BUILDING REMEDIATION / DEMOLITION / REMOVALS AT 1 Orchard Terrace 1 South Main Street 58 Maple Street 146 Walnut Street

NAUGATUCK, CONNECTICUT

Contract No. 14-18

Contract Documents

PREPARED BY THE BOROUGH OF NAUGATUCK Department of Public Works

April 2014



BOROUGH OF NAUGATUCK

INVITATION TO BID

Borough of Naugatuck

Sealed proposals will be received by the Purchasing Office, Borough of Naugatuck, Town Hall, 229 Church Street, Naugatuck, CT 06770 until <u>Monday, May 12, 2014 at 11:00 A.M</u>. for supplying the Borough of Naugatuck with the following products and services:

Contract No. 14-18 BUILDING REMEDIATION / DEMOLITION / REMOVALS AT

Orchard Terrace
 South Main Street
 Maple Street
 Walnut Street

Immediately following the above time and date sealed proposals will be publicly opened and read at the Town Hall.

The Proposal document may examined and obtained at no cost from the Borough of Naugatuck web site http://www.naugatuck-ct.gov All firms obtaining proposal documents must submit contact information by e-mail to whozer@naugatuck-ct.gov Contact information must be submitted three days in advance of the bid opening to be considered.

Proposal documents may also be obtained at the Office of the Purchasing Agent upon submission of a non-refundable fee in the form of a check or money order payable to the Borough of Naugatuck in the amount of **\$50.00** per set.

Addenda if required shall be posted on the <u>http://www.naugatuck-ct.gov</u> web site. It is the bidder's responsibility to check the Town web site in advance of the bid opening to determine if any addenda have been issued.

A pre bid meeting is scheduled for May 1, 2014 10:00 A.M. starting at 58 Maple Street, Naugatuck, CT.

The Borough of Naugatuck reserves the right to waive any informalities or to reject any or all proposals.

The Borough of Naugatuck is an affirmative action/equal opportunity employer MBE's, WBE's and SBE's are encouraged to apply.

SECTION A

INFORMATION FOR BIDDERS

Borough of Naugatuck

1. Engagement of the Demolition Contractor

The Borough of Naugatuck requests that sealed Proposals be submitted to demolish the following buildings in the Borough of Naugatuck, Naugatuck CT 06770:

Orchard Terrace
 South Main Street
 Maple Street
 Walnut Street

Please direct any and all questions to: James R. Stewart Naugatuck Public Works Dept. 246 Rubber Avenue, Naugatuck, CT 06770 Tel: (203) 720-7071

2. STANDARD DOT SPECIFICATIONS:

The material and construction methods for the work specified in this contract shall conform with the applicable provisions of the State of Connecticut, Department of Transportation specifications entitled "STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION", Form 816, 2004, as revised by the Supplemental Specifications dated January, 2007 (otherwise referred to collectively as "ConnDOT form 816") unless modified by the Special Provisions contained herein. "ConnDOT form 816" is hereby made part of this contract.

Form 816 may be purchased from: Connecticut Department of Transportation, Manager of Contracts, 2800 Berlin Turnpike, Newington, Connecticut 06111.

All references to Commissioner, Department, Engineer, and State anywhere within the Form 816 shall be interpreted to mean the Borough of Naugatuck or a duly authorized agent of the Borough. Any questions or ambiguity regarding any definitions shall be brought to the immediate attention of the Borough.

3. PREPARATION OF BID:

Each bid must be submitted in duplicate on the prescribed form. All blank spaces for bid prices must be filled in, in ink or typewritten, in both words and figures.

Each bid must be submitted in duplicate (1 original and 1 copy) in a sealed envelope bearing on the outside, the name of the bidder, his address, and the name of the project for which the bid is submitted. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed as specified in the paragraph above.

Only complete bids will be accepted. In order for a bid to be complete, it must include all of the following;

- A. Form of Bid
- **B.** Bid security (*bid bond*)
- C. Surety Guaranty form
- **D.** References

4. SUBCONTRACTS:

The bidder is specifically advised that any person, firm, or other party to whom it is proposed to award a subcontract under this contract must be acceptable to the Owner.

5. QUALIFICATIONS OF BIDDER:

The Municipality may make whatever investigations it deems necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the Municipality all information and data for this purpose as the Municipality may request. The Municipality reserves the right to reject any bid if the evidence submitted by, or investigation of, the bidder fails to satisfy the Municipality that the 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.

6. **BID SECURITY:**

Each bid must be accompanied by a bid bond prepared on the form specified by the Surety duly executed by the bidder as principal and having a surety thereon approved by the Municipality, in the amount of 5% of the bid. Checks or bid bonds shall be returned to all but the three lowest bidders within seven days after the opening of the bids, and the remaining checks or bid bonds will be returned promptly after the Municipality and the accepted bidder have executed the contract, or if no award has been made, within 90 days after the date of the opening of the bids, upon demand of the bidder at any time thereafter, so long as he has not been notified of the acceptance of his bid.

7. LIQUIDATED DAMAGES FOR FAILURE TO ENTER INTO CONTRACT:

The successful bidder, upon his failure or refusal to execute and deliver the contract, bonds and certificates of insurance required within 10 days after he has received notice of the acceptance of his bid, shall forfeit to the Municipality, as liquidated damages for such failure or refusal, the security deposited with his bid.

8. TIME OF COMPLETION AND LIQUIDATED DAMAGES:

The bidder agrees to commence work on or before a date to be specified in a written "Notice To Proceed" of the Municipality and to fully complete the project within **60** consecutive calendar days thereafter. The bidder agrees also to pay as liquidated damages, the sum of **\$150.00** for each consecutive calendar day thereafter until the project is complete.

9. CONDITIONS OF WORK:

Each bidder must inform himself fully of the conditions relating to the construction of the project and the employment of labor thereon. Failure to do so will not relieve a successful bidder of his obligation to furnish all material and labor necessary to carry out the provisions of his contract. Insofar as possible, the contractor in carrying out his work must employ such methods or means as will cause the least interruption of or interference with the work of any other contractor.

10. ADDENDA AND INTERPRETATIONS:

No 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 must be in writing and addressed to Mr. James Stewart, P.E., Director of Public Works of the Borough of Naugatuck, 246 Rubber Ave, Naugatuck, CT 06770, and, to be given consideration, must be received at <u>least five days</u> prior to the date fixed for the opening of the 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 posted on the Town web site not later than three days prior to the date fixed for the opening of the bids. It shall be the bidder to check the Town web site for addenda prior to the bid opening. Failure of any bidder to obtain any such addenda or interpretation shall not relieve such bidder from any obligation under his bid as submitted. All addenda so issued shall become part of the contract documents.

11. SECURITY FOR FAITHFUL PERFORMANCE:

Simultaneously with his delivery of the executed contract, the Contractor shall furnish a 100% surety bond or bonds as security of faithful performance of his contract and for the payment of all persons performing labor on the project under this contract and furnishing materials in connection with this contract, as specified in the General Conditions included herein. The surety on such bond or bonds shall be a duly authorized surety company satisfactory to the Municipality, and listed in the Department of Treasury's Listing of Approved Sureties (Circular 570).

12. POWER OF ATTORNEY:

Attorneys-in-fact who sign bid bonds or contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.

13. LAWS AND REGULATIONS:

The bidders' attention is directed to the fact that all applicable State laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over the construction of the project shall apply to the contract throughout, and they are considered included in the contract the same as though they were written out in full.

14. OBLIGATION OF BIDDER:

At the time of the opening of the bids, each bidder will be presumed to have inspected the site and to have read and be thoroughly familiar with the plans and the contract documents (*including all addenda*). The failure or omission of a bidder to examine any form, instrument or document shall in no way relieve the bidder from any obligation with respect to his bid.

15. EXECUTION OF CONTRACT

The party to whom the Contract is awarded, or his authorized representative, will be required to attend at the office of the Mayor, Borough of Naugatuck, with the sureties offered by him, or them, and a current certificate of Corporate good standing issued by the Office of the Secretary of State in which the corporation is incorporated, and execute the Contract within five (5) days from the date of the award. If the party entering into this contract is a corporation authorizing the Corporation to enter into this Contract shall be provided. In case of his failure or neglect to do so, the Owner may, at its opinion, determine that the Bidder has abandoned the Contract and thereupon the Proposal and acceptance shall be null and void, and bid security accompanying the Proposal shall be forfeited as liquidated damages to the Owner. If the party entering into this contract is a partnership, a partnership resolution duly executed by a majority of the general partners authorizing the partnership to enter into this contract shall be provided.

16. Bonds

The successful Bidder, at the time of the execution of the Contract, shall furnish a Performance Bond in an amount at least equal to one hundred percent (100%) of the Contract prices as security for the faithful performance of this Contract and also a Payment bond in an amount not less than one hundred percent (100%) for the Contract prices as security for the payment of all persons performing labor on the project under this Contract and furnishing materials in connection with this Contract. All Bonds shall be in the forms prescribed by Law or Regulation and be acceptable to the Owner. Surety companies executing Bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of Connecticut. Bidder shall provide evidence that Surety Company is licensed to conduct business in the State of Connecticut. All sureties shall be in full force throughout the guarantee period and until the retainage is released.

17. RESPONSIBILITY OF THE CONTRACTORS

Attention is hereby particularly directed to the provisions of the Contract and Specifications whereby the Contractor shall be responsible for any loss or damage that may happen in the work, or any part thereof, during its progress and also whereby the Contractor shall make good any defects for faults that may occur within one (1) year after date of final estimate. He shall indemnify and save harmless the Owner and Engineer from any damages or costs to which they may be put by reason of injury to the person or property of another resulting from negligence or carelessness in the performance of the work under this Contract.

18. INSURANCE

Before execution of the Contract, the Bidder will be required to file with the Borough of Naugatuck a certificate of insurance. The certificate, executed by an insurance company satisfactory to the Borough of Naugatuck shall name the Borough of Naugatuck and the State as additional insured parties on the form furnished with these specifications. The "Certificate of Insurance" shall state that at a minimum, with respect to the contract, the bidder carries insurance in accordance with the requirements and stipulations listed below.

Unless requested otherwise by the Borough of Naugatuck, the Bidder and its insurer shall not assert the defense of governmental immunity in the adjustment of claims or in the defense of any claim or suit brought against the Borough of Naugatuck and the State. The Bidder shall assume and pay all cost and billing for premiums and audit charges earned and payable under the required insurance.

A. Workmen's Compensation Insurance: With respect to all operations the Bidder performs and all those performed for it by subcontractors, the Bidder shall carry workmen's compensation insurance in accordance with the requirements and the laws of the State.

B. Contractor's Public Liability and Property Damage Insurance: With respect to the Project operations the Bidder performs and also those performed for it by subcontractors, the Bidder shall carry regular Contractor's Public Liability Insurance. The insurance shall provide coverage for each accident or occurrence in the amount of \$1,000,000 for all damages resulting from (1) bodily injury to, or death of, persons and/or (2) injury to or destruction of property. Subject to that limit per accident or occurrence, the policy shall provide a total or aggregate coverage of \$2,000,000 for all damages during the policy period.

C. Automobile Liability Insurance: The operation of all motor vehicles, including those hired or borrowed, used in connection with the project, shall be covered by Automobile Liability Insurance. The insurance shall provide coverage for each accident or occurrence in the amount of \$1,000,000 for all damages resulting from (1) bodily injury to, or death of, persons and/or (2) injury to or destruction of property. If an insurance policy shows an aggregate limit as part of the automobile liability coverage, the aggregate limit must be at least \$2,000,000.

D. With respect to the project operations the Bidder performs and also those performed for it by subcontractors, the Bidder shall carry for and on behalf of the Borough of Naugatuck, and State, insurance which shall provide coverage for each accident or occurrence in the amount of \$1,000,000 for all damages resulting from (1) bodily injury to or death of person and/or (2) injury to or destruction of property. Subject to that limit per accident or occurrence, the policy shall provide a total or aggregate coverage of \$2,000,000 for all damages during the policy period.

E. None

F. Blasting: When explosives are to be used in the prosecution of the work, the insurance required under paragraphs b, d and e above shall also contain provisions for protection, in the

amounts state, against damage claims due to such use of explosives.

G. Termination or change of Insurance: Each insurance policy shall be endorsed to provide that the insurance company shall notify the Borough of Naugatuck by certified mail at least thirty (30) days in advance of termination, or any change in the policy. No such change shall be made without prior written approval of the appropriate Official.

H. Claims: Each insurance policy shall state that the insurance company shall agree to investigate and defend the Borough of Naugatuck and State against all damages, even if groundless.

I. Compensation: There shall be no direct compensation allowed the Bidder on account of any premium or other change necessary to take out and keep in effect all insurance or bonds, but the cost thereof shall be considered included in the general cost of the work.

19. Care and Protection of Property

The Contractor shall take particular care to avoid damages to all private property and to private improvements within the Boroughs' right of way. He shall make good any damages to the satisfaction of the Inspector. There shall be no additional compensation for the repair or restoration of private property, or private improvements. within the Boroughs' right of way.

20. Sales Tax

Certain materials and supplies incorporated in the work of this project are exempt from Connecticut Sales Tax. The Bidder shall familiarize himself with current regulations of the State Tax Department. The tax on materials or supplies exempted by such regulations shall not be included as part of the bid. The Owner will furnish the successful Bidder a sales tax exemption number.

21. Compliance with Federal and State Regulations

The Contractor shall be responsible for full compliance with any Federal and/or State laws, regulations and standards, as applicable to any project fully or partially funded by State and/or Federal funding agency. This project is funded, in part, by the State and Federal government.

