 TIME: 3:00 PM
RECEIVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

Please provide 10 day turnaround, emailed to Kelsea Pohl at Kelsea.pohl@sme-usa.com .

SME USE ONLY
Date Sampled: 11/26/23

SME Project #: 089229.00-03



# CHAIN OF CUSTODY LOG

Project: 516 Fairground

Project No: 089229.00.003

Address:

Date Sampled: 01/26/2023

Note: Multiple samples of each homogeneous area may have been collected. If asbestos is detected at greater than 1% in first sample, DO NOT analyze subsequent samples from that area with exception of plaster samples, wallboard system samples, and spray applied fireproofing (SAFP) samples. Please analyze all plaster, wallboard, and SAFP samples, and provide individual layer analysis for each sample. If asbestos is detected at a concentration greater than 1% in an individual layer of a wallboard system sample, please provide composite analysis for that sample. Please provide mastic analysis for floor tile samples. Treat mastic as a separate homogeneous area. For each thermal system insulation sample, please analyze the insulation portion(s) of each sample first. If asbestos is detected at 1% or greater do not analyze the insulation covering layer of the sample. Please provide the insulation covering analysis for thermal system insulation samples where asbestos is not detected in insulation layer(s) or where asbestos is detected at less than 1%.

Sample ID	Description	Sample Location	#
1A	12 x12 vft with black mastic, Cream	East portion of wrestling gym	7562425
1B	12 x12 vft with black mastic, Cream	East portion of wrestling gym	7562426
2A	Plaster wall system, Gray	1st floor wrestling room	7562427
2B	Plaster wall system, Gray	East stairwell to second floor	7562428
2C	Plaster wall system, Gray	Second floor west room	7562429
2D	Plaster wall system, Gray	Second floor east room	7562430
2E	Plaster wall system, Gray	Third floor hallway	7562431
2F	Plaster wall system, Gray	Room at top of west stairwell	7562432
2G	Plaster wall system, Gray	Third floor west room	7562433
3A	Plaster ceiling system, Gray	West hallway first floor	7562434
3B	Plaster ceiling system, Gray	West hallway first floor	7562435
3C	Plaster ceiling system, Gray	Central hallway first floor	7562436
3D	Plaster ceiling system, Gray	East hallway first floor	7562437
3E	Plaster ceiling system, Gray	East stairwell to third floor	7562438
3F	Plaster ceiling system, Gray	West classroom third floor	7562439
3G	Plaster ceiling system, Gray	West classroom third floor	7562440
4A	Stair cover with yellow mastic, Cream	Wrestling first floor	7562441
4B	Stair cover with yellow mastic, Cream	Wrestling first floor	7562442
5A	Red brick with gray mortar, Red	Wrestling room first floor	7562443
5B	Red brick with gray mortar, Red	Wrestling room first floor	7562444
6A	Red brick with gray mortar	Wrestling room first floor	7562445
6B	Red brick with gray mortar	First floor hallway	7562446
7A	Gray concrete floor	Storage room in first floor wrestling room	7562447
7B	Gray concrete floor	Boiler room	7562448
8A	White 2x2 worm track ct, White	South second floor classroom	7562449
8B	White 2x2 worm track ct, White	South second floor classroom	7562450
9A	White wallboard ceiling system	Wrestling first floor storage room	7562451
9B	White wallboard ceiling system	Wrestling first floor storage room	7562452
9C	White wallboard ceiling system	Wrestling first floor storage room	7562453
10A	White wallboard wall system	Storage room at north side of first floor wrestling	7562454
10B	White wallboard wall system	Storage room in 1st floor west classroom	7562455
10C	White wallboard wall system	Second floor wrestling room	7562456

↑  
DA  
2/17  
↓



CHAIN OF CUSTODY LOG

Project: 516 Fairground

Address: ,

Project No: 089229.00.003

8A  
2/17  
Start

Sample ID	Description	Sample Location	#
10D	White wallboard wall system	Second floor north classroom	7562457
10E	White wallboard wall system	Second floor north classroom storage room	7562458
11A	Faux wood countertop with yellow mastic	Wrestling first floor cleaning room	7562459
11B	Faux wood countertop with yellow mastic	Wrestling first floor cleaning room	7562460
12A	Black sink coating	Under sink in storage room wrestling first floor	7562461
12B	Black sink coating	Under sink in storage room wrestling first floor	7562462
13A	Gray mortar associated with red brick	Cleaning room off of wrestling first floor	7562463
13B	Gray mortar associated with red brick	Cleaning room off of wrestling first floor	7562464
14A	1/4 gray bead door caulk	Cleaning room off of wrestling first floor	7562465
14B	1/4 gray bead door caulk	Cleaning room off of wrestling first floor	7562466
15	Fire door, Black		Not sampled
16A	Yellow mastic under burgundy carpet	First floor storage-room east classroom	7562467
16B	Yellow mastic under burgundy carpet	First floor storage-room east classroom	7562468
17A	Gray grout associated with red ceramic tile	Boys first floor bathroom	7562469
17B	Gray grout associated with red ceramic tile	Boys first floor bathroom	7562470
18A	Gray mortar associated with pink ceramic tile	Boys first floor bathroom	7562471
18B	Gray mortar associated with pink ceramic tile	Boys first floor bathroom	7562472
19A	White interior window glaze	Boys bathroom first floor	7562473
19B	White interior window glaze	Boys bathroom first floor	7562474
20	1/4 inch White caulk around pipe		Not sampled
21A	White pipe wrap over 2 inch pipe	Boiler room	7562475
21B	White pipe wrap over 2 inch pipe	Boiler room	7562476
21C	White pipe wrap over 2 inch pipe	Boiler room	7562477
22A	gray mortar around furnace	Boiler room	7562478
22B	gray mortar around furnace	Boiler room	7562479
23A	Cream counter top with yellow mastic	First floor east classroom	7562480
23B	Cream counter top with yellow mastic	First floor east classroom	7562481
24A	2x2 white ceiling tile	Second floor east classroom	7562482
24B	2x2 white ceiling tile	Second floor east classroom	7562483
25A	Black built up Roof system ; -O-u-P-j-k- Numbness-M-lbm No GW	Roof	7562484
25B	Black built up Roof system ; -O-u-P-j-k- Numbness-M-lbm No GW	Roof	7562485
26A	White 1/4 inch window caulk	Second floor wrestling window	7562486
26B	White 1/4 inch window caulk	Second floor wrestling window	7562487
27A	Yellow wall glue under noise proof panels	Second floor east	7562488



CHAIN OF CUSTODY LOG

Project: 516 Fairground

Address:

Project No: 089229.00.003

Stewt  
↓

Sample ID	Description	Sample Location	#
27B	Yellow wall glue under noise proof panels	Second floor east classroom	75624
28A	Black tar and tar paper	Roof	75624
28B	Black tar and tar paper	Roof	75624
29A	Yellow interior window glaze	Third floor north windows	75624
29B	Yellow interior window glaze	Third floor north windows	75624
30A	Ext red brick with grey mortar	North exterior	75624
30B	Ext red brick with grey mortar	Southeast exterior	75624
31A	Ext white window glaze	Southwest window	75624
31B	Ext white window glaze	South east window	75624
32A	White 1/4 inch bead window caulk ext	South exterior window	75624
32B	White 1/4 inch bead window caulk ext	East exterior window	75624
* 33A	1/4 inch gray door caulk ext	Southwest door	75625
* 33B	1/4 inch gray door caulk ext	South east door	75625
34A	1/4 inch black ext window caulk	North first floor window exterior	75625
34B	1/4 inch black ext window caulk	Northwest first floor window ext	75625
35A	1/4 inch white caulk between bricks	First floor hallway	75625
35B	1/4 inch white caulk between bricks	First floor hallway	75625
36A	Gray brick with gray mortar	First floor hallway	75625
36B	Gray brick with gray mortar	First floor hallway	75625
37A	Insulation around pipe through wall	Boiler room	75625
37B	Insulation around pipe through wall	Boiler room	75625
37C	Insulation around pipe through wall	Boiler room	75625
38A	Green Chalkboard	East classroom first floor	75625
38B	Green Chalkboard	East classroom first floor	75625
39A	Black roof caulk	Roof	75625
39B	Black roof caulk	Roof	75625
40A	Roof tile with black tar	Roof	75625
40B	Roof tile with black tar	Roof	75625
41	Silver HVAC insulation		Not sampled

ACCREDITATION #:

LICENSED ASBESTOS INSPECTOR:

\*both labeled 33A

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677288 - PLM Project: Nobel County; 516 Fairground Caldwell Project No.: 089229.00.03
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562425 <b>Client No.:</b> 1A	<b>Analyst Observation:</b> Cream Floor Tile; 12x12 <b>Client Description:</b> 12x12 VFT With Black Mastic, Cream	<b>Location:</b> East Portion Of Wrestling Gym <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562425(L2) <b>Client No.:</b> 1A	<b>Analyst Observation:</b> Black Mastic <b>Client Description:</b> 12x12 VFT With Black Mastic, Cream	<b>Location:</b> East Portion Of Wrestling Gym <b>Facility:</b>
<u>Percent Asbestos:</u> <b>PC 3.5 Chrysotile</b>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 96.5

<b>Lab No.:</b> 7562426 <b>Client No.:</b> 1B	<b>Analyst Observation:</b> Cream Floor Tile; 12x12 <b>Client Description:</b> 12x12 VFT With Black Mastic, Cream	<b>Location:</b> East Portion Of Wrestling Gym <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562426(L2) <b>Client No.:</b> 1B	<b>Analyst Observation:</b> Black Mastic <b>Client Description:</b> 12x12 VFT With Black Mastic, Cream	<b>Location:</b> East Portion Of Wrestling Gym <b>Facility:</b>
<u>Percent Asbestos:</u> <b>PC 3.2 Chrysotile</b>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 96.8

<b>Lab No.:</b> 7562427 <b>Client No.:</b> 2A	<b>Analyst Observation:</b> Grey Plaster <b>Client Description:</b> Plaster Wall System, Gray	<b>Location:</b> 1st Floor Wrestling Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562427(L2) <b>Client No.:</b> 2A	<b>Analyst Observation:</b> White Plaster <b>Client Description:</b> Plaster Wall System, Gray	<b>Location:</b> 1st Floor Wrestling Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Maxamillian Roselli

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677288 - PLM  
Project: Nobel County; 516 Fairground Caldwell  
Project No.: 089229.00.03

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562428      **Analyst Observation:** Grey Plaster      **Location:** East Stairwell To Second Floor  
**Client No.:** 2B      **Client Description:** Plaster Wall System, Gray      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562429      **Analyst Observation:** Grey Plaster      **Location:** Second Floor West Room  
**Client No.:** 2C      **Client Description:** Plaster Wall System, Gray      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100


**Lab No.:** 7562430      **Analyst Observation:** Grey Plaster      **Location:** Second Floor East Room  
**Client No.:** 2D      **Client Description:** Plaster Wall System, Gray      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

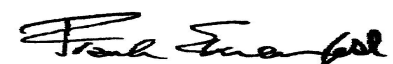
**Lab No.:** 7562431      **Analyst Observation:** Grey Plaster      **Location:** Third Floor Hallway  
**Client No.:** 2E      **Client Description:** Plaster Wall System, Gray      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*PC 1.3 Chrysotile*      None Detected      98.7

**Lab No.:** 7562431(L2)      **Analyst Observation:** White Plaster      **Location:** Third Floor Hallway  
**Client No.:** 2E      **Client Description:** Plaster Wall System, Gray      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562432      **Analyst Observation:** Grey Plaster      **Location:** Room At Top Of West Stairwell  
**Client No.:** 2F      **Client Description:** Plaster Wall System, Gray      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Maxamillian Roselli

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677288 - PLM Project: Nobel County; 516 Fairground Caldwell Project No.: 089229.00.03
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562432(L2) <b>Client No.:</b> 2F <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White Plaster <b>Client Description:</b> Plaster Wall System, Gray <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Room At Top Of West Stairwell <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562433 <b>Client No.:</b> 2G <u>Percent Asbestos:</u> <i>PC 1.7 Chrysotile</i>	<b>Analyst Observation:</b> Grey Plaster <b>Client Description:</b> Plaster Wall System, Gray <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Third Floor West Room <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 98.3
<b>Lab No.:</b> 7562433(L2) <b>Client No.:</b> 2G <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White Plaster <b>Client Description:</b> Plaster Wall System, Gray <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Third Floor West Room <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562434 <b>Client No.:</b> 3A <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Plaster <b>Client Description:</b> Plaster Ceiling System, Gray <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> West Hallway First Floor <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562434(L2) <b>Client No.:</b> 3A <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White Plaster <b>Client Description:</b> Plaster Ceiling System, Gray <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> West Hallway First Floor <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562435 <b>Client No.:</b> 3B <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Plaster <b>Client Description:</b> Plaster Ceiling System, Gray <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> West Hallway First Floor <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Maxamillian Roselli