22. Permits

All licenses and permits for complying with any applicable Federal, State, and Municipal laws, codes and regulations in connection with the prosecution of the work shall be obtained by the Contractor, at no additional cost to the Owner.

23. Contractor's Right to Terminate Work

If the work should be stopped under an order of any court or other public authority, for a consecutive period of not less than thirty (30) days, through no act or fault of the Contractor or of anyone employed by him, then the Contractor may terminate this Contract and recover from the Owner payment for all work executed.

24. Terms and Conditions

This document, its terms and conditions and any claims arising there from, shall be governed by Connecticut law. The Demolition Contractor shall comply with all applicable law, ordinances,

and codes of the State of Connecticut and the Borough of Naugatuck and shall commit no trespass on any private property in performing services under this document.

The parties agree that they waive a trial by jury as to any and all claims, cause of action or disputes arising out of this document or services to be provided pursuant to this document. Notwithstanding any such claim, dispute, or legal action, the Demolition Contractor shall continue to perform services under this document in a timely manner, unless otherwise directed by the Borough of Naugatuck.

25. Subcontracting and Assignability

None of the services covered by this document shall be subcontracted without the prior written approval of the Borough of Naugatuck for the acts and omissions of its Demolition Contractors, and of persons either directly or indirectly employed by Demolition Contractor, as it is for the acts and omissions of persons directly employed by Demolition Contractor. The Borough of Naugatuck may, before making payment on the document require either an affidavit from the Demolition Contractor that all sub Contractors and materials have been paid or may require waiver of mechanics' liens from any and all sub Contractors and material men.

The Demolition Contractor shall not assign any interest in this document, and shall not transfer any interest in the same (whether by assignment or notation) without the prior written approval of the Borough of Naugatuck; provided, however, that claims for money due or to become due the Demolition Contractor from the Borough of Naugatuck under this document may be assigned to a bank, trust company, or other financial institution, or to a Trustee in Bankruptcy, without such approval. Notice of any such assignment or transfer shall be furnished promptly to the Borough of Naugatuck.

26. Termination of Contract

If, through any cause, the Demolition Contractor shall fail to fulfill, in a timely and proper manner, his obligations under this document, or if the Demolition Contractor shall violate any of the covenants, agreements, or stipulations of this document by giving written notice to the Demolition Contractor of termination and specifying the effective date thereof, at least five (5) days before the effective date of such termination. In the event of such termination all records prepared by the Demolition Contractor under this document shall, at the option of the Borough of Naugatuck, become its property.

27. Irregular Proposals

The Borough of Naugatuck reserves the right to reject any proposals if they show any omission, alteration of form, additions not called for, conditional bids, or irregularities of any kind.

28. Withdrawal of Proposals

If a Bidder wishes to withdraw his Proposal, he may do so before the time fixed for the opening of bids by communicating his purpose to the office of the Purchasing Agent. Upon such notice, the Proposal will be handed to him unopened.

29. Compliance with Federal and State Regulations

The Demolition Contractor shall be responsible for full compliance with any Federal and/or State laws, regulations and standards.

30. Permits

All licenses and permits for complying with any applicable Federal, State, and Municipal laws, codes and regulations in connection with the prosecution of the work shall be obtained by the Demolition Contractor, at no additional cost to the Borough.

31. Right to Reject

The Borough reserves the right to reject any or all proposals or to accept any proposal, should it deem it to be in the best interest of the Borough.

SECTION B-1

BID FORM

Borough of Naugatuck

Contract No. 14-18 BUILDING REMEDIATION / DEMOLITION / REMOVALS AT 1 Orchard Terrace

The undersigned, as Bidder, declares that no person or persons, other than those named herein, are interested in this Proposal; that this Proposal is made without collusion with any person, firm or corporation; that he has carefully examined the location of the proposed work, the proposed Form of Contract, and the Contract Drawings therein referred to; that no person or persons acting in any official capacity for the Borough is directly or indirectly interested therein or in any portion of the profit thereof; and that he proposes and agrees, if this Proposal is accepted, to execute the Form of Contract with the Borough; to provide all necessary equipment, tools, and other means of construction, and to do all work and furnish all materials specified in the Contract, in the manner and time therein prescribed, and according to the requirements of the Borough of Naugatuck Inspector as therein set forth, and that he will take in full payment therefore, the following unit prices and lump sums, to wit:

The Bidder agrees that this proposal shall be good and may not be withdrawn for a period of ninety (90) days after the scheduled closing time for receiving bids.

Successful bidders shall defend, indemnify and hold and save harmless the Borough of Naugatuck against and from any and all liabilities, claims, damages, losses, fees, costs, expenses, etc. Which arise directly or indirectly from successful bidders operations and/or related activities.

The Borough of Naugatuck reserves the right to reject any and all proposals in whole or in part, including low cost proposal, to make partial awards, to waive any irregularities in any quotation, to increase or decrease quantities if quantities are listed in the proposals, and may reject any proposal that shows any omissions not called for, conditions, or alternate proposals, and may make any such award as is considered to be in the best interest of the Borough of Naugatuck.

SECTION B-1 cont.

Pursuant to and in compliance with your "Invitation to Bid" relating thereto, the undersigned,

Company Name:	
Street Address:	
Town/City:	
Telephone:	
Email:	
Name	
Signature	Date

having visited the sites and carefully examined the Project Site(s), Contract Documents, Project Manual and Specifications dated April 2014, together with all Addenda issued and received prior to the scheduled closing time for receipt of Bids as prepared by the Owner; hereby offers and agrees as follows: To provide all labor, materials, equipment and whatsoever else necessary according to the requirements and contract documents to install and properly finish all work in connection with the,

Contract No. 14-18 BUILDING REMEDIATION / DEMOLITION / REMOVALS AT 1 Orchard Terrace

to the satisfaction of the Borough of Naugatuck for the Base Bid Lump Sum of:

_____(\$_____)

SECTION B-2

BID FORM

Borough of Naugatuck

Contract No. 14-18 BUILDING REMEDIATION / DEMOLITION / REMOVALS AT 1 South Main Street

The undersigned, as Bidder, declares that no person or persons, other than those named herein, are interested in this Proposal; that this Proposal is made without collusion with any person, firm or corporation; that he has carefully examined the location of the proposed work, the proposed Form of Contract, and the Contract Drawings therein referred to; that no person or persons acting in any official capacity for the Borough is directly or indirectly interested therein or in any portion of the profit thereof; and that he proposes and agrees, if this Proposal is accepted, to execute the Form of Contract with the Borough; to provide all necessary equipment, tools, and other means of construction, and to do all work and furnish all materials specified in the Contract, in the manner and time therein prescribed, and according to the requirements of the Borough of Naugatuck Inspector as therein set forth, and that he will take in full payment therefore, the following unit prices and lump sums, to wit:

The Bidder agrees that this proposal shall be good and may not be withdrawn for a period of ninety (90) days after the scheduled closing time for receiving bids.

Successful bidders shall defend, indemnify and hold and save harmless the Borough of Naugatuck against and from any and all liabilities, claims, damages, losses, fees, costs, expenses, etc. Which arise directly or indirectly from successful bidders operations and/or related activities.

The Borough of Naugatuck reserves the right to reject any and all proposals in whole or in part, including low cost proposal, to make partial awards, to waive any irregularities in any quotation, to increase or decrease quantities if quantities are listed in the proposals, and may reject any proposal that shows any omissions not called for, conditions, or alternate proposals, and may make any such award as is considered to be in the best interest of the Borough of Naugatuck.

SECTION B-2 cont.

Pursuant to and in compliance with your "Invitation to Bid" relating thereto, the undersigned,

Company Name:	
Street Address:	
Town/City:	
Telephone:	
Email:	
Name	
Signature	Date

having visited the sites and carefully examined the Project Site(s), Contract Documents, Project Manual and Specifications dated April 2014, together with all Addenda issued and received prior to the scheduled closing time for receipt of Bids as prepared by the Owner; hereby offers and agrees as follows: To provide all labor, materials, equipment and whatsoever else necessary according to the requirements and contract documents to install and properly finish all work in connection with the,

Contract No. 14-18 BUILDING REMEDIATION / DEMOLITION / REMOVALS AT

1 South Main Street

to the satisfaction of the Borough of Naugatuck for the Base Bid Lump Sum of:

_____(\$______)

SECTION B-3

BID FORM

Borough of Naugatuck

Contract No. 14-18 BUILDING REMEDIATION / DEMOLITION / REMOVALS AT

58 Maple Street

The undersigned, as Bidder, declares that no person or persons, other than those named herein, are interested in this Proposal; that this Proposal is made without collusion with any person, firm or corporation; that he has carefully examined the location of the proposed work, the proposed Form of Contract, and the Contract Drawings therein referred to; that no person or persons acting in any official capacity for the Borough is directly or indirectly interested therein or in any portion of the profit thereof; and that he proposes and agrees, if this Proposal is accepted, to execute the Form of Contract with the Borough; to provide all necessary equipment, tools, and other means of construction, and to do all work and furnish all materials specified in the Contract, in the manner and time therein prescribed, and according to the requirements of the Borough of Naugatuck Inspector as therein set forth, and that he will take in full payment therefore, the following unit prices and lump sums, to wit:

The Bidder agrees that this proposal shall be good and may not be withdrawn for a period of ninety (90) days after the scheduled closing time for receiving bids.

Successful bidders shall defend, indemnify and hold and save harmless the Borough of Naugatuck against and from any and all liabilities, claims, damages, losses, fees, costs, expenses, etc. Which arise directly or indirectly from successful bidders operations and/or related activities.

The Borough of Naugatuck reserves the right to reject any and all proposals in whole or in part, including low cost proposal, to make partial awards, to waive any irregularities in any quotation, to increase or decrease quantities if quantities are listed in the proposals, and may reject any proposal that shows any omissions not called for, conditions, or alternate proposals, and may make any such award as is considered to be in the best interest of the Borough of Naugatuck.

SECTION B-3 cont.

Pursuant to and in compliance with your "Invitation to Bid" relating thereto, the undersigned,

Company Name:	
Street Address:	
Town/City:	
Telephone:	
Email:	
Name	
Signature	Date

having visited the sites and carefully examined the Project Site(s), Contract Documents, Project Manual and Specifications dated April 2014, together with all Addenda issued and received prior to the scheduled closing time for receipt of Bids as prepared by the Owner; hereby offers and agrees as follows: To provide all labor, materials, equipment and whatsoever else necessary according to the requirements and contract documents to install and properly finish all work in connection with the,

Contract No. 14-18 BUILDING REMEDIATION / DEMOLITION / REMOVALS AT

58 Maple Street

to the satisfaction of the Borough of Naugatuck for the Base Bid Lump Sum of:

(\$)
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SECTION B-4

BID FORM

Borough of Naugatuck

Contract No. 14-18 BUILDING REMEDIATION / DEMOLITION / REMOVALS AT

146 Walnut Street

The undersigned, as Bidder, declares that no person or persons, other than those named herein, are interested in this Proposal; that this Proposal is made without collusion with any person, firm or corporation; that he has carefully examined the location of the proposed work, the proposed Form of Contract, and the Contract Drawings therein referred to; that no person or persons acting in any official capacity for the Borough is directly or indirectly interested therein or in any portion of the profit thereof; and that he proposes and agrees, if this Proposal is accepted, to execute the Form of Contract with the Borough; to provide all necessary equipment, tools, and other means of construction, and to do all work and furnish all materials specified in the Contract, in the manner and time therein prescribed, and according to the requirements of the Borough of Naugatuck Inspector as therein set forth, and that he will take in full payment therefore, the following unit prices and lump sums, to wit:

The Bidder agrees that this proposal shall be good and may not be withdrawn for a period of ninety (90) days after the scheduled closing time for receiving bids.

Successful bidders shall defend, indemnify and hold and save harmless the Borough of Naugatuck against and from any and all liabilities, claims, damages, losses, fees, costs, expenses, etc. Which arise directly or indirectly from successful bidders operations and/or related activities.

The Borough of Naugatuck reserves the right to reject any and all proposals in whole or in part, including low cost proposal, to make partial awards, to waive any irregularities in any quotation, to increase or decrease quantities if quantities are listed in the proposals, and may reject any proposal that shows any omissions not called for, conditions, or alternate proposals, and may make any such award as is considered to be in the best interest of the Borough of Naugatuck.

SECTION B-4 cont.

Pursuant to and in compliance with your "Invitation to Bid" relating thereto, the undersigned,

Company Name:	
Street Address:	
Town/City:	
Telephone:	
Email:	
Name	
Signature	Date

having visited the sites and carefully examined the Project Site(s), Contract Documents, Project Manual and Specifications dated April 2014, together with all Addenda issued and received prior to the scheduled closing time for receipt of Bids as prepared by the Owner; hereby offers and agrees as follows: To provide all labor, materials, equipment and whatsoever else necessary according to the requirements and contract documents to install and properly finish all work in connection with the,

Contract No. 14-18 BUILDING REMEDIATION / DEMOLITION / REMOVALS AT

146 Walnut Street

to the satisfaction of the Borough of Naugatuck for the Base Bid Lump Sum of:

_____(\$______)

SECTION C

REFERENCES

The Bidder is required to fill out the following form to enable the Borough to make inquiries and judge as to the Bidder's experience, skill, available financial resources, credit, and business standing.

1. Number of years the bidder has been in business: _____

2. List three (3) references of similar nature to the work described herein that the Bidder has completed, with name, address, and telephone number of a reference for each.