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677288 - PLM Project: Nobel County; 516 Fairground Caldwell Project No.: 089229.00.03
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562435(L2) <b>Client No.:</b> 3B	<b>Analyst Observation:</b> White Plaster <b>Client Description:</b> Plaster Ceiling System, Gray	<b>Location:</b> West Hallway First Floor <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562436 <b>Client No.:</b> 3C	<b>Analyst Observation:</b> Grey Plaster <b>Client Description:</b> Plaster Ceiling System, Gray	<b>Location:</b> Central Hallway First Floor <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562437 <b>Client No.:</b> 3D	<b>Analyst Observation:</b> Grey Plaster <b>Client Description:</b> Plaster Ceiling System, Gray	<b>Location:</b> East Hallway First Floor <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562438 <b>Client No.:</b> 3E	<b>Analyst Observation:</b> Grey Plaster <b>Client Description:</b> Plaster Ceiling System, Gray	<b>Location:</b> East Stairwell To Third Floor <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562439 <b>Client No.:</b> 3F	<b>Analyst Observation:</b> White Plaster <b>Client Description:</b> Plaster Ceiling System, Gray	<b>Location:</b> West Classroom Third Floor <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562439(L2) <b>Client No.:</b> 3F	<b>Analyst Observation:</b> Tan Plaster <b>Client Description:</b> Plaster Ceiling System, Gray	<b>Location:</b> West Classroom Third Floor <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Maxamillian Roselli

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677288 - PLM Project: Nobel County; 516 Fairground Caldwell Project No.: 089229.00.03
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562440 <b>Client No.:</b> 3G	<b>Analyst Observation:</b> White Plaster <b>Client Description:</b> Plaster Ceiling System, Gray	<b>Location:</b> West Classroom Third Floor <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562440(L2) <b>Client No.:</b> 3G	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> Plaster Ceiling System, Gray	<b>Location:</b> West Classroom Third Floor <b>Facility:</b>
<u>Percent Asbestos:</u> <b>PC 1.2 Chrysotile</b>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 98.8


<b>Lab No.:</b> 7562440(L3) <b>Client No.:</b> 3G	<b>Analyst Observation:</b> Tan Plaster <b>Client Description:</b> Plaster Ceiling System, Gray	<b>Location:</b> West Classroom Third Floor <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

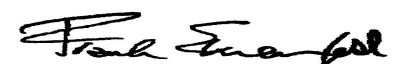
<b>Lab No.:</b> 7562441 <b>Client No.:</b> 4A	<b>Analyst Observation:</b> Cream Stair Tread <b>Client Description:</b> Stair Cover With Yellow Mastic, Cream	<b>Location:</b> Wrestling First Floor <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562441(L2) <b>Client No.:</b> 4A	<b>Analyst Observation:</b> Yellow Mastic <b>Client Description:</b> Stair Cover With Yellow Mastic, Cream	<b>Location:</b> Wrestling First Floor <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562442 <b>Client No.:</b> 4B	<b>Analyst Observation:</b> Cream Stair Tread <b>Client Description:</b> Stair Cover With Yellow Mastic, Cream	<b>Location:</b> Wrestling First Floor <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Maxamillian Roselli

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677288 - PLM Project: Nobel County; 516 Fairground Caldwell Project No.: 089229.00.03
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562442(L2) <b>Client No.:</b> 4B <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Yellow Mastic <b>Client Description:</b> Stair Cover With Yellow Mastic, Cream <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Wrestling First Floor <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562443 <b>Client No.:</b> 5A <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Red Brick <b>Client Description:</b> Red Brick With Gray Mortar, Red <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Wrestling Room First Floor <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562443(L2) <b>Client No.:</b> 5A <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Mortar <b>Client Description:</b> Red Brick With Gray Mortar, Red <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Wrestling Room First Floor <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562444 <b>Client No.:</b> 5B <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Red Brick <b>Client Description:</b> Red Brick With Gray Mortar, Red <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Wrestling Room First Floor <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562444(L2) <b>Client No.:</b> 5B <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Mortar <b>Client Description:</b> Red Brick With Gray Mortar, Red <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Wrestling Room First Floor <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Maxamillian Roselli

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677288 - PLM  
Project: Nobel County; 516 Fairground Caldwell  
Project No.: 089229.00.03

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7562445  
Client No.: 6A

**Analyst Observation:** Red Brick  
**Client Description:** Red Brick With Gray Mortar

**Location:** Wrestling Room First Floor  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Lab No.: 7562445(L2)  
Client No.: 6A

**Analyst Observation:** Grey Mortar  
**Client Description:** Red Brick With Gray Mortar

**Location:** Wrestling Room First Floor  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Lab No.: 7562446  
Client No.: 6B

**Analyst Observation:** Red Brick  
**Client Description:** Red Brick With Gray Mortar

**Location:** First Floor Hallway  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Lab No.: 7562446(L2)  
Client No.: 6B

**Analyst Observation:** Grey Mortar  
**Client Description:** Red Brick With Gray Mortar

**Location:** First Floor Hallway  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Lab No.: 7562447  
Client No.: 7A

**Analyst Observation:** Grey Concrete  
**Client Description:** Gray Concrete Floor

**Location:** Storage Room In First Floor  
Wrestling Room

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Lab No.: 7562448  
Client No.: 7B

**Analyst Observation:** Grey Concrete  
**Client Description:** Gray Concrete Floor


**Location:** Boiler Room  
**Facility:**

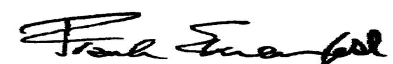
Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Dean Andrews

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677288 - PLM Project: Nobel County; 516 Fairground Caldwell Project No.: 089229.00.03
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562449 <b>Client No.:</b> 8A	<b>Analyst Observation:</b> White Ceiling Tile <b>Client Description:</b> White 2x2 Worm Track CT, White	<b>Location:</b> South Second Floor Classroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 35 Cellulose 5 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 60

<b>Lab No.:</b> 7562450 <b>Client No.:</b> 8B	<b>Analyst Observation:</b> White Ceiling Tile <b>Client Description:</b> White 2x2 Worm Track CT, White	<b>Location:</b> South Second Floor Classroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 35 Cellulose 5 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 60

<b>Lab No.:</b> 7562451 <b>Client No.:</b> 9A	<b>Analyst Observation:</b> White Drywall <b>Client Description:</b> White Wallboard Ceiling System	<b>Location:</b> Wrestling First Floor Storage Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose 2 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 93

<b>Lab No.:</b> 7562451(L2) <b>Client No.:</b> 9A	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Ceiling System	<b>Location:</b> Wrestling First Floor Storage Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562451(L3) <b>Client No.:</b> 9A	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Ceiling System	<b>Location:</b> Wrestling First Floor Storage Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Dean Andrews

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677288 - PLM Project: Nobel County; 516 Fairground Caldwell Project No.: 089229.00.03
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562452 <b>Client No.:</b> 9B	<b>Analyst Observation:</b> White Drywall <b>Client Description:</b> White Wallboard Ceiling System	<b>Location:</b> Wrestling First Floor Storage Room <b>Facility:</b> <b>Percent Non-Fibrous Material:</b>
<b>Percent Asbestos:</b> <i>None Detected</i>	<b>Percent Non-Asbestos Fibrous Material:</b> 5 Cellulose 1 Fibrous Glass	<b>Percent Non-Fibrous Material:</b> 94