2. Has the Bidder ever failed complete work awarded; and if so, state where and why:

3. Does the Bidder plan to sublet any part of this work; and if so, give details:

Bidder

SECTION D

BID BOND /SURETY GUARANTY

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we the undersigned:

as Principal, and ______as Surety are held and firmly bound unto Borough of Naugatuck hereinafter called the "Owner", in the penal sum of ______

_____Dollars, (\$_____) lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION IS SUCH, that whereas the Principal has submitted the accompanying BID, dated ______, 20____, for ______

NOW THEREFORE, if the Principal shall not withdraw said Bid within the time period specified therein after the opening of the same, or within any extended time period agreed to by the Principal, Surety and Owner, or, if no period be specified, within ninety (90) days after the said opening, and shall within the period specified thereof, or if no period be specified, within twenty (20) days after the prescribed forms are presented to him for signature, enter into a written Contract with the Owner in accordance with the Bid as accepted, and give bond with good and sufficient surety or sureties, as may be required, for the faithful performance and proper fulfillment of such Contract; then the above obligation shall be null and void and of no effect, otherwise to remain in full force or virtue.

Failure to comply with the aforementioned condition shall result in the forfeiture of this BID BOND as liquidated damages.

IN WITNESS WHEREOF, the above-bounded parties have executed this Instrument under their several seals this ______day of ______, 20_____, the name and corporate seal of each corporate party being hereto affixed and these presents signed by its undersigned representative, pursuant to authority of its governing body.

No extension of time or other modification of the BID BOND shall be valid unless agreed to in writing by the parties to this Bond.

In presence of:	BID BOND (Page 2 of 2)		
		(Individual Principal))
		(Business Address)	
		(Individual Principal))
Attest:		(Business Address)	
		(Corporate Principal)
		(Business Address)	
	By:		Affix _Corporate
Attest:			Seal
		(Corporate Surety)	
		(Business Address)	
	By:		Affix _Corporate
Countersigned			Seal
By:			
* Attorney-in Fact, State of			

* Power-of Attorney for person signing for Surety Company must be attached to Bond.

SURETY GUARANTY FORM

(To accompany Proposal)

KNOW ALL MEN BY THESE PRESENTS, that for and in consideration of the sum of \$1.00, lawful money of the United States, the receipt whereof is hereby acknowledged, paid the undersigned corporation, and for other valuable consideration, the______

<u>___a</u>

(Name of Surety Company) corporation organized and existing under the laws of the State of ______ and licensed to do business in the State of Connecticut, certifies and agrees, that if the Contract for

is awarded to_____, the undersigned corporation will execute the

(Name of Bidder)

bond or bonds as required by the Contract Documents and will become Surety in the full amount of the Contract Price for the faithful performance of the Contract and for payment of all persons supplying labor or furnishing materials in connection therewith.

(Surety)

⁽To be accompanied by the usual proof of authority of officers of Surety Company to execute the same.)

SECTION E

CONTRACT AGREEMENT AND CERTIFICATE AS TO CORPORATE PRINCIPAL

CONTRACT AND AGREEMENT

THIS AGREEMENT, made this _____ day of _____ in the year 2014_,

Between the Borough of Naugatuck, with its principal office and place of business at 229

Church Street, Connecticut 06770, acting herein through it's Mayor and

_____, a _____, with an office and

place of business at ______, hereinafter called the

contractor.

WITNESSETH: That the parties to this agreement in consideration of the undertakings, promises, and agreements on the part of the other herein contained, hereby undertake, promise, and agree as follows:

I Definitions

The word "Owner" as used herein shall mean the Borough of Naugatuck, acting through its properly authorized representatives.

The words "as directed", "as required", "as permitted", "as allowed", or phrases of like effect or import, used herein shall mean that the direction, requirement, permission, or allowance of the Borough of Naugatuck Inspector is intended and similarly the words "approved", "reasonable", "suitable", "proper", "satisfactory", or words of like effect or import, unless otherwise particular specified herein, shall mean approved, reasonable, suitable, proper, or satisfactory in the judgement of the Borough of Naugatuck Inspector.

The word "Contractor" shall mean ______ or it's duly authorized agents.

II Contract Includes

The indices, headings and subheadings are for convenience only and do not form a part of the Contract Documents.

The Contractor shall, at his own sole cost and expense, furnish all labor, materials, and other services necessary for the completion of this Contract and shall complete and finish the same in the most thorough, workmanlike, and substantial manner, in every respect, to the satisfaction and approval of the Borough of Naugatuck Inspector, in the manner and within the time hereinafter limited, and in strict accordance with the Advertisement, Information for Bidders, Proposal, General Requirements, Detailed Specifications, and Addenda hereto attached, and the Contract Drawings herein referred to, (collectively the "contract documents"), which contract documents are hereby made a part of this Contract as fully as if the same were repeated at length herein.

Addendum No	Dated:	Addendum No	Dated:
Addendum No	Dated:	Addendum No.	Dated:
Addendum No.	Dated:	Addendum No.	Dated:

III Specifications and Contract Drawings Supplementary

The said Specifications and Contract Drawings are intended to supplement each other, and together constitute one complete set of Specifications and Contract Drawings, so that any work exhibited in the one and not in the other shall be executed just as if it had been set forth in both, in order that the work shall be completed in every respect according to the complete design or designs as decided and determined by the Borough of Naugatuck Inspector. Should anything be omitted from the Specifications and Contract Drawings, the Contractor shall promptly notify the Borough of Naugatuck Inspector. From time to time during the progress of the work, the Borough of Naugatuck Inspector will furnish such supplementary or working drawings as are necessary to show changes or define the work in more detail, and these also shall be considered as Contract Drawings. When discrepancies exist between the Contract Drawings and Specifications, the Specifications shall govern.

IV Modifications

The Contractor, in entering into this Contract, understands that the Owner reserves the right to modify, to the extent herein provided, the arrangement, character, grade, or size of the work or appurtenances whenever, in the Owner's opinion, it shall be deemed necessary or advisable to do so. Minor changes in the work, not involving extra cost and consistent with the purposes of the work, may be made by verbal order, but no modifications involving extra work or material changes shall be made unless ordered in writing by the Borough of Naugatuck Inspector; and if the modification requires additional cost, a purchase order must be issued prior to work commencing. The Contractor shall and will accept such modifications when ordered in writing by the Owner through the Borough of Naugatuck Inspector, and the same shall not vitiate or void this Contract.

Any such modifications so made shall not, however, subject the Contractor to increased expense without equitable compensation, which shall be determined by the Borough of Naugatuck Inspector. If such modifications result in a decrease n the cost of work involved, and equitable deduction from the Contract price, to be determined by the Borough of Naugatuck Inspector, shall be made. The Borough of Naugatuck Inspector's determination of such additional compensation, or of any such deduction, shall be based upon the unit prices in the Contractor's bid, unless the modification involves work not included in such bids and then in the event, the modification shall be as set forth in Section XXVIII prior to the commencement of additional work. In no event shall any modification in the work shown on the Plans and Specifications be made unless the nature and extent thereof has first been certified by the Borough of Naugatuck Inspector in writing and sent to the Contractor.

V Correction of Errors and Omissions

The Plans and Specifications forming part of this Contract are intended to be explanatory of each other, but should any discrepancy appear, or misunderstanding arise, as to the import of anything contained in either, the explanation and decision of the Borough of Naugatuck Inspector shall be final and binding on the Contractor; and all directions and explanations required, to complete and make effective any of the provisions of the Contract and Specifications, shall be given by the Borough of Naugatuck Inspector. Corrections of errors and omissions in the Drawings or Specifications may be made by the Borough of Naugatuck Inspector when such corrections are necessary for the proper fulfillment of the Contract Documents as construed by the Borough of Naugatuck Inspector. The effect of such corrections shall date from the time that the Borough of Naugatuck Inspector gives due notice thereof to the Contractor.

VI Borough of Naugatuck Inspector's Decision

All work under this Contract shall be done to the satisfaction of the Borough of Naugatuck Inspector, who shall determine the amount, quality, acceptability, and fitness of the several items of work and materials which are to be paid for hereunder. He also shall decide all questions which may arise as to the fulfillment of the terms of the Contract, Plans and Specifications. The determination of the Borough of Naugatuck Inspector in all such matters shall be final and binding upon the parties thereto.

VII Inspection of Work

It is agreed that the Owner may, at its pleasure, appoint and employ, at its own expense, such persons as may be necessary, who are to act as Borough of Naugatuck Inspectors, inspections, or agents, for the purpose of determining, in the Borough's interest, that the materials furnished and the work done, as the work progresses, conforms to the requirements of the Contract Documents. Such persons shall have unrestricted access to all parts of the work and to other places at and where the preparation of the materials and other parts of the work to be done under this Contract are carried on and conducted. They shall be given, by the Contractor, all facilities and assistance required to carry out their work of inspection.

It is not the function of the Borough of Naugatuck Inspector to supervise or direct the manner in which the work to be done under this Contract is carried on or conducted. The Borough of Naugatuck Inspector is not responsible for construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs in connection with the work, and he will not be responsible for the Contractor's failure to carry out the work in accordance with the Contract Documents.

The Borough of Naugatuck Inspector shall have authority to reject and shall reject any work or material, or any part thereof, which does not, in his opinion, conform to the Contract Drawings, working drawings, Specifications, and Contract, and it shall be permissible for him to do so at any time during the progress of the work.

No work shall be done except in the presence of the Borough of Naugatuck Inspector or his assistants. No material of any kind shall be used upon the work until it has been inspected and accepted by the Borough of Naugatuck Inspector. Any materials or workmanship found at any time to be defective, or not of the quality or character required by the Contract Drawings and Specifications, shall be remedied at once regardless of previous inspection.

Such inspection shall not relieve the Contractor from any obligation to perform said work strictly in accordance with the Contract Drawings and Specifications, and work not so constructed shall be removed and made good by the Contractor at this own expense and free of all expense to the Owner, whenever so ordered by the Owner, without reference to any previous oversight or error in inspection.

VIII Address of Contractor

The address in the Proposal, upon which this Contract is based, shall be the place. The delivering at the above-named place of any such notice, letter, or other communication where notices, letters or other communications to the Contractor may be mailed or delivered, from the Borough to the Contractor, the date of said service shall be the date of such delivery. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, letter, or other communication upon the Contractor personally.

IX Obligation of the Contractor

The Contractor shall, at his own expense, provide any and all manner of supervisor, insurance, taxes, labor, materials, apparatus, scaffolding, appliances, tools, machinery, power, transportation, and whatever else may be required of every description necessary to do and complete the work and shall be solely answerable for the same and for the safe, proper, and lawful construction, maintenance, and use thereof. The Contractor shall cover and protect the work from damage and shall make good all injury to the same occurring before completion of this Contract. The Contractor shall employ only competent workmen and shall provide experienced superintendents and foremen on each part of the work.

The Contractor shall, at it's own expense, wherever necessary or required, maintain fences, provide watchmen, maintain lights, place additional timber and braces, and take such other precautions as may be necessary to protect life, property, and structures, vehicles and pedestrians and shall be liable for all damages, occasioned in any way by his act or neglect or that of this agent, employees, or workmen. He shall provide access at all times to private property.

X Occupational Safety and Health Act

The applicable sections of the Occupational Safety and Health Act of 1970 (Williams-Steiger Act) shall apply and be made a part of this Contact. The Contractor's attention is particularly directed to the record keeping requirements of this Act.

XI Nondiscrimination in Employment

The Contractor agrees and warrants that, in the performance of this Contract, he will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, sex, religion, or national origin in any manner prohibited by State, Federal, County or Municipal law.

XII Personal Attention and Competent Workmen

The Contractor shall give his personal attention constantly to the faithful prosecution of the work and shall be present, either in person or by a duly authorized representative, on the site of the work continually during its progress to receive directions or instructions from the Borough of Naugatuck Inspector. The Contractor shall employ at the site, during the performance of the work, a competent superintendent or foreman who shall be satisfactory to the Borough of Naugatuck Inspector and who shall not be changed, except with the consent of the Borough of Naugatuck Inspector, unless he shall cease to be an employee of the Contractor. Such superintendent or foreman shall represent and have full authority to act for the Contractor in his absence, and all directions and instructions given such superintendent or foreman shall be as binding as if given to the Contractor.

The Contractor shall employ only competent, skillful men to do the work, and whenever the Borough of Naugatuck Inspector shall notify the Contract in writing that any man on the work is, in his opinion, incompetent, unfaithful, disorderly, or otherwise unsatisfactory, such man shall be discharged from the work and shall not again be employed on it, except with the consent of the Borough of Naugatuck Inspector.

XIII Public Safeguards

The Contractor agrees to conduct the work at all times in such a manner that public travel shall not be inconvenienced needlessly nor shall it be wholly obstructed at any point.

XIV Materials and Workmanship

It is the intent of the Specifications to describe fully and definitely the character of materials and workmanship furnished regarding all ordinary features and to require first-class work and materials in all particulars. For any unexpected features arising during the progress of the work and not fully covered herein, the Specifications shall be interpreted by the Borough of Naugatuck Inspector to require first class work and materials in all respects, and such interpretation shall be accepted by the Contractor.

XV Materials and Manufactured Articles

All materials and workmanship shall be subject to the approval of the Borough of Naugatuck Inspector and shall be in conformity with approved modern practice.

Unless otherwise specifically provided for in the Specifications, all materials incorporated in the work shall be new, of standard and first-class quality, and of the best workmanship and design. No inferior, or low grade, material will be either approved or accepted, and all work of assembly and construction must be done in a neat, first-class, and workmanlike manner.