<b>Lab No.:</b> 7562452(L2) <b>Client No.:</b> 9B	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Ceiling System	<b>Location:</b> Wrestling First Floor Storage Room <b>Facility:</b> <b>Percent Non-Fibrous Material:</b>
<b>Percent Asbestos:</b> <i>None Detected</i>	<b>Percent Non-Asbestos Fibrous Material:</b> 5 Cellulose 1 Fibrous Glass	<b>Percent Non-Fibrous Material:</b> 94

<b>Lab No.:</b> 7562452(L3) <b>Client No.:</b> 9B	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Ceiling System	<b>Location:</b> Wrestling First Floor Storage Room <b>Facility:</b> <b>Percent Non-Fibrous Material:</b>
<b>Percent Asbestos:</b> <i>None Detected</i>	<b>Percent Non-Asbestos Fibrous Material:</b> None Detected	<b>Percent Non-Fibrous Material:</b> 100

<b>Lab No.:</b> 7562453 <b>Client No.:</b> 9C	<b>Analyst Observation:</b> White Drywall <b>Client Description:</b> White Wallboard Ceiling System	<b>Location:</b> Wrestling First Floor Storage Room <b>Facility:</b> <b>Percent Non-Fibrous Material:</b>
<b>Percent Asbestos:</b> <i>None Detected</i>	<b>Percent Non-Asbestos Fibrous Material:</b> 5 Cellulose 1 Fibrous Glass	<b>Percent Non-Fibrous Material:</b> 94

<b>Lab No.:</b> 7562453(L2) <b>Client No.:</b> 9C	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Ceiling System	<b>Location:</b> Wrestling First Floor Storage Room <b>Facility:</b> <b>Percent Non-Fibrous Material:</b>
<b>Percent Asbestos:</b> <i>None Detected</i>	<b>Percent Non-Asbestos Fibrous Material:</b> None Detected	<b>Percent Non-Fibrous Material:</b> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Dean Andrews

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677288 - PLM Project: Nobel County; 516 Fairground Caldwell Project No.: 089229.00.03
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562454 <b>Client No.:</b> 10A	<b>Analyst Observation:</b> White Drywall <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Storage Room At North Side Of First Floor Wrestling <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose 1 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 94
<b>Lab No.:</b> 7562454(L2) <b>Client No.:</b> 10A	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Storage Room At North Side Of First Floor Wrestling <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562454(L3) <b>Client No.:</b> 10A	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Storage Room At North Side Of First Floor Wrestling <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562455 <b>Client No.:</b> 10B	<b>Analyst Observation:</b> White Drywall <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Storage Room In 1st Floor West Classroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose 1 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 94
<b>Lab No.:</b> 7562455(L2) <b>Client No.:</b> 10B	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Storage Room In 1st Floor West Classroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Dean Andrews

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677288 - PLM Project: Nobel County; 516 Fairground Caldwell Project No.: 089229.00.03
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562456 <b>Client No.:</b> 10C	<b>Analyst Observation:</b> White Drywall <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Second Floor Wrestling Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose 1 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 94

<b>Lab No.:</b> 7562456(L2) <b>Client No.:</b> 10C	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Second Floor Wrestling Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


<b>Lab No.:</b> 7562457 <b>Client No.:</b> 10D	<b>Analyst Observation:</b> White Drywall <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Second Floor North Classroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose 1 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 94

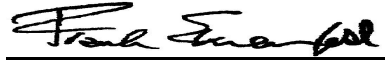
<b>Lab No.:</b> 7562457(L2) <b>Client No.:</b> 10D	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Second Floor North Classroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562457(L3) <b>Client No.:</b> 10D	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Second Floor North Classroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562458 <b>Client No.:</b> 10E	<b>Analyst Observation:</b> White Drywall <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Second Floor North Classroom Storage Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose 1 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 94

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Dean Andrews

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677288 - PLM Project: Nobel County; 516 Fairground Caldwell Project No.: 089229.00.03
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562458(L2) <b>Client No.:</b> 10E	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Second Floor North Classroom Storage Room <b>Facility:</b> <b>Percent Non-Fibrous Material:</b> 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
<b>Lab No.:</b> 7562458(L3) <b>Client No.:</b> 10E	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> White Wallboard Wall System	<b>Location:</b> Second Floor North Classroom Storage Room <b>Facility:</b> <b>Percent Non-Fibrous Material:</b> 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Dean Andrews

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677288 - PLM Project: Nobel County; 516 Fairground Caldwell Project No.: 089229.00.03
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562459 <b>Client No.:</b> 11A	<b>Analyst Observation:</b> Tan/Brown Countertop <b>Client Description:</b> Faux Wood Countertop With Yellow Mastic	<b>Location:</b> Wrestling First Floor Cleaning Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 40 Cellulose	<u>Percent Non-Fibrous Material:</u> 60

<b>Lab No.:</b> 7562459(L2) <b>Client No.:</b> 11A	<b>Analyst Observation:</b> Yellow Mastic <b>Client Description:</b> Faux Wood Countertop With Yellow Mastic	<b>Location:</b> Wrestling First Floor Cleaning Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Cellulose	<u>Percent Non-Fibrous Material:</u> 100


<b>Lab No.:</b> 7562460 <b>Client No.:</b> 11B	<b>Analyst Observation:</b> Tan/Brown Countertop <b>Client Description:</b> Faux Wood Countertop With Yellow Mastic	<b>Location:</b> Wrestling First Floor Cleaning Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 40 Cellulose	<u>Percent Non-Fibrous Material:</u> 60


<b>Lab No.:</b> 7562460(L2) <b>Client No.:</b> 11B	<b>Analyst Observation:</b> Yellow Mastic <b>Client Description:</b> Faux Wood Countertop With Yellow Mastic	<b>Location:</b> Wrestling First Floor Cleaning Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Cellulose	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562461 <b>Client No.:</b> 12A	<b>Analyst Observation:</b> Black Sink Undercoating <b>Client Description:</b> Black Sink Coating	<b>Location:</b> Under Sink In Storage Room Wrestling First Floor <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Cellulose	<u>Percent Non-Fibrous Material:</u> 99

<b>Lab No.:</b> 7562462 <b>Client No.:</b> 12B	<b>Analyst Observation:</b> Black Sink Undercoating <b>Client Description:</b> Black Sink Coating	<b>Location:</b> Under Sink In Storage Room Wrestling First Floor <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Cellulose	<u>Percent Non-Fibrous Material:</u> 99

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: David Hayes

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677288 - PLM  
Project: Nobel County; 516 Fairground Caldwell  
Project No.: 089229.00.03