XVI Unnoticed Defects

The inspection of the work and materials by the Borough of Naugatuck Inspector shall not relieve the Contractor of any of his obligations to fulfill this Contract, as herein described, and defective work shall be made good and unsuitable materials shall be rejected, notwithstanding that such work and materials had been previously overlooked by the Borough of Naugatuck Inspector and accepted or estimated for payment. If the work, or any part thereof, shall be found defective at any time before final acceptance of the whole work, the Contractor shall forthwith make good such defects, in a manner satisfactory to the Borough of Naugatuck Inspector.

XVII Care and Protection of Work

From the commencement of the work until the completion of the same, the Contractor shall be solely responsible for the care of the work covered by the Contract and for the materials delivered at the site intended to be used in the work; and all injury, damage, or loss of the same, from whatever cause, shall be made good at his expense before the final estimate is made. He shall provide suitable means of protection for all materials intended to be used in the work and for all work in progress as well as for completed work. He shall take all necessary precautions to prevent injury or damage to the work under construction by flood, freezing or inclement weather at any and all times. The methods used for this purpose shall be subject to the approval of the Borough of Naugatuck Inspector, but shall not relieve the Contractor from liability for inadequate protection of the work or materials.

XVIII Assignment of Contract

The Contractor shall have no right or power to assign this Contact, in whole or in part, nor to assign any right arising, or moneys due or to grow due thereunder, without prior written approval of the Owner.

XIX Subcontracting

The Contractor may utilize the services of specialty subcontractors on those parts of the work which, under normal contracting practices, are performed by specialty subcontractors. The Contractor shall not award the work to a subcontractor(s) without prior written approval of the Owner. The Contractor shall be fully responsible to the Owner for the acts and omissions of his

subcontractors, and of persons either directly or indirectly employed by them, as he is for the acts and omissions of persons directly employed by him.

XIX Subcontracting (continued)

The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the work to bind subcontractors to the Contractor by the terms of these Contract Documents, insofar as applicable to the work of subcontractors, and to give the Contractor the same power as regards terminating any subcontract that the Owner may exercise over the Contractor under any provisions of these Contract Documents.

Nothing contained in this contract shall create any contractual relation between any subcontractor and the Owner.

XX Liability of Contractor for Employees

Each and every employee of the Contractor and each and every of his subcontractors engaged in the said work shall, for all purposes, be deemed and taken to be the exclusive servants of the Contractor and not for any purpose or in any manner in the employment of the Owner. The Contractor shall, in no manner, be relieved from responsibility or liability on account of any fault or delay in the execution of the said work, or any part thereof, by any such employee, or any such subcontractor, or any material men, whatsoever.

XXI Coordination With Other Contractors and Utilities

During the progress of the work, existing utilities may be found to be in close proximity to or in conflict with the work being installed. The Contractor shall make every effort to identify and locate these utilities before working in the area. If it is known or found that these utilities exist the Contractor shall contact the appropriate utility and alert them to the situation. Should an existing utility be found to be in close proximity to the work the Contractor shall take all the necessary precautions to protect the utilities and his work. Should existing utilities be found to conflict with the work the Contractor shall arrange with the utility company for their adjustment. No additional compensation will be made for delays, inconvenience or damage sustained by the Contractor due to interference from the above-noted utility appurtenances or the operation of locating, installing or moving them or the inability of others to perform their work in a timely manner.

XXII Permits, Laws, Codes, Ordinances and Insurance

The Contractor shall keep himself fully informed of all existing and current codes, ordinances, and regulations and Municipal, County, State or National laws in any way limiting or controlling the actions or operations of those engaged upon the work or affecting the materials supplied to or by them. He shall, at all times, observe and comply with all such valid and legally binding ordinances, laws, and regulations and shall protect and indemnify the Owner and its representatives and agents against any claim or liability arising from, or based on, any violation of the same. He shall obtain and pay for all necessary permits and pay all fees required in connection with the Contract. Contractor shall provide the types and amounts of insurance as set forth in Section 19, Information of Bidders and maintain in effect. He shall take out and carry appropriate employer's liability insurance and public liability insurance.

XXIII Patent Rights

The Contractor shall indemnify and save harmless the Owner and its officers, agents, and representatives from all claims for damages a rising from the infringements, or alleged infringements, of any Letters Patent or patent rights covering any material, appliance, or device used in or upon the work or any part thereof.

XXIII Patent Rights (continued)

All royalties for patents or patent infringement claims, that might be involved in the construction or use of the work, shall be included in the Contract amount; and the Contractor shall satisfy all demands that may be made at any time for such and shall be liable for any damage or claims for patent infringements; and the Contractor shall, at his own expense, defend any and all suits or proceedings that may be instituted against the Owner for infringement, or alleged infringement, of any patent or patents involved, or alleged to be involved, in the work; and in case of any award for damages, the said Contractor shall pay such award.

XXIV Defense of Suits

The Contractor shall indemnify and hold harmless the Owner and it's consultants, agents and employees from and against all claims, damages, losses, and expenses, including, but not limited to, attorney fees, ("indemnification expense") arising out of or resulting from the performance of the work or arising out of or resulting from the Contract Documents, including, without limitation, all indemnification expense regarding personal injury or death and/or damage to real or personal property or motor vehicles.

In claims against any person or entity indemnified under this section by an employee or the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under this Section shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under worker's or workmen's compensation acts, disability benefit acts or other employee benefit acts.

XXV Claims for Labor and Materials

The Contractor shall indemnify and save harmless the Owner from all claims expenses and for judgements regarding labor done or materials furnished under this Contract, or any alterations or modifications thereof, including without limitation, reasonable Attorney's fees. Contractor shall furnish the Owner with a Mechanic's Lien Waiver from all persons who have done work, or furnished materials under this Contract. In case such waiver is not furnished, an amount necessary or sufficient, within the discretion of the Owner, to meet the claims of the persons aforesaid, shall be retained, as herein specified, from the money due the Contractor under this Contract until the liabilities aforesaid shall be fully discharged or satisfactorily secured.

XXVI Completion of Work by Owner

If the work to be done under this Contract shall be abandoned by the Contractor; or if this Contract shall be assigned, or the work sublet by him, otherwise than as herein specified; or if at any time the Owner shall be of the opinion that the performance of the Contract is unnecessarily or unreasonably delayed; or if the Contractor is willfully violating any of the conditions or covenants of this Contract, or of the Specifications, or is executing the same in bad faith or not in accordance with the terms thereof; of if the work be not fully completed within the time named in this Contract for its completion, or within the time to which the completion of the Contract may be extended by the Owner, the Owner may notify the Contractor to discontinue all work, or any part thereof under his Contract, by a written notice to be served upon the Contractor as herein provided.

The Contractor shall, within five (5) days of the service of said written notice, discontinue the work, or such part thereof, and the Owner shall thereupon have the power to contract for the completion of the Contract, in the manner prescribed by law; or to place such and so many persons as it may be deemed advisable, by contract or otherwise, to work, and complete the work herein described, or such part thereof; or to take possession of and use any of the materials, plant, tools, equipment, supplies, and property of every kind provided by the Contractor for the purpose of his work; and to procure other materials and equipment for the

completion of the same; and to charge the expense of said labor, materials and equipment to the Contractor.

The expense so charged shall be deducted and paid by the Owner out of such moneys as may be due, or may at any time thereafter grow due to the Contractor under and by virtue of this Contract, or any art thereof; and in case such expense shall exceed the amount which would have

XXVI Completion of Work by Owner (continued)

been payable under the Contract, if the same had been completed by the Contractor, the Contractor or his surety shall pay the amount of such excess to the Owner within five (5) days of written demand therefore; and in case such expense shall be less than the amount which would have been payable under this Contract, if the same had been completed by the Contractor, the owner shall pay such difference to the Contractor within five (5) days of written demand.

XXVII Partial and Final Estimates

On, or about, the last day of the month, the Borough of Naugatuck Inspector shall make an approximate estimate of the value of the work done and of the materials incorporated into the work.

The Owner will pay the Contractor, within 30 days of receipt of an estimate, ninety-five percent (95%) of the total estimated value of the work done, as estimated by the Borough of Naugatuck Inspector less previous payments. Partial payments will not be made whenever the amounts of the estimate or estimates of work done since the last previous estimate are less than \$2,000.00.

The Borough of Naugatuck Inspector shall, as soon as practicable after the completion of work, make a final certificate of the entire amount of the work done under this Contract, and the value thereof, and the Owner shall, within thirty (30) days after such final estimate is approved, pay the entire sum so found to be due hereunder, after deducting there from all previous payments and also all percentages and deductions to be retained under any of the provisions of this Contract.

Before payment of each estimate, the Contractor shall provide the Owner with a mechanic's lien waiver from the Contractor and all persons who have done work or furnished materials under this Contract.

XXVIII Extra Work

The Contractor shall and will do any and all work and furnish any and all materials not herein provided for which, in the opinion of the Borough of Naugatuck Inspector, may be found necessary or advisable for the proper completion of the work or the purposes thereof, or any modifications or alternations thereto.

All extra work and materials shall be ordered in writing by the Borough of Naugatuck Inspector, and in no case will any work or materials in excess of the amount shown in the Plans and Specifications be paid for unless so ordered. Additionally, if the extra work requires additional cost, a purchase order must be issued prior to work commencing. No claim for delay shall be made as a result of this process. No voucher, claim or charge against the Borough shall be paid, nor is the Borough liable for any voucher, claim or charge unless a purchase order is issued. The Contractor further agrees that he shall accept, as full compensation for such extra work and materials, the unit price bid, in the case of Items covered by unit prices in the Proposal, and no more; and for such Items as are not covered by a unit price, he shall accept as full compensation:

1. an agreed on lump sum price, or

2. the reasonable cost, as determined by the Borough of Naugatuck Inspector, of all necessary labor, including insurance and payroll taxes, equipment rental, and materials, plus fifteen percent (15%) which covers supervision, the use of tools and plant, and other overhead expenses and profit.

The equipment rental charge shall be at prevailing rates usually paid locally but shall in no case exceed the amount prorated on the basis of the monthly equipment rental rates compiled by the Associated Equipment Distributors.

When extra work is performed by an approved subcontractor, the Contractor shall be entitled to five percent (5%) of the direct cost of the subcontractor's work to cover his overhead expenses and profit.

The Contractor agrees to prosecute such extra work with all reasonable diligence and to employ thereon competent men. The Contractor shall give the Borough of Naugatuck Inspector access to all accounts, bills, payrolls, and vouchers relating to extra work not covered by unit prices, and he agrees that he shall have no claim for compensation for such extra work in the case of items not covered by unit prices, unless a statement in writing of the actual cost of the same, fully itemized as to labor and materials, is presented to the Borough of Naugatuck Inspector before the fifteenth (15th) day of the month following that during which each specific order was complied with by him.

XXIX Payment

The Owner, in consideration of the faithful performance by the Contractor of all and singular his covenants, promises, and agreements contained herein, agrees to pay the Contractor for the full completion by him of the work embraced in this Contract, in the manner and within he time herein specified and limited, and to the satisfaction and approval of the Borough of Naugatuck Inspector, the prices stipulated in the said Proposal hereto attached, such payment to be made at the times and in the manner and upon the conditions herein expressly provided. The Owner also agrees to pay in addition such amounts as may be agreed upon for modifications and for extra work.

XXX Guarantee

The Contractor guarantees that the work done under this Contract and the materials furnished by him and used in the construction of the same are free from defects or flaws. The guarantee is for a term of one (1) year from, and after, the date upon which the final estimate of the Borough of Naugatuck Inspector is formally approved by the Owner. It is hereby agreed and understood that this guarantee shall not include making any repairs made necessary by any cause or causes other than defective materials furnished by, or defective work done by, the Contractor.

XXXI Repairs for One (1) Year

The said party of the second part further agrees that the said Owner shall be and is hereby authorized to retain, out of the monies payable to the said Contractor under this Agreement, the sum of two percent (2%) of the amount of the Contract and to expend the same, in the manner hereinafter provided for, in making said repairs on the work as may be required by the Contractor's guarantee under Article XXX.

XXXI Repairs for One (1) Year (continued)

And it is further agree that if, at any time during the period of one (1) year from the date

of the final estimate of the work herein contracted for, any part of the work done under this Contract shall be deemed by the Borough of Naugatuck Inspector to require repairing under the aforesaid Contractor's guarantee, then the said Owner shall notify the said Contractor to make the repairs so required at no expense to the Owner.

Such replacements, or repairs, shall be undertaken by the Contractor within twenty-four (24) hours after service of notice. If the Contractor unnecessarily delays or fails to make the ordered replacements or repairs within the time specified, or if any replacements or repairs are of such nature as not to allow for the time delay incident to the service of a notice, then the Owner will have the right to make such replacements or repairs, and the expenses thereof shall be paid by the Contractor.

And the Borough hereby agrees that upon the expiration of the said period of one (1) year, provided that the work at the time shall be in good order, the Contractor shall be entitled to receive the whole or such part of the sum last aforesaid as may remain after the expense of making said repairs, in the manner aforesaid, shall have been paid therefrom, but if the said expense is in excess of the sum of two percent (2%) retained, the Contractor shall pay to the Owner the amount of the excess.

It is, however, agreed that the Borough may apply or keep the sum so retained for payment of other claims arising under the provisions of the contract document.

XXXII <u>Rate of Progress and Time of Completion</u>

The Contractor shall commence work within ten (10) calendar days of the date of the Notice to Proceed. The rate of progress shall be such that the whole work shall be performed and the grounds cleared up in accordance with the Contract and Specifications within sixty (60) calendar days unless extensions of time shall be made for the reasons, and in the manner, stated under Article XXXIII, "Extension of Time".

The above calendar days includes time for the Contractor to obtain approval of a Erosion and Sediment Control Plan, as applicable.