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562463      **Analyst Observation:** White/Grey Mortar      **Location:** Cleaning Room Off Of Wrestling  
**Client No.:** 13A      **Client Description:** Gray Mortar Associated With Red Brick      First Floor  
**Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562464      **Analyst Observation:** White/Grey Mortar      **Location:** Cleaning Room Off Of Wrestling  
**Client No.:** 13B      **Client Description:** Gray Mortar Associated With Red Brick      First Floor  
**Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100


**Lab No.:** 7562465      **Analyst Observation:** Red/Grey Caulk      **Location:** Cleaning Room Off Of Wrestling  
**Client No.:** 14A      **Client Description:** 1/4 Gray Bead Door Caulk      First Floor  
**Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

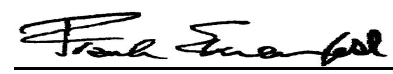
**Lab No.:** 7562466      **Analyst Observation:** Red/Grey Caulk      **Location:** Cleaning Room Off Of Wrestling  
**Client No.:** 14B      **Client Description:** 1/4 Gray Bead Door Caulk      First Floor  
**Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562467      **Analyst Observation:** Yellow Mastic      **Location:** First Floor Storage-Room East  
**Client No.:** 16A      **Client Description:** Yellow Mastic Under Burgundy Carpet      Classroom  
**Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      Trace Cellulose      100

**Lab No.:** 7562468      **Analyst Observation:** Yellow Mastic      **Location:** First Floor Storage-Room East  
**Client No.:** 16B      **Client Description:** Yellow Mastic Under Burgundy Carpet      Classroom  
**Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      Trace Cellulose      100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: David Hayes

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677288 - PLM Project: Nobel County; 516 Fairground Caldwell Project No.: 089229.00.03
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562469 <b>Client No.:</b> 17A	<b>Analyst Observation:</b> Grey Grout <b>Client Description:</b> Gray Grout Associated With Red Ceramic Tile	<b>Location:</b> Boy's First Floor Bathroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562469(L2) <b>Client No.:</b> 17A	<b>Analyst Observation:</b> Red Ceramic Tile <b>Client Description:</b> Gray Grout Associated With Red Ceramic Tile	<b>Location:</b> Boy's First Floor Bathroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


<b>Lab No.:</b> 7562470 <b>Client No.:</b> 17B	<b>Analyst Observation:</b> Grey Grout <b>Client Description:</b> Gray Grout Associated With Red Ceramic Tile	<b>Location:</b> Boy's First Floor Bathroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

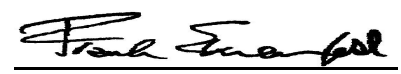
<b>Lab No.:</b> 7562470(L2) <b>Client No.:</b> 17B	<b>Analyst Observation:</b> Red Ceramic Tile <b>Client Description:</b> Gray Grout Associated With Red Ceramic Tile	<b>Location:</b> Boy's First Floor Bathroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562471 <b>Client No.:</b> 18A	<b>Analyst Observation:</b> Grey Mortar <b>Client Description:</b> Gray Mortar Associated With Pink Ceramic Tile	<b>Location:</b> Boy's First Floor Bathroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562471(L2) <b>Client No.:</b> 18A	<b>Analyst Observation:</b> Pink Ceramic Tile <b>Client Description:</b> Gray Mortar Associated With Pink Ceramic Tile	<b>Location:</b> Boy's First Floor Bathroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: David Hayes

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677288 - PLM  
Project: Nobel County; 516 Fairground Caldwell  
Project No.: 089229.00.03

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562471(L3)      **Analyst Observation:** White Grout      **Location:** Boy's First Floor Bathroom  
**Client No.:** 18A      **Client Description:** Gray Mortar Associated With Pink Ceramic Tile      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562472      **Analyst Observation:** Grey Mortar      **Location:** Boy's First Floor Bathroom  
**Client No.:** 18B      **Client Description:** Gray Mortar Associated With Pink Ceramic Tile      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100


**Lab No.:** 7562472(L2)      **Analyst Observation:** Pink Ceramic Tile      **Location:** Boy's First Floor Bathroom  
**Client No.:** 18B      **Client Description:** Gray Mortar Associated With Pink Ceramic Tile      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

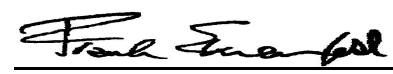
**Lab No.:** 7562472(L3)      **Analyst Observation:** White Grout      **Location:** Boy's First Floor Bathroom  
**Client No.:** 18B      **Client Description:** Gray Mortar Associated With Pink Ceramic Tile      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562473      **Analyst Observation:** White Glazing      **Location:** Boy's Bathroom First Floor  
**Client No.:** 19A      **Client Description:** White Interior Window Glaze      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562474      **Analyst Observation:** White Glazing      **Location:** Boy's Bathroom First Floor  
**Client No.:** 19B      **Client Description:** White Interior Window Glaze      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: David Hayes

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008  
  
Client: SOI995

Report Date: 2/17/2023  
Report No.: 677288 - PLM  
Project: Nobel County; 516 Fairground Caldwell  
Project No.: 089229.00.03

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562475  
**Client No.:** 21A  
  
Percent Asbestos:  
*None Detected*

**Analyst Observation:** White/Silver Wrap  
**Client Description:** White Pipe Wrap Over 2 Inch Pipe  
  
Percent Non-Asbestos Fibrous Material:  
40 Cellulose  
15 Fibrous Glass

**Location:** Boiler Room  
**Facility:**  
  
Percent Non-Fibrous Material:  
45

**Lab No.:** 7562475(L2)  
**Client No.:** 21A  
  
Percent Asbestos:  
*None Detected*

**Analyst Observation:** White Insulation  
**Client Description:** White Pipe Wrap Over 2 Inch Pipe  
  
Percent Non-Asbestos Fibrous Material:  
95 Fibrous Glass  
Trace Cellulose

**Location:** Boiler Room  
**Facility:**  
  
Percent Non-Fibrous Material:  
5

**Lab No.:** 7562476  
**Client No.:** 21B  
  
Percent Asbestos:  
*None Detected*

**Analyst Observation:** White/Silver Wrap  
**Client Description:** White Pipe Wrap Over 2 Inch Pipe  
  
Percent Non-Asbestos Fibrous Material:  
40 Cellulose  
15 Fibrous Glass

**Location:** Boiler Room  
**Facility:**  
  
Percent Non-Fibrous Material:  
45

**Lab No.:** 7562477  
**Client No.:** 21C  
  
Percent Asbestos:  
*None Detected*

**Analyst Observation:** White/Silver Wrap  
**Client Description:** White Pipe Wrap Over 2 Inch Pipe  
  
Percent Non-Asbestos Fibrous Material:  
40 Cellulose  
15 Fibrous Glass

**Location:** Boiler Room  
**Facility:**  
  
Percent Non-Fibrous Material:  
45

**Lab No.:** 7562477(L2)  
**Client No.:** 21C  
  
Percent Asbestos:  
*None Detected*

**Analyst Observation:** Yellow Insulation  
**Client Description:** White Pipe Wrap Over 2 Inch Pipe  
  
Percent Non-Asbestos Fibrous Material:  
95 Fibrous Glass  
Trace Cellulose


**Location:** Boiler Room  
**Facility:**  
  
Percent Non-Fibrous Material:  
5

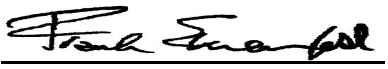
**Lab No.:** 7562478  
**Client No.:** 22A  
  