XXXIII Extension of Time

The Contractor expressly covenants and agrees that, in undertaking to complete the work within the time mentioned, he has taken into consideration, and made allowance for, all of the ordinary delays and hindrances incidental to such work, whether growing out of delays in securing materials or workmen or otherwise. Should the Contractor, however, be substantially delayed in the prosecution and completion of the work by any changes, additions, or omissions therein ordered in writing by the Borough of Naugatuck Inspector, or by fire, lightning, earthquake, tornado, cyclone, riot, insurrection, or war, or by the abandonment of the work by the workman engaged therein through no fault of the Contractor, or by the discharge of all or any material number of workmen in consequence of difficulties arising between the Contractor and such workmen, or by the neglect, delay, or default of any other contractor of the Owner, then the Contractor may, within five (5) days after the occurrence of the delay for which he claims allowance, notify the Borough of Naugatuck Inspector thereof in writing, and thereupon, and not otherwise, the Contractor shall be allowed such additional time for the completion of the work as the Borough of Naugatuck Inspector, in his discretion, shall award in writing, and his decision shall be final and conclusive upon the parties.

XXXIV Damages for Failure to Complete on Time

The Contractor shall pay to the Owner for each and every calendar day (including

Saturdays, Sundays, and holidays) that he shall be in default in completing the entire work in the time stipulated in Article XXXII, or within the extension of time he may be granted as provided in Article XXXIII, the sum of one Hundred Fifty Dollars (\$150.00) per day. This sum is hereby agreed upon not as a penalty but as liquidated damages which Owner will suffer by reason of such default, time being of the essence of the Contract and a material consideration thereof. The Owner shall have the right to deduct the amount of any such damages from any monies due the Contractor under this Contract.

XXXV No Waiver of Rights

No certificate given or payment made under this Contract, except the final certificate or final payment, shall be evidence of the performance of the Contract either wholly or in part, and no payment shall be construed to be an acceptance of defective work or improper materials. No act of the Owner or of the Borough of Naugatuck Inspector, or of any representatives of either of them in inspecting the work, nor any extension of time for the completion of the work, shall be regarded or taken as an acceptance of such work, or any part thereof, or materials used therein or thereof, either wholly or in part; but such acceptance shall be evidenced only by the final certificate of the Borough of Naugatuck Inspector.

Before any final certification shall be allowed, the Contractor shall be required, and he hereby agrees, to sign and attest on said certificate a statement that he accepts the same in full payment and settlement of all claims on account of work done and material furnished under this Contract, and furthermore, that all claims for materials provided or labor performed have been paid and satisfied in full. No waiver of any breach of this Contract by the Owner or anyone acting for it, or on its behalf, shall be held as a waiver of any other or subsequent breach thereof.

XXXVI Mandatory Negotiation

Contractor and the Owner agree that they will attempt to negotiate in good faith any dispute of any nature arising under this contract. The parties shall negotiate in good faith at not less than two negotiation sessions prior to seeking any resolution of any dispute under the provisions of arbitration paragraph of this contract. Each party shall have the right to legal representation at any such negotiation session.

XXXVII Arbitration

Any dispute or question arising under the provisions of this contract which has not been resolved under the mandatory negotiation paragraph of this contract shall be determined by arbitration. Arbitration proceedings shall occur at a neutral location in Waterbury, Connecticut, and shall be conducted in accordance with the rules then applicable of the American Arbitration Association. Arbitration shall proceed before a pane of one arbitrator to be selected by American Arbitration Association. The decision of the Arbitrator shall be final and may be entered in any court having jurisdiction thereof. Each party shall pay one-half of all costs and expenses of such arbitration.

XXXVIII Owner's Right to Use

The Owner reserves the right to use or occupy any portion of the work considered by the Borough of Naugatuck Inspector as ready for use or occupancy. Such use or occupancy shall not be held, in any way, as final acceptance of the work or any portion thereof, or as a waiver of any portion of this Contract.

XXXIX Verification of Data

The quantities of work to be done and the materials to be furnished under this Contract, as given in the accompanying "Information for Bidders" and on the Proposal form, are approximate estimates for the purpose of comparing bids on a uniform basis. Neither the Owner

nor the Borough of Naugatuck Inspector are to be held responsible for the data or information given relative to said quantities or that given on the Plans relative to existing conditions. The Contractor has judged for himself as to such quantities and as to other circumstances affecting the cost of the performance of this Contract, and he shall not at any time assert that there was any misunderstanding in regard to the character or amount of work to be done and materials and labor to be furnished.

XXXX Contractor's Wage Certification Form

If applicable the Contractor or his authorized agent will be required to sign the Contractor's Wage Certification Form at the time of Contract execution.

XXXXI Verbal Statements Not Binding

It is understood and agreed that the written terms and provisions of this Agreement shall supersede all prior verbal statements of the Borough of Naugatuck Inspector or other representatives of the Owner, and such statements shall not be effective or be construed as entering into or forming a part of, or altering in anyway whatsoever, the written Agreement.

XXXXII Final Estimate Constitutes Release

It is agreed that acceptance by the Contractor of the last payment made, under the provisions of Article XXVII, shall operate as and shall be a release to the Owner, and every agent thereof, from all claims and liability to Contractor for anything done or furnished for, or relating to, the work or for any act or neglect of the Owner or of any agent thereof, except any claim against the Owner for the remainder, if any, of the amounts kept or retained by the Owner as percentages or deductions.

No payment, however, final or otherwise, shall operate to release the Contractor or his sureties from any obligations under this Contract.

XXXXIII Delays or Termination by Governmental Authorities

Notwithstanding any other provision(s) of this contract, the parties agree that in the event of a stop work order from the State Department of Transportation, Department of Environmental Protection, or any other State or Federal agency, no additional compensation will be made by Owner to Contractor for delays, inconvenience or damage sustained by Contractor due to such order, including, without limitation, damages for loss of use of equipment or idle equipment. Similarly, in the event of a termination of the project by the State DOT, DEP or any other State or Federal agency, no additional compensation will be made by Owner to Contractor for the termination, or for any delay, inconvenience or damage sustained by Contractor due to such termination, including, without limitation, damages for loss of use of equipment or idle equipment. In the event of such termination, the Borough of Naugatuck Inspector shall prepare a final certificate for the entire amount of work done up to the effective date of termination. The provisions of Sections XXX (Guarantee) and XXXI (Repair) shall apply to all work completed as of the effective date of any stop Work order, as if the effective date was the date upon which the final estimate of the Borough of Naugatuck Inspector is formally approved by the Borough.

XXXXIV Validity of Agreement

The provision of this Agreement shall be binding upon the Parties and their respective successor or assigns.

IN WITNESS WHEREOF, the said parties hereto have caused this instrument to be signed by their respective duly constituted officers, attested, and sealed pursuant to proper resolutions.

Signed and sealed

in the presence of

Borough of Naugatuck Mayor

(Duly Authorized) Contractor

CERTIFICATE AS TO CORPORATE PRINCIPAL

I, _______ certify that I am the _______ of the Corporation named as Contractor in the within bond; that _______, who signed the said bond on behalf of the Contractor was then _______ of said corporation; that I know his signature, and his signature thereto is genuine; and that said bond was duly signed, sealed, and attested to for and in behalf of said corporation by authority of this governing body.

	(Corporate
	Seal)

Title

SECTION F

PERFORMANCE BOND

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: that

(Name of Contractor)

(Address of Contractor)

а

, hereinafter called Principal and (Corporation, Partnership, or Individual)

(Name of Surety)

(Address of Surety)

hereinafter called Surety, are held and firmly bound unto

(Name of Owner)

(Address of Owner)

hereinafter called OWNER, in the penal sum of ______Dollars, \$(______) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the OWNER, dated the ______ day of ______, 200___, a copy of which is hereto attached and made a part hereof for the construction of:

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, an any extensions thereof which may be granted by the OWNER, with or without notice to the Surety and during the one year guaranty period, and if he shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the OWNER from all costs and damages which may suffer by reason of failure to do so, and shall reimburse and repay the OWNER all outlay and expense which the OWNER may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in anyway affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in ______ counterparts each one of

Which shall be deemed an original, this the	day of	, 200	
ATTEST: (Principal) Secretary	Ву	Principal	_(s)
(SEAL)			
(Witness as to Principal)		(Address)	
(Address)			
ATTEST:		Surety	
(Surety) Secretary			
(SEAL)	By		
Witness as to Surety	<u>Dy</u>	Attorney-in-Fac	ct
(Address)		(Address)	

NOTES: Date of BOND must not be prior to date of Contract. If CONTRACTOR is Partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the PROJECT is located.

SECTION G

PAYMENT BOND

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: that

(Name of Contractor)				
(Address of Contractor)				
a and	,	hereinafter	called	Principal
and (Corporation, Partnership, or Individual)				
(Name of Surety)				
(Address of Surety)				
hereinafter called Surety, are held and firmly bound unto				
(Name of Owner)				
(Address of Owner)				
hereinafter called OWNER, in the penal sum of				
		Dollars, \$()

in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the OWNER, dated the ______ day of _____, 20 , a copy of which is hereto attached and made a part hereof for the construction of:

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, an any extensions thereof which may be granted by the OWNER, with or without notice to the Surety and during the one year guaranty period, and if he shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the OWNER from all costs and damages which may suffer by reason of failure to do so, and shall reimburse and repay the OWNER all outlay and expense which the OWNER may incur in making good

any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in anyway affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in ______ counterparts each one of which shall be deemed an original, this the ______ day of ______, 200__.

ATTEST:

	By	Principal	<u>(s)</u>
(Principal) Secretary	By		(5)
(SEAL)			
(Witness as to Principal)		(Address)	
(Address)			
ATTEST:		Surety	
(Surety) Secretary			
(SEAL)	Dec		
Witness as to Surety	By	Attorney-in-Fact	
(Address)		(Address)	

NOTES: Date of BOND must not be prior to date of Contract. If CONTRACTOR is Partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the PROJECT is located.

NAUGATUCK, CT PRE-DEMOLITION ASBESTOS REMOVAL SPECIFICATIONS

PRE-DEMOLITION ASBESTOS REMOVAL SPECIFICATIONS 1 Orchard Terrace 1 South Main Street 58 Maple Street 146 Walnut Street

This specification covers the removal of all asbestos materials and any PCB ballasts and mercury thermostats in Each Borough of Naugatuck buildings prior to demolition.

PART 1 ASBESTOS REMOVAL SPECIFICATIONS

1.1 Scope - This specification covers the abatement of exposure to asbestos from the building materials that have previously been determined to contain asbestos.

1.1.1 Asbestos has been classified by the Federal Government as a carcinogenic (cancer producing) material. To comply with governmental requirements and minimize employee exposure, controls are necessary wherever there is a potential for exposure to airborne fibers.

1.1.2 All work and work areas shall be in conformance with the requirements of EPA regulations (40 CFR Part 763), NESHAPS regulations (40 CFR 61 Subpart M) OSHA regulations (29 CFR 1910.1001 and 1926.1101), and Regulations for Connecticut State Agencies Section 19a-332a-1 to Section 19a-332a-13.

1.1.3 Deviations from these specifications require the written approval of the Owner.

1.1.4 The Contractor performing the asbestos removal must be a licensed Asbestos Removal Contractor in the State of Connecticut.

1.1.5 Bidding Contractors must notify the Borough of Naugatuck of any discrepancies or errors that might have been discovered in the specifications for the purpose of making such corrections or adjustments as may be necessary. If it should appear that the work called for is not in accordance with State, local, or Federal laws or ordinances, the Contractor shall immediately notify The Borough of Naugatuck before rendering his bid. No work shall be performed if uncertainties exist.

1.1.6 The Contractor performing the asbestos removal must carry Asbestos Liability Insurance in

accordance with Borough of Naugatuck contract requirements (minimum \$1,000,000 coverage). A copy of a current Insurance Certificate must accompany the bid.

1.1.7 The Contractor shall have a project monitor full time to document the project, run background air samples and perform visual inspections at the completion of the project.