Percent Asbestos:  
*None Detected*

**Analyst Observation:** Silver/Grey Mortar  
**Client Description:** Gray Mortar Around Furnace  
  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Boiler Room  
**Facility:**  
  
Percent Non-Fibrous Material:  
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: David Hayes

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677288 - PLM Project: Nobel County; 516 Fairground Caldwell Project No.: 089229.00.03
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562479 <b>Client No.:</b> 22B	<b>Analyst Observation:</b> Silver/Grey Mortar <b>Client Description:</b> Gray Mortar Around Furnace	<b>Location:</b> Boiler Room <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562480 <b>Client No.:</b> 23A	<b>Analyst Observation:</b> Cream/Brown Countertop <b>Client Description:</b> Cream Counter Top With Yellow Mastic	<b>Location:</b> First Floor East Classroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 35 Cellulose	<u>Percent Non-Fibrous Material:</u> 65
<b>Lab No.:</b> 7562480(L2) <b>Client No.:</b> 23A	<b>Analyst Observation:</b> Yellow Mastic <b>Client Description:</b> Cream Counter Top With Yellow Mastic	<b>Location:</b> First Floor East Classroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Cellulose	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562481 <b>Client No.:</b> 23B	<b>Analyst Observation:</b> Cream/Brown Countertop <b>Client Description:</b> Cream Counter Top With Yellow Mastic	<b>Location:</b> First Floor East Classroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 35 Cellulose	<u>Percent Non-Fibrous Material:</u> 65
<b>Lab No.:</b> 7562481(L2) <b>Client No.:</b> 23B	<b>Analyst Observation:</b> Yellow Mastic <b>Client Description:</b> Cream Counter Top With Yellow Mastic	<b>Location:</b> First Floor East Classroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Cellulose	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562482 <b>Client No.:</b> 24A	<b>Analyst Observation:</b> White/Yellow Ceiling Tile <b>Client Description:</b> 2x2 White Ceiling Tile	<b>Location:</b> Second Floor East Classroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 95 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 5

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature: *David Hayes*  
Analyst: David Hayes

Approved By: *Frank E. Ehrenfeld, III*  
Frank E. Ehrenfeld, III  
Laboratory Director



CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677288 - PLM Project: Nobel County; 516 Fairground Caldwell Project No.: 089229.00.03
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562483 <b>Client No.:</b> 24B	<b>Analyst Observation:</b> White/Yellow Ceiling Tile <b>Client Description:</b> 2x2 White Ceiling Tile	<b>Location:</b> Second Floor East Classroom <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 95 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 5

<b>Lab No.:</b> 7562484 <b>Client No.:</b> 25A	<b>Analyst Observation:</b> Silver/Black Flashing <b>Client Description:</b> Black Built Up Roof System	<b>Location:</b> Roof <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Synthetic	<u>Percent Non-Fibrous Material:</u> 90

<b>Lab No.:</b> 7562484(L2) <b>Client No.:</b> 25A	<b>Analyst Observation:</b> Black Tar <b>Client Description:</b> Black Built Up Roof System	<b>Location:</b> Roof <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562484(L3) <b>Client No.:</b> 25A	<b>Analyst Observation:</b> Black Tar Paper <b>Client Description:</b> Black Built Up Roof System	<b>Location:</b> Roof <b>Facility:</b>
<u>Percent Asbestos:</u> <i>65 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 35

<b>Lab No.:</b> 7562485 <b>Client No.:</b> 25B	<b>Analyst Observation:</b> Silver/Black Flashing <b>Client Description:</b> Black Built Up Roof System	<b>Location:</b> Roof <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Synthetic	<u>Percent Non-Fibrous Material:</u> 90

<b>Lab No.:</b> 7562485(L2) <b>Client No.:</b> 25B	<b>Analyst Observation:</b> Black Tar <b>Client Description:</b> Black Built Up Roof System	<b>Location:</b> Roof <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature: *David Hayes*  
Analyst: David Hayes

Approved By: *Frank E. Ehrenfeld, III*  
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677288 - PLM Project: Nobel County; 516 Fairground Caldwell Project No.: 089229.00.03
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562485(L3) <b>Client No.:</b> 25B <u>Percent Asbestos:</u> <i>Sample Not Analyzed</i>	<b>Analyst Observation:</b> Sample Not Analyzed <b>Client Description:</b> Black Built Up Roof System <u>Percent Non-Asbestos Fibrous Material:</u> Sample Not Analyzed	<b>Location:</b> Roof <b>Facility:</b> <u>Percent Non-Fibrous Material:</u>
<b>Lab No.:</b> 7562486 <b>Client No.:</b> 26A <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Caulk <b>Client Description:</b> White 1/4 Inch Window Caulk <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Second Floor Wrestling Window <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562487 <b>Client No.:</b> 26B <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Caulk <b>Client Description:</b> White 1/4 Inch Window Caulk <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Second Floor Wrestling Window <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562488 <b>Client No.:</b> 27A <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Yellow Mastic <b>Client Description:</b> Yellow Wall Glue Under Noise Proof Panels <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Second Floor East <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562488(L2) <b>Client No.:</b> 27A <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Foam <b>Client Description:</b> Yellow Wall Glue Under Noise Proof Panels <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Second Floor East <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562489 <b>Client No.:</b> 27B <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Yellow Mastic <b>Client Description:</b> Yellow Wall Glue Under Noise Proof Panels <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Second Floor East Classroom <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature: *David Hayes*  
Analyst: David Hayes

Approved By: *Frank E. Ehrenfeld, III*  
Frank E. Ehrenfeld, III  
Laboratory Director

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677288 - PLM  
Project: Nobel County; 516 Fairground Caldwell  
Project No.: 089229.00.03

Client: SOI995

---

PLM BULK SAMPLE ANALYSIS SUMMARY

---

**Lab No.:** 7562489(L2)  
**Client No.:** 27B

**Analyst Observation:** Grey Foam  
**Client Description:** Yellow Wall Glue Under Noise Proof  
Panels

**Location:** Second Floor East Classroom  
**Facility:**

Percent Asbestos:  
*None Detected*


Percent Non-Asbestos Fibrous Material:  
None Detected

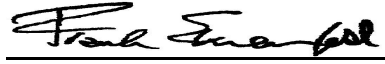
Percent Non-Fibrous Material:  
100

---

Please refer to the Appendix of this report for further information regarding your analysis.