1.2 DESCRIPTION OF WORK

1.2.1 PROJECT: Asbestos Removal Prior to Demolition

This specification covers the removal of asbestos and universal waste prior to renovation as follows:

<u>1 Orchard Terrace</u>

Asbestos Containing Materials

Sample #s	Material/Location	Estimated Affected Area
002	Flue cement	1 SF
Roof	Black caulk Around chimney and pipe exhaust	8 SF
003	Caulk around pipe at water tank and wall junction	1SF

Universal Waste Materials

Sample #	Material	Item
003	Capacitors, CFCS	Refrigerator
	Mercury Containing Item	2 LF Fluorescent Light Tubes

1 South Main Street

Material/Location	Estimated Affected Area
Gray tar at base of HVAC Unit	2 SF
Top layer pitch pocket tar	2 SF
Bottom layer pitch pocket tar	2 SF
	Gray tar at base of HVAC Unit Top layer pitch pocket tar

1

Universal Waste Materials

Room	Material	Quantity
010	Light Tube Disposal	16
003,004,009,013,	U-shaped Light Tube Disposal	46
020, 021,024,		
004,013,021	Thermostatic Mercury Bulbs	3
004	Capacitor, CFCS	
	Led Acid/Nickel Cadmium Batteries	6

58 Maple Street

Sample #s	Material/Location	Estimated Affe	ected Area
002,011,016 005 001,002,003 004,005,005A	White magnesium pipe insulation White magnesium pipe insulation at top of wall Residual white magnesium pipe insulation on pipe	25 LF 10 LF lengths 280 LF	7
009,010,011,012 015,016	9"x9" green and tan floor tile	2020 S	F
010,015	9"x9" dark brown floor tile	115 SF	1
010,013,015,017	Brown adhesive associated with wood panel	1575 S	F
011,002	Gray mud pack fitting cement	3 EA	
002	Residual mud pack fitting cement	110 EA	A
019,021,025,026	9"x9" green line pattern floor tile	75 SF	
019,021,025,026	9"x9" dark green floor tile	75 SF	
026	9"x9" black and green camouflage floor tile	210 SF	1
026	9"x9" black floor tile	580 SF	1
Façades A,B,C,D	Exterior white window caulk	600 LF	7
Façade A,D	Exterior white door caulk		45 LF
Façade A	White caulk at vent in brick	7 LF	
Roof 2, Roof 4	Gray flashing cement at roof/wall junction	75 SF	
Roof 3	Gray flashing Cement at parapet wall cap seam	85 LF	
Roof 3	Black flashing at parapet wall cap seam	85 LF	
Roof 3, Roof 4	Black built up layered roofing	925 SF	1
Roof 3, Roof 4	Black tar on wood roof deck	925 SF	7
014	Aircell pipe insulation on heating pipes in soffit	4 LF	

Universal Waste Materials

Room	Material	Quantity
Building	Light Tube Disposal	2023 LF
001,002,003,005,005A	PCB Ballasts	33 EA
008,009,010,011,012	DEHP Ballasts	192 EA

013,014,015,016,018 019,021,022,023,024 026,027

Approximately one hundred sixty (160) Square feet of lead-based paint was identified on brick walls within room 004. The Masonry shall not be salvaged. Paint shall be removed from the brick or the entire brick be removed and disposed of a hazardous lead waste. The painted brick was not included with the composite TCLP Sample

The quantities above are estimates. The contractors must make their own measurements are a mandatory prebid meeting. Drawings will be available at the meeting.

All interior asbestos removal work must be done using full containment abatement. The contractor may also use Alternate Work Practices (AWPs) if approved by the State of Connecticut DOH and by Owner.

146 Walnut Street

146 Walnut Street shall use a Alternate Work Practices (AWPs) as approved by the State of Connecticut DOH and the Borough of Naugatuck. The Contractor shall comply with all conditions of the attached application for an alternative work Practices.

The abatement schedule must be approved by owner.

Workers shall use at least half face negative pressure respirators with high efficiency filters and full body "Tyvek" coveralls. The project air monitor must approve the contractor's worker documentation record and notifications prior to starting the removals.

1.2.1.1 The work specified herein shall be the removal, encapsulation and/or enclosure of asbestos containing materials by persons who are knowledgeable, qualified, and trained in the removal, treatment, handling, and disposal of asbestos-containing material, and the subsequent cleaning of the affected environment. These persons must comply with Federal and State regulations which mandate work practices, and be capable of performing the work of this contract.

1.2.1.2 The Contractor shall supply all labor, materials, equipment, services, insurance and incidentals which are necessary or required to perform the work in accordance with the applicable governmental regulations and these specifications.

1.3 SUBMITTALS AND NOTICES

1.3.1 Prior to Commencement of Work:

1.3.1.1 Submit notification to the following agencies in the stipulated amount of time before work commences on the project: (Please note that any notifications shall be submitted to Borough of Naugatuck for review prior to submittal to any outside agencies).

A. Send written notice of proposed abatement work with project particulars as applicable to Environmental Health Section, Department of Public Health, State of Connecticut, not fewer than ten (10) working days before work commences on the project.

Chief - Environmental Health Services Department of Public Health Indoor Air Program - Asbestos & Radon 410 Capitol Avenue MS# 51AIR Hartford, CT 06134

For asbestos abatement projects from which asbestos waste will be disposed of in the State of Connecticut.

Connecticut Department of Energy and Environmental Protection 79 Elm Street Hartford, CT 06106-5127

The minimum information required on all of the submittals includes the following:

(1) The name, address and telephone number of the asbestos Contractor

- (2) The name, address and telephone number of the facility owner;
- (3) The exact location of the facility;

(4) The nature of the asbestos abatement;

(5) The type of asbestos abatement activity;

(6) A description of the facility including the size, age and use of the facility;

(7) The amount of asbestos-containing material to be removed, enclosed or encapsulated or contained in the facility or part thereof to be demolished;

(8) The scheduled starting and completion dates;

(9) A description of the work practices to be followed as per RCSA Section 19a-332a-5 to Section 19a-332a-13;

(10) The name and the location of the authorized asbestos disposal facility where asbestos containing materials will be disposed.

1.3.1.3 Submit proof satisfactory to the owner that all required permits, site locations, arrangements for transport and disposal of asbestos-containing or contaminated materials, supplies, and the like have been obtained.

1.3.1.4 Submit to the owner, and monitoring professional, plans and shop drawings for construction of decontamination enclosure systems and for isolation of the work areas as may be necessary in compliance with this specification and applicable regulations.

1.3.1.5 The Contractor must submit a written statement regarding whether he/she has ever been found out-of-compliance with pertinent Federal and State asbestos removal regulations. If previously found out-of-compliance, details must be submitted regarding each item of the alleged or proven non-compliance.

1.3.1.6 Submit documentation to the owner indicating that each employee has instruction on the hazards of asbestos exposure, on use and fitting of respirators, on protective dress, on use of showers, on entry and exit from work areas, and on all aspects of work procedures and protective measures and understands this instruction. Also submit verification that all employees have received medical examinations as required by OSHA regulations.

1.3.1.6.1 Please note: Under the EPA federal Model Accreditation Program, ASHARA regulations, and RCSA for licensure and certification; all abatement workers and supervisors are required to have copies of their initial training and current refresher certificates on site at all times.

1.3.1.7 Post signs in and around the Work Area to comply with OSHA standard 29 CFR 1910.1001 and 1926.1101.

1.3.1.8 The owner and Contractor must agree in writing on building and fixture condition prior to

commencement of work. A photographic or videotaped record is required, unless waived by the owner.

1.3.1.9 Submit manufacturer's certification that vacuum, negative air pressure equipment, and other local exhaust/ventilation equipment conform to ANSI Z9.2-1979.

1.3.1.10 When rental equipment is to be used in removal areas or to transport waste materials, a copy of the written notification provided to the rental company informing them of the nature of use of the rented equipment shall be submitted to the Owner.

1.4 PERSONAL PROTECTION

1.4.1 Prior to commencement of work, the workers shall be instructed and shall be knowledgeable, in the areas described. On-site training in the use of equipment and facilities unique to this job site shall be performed. Emergency evacuation procedures to be followed in the event of compressor failure shall be included in worker training prior to commencement of work.

1.4.2 Respiratory protection shall meet the requirements of OSHA as presented in 29 CFR 1910.134 titled "Respiratory Protection" and CFR 1910.1001, 1915.1001 and 1926.1101 titled "Asbestos".

1.4.2.1 The employer shall select and provide at no cost to the employee respirators which will provide adequate protection to the employee as specified by section 1910.1001(g) Table D-1 and Section 1926.1101(h) Table D-4.

1.4.2.2 Any feasible combination of engineering controls, work practices, and personal protective equipment and devices, may be used to reduce personnel exposure to asbestos.

1.4.2.3 Proof that the average airborne concentration of asbestos fibers an employee will confront will not exceed the allowable limits shown above for the various types of respiratory devices must be determined by an air sampling professional retained by the Contractor by applying sound scientific and/or engineering principles. An acceptable method would be through measuring exposures under all the various conditions that will be encountered by collecting personal samples of airborne asbestos within the affected employees' breathing zones. Results of such studies shall be maintained at the work site.

1.4.3 All individuals entering the Work Area shall wear prescribed protective clothing and respirators until the asbestos removal areas have passed clearance tests.

1.4.4 Respiratory protection shall be worn by all persons potentially exposed to asbestos from the

initiation of the asbestos abatement project until all areas have been given clearance. Clearance shall be obtained by visual inspection and air monitoring conducted by the Air Sampling Professional.

1.4.5 Protective Clothing - Special clothing such as coveralls or whole body clothing, head coverings, gloves, and foot coverings shall be provided and worn by personnel in work areas where concentrations of asbestos fibers in the air exceed the permissible ceiling concentration established by OSHA. The protective clothing and footwear shall be left in the Contaminated Equipment Room until the end of the asbestos abatement work, at which time all such items shall be thoroughly cleaned of all asbestos-containing material. Disposable type protective clothing, when used, shall be disposed of as contaminated waste. Protective clothing required for other types of construction or industrial hazards are required as appropriate for the particular job.

1.4.6 Provide all authorized visitors with respirators, new filters, protective clothing, headgear, eye protection, footwear, and hard hats as in the procedures described herein and afford them the use of all facilities to hold them free of contamination of asbestos fibers.

1.4.7 Provide and post, in the Equipment Room and the Clean Room, the decontamination and work procedures to be followed by workers, as described in Section 1.6.8 of these specifications.

1.4.8 WORKER PROTECTION PROCEDURES

1.4.8.1 Each worker and authorized visitor without exception shall, upon entering the job site: remove street clothes in the Clean Change Room and put on a NIOSH approved respirator with new filters, and clean protective clothing before entering the Equipment Room or the Work Area,

except that workers intending to rewear previously worn protective clothing stored in the Equipment Room shall enter the Equipment Room wearing only respirators.

1.4.8.2 Each time he/she leaves the Work Area, each worker and authorized visitor shall: vacuum gross contamination from clothing before leaving the Work Area: proceed to the Equipment Room and remove all clothing except respirator; still wearing the respirator, proceed naked to the showers; clean the outside of the respirator with soap and water while showering;

remove the respirator; thoroughly shampoo and wash themselves; remove filters and wet them and dispose of filters in the container provided for the purpose; and wash and rinse the inside of the respirator. After showering, the individual proceeds to the Clean Room.

1.4.8.3 Following showering and drying off, each worker and authorized visitor shall proceed directly to the Clean Change Room and dress in street clothes at the end of each day's work, or before eating, smoking, or drinking. Before re-entering the Work Area from the Clean Change Room, each worker and authorized visitor shall put on a clean respirator with filters and shall dress in clean protective clothing, except that worker intending to rewear protective clothing stored in the Equipment Room shall enter the Equipment Room wearing only respirators.

1.4.8.4 Contaminated work footwear shall be stored in the equipment room when not in use in the work area. Upon completion of asbestos abatement, dispose of footwear as contaminated waste or clean thoroughly inside and out using soap and water before removing from work area or from equipment and access areas. Store contaminated protective clothing in the equipment room for reuse or place in receptacles for disposal with other asbestos- contaminated materials.

1.4.8.5 Workers removing waste containers from the Equipment Contamination Enclosure shall enter the Holding Area from outside wearing a respirator and dressed in clean disposable coveralls.No worker shall use this system as a means to leave or enter the Washroom or the Work Area.

1.4.8.6 The color of the disposable clothing worn outside the Work Area shall be a different color than the disposable clothing worn inside the Work Area.

1.4.8.7 Workers shall not eat, drink, smoke, or chew gum or tobacco while in the Work Area.

1.4.8.8 Workers shall be fully protected with respirators and protective clothing immediately prior to the first disturbance of asbestos contaminated materials and until final clean-up is completed.

1.5 EQUIPMENT REMOVAL PROCEDURES

1.5.1 Clean surfaces of contaminated containers and equipment thoroughly by vacuuming and wet sponging or wiping before moving such items into the decontamination enclosure for final cleaning and removal to uncontaminated areas. Ensure that personnel do not leave Work Area through the Equipment Decontamination Enclosure.

2.1 MATERIALS

2.1.1 Deliver all materials in the original packages, containers, or bundles bearing the name of the manufacturer and the brand name.

2.1.1.1 Delivery and storage of materials and equipment shall be under the direct control of the Contractor in areas to be approved by the General Contractor and the Owner. These shall be

stacked, stored, disposed of or otherwise handled on the premises by the Contractor. The Contractor shall post all necessary signs and provide all temporary enclosures and guards as required for the full protection of workmen and the building.

2.1.1.2 Damaged or deteriorating materials shall not be used and shall removed from the premises. Material that becomes contaminated with asbestos shall be decontaminated or disposed of as asbestos waste.

2.1.2 Use plastic sheet of four (4) mil thickness unless otherwise specified, in sizes to minimize the frequency of joints. Use single layer of six (6) mil polyethylene to create critical barriers where appropriate for size, configuration, and space to critical. A double layer of four (4) mil polyethylene shall be used on the walls. Use at least two layers of six (6) mil polyethylene to construct the de-contamination entry system of multiple chambers as described elsewhere of a minimum of three (3), and up to five (5) or six (6), sections and/or airlocks. A double layer of six (6) mil polyethylene shall be used on floors.

2.1.2.1 Polyethylene bags shall be six (6) mil and of sufficient size for the application.

2.1.3 Tape will be used that is capable of sealing joints in adjacent plastic sheets and for attachment of plastic sheet to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions, including use of amended water.

2.1.4 Surfactant (wetting agent) - shall consist of fifty (50) percent polyoxyethylene ether and fifty (50) percent polyoxyethylene ester, concentration of one (1) ounce surfactant to five (5) gallons of water or as directed by manufacturer.

2.1.4.1 The Contractor shall have available spray equipment on site capable of mixing wetting agent with water and capable of generating sufficient pressure and volume and having sufficient hose length to reach all areas with asbestos.

2.1.5 Impermeable containers are to be used to receive and retain any asbestos-containing or contaminated materials until disposal at an acceptable disposal site. (The containers shall be labeled in accordance with OSHA standards 29 CFR 1910.1001 and 1926.1101). Containers must be both air and watertight.

2.1.6 Labels and signs required by OSHA standards 29 CFR 1910.1001 and 1926.1101 will be used.

2.1.7 Encapsulants shall be sprayed using airless spray equipment in accordance with the manufacturer's instructions.

2.1.8 Use asbestos-free materials to provide the degree of fire protection required by the applicable Building Code and/or Fire Safety Code.

2.1.9 Thermal or acoustical insulation material used for patching or replacement must provide performance characteristics equivalent to or better than the original.

2.1.10 HEPA filtered local exhaust ventilation shall be utilized during the installation of enclosures and supports where asbestos-containing materials may be disturbed.

2.2 TOOLS AND EQUIPMENT

2.2.1 Provide suitable tools for asbestos removal, encapsulation and enclosure.

2.2.1.1 The Contractor shall have available on site air monitoring equipment of type and quantity to monitor operations and conduct personnel exposure surveillance per OSHA requirements.

2.2.1.2 The Contractor shall have available on site sufficient inventory or dated purchase orders for materials necessary for the job including protective clothing, respirators, filter cartridges, plastic sheeting of proper size and thickness, duct tape, air filters and sample filter cassettes.

2.2.1.3 The Contractor shall have available on site power cables or sources such as generators (where required).

2.2.1.4 The Contractor shall have available on site shower stalls and plumbing to support same to include sufficient hose length and drain system or an acceptable alternative.

2.2.1.5 Negative air pressure equipment shall be used. No air movement system or air filtering equipment shall discharge unfiltered air outside the Work Area.

2.2.1.6 Ladders and/or scaffolds are to be of adequate length and sufficient quantity to support work schedule.

2.2.1.7 Other Materials - provide all other materials such as lumber, nails and hardware, which may be required to construct and dismantle the decontamination area and the barriers that isolate the Work Area.

2.2.1.8 Air filtering equipment shall meet HEPA requirement and be of sufficient capacity to cause four (4) air changes per hour within the work area exhausting the filtered air so as to maintain a negative inside (work area) pressure and of sufficient flow through the decontamination chambers so as to prevent escape of airborne fibers.

2.2.1.9 Vehicle Storage - No construction vehicles shall be stored, serviced, washed or flushed out in a location where leaks, spillage, waste materials, cleaners or waters will flow or be otherwise introduced into wetlands, reservoirs or watercourses.

2.2.1.10 Sanitary Accommodations - Sanitary accommodations must be placed where directed; they shall be maintained in a clean, well ventilated and sanitary condition at all times.

2.2.1.11 Temporary Storage of Waste Trailers - The Owner will make available two separate and distinct areas where waste trailers can be stored temporarily on site. One area will be for

asbestos waste dumpsters and one will be for non-asbestos construction debris. At the end of each phase of the work, the Contractor will arrange for all waste containers to be properly removed from the site and the contents properly disposed. The asbestos abatement project monitor will verify the segregation of the waste going to the two storage areas during the work and will record the number of trailers of asbestos waste leaving the site and verify that the amount recorded agrees with the amount listed on the waste disposal manifest at the time of removal from the site.

3.1 PREPARATION

3.1.1 WORK AREAS

3.1.1.1 The Contractor shall provide for and furnish Water and Electricity required for the full performance of the work.

3.1.1.1.1 Where necessary shut down electric power, including receptacles and lighting fixtures. Under no circumstances during the decontamination procedures will lighting fixtures be permitted to be operating when the spraying may contact the fixture.

3.1.1.1.2 Where necessary provide temporary power and lighting and ensure safe installation of temporary power sources and equipment per applicable code requirements and provide 24V safety lighting and ground fault interrupter circuits or GFI equipped power cords as power source for electrical equipment.

3.1.1.2 Shut down and isolate heating, cooling, and ventilating air systems to prevent contamination and fiber dispersal to other areas of the structure. During the work, vents within the Work Area shall be sealed with tape and plastic sheeting.

3.1.1.3 Preclean movable objects within the proposed work areas using HEPA vacuum equipment and/or wet cleaning methods as appropriate and remove such objects from work areas to a temporary location. Where carpet-to- remain is scheduled on the drawings, such carpeting shall be thoroughly cleaned using HEPA vacuum equipment.

3.1.1.4 Preclean fixed objects within the work areas, using HEPA vacuum equipment and/or wet cleaning methods as appropriate, and enclose with minimum six (6) mil plastic sheeting sealed with tape.

3.1.1.5 Clean the proposed work areas using HEPA vacuum equipment or wet cleaning methods as appropriate. Do not use methods that raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters.

3.1.1.6 Seal off all openings, including but not limited to windows, corridors, doorways, skylights, ducts, grills, diffusers, and any other penetration of the work areas, with plastic sheeting (minimum of six (6) mils thick) sealed with tape. Doorways and corridors which will not be used for passage during work must be sealed within barriers as described in 3.1.2.4.

3.1.2 DECONTAMINATION ENCLOSURE SYSTEMS:

3.1.2.1 Build suitable Building Code conforming framing as described herein at shop drawing submittal stage. Portable pre-fab units, if utilized, must be submitted for review and approval by the Owner or the Owner's representative before start of construction. Submittal shall include, but not be limited to, a floor plan layout complying to schematic layout bound herein, showing dimensions, materials, sizes, thickness, plumbing, electric outlets, etc.

3.1.2.1.1 In all cases access between contaminated and uncontaminated rooms or areas shall be through a decontamination unit. In all cases access between any two (2) rooms within the decontamination enclosure system shall be through a curtained doorway.

3.1.2.2. Worker Decontamination Enclosure: Construct a workers' decontamination enclosure system contiguous to the work area consisting of five (5) totally enclosed chambers to conform with standard drawings bound herein as follows:

3.1.2.2.1 An Equipment Room with two (2) curtained doorways, one (1) to the work area and one (1) to the airlock.

3.1.2.2.2 A Shower Room with two (2) curtained doorways, one (1) to each airlock. Plastic on Shower Room and adjoining equipment and clean rooms shall be non-transparent. Showers shall be provided and used at all asbestos removal operations.

3.1.2.2.3 The Shower Room shall contain at least one (1) shower with hot and cold or warm water. Careful attention shall be paid to the shower enclosure to ensure against leaking of any kind. Ensure a supply of soap and towels at all times in the shower room.

3.1.2.2.4 A Clean Room with one (1) curtained doorway into the airlock and one (1) entrance or exit to non-contaminated areas of the building. The Clean Room shall have sufficient space for storage of the workers' street clothes, towels, and other non-contaminated items. Joint use of this space for other functions such as offices, storage of equipment, materials, or tools shall be prohibited.

3.1.2.3 Equipment Decontamination Enclosure: Provide or construct an Equipment Decontamination Enclosure system consisting of two (2) totally enclosed chambers as follows:

3.1.2.3.1 A Washroom, constituting an airlock, with a curtained doorway to a designated staging area of the Work Area and a curtained doorway the Holding Area.

3.1.2.3.2 A Holding Area, constituting an airlock, with a curtained doorway to the Washroom and a curtained doorway to an uncontaminated area.

3.1.2.3.3 Shower water must be drained, collected and filtered through a system with at least 5.0 micron particulate size collection capability before disposal in the sanitary system. Contaminated filters are to be disposed of as asbestos waste.

3.1.2.4 SEPARATION OF WORK AREAS FROM OCCUPIED AREAS

3.1.2.5 MAINTENANCE OF ENCLOSURE SYSTEMS

3.1.2.5.1 Visually inspect enclosures at the beginning of each work period.

3.1.2.5.3 Use chemical test smoke methods to test effectiveness of barriers when directed by the air sampling professional.

3.1.2.5.4 Create pressure differential between work areas and occupied areas by the use of negative air pressure equipment. Description: high efficiency particulate (HEPA) filtration systems shall be equipped with filtration equipment in compliance with ANSI Z9.2-1979. The equipment shall be sized to provide four (4) air changes per hour in the Work Area. No air movement system or air filtering equipment shall discharge asbestos fibers or unfiltered air outside the Work Area. Automatic shutdown of system and/or warning lights to indicate improper pressure drop across filters shall be incorporated into equipment to prevent operation of equipment if filters are overloaded or ruptured.

3.1.2.6 Asbestos abatement work shall not commence until approved by the licensed Project Monitor.

3.1.2.6.1 Arrangements have been made for disposal of waste at an acceptable site.

3.1.2.6.2 Work areas and decontaminated enclosure systems and parts of the building required to remain in use are effectively segregated.

3.1.2.6.3 Tools, equipment, and material waste receptors are on hand.

3.1.2.6.4 All other preparatory steps have been taken and applicable notices and signs posted and permits obtained.

3.1.2.6.5 All worker training has been completed and documents reviewed by owner's representative. Training documents (see note in section 1.5.1.6.1) should be made available in the form of clear, legible copies of certificates (fax copies not accepted) five (5) working days in advance of the job's start so appropriate calls and verifications can be accomplished without delay of the work.

3.1.2.6.6 Abatement work will not begin until the owner authorizes work to commence, in writing.

3.2 ASBESTOS REMOVAL

3.2.1 PREPARE SITE (see Section 3.1)

3.2.2 Spray asbestos materials with amended water, using airless spray equipment capable of

providing a "mist" application to reduce the release of fibers. The asbestos material shall be sprayed with water mist containing a wetting agent to enhance penetration. A fine spray of the amended water shall be applied to reduce fiber release preceding the removal of the asbestos material.

3.2.3 In order to maintain indoor asbestos concentrations at a minimum, the wet asbestos must be removed in manageable sections. Materials shall not be allowed to dry out. Material drop shall not exceed 8 feet. For heights up to 15 feet provide inclined chutes or scaffolding to intercept drop. For heights exceeding 15 feet provide enclosed dust- proof chutes.

3.2.4 Seal filled containers. Place danger labels on containers in accordance with OSHA standard 29 CFR 1910.1001 (g) (2) if not already pre-printed on containers. Clean external surfaces of containers thoroughly by wet sponging in the designated area. Move containers to Washroom, wet clean each container thoroughly and move to Holding Area by workers who have entered from uncontaminated areas dressed in clean coveralls. Ensure that workers do not enter from uncontaminated areas into the Washroom or the Work Area; ensure that contaminated workers do not exit the Work Area through the Equipment Decontamination Enclosure System.

3.2.5 After completion of stripping work, all surfaces from which asbestos has been removed shall be wet brushed, using a nylon brush, wet wiped and sponged or cleaned by an equivalent method to remove all visible material (wire brushes are not permitted). During this work the surfaces being cleaned shall be kept wet.

3.2.6 Apply a thin coat of encapsulant to cleaned surfaces and to plastic barriers after cleaning.

3.2.7 Clean up shall be in accordance with Section 3.5

3.2.8 If at any time during asbestos removal, should the air sampling professional suspect contamination of areas outside the work area, he/she shall stop all abatement work until the Contractor takes steps to decontaminate these areas and eliminate causes of such contamination. Unprotected individuals shall be prohibited from entering contaminated areas until air sampling and visual inspections certify decontamination.

3.3 CLEAN-UP AND FINAL INSPECTIONS

3.3.1 Remove visible accumulations of asbestos material and debris. Wet clean or HEPA vacuum all surfaces within the Work Area.

3.3.2 An inspection by the building owner or his designate shall be conducted with the containment barriers in place. If the building owner or his representative finds visible accumulations of dust or bulk asbestos containing materials in the Work Area, the Contractor shall repeat the cleaning until the work area is in compliance, at the Contractor's expense. The visual inspection will detect incomplete work, damage caused by the abatement activity, and inadequate clean-up of the worksite.

3.3.3.2 Areas which do not comply with the Standard for Cleaning for Initial Clearance shall

continue to be cleaned by and at the Contractor's expense until the specified Standard of Cleaning is achieved as evidenced by the licensed Asbestos Project Monitors visual inspection and the results of final air testing.

3.3.3.3 Upon successful compliance with the Standard of Cleaning for Final, mandatory respiratory protection for workers engaged in re-spray or finishing work in the Work Area may be waived at the discretion of the Contractor.

3.4 <u>DISPOSAL OF ASBESTOS-CONTAINING MATERIALS AND ASBESTOS</u> <u>CONTAMINATED WASTE</u>

All asbestos waste shall be managed and disposed in compliance with applicable federal (NESHAPS) regulations and be appropriately handled during transport in compliance with all pertinent DOT, OSHA, DEP, EPA and State requirements.

Any disposal of asbestos materials and asbestos waste must be authorized by the Office of Solid Waste Management pursuant to Section 22a-209-8(1) of the administrative regulations of the Department of Environmental protections, Solid Waste Management Unit, and the Connecticut General Statutes, Section 22a-220 entitled "Municipal Provisions for Solid Waste Disposal. Toxic or Hazardous Waste Disposal." The first step in obtaining authorization is to contact the office in writing with detailed information relating to the quantities, types, sources, generator and hauler of asbestos wastes to; be disposed. The Office of Solid Waste Management will provide assistance by contacting and making arrangements with a landfill owner and/or operator for disposal. Authorization will be given if it can be assured that the asbestos waste will be handled and disposed of in accordance with the following requirements.

3.4.1 GENERATOR AND/OR HAULER REQUIREMENTS

1. The asbestos materials must be packaged in impermeable dust tight containers (i.e. heavy duty six (6) mil plastic bags or sealed fiber pack drums):

2. All containers must be labeled according to current standards for EPA, OSHA, and DOT.

- 2. All trailers and/or vehicles used to transport bagged and wrapped waste from the job site,
- 3. to a transfer station or approved landfill, themselves need to be lined with a minimum of one layer of six (6) mil polyethylene to ensure the transport and storage vehicle itself is leak proof (airtight and watertight).