---

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: David Hayes

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677288 - PLM Project: Nobel County; 516 Fairground Caldwell Project No.: 089229.00.03
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562490 <b>Client No.:</b> 28A	<b>Analyst Observation:</b> Black Tar <b>Client Description:</b> Black Tar And Tar Paper	<b>Location:</b> Roof <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Synthetic	<u>Percent Non-Fibrous Material:</u> 95

<b>Lab No.:</b> 7562490(L2) <b>Client No.:</b> 28A	<b>Analyst Observation:</b> Black Rubber <b>Client Description:</b> Black Tar And Tar Paper	<b>Location:</b> Roof <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562491 <b>Client No.:</b> 28B	<b>Analyst Observation:</b> Black Tar <b>Client Description:</b> Black Tar And Tar Paper	<b>Location:</b> Roof <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Synthetic	<u>Percent Non-Fibrous Material:</u> 95

<b>Lab No.:</b> 7562491(L2) <b>Client No.:</b> 28B	<b>Analyst Observation:</b> Black Rubber <b>Client Description:</b> Black Tar And Tar Paper	<b>Location:</b> Roof <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562492 <b>Client No.:</b> 29A	<b>Analyst Observation:</b> Yellow Glazing <b>Client Description:</b> Yellow Interior Window Glaze	<b>Location:</b> Third Floor North Windows <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562492(L2) <b>Client No.:</b> 29A	<b>Analyst Observation:</b> White Glazing <b>Client Description:</b> Yellow Interior Window Glaze	<b>Location:</b> Third Floor North Windows <b>Facility:</b>
<u>Percent Asbestos:</u> <b>PC 1.2 Chrysotile</b>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 98.8

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677288 - PLM  
Project: Nobel County; 516 Fairground Caldwell  
Project No.: 089229.00.03

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562493      **Analyst Observation:** Yellow Glazing      **Location:** Third Floor North Windows  
**Client No.:** 29B      **Client Description:** Yellow Interior Window Glaze      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562494      **Analyst Observation:** Red Brick      **Location:** North Exterior  
**Client No.:** 30A      **Client Description:** Ext Red Brick With Grey Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100


**Lab No.:** 7562494(L2)      **Analyst Observation:** Grey Mortar      **Location:** North Exterior  
**Client No.:** 30A      **Client Description:** Ext Red Brick With Grey Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

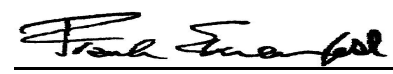
**Lab No.:** 7562495      **Analyst Observation:** Red Brick      **Location:** Southeast Exterior  
**Client No.:** 30B      **Client Description:** Ext Red Brick With Grey Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562495(L2)      **Analyst Observation:** Grey Mortar      **Location:** Southeast Exterior  
**Client No.:** 30B      **Client Description:** Ext Red Brick With Grey Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562496      **Analyst Observation:** White Glazing      **Location:** Southwest Window  
**Client No.:** 31A      **Client Description:** Ext White Window Glaze      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677288 - PLM  
Project: Nobel County; 516 Fairground Caldwell  
Project No.: 089229.00.03

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562497 <b>Client No.:</b> 31B	<b>Analyst Observation:</b> White Glazing <b>Client Description:</b> Ext White Window Glaze	<b>Location:</b> South East Window <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562498 <b>Client No.:</b> 32A	<b>Analyst Observation:</b> White Caulk <b>Client Description:</b> White 1/4 Inch Bead Window Caulk Ext	<b>Location:</b> South Exterior Window <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562499 <b>Client No.:</b> 32B	<b>Analyst Observation:</b> White Caulk <b>Client Description:</b> White 1/4 Inch Bead Window Caulk Ext	<b>Location:</b> East Exterior Window <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Talc	<u>Percent Non-Fibrous Material:</u> 98
<b>Lab No.:</b> 7562500 <b>Client No.:</b> 33A	<b>Analyst Observation:</b> Grey Caulk <b>Client Description:</b> 1/4 Inch Gray Door Caulk Ext	<b>Location:</b> Southwest Door <b>Facility:</b>
<u>Percent Asbestos:</u> <i>PC 2.6 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 97.4
<b>Lab No.:</b> 7562501 <b>Client No.:</b> 33B	<b>Analyst Observation:</b> Sample Not Analyzed <b>Client Description:</b> 1/4 Inch Gray Door Caulk Ext	<b>Location:</b> South East Door <b>Facility:</b>
<u>Percent Asbestos:</u> <i>Sample Not Analyzed</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Sample Not Analyzed	<u>Percent Non-Fibrous Material:</u>
<b>Lab No.:</b> 7562502 <b>Client No.:</b> 34A	<b>Analyst Observation:</b> Black Caulk <b>Client Description:</b> 1/4 Inch Black Ext Window Caulk	<b>Location:</b> North First Floor Window Exterir <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677288 - PLM  
Project: Nobel County; 516 Fairground Caldwell  
Project No.: 089229.00.03

Client: SOI995

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7562503      **Analyst Observation:** Black Caulk      **Location:** Northwest First Floor Window  
**Client No.:** 34B      **Client Description:** 1/4 Inch Black Ext Window Caulk      Ext  
**Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562504      **Analyst Observation:** White Caulk      **Location:** First Floor Hallway  
**Client No.:** 35A      **Client Description:** 1/4 Inch White Caulk Between Bricks      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100


**Lab No.:** 7562505      **Analyst Observation:** White Caulk      **Location:** First Floor Hallway  
**Client No.:** 35B      **Client Description:** 1/4 Inch White Caulk Between Bricks      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

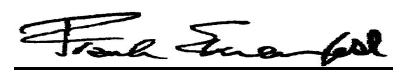
**Lab No.:** 7562506      **Analyst Observation:** Grey Brick      **Location:** First Floor Hallway  
**Client No.:** 36A      **Client Description:** Gray Brick With Gray Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562506(L2)      **Analyst Observation:** Grey Mortar      **Location:** First Floor Hallway  
**Client No.:** 36A      **Client Description:** Gray Brick With Gray Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

**Lab No.:** 7562507      **Analyst Observation:** Grey Brick      **Location:** First Floor Hallway  
**Client No.:** 36B      **Client Description:** Gray Brick With Gray Mortar      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*None Detected*      None Detected      100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director


CERTIFICATE OF ANALYSIS

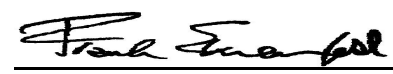
Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677288 - PLM Project: Nobel County; 516 Fairground Caldwell Project No.: 089229.00.03
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562507(L2) <b>Client No.:</b> 36B <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Mortar <b>Client Description:</b> Gray Brick With Gray Mortar <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> First Floor Hallway <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 7562508 <b>Client No.:</b> 37A <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Insulation <b>Client Description:</b> Insulation Around Pipe Through Wall <u>Percent Non-Asbestos Fibrous Material:</u> 100 Cellulose	<b>Location:</b> Boiler Room <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> None Detected
<b>Lab No.:</b> 7562509 <b>Client No.:</b> 37B <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Insulation <b>Client Description:</b> Insulation Around Pipe Through Wall <u>Percent Non-Asbestos Fibrous Material:</u> 100 Cellulose	<b>Location:</b> Boiler Room <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> None Detected
<b>Lab No.:</b> 7562510 <b>Client No.:</b> 37C <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Insulation <b>Client Description:</b> Insulation Around Pipe Through Wall <u>Percent Non-Asbestos Fibrous Material:</u> 100 Cellulose	<b>Location:</b> Boiler Room <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> None Detected
<b>Lab No.:</b> 7562511 <b>Client No.:</b> 38A <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Green Chalkboard <b>Client Description:</b> Green Chalkboard <u>Percent Non-Asbestos Fibrous Material:</u> 90 Cellulose	<b>Location:</b> East Classroom First Floor <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 10
<b>Lab No.:</b> 7562512 <b>Client No.:</b> 38B <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Green Chalkboard <b>Client Description:</b> Green Chalkboard <u>Percent Non-Asbestos Fibrous Material:</u> 90 Cellulose	<b>Location:</b> East Classroom First Floor <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 10

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers-995 3301 Tech Circle Drive Kalamazoo MI 49008	Report Date: 2/17/2023 Report No.: 677288 - PLM Project: Nobel County; 516 Fairground Caldwell Project No.: 089229.00.03
Client: SOI995	

PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 7562513 <b>Client No.:</b> 39A	<b>Analyst Observation:</b> Black Caulk <b>Client Description:</b> Black Roof Caulk	<b>Location:</b> Roof <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Cellulose	<u>Percent Non-Fibrous Material:</u> 85

<b>Lab No.:</b> 7562514 <b>Client No.:</b> 39B	<b>Analyst Observation:</b> Black Caulk <b>Client Description:</b> Black Roof Caulk	<b>Location:</b> Roof <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Cellulose	<u>Percent Non-Fibrous Material:</u> 85

<b>Lab No.:</b> 7562515 <b>Client No.:</b> 40A	<b>Analyst Observation:</b> Red Brick <b>Client Description:</b> Roof Tile With Black Tar	<b>Location:</b> Roof <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562515(L2) <b>Client No.:</b> 40A	<b>Analyst Observation:</b> Grey Mortar <b>Client Description:</b> Roof Tile With Black Tar	<b>Location:</b> Roof <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 7562515(L3) <b>Client No.:</b> 40A	<b>Analyst Observation:</b> Black Tar <b>Client Description:</b> Roof Tile With Black Tar	<b>Location:</b> Roof <b>Facility:</b>
<u>Percent Asbestos:</u> <i>PC 1.4 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 98.6

<b>Lab No.:</b> 7562516 <b>Client No.:</b> 40B	<b>Analyst Observation:</b> Red Brick <b>Client Description:</b> Roof Tile With Black Tar	<b>Location:</b> Roof <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677288 - PLM  
Project: Nobel County; 516 Fairground Caldwell  
Project No.: 089229.00.03

Client: SOI995

---

PLM BULK SAMPLE ANALYSIS SUMMARY

---

**Lab No.:** 7562516(L2)  
**Client No.:** 40B

**Analyst Observation:** Grey Mortar  
**Client Description:** Roof Tile With Black Tar

**Location:** Roof  
**Facility:**

Percent Asbestos:  
*None Detected*


Percent Non-Asbestos Fibrous Material:  
None Detected

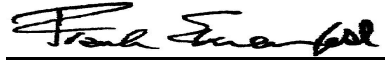
Percent Non-Fibrous Material:  
100

---

Please refer to the Appendix of this report for further information regarding your analysis.

---

Date Received: 2/1/2023  
Date Analyzed: 02/17/2023  
Signature:   
Analyst: Aidan Becker

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677288 - PLM  
Project: Nobel County; 516 Fairground Caldwell  
Project No.: 089229.00.03

Client: SOI995

## Appendix to Analytical Report

**Customer Contact:** Davin Ojala

**Method:** 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, USEPA 600, R93-116 and NYSDOH ELAP 198.1 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

**iATL Customer Service:** customerservice@iatl.com

**iATL Office Manager:** wchampion@iatl.com

**iATL Account Representative:** Shirley Clark

**Sample Login Notes:** See Batch Sheet Attached

**Sample Matrix:** Bulk Building Materials

**Exceptions Noted:** See Following Pages

### General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at [www.iATL.com](http://www.iATL.com) and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

### Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

### Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB) See additional information at the end of this appendix.

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677288 - PLM  
Project: Nobel County; 516 Fairground Caldwell  
Project No.: 089229.00.03

Client: SOI995

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)  
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

### Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at [customerservice@iatl.com](mailto:customerservice@iatl.com).

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

### Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gänge, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) [www.atsdr.cdc.gov](http://www.atsdr.cdc.gov), United States Geological Survey (USGS) [www.minerals.usgs.gov/minerals/](http://www.minerals.usgs.gov/minerals/), US EPA [www.epa.gov/asbestos](http://www.epa.gov/asbestos). The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite ([https://www.wadsworth.org/sites/default/files/WebDoc/I198\\_8\\_02\\_2.pdf](https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf))

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1) **Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116  
**Requirements/Comments:** Minimum of 0.1 g of sample. ~0.25% for most samples.

---

CERTIFICATE OF ANALYSIS

---

Client: Soil and Materials Engineers-995  
3301 Tech Circle Drive  
Kalamazoo MI 49008

Report Date: 2/17/2023  
Report No.: 677288 - PLM  
Project: Nobel County; 516 Fairground Caldwell  
Project No.: 089229.00.03

Client: SOI995

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Suspension" only.  
\*With advance notice and confirmation by the laboratory.

\*\*Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM CERTIFICATION MANUAL - ITEM No. 198.1, Revision Date 5/6/16)

\*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other than SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% vermiculite.

Statistically derived uncertainty with any measure should be taken into consideration when reviewing and interpreting all reported data and results. A more comprehensive listing of accuracy, precision, and uncertainty as it impacts this method is available upon request.



*Passionate People Building  
and Revitalizing our World*