4. The landfill accepting the wastes must be notified before shipping for scheduling to insure that adequate personnel and apparatus are available at the time of disposal; and

5. The asbestos materials must be delivered in separate shipments. It must not be transported with any other materials.

6. The Contractor is responsible for all appropriate waste manifest records, including daily

departure of waste from the site to transfer stations or an approved landfill. The requisite three part waste manifest form (per NESHAPS) needs to be kept on site to cover the tracking of the waste from site to transfer station, from generator to hauler, from hauler to landfill operator. No asbestos shall be taken from the site, nor transferred without this waste manifest.

3.4.2 FINAL PAYMENT AFTER DISPOSAL OF ASBESTOS WASTE

FINAL PAYMENTS FOR THE WORK WILL NOT BE REMITTED UNTIL A FULLY COMPLETED LIEN WAIVER AND ALL OF THE WASTE MANIFESTS FOR THE SPECIFIC SITE HAVE BEEN SIGNED AND RETURNED TO The Borough of Naugatuck.

3.4.3 ADDITIONAL REQUIREMENTS

All applicable rules and regulations are required by the Department of Labor's Occupational Safety and Health standards and the United States Environmental Protection Agency's Regulations on National Emission Standards for Hazardous Air Pollutants and the United States Department of Transportation shall be followed. Only after full compliance with the above requirements, verified in writing by way of the waste manifests, will the Sub-Contractor be released from the project.

3.5 AIR MONITORING AND ANALYSIS

3.5.1.1 The contractor shall be responsible for all air sampling during the project in addition to OSHA compliance monitoring: Daily personal air sampling by the Contractor, and daily visuals and area sampling by the Project Air Monitor.

3.5.1.2 Air samples will be analyzed with the appropriate microscopy. In buildings other than schools, per the State of Connecticut regulations, transmission electron microscopy will be used to analyze final air samples for containments in which more than 1500 square feet or 500 linear feet of asbestos-containing materials were abated. In buildings other than schools, per the State of Connecticut regulations, phase contrast microscopy will be used to analyze final air samples for containments in which less than 1500 square feet or 500 linear feet of asbestos-containing materials were abated.

3.5.2 Contractor Responsibility.

Air sampling shall be conducted by the Contractor, as necessary, to assure that workers are using appropriate respiratory protection in accordance with OSHA Standard 1910.1001 and 1 926.1101.

3.5.3 Documentation of air sampling results must be recorded at the work site within twentyfour (24) hours and be available for review until the job is complete. Upon completion of the job, these are to be forwarded to the owner for inclusion with project records.

3.5.3.1 Documentation of sample analysis must include as a minimum; sample identification; total sample duration; sample flow rate; total air volume; total fibers counted (with work sheets); total fields counted; blank filter analysis; reticule field area; and concentration of fibers per cubic

centimeter. Analytical results must include calculation of detection limits as given in Appendix G of Environmental Protection Agency Publication EPA 560/5-85-024, June 1985 Guidance for Controlling Friable Asbestos-Containing Materials in Building; of any typical environmental conditions. Air sampling analysis must be performed by individuals trained in the National Institute for Occupational Safety and Health (NIOSH) 582 course on Asbestos Air Sampling and Analysis, associated with a laboratory approved and certified by the American Industrial Hygiene Association (AIHA). Documentation of individual air sample analysis qualifications must be provided to the owner or their designated agent.

PART 2. LEAD PAINT SAFETY AND HEALTH SPECIFICATIONS

1. Scope of Work

All paint must be assumed to contain lead and special precaution are required if disturbing any painted surface.

1.1 Lead is a serious health hazard to both children and adults. The work may involve the disturbance of surfaces with lead paint. To comply with governmental requirements and minimize employee exposure, the contractor must use appropriate controls wherever there is a potential for exposure to lead dust and fumes. Potential for lead release includes any sanding, grinding, scraping, and burning (welding and cutting) of lead paint surfaces.

1.2 All work must be done in conformance with the OSHA 1926.62 regulations regarding lead exposure. This includes the following:

1.3 All workers at the site must have received a lead hazard awareness class (typically a 4 hour course given by a competent person) within the last year.

1.3.2 Workers using respirators or performing any sanding, grinding, scraping, and burning (welding and cutting) of lead paint surfaces on a regular basis must have current physicals and blood lead tests that meet the OSHA standards.

1.3.3 No eating drinking or smoking will be allowed at the site.

1.3.4 All surfaces to be sanded and/or scraped must be lightly misted prior to sanding or scraping. No welding or torch cutting of lead painted surfaces is allowed until then any paint has been removed by chemicals or HEPA filtered needle-guns.

1.3.5 There will be no dry sweeping, sanding, grinding, and torch cutting of any lead painted surfaces. Only HEPA filtered vacuum cleaners can be used to clean the floor and other surfaces.

1.3.6 Any paint chips, dust and debris must be placed in a labeled waste container and disposed of as lead waste.

1.3.7 The workers must use eye protection and disposable coveralls and gloves during all surface

preparation. The workers will wear a minimum of half face negative pressure respirators with high efficiency filters during the removal process unless the contractor has conducted a negative exposure assessment for similar work. A hand and face wash station will be set up at the site. Workers must wash their hands and face after completion before breaks after any surface preparation. If repeated personal air sampling indicates that exposure levels all well below the OSHA Action Level for Lead (30 ug/M3), the work may be completed without respirators.

1.4 All of the areas will be fully vacated prior to abatement. Warning signs will be placed at all entrances and exits to work area.

1.5 The contractor must supply all labor, materials, equipment, services, insurance and incidentals which are necessary or required to perform the work in accordance with the applicable governmental regulations and these specifications.

2.0 SUBMITTALS

2.1 Prior to Commencement of Work the contractor will:

2.2 Submit documentation to the owner indicating that each employee has instruction on the hazards of lead exposure, appropriate medical exams, and a written lead safety plan.

2.3 When rental equipment is to be used in removal areas or to transport waste materials, a copy of the written notification provided to the rental company informing them of the nature of use of the rented equipment will be submitted.

3.1 CLEAN-UP

3.2 After any breaks from surface preparations, HEPA vacuum all floors.

3.3 After completion of painting, HEPA vacuum all floors and other surfaces in the work area, and wash all surfaces with a 6% solution of TSP, and HEPA vacuum again. All surfaces must be free of visible dust and debris.

4.0 <u>DISPOSAL OF LEAD-CONTAINING MATERIALS AND LEAD-CONTAMINATED</u> <u>WASTE</u>

4.1 Waste disposal - Disposal of lead waste must be in compliance with local, state, and federal regulations. Waste will be segregated during the abatement by type. After the project, dispose all windows, paint chips, dust and debris as lead contaminated waste.

4.2 The contractor will be responsible for preparation of any manifest required by Federal or State regulations to track the movement of hazardous waste. The contractor will use the Building owner's EPA Identification Number for all manifests. Lead contaminated debris will be tested in accordance with 40 CFR 261 for TCLP lead (unless assumed to be lead waste).

4.3 GENERATOR AND/OR HAULER REQUIREMENTS

1. The lead waste materials will be packaged in impermeable dust tight containers (i.e. heavy duty six (6) mil plastic bags or sealed fiber pack drums):

2. All containers will be labeled with appropriate hazard warnings.

3. The landfill accepting the wastes will be notified before shipping for scheduling to insure that adequate personnel and apparatus are available at the time of disposal; and

4. The lead materials will be delivered in separate shipments. It will not be transported with any other materials.

5.0 AIR MONITORING AND ANALYSIS

Air sampling will be conducted by the contractor as necessary using the NIOSH 7300 method to assure that workers are using appropriate respiratory protection in accordance with OSHA Standard 1910.1025 and 1926.62.

5.1 Documentation of air sampling results will be recorded at the work site within three days and be available for review until the job is complete. Upon completion of the job, these are to be forwarded to the owner for inclusion with project records.

5.2 Air sample analysis must be performed by an AIHA Certified Lab.

6.0 <u>RECORD KEEPING</u>

Except as otherwise specified, records will be retained for a period of five (5) years from the date of project completion. Entities ceasing to do business, or relocating the principal place of business will so notify the commissioner in writing within thirty (30) days after such event. On receipt of such notification the commissioner may instruct that the records be surrendered to the department, or may specify a repository for such records. The entity or person will comply with the commissioner's instruction within sixty (60) calendar days of receipt of written request from the commissioner. Copies of the waste manifest will be provided to the Contracting Representative.

SUMMARY OF WORK

PART 1 – GENERAL

1.1 <u>RELATED DOCUMENTS</u>

A. Information to Bidders, Addenda, Pre Demolition Reports, proposals, are a part of this Section and shall be binding on the Contractor and or Subcontractor who performs this Work.

1.2 PROJECT DESCRIPTION

- A. The Project consists of furnishing all materials, equipment, and labor to perform site remediation, hazardous materials abatement, building demolition / removal, and legal disposal of existing structures located at the following addresses:
 - 1. 1 Orchard Terrace
 - 2. 1 South Main Street
 - 3. 58 Maple Street
 - 4. 146 Walnut Street
- B. An alternative Work Practice (AWP) shall be used for the demolition of The home at 146 Walnut Street.
- B. All facilities will be vacated by the Owner prior to abatement and demolition. The condition of the structures at time of site inspection, Pre-Bid Conference, shall be the conditions that bidders shall anticipate within their bid proposal. All contents remaining within the structures shall be removed and legally disposed of by the Demolition Contractor.
- C. The Demolition Contractor shall be responsible for all contract closeout requirements as determined by the Borough prior to issuance of final payment by the Owner.
- D. The Demolition Contractor shall be responsible for the certification and documentation of completed work. It shall be the responsibility of the Demolition Contractor to verify the information herein to its satisfaction for the purpose of pricing. No adjustment to the bid price will be allowed due to discrepancies between the information provided and the actual installation locations.

1.3 ABATEMENT CONTRACTOR QUALIFICATIONS

A. Prior to the start of abatement, Abatement Contractor shall submit a record of prior experience in asbestos, PCB and lead paint abatement projects, listing no less than two (2) completed jobs in the past year, with all projects of similar size

and scope. The Contractor shall list the experience and training of the site supervisor and all on-site workers. The information that should be included is as follows:

- 1. Project Name and Address
- 2. Owner's Name and Address
- 3. Architect/Consultant/Construction Manager
- 4. Contract Amount
- 5. Date of Completion
- 6. Extras and Change Orders
- B. The selected Abatement Contractor must appear on the approved list of Asbestos and Lead Abatement contractors on file at the State of Connecticut Department of Public Health (CTDPH). The Contractor must also have experience in PCB remediation work in compliance with US EPA requirements.
- C. Submit a written statement regarding whether the Contractor has ever been found out-of-compliance with federal or state asbestos and/or lead regulations pertaining to worker protection, removal, transport, or disposal.
- D. Award of this Contract may not necessarily be based solely on the submitted lowest Base Bid amount. The Owner, reserves the right to award this Contract to the Bidder who best meets all contractor qualifications.

1.4 WORK SEQUENCE / CONSTRUCTION SCHEDULE

- A. The Work will be conducted in phases to provide the least possible interference to the activities of the site and the operation of surrounding properties.
- B. Proper phasing, project scheduling and work sequencing will be coordinated by the Contractor with the Owner. All contractors are required to adhere to the scheduling and critical path sequencing as determined by the Contractor and approved by the Owner.

1.5 CONSTRUCTION PHASING

- A. The abatement and demolition / removals sequence and schedule shall anticipate the required phasing that is required to complete the scope of work as specified herein.
- B. The work will be conducted in phases to provide the least possible interference to the activities of each property and to complete all assigned tasks in a timely manner.

C. The demolition sequence anticipated is as follows:

1. <u>1 Orchard Terrace Naugatuck, CT: (1 structure)</u>

Call Before You DIG: Provide all documentation from local utility companies that all utilities (overhead and underground) that are, or formerly, serving existing buildings have been terminated and made safe for demolition.

Obtain Demolition Permit: Obtain all necessary permits for all work prior to any construction or demolition

Pre work Documentation: Submit to the Borough of Naugatuck copies of all required documentation as specified.

Notification: Provide required Notice to adjoining owners, By registered or Certified Mail.

Site Preparation: Installation construction entrances.

Abatement: Removal / legal disposal of all materials identified as hazardous and identified for abatement and legal disposal.

Building Demolition and Disposal: Perform building demolition and disposal operations as indicated herein. Transfer all demolition debris to suitable landfill locations as determined by the demolition contractor.

Contract Closeout: Restore site as per specified

Closeout Documentation: Submit for record purposes all required manifests, disposal documents, and closeout documents and indicated in Contract Closeout and required by law.

2. <u>1 South Main St. Naugatuck, CT: (1 structure)</u>

Provide Required IWC Application Documentation to the Borough and assist the Borough in obtaining a Inland Wetland Permit.

Call Before You DIG: Provide all documentation from local utility companies that all utilities (overhead and underground) that are, or formerly, serving existing buildings have been terminated and made safe for demolition.

Obtain Demolition Permit: Obtain all necessary permits for all work prior to any construction or demolition

Pre work Documentation: Submit to the Borough of Naugatuck copies of all required documentation as specified including traffic control plan, pedestrian protection plan and Demolition plan.

Notification: Provide required Notice to adjoining owners, By registered or Certified Mail.

Site Preparation: Installation of construction fencing to establish Contract limit lines/construction entrances install hay bale and silt fence barrier along the Naugatuck River, complete all work required in the wetland and watercourse protection plan, traffic control plan and the pedestrian protection plan.

Abatement: Removal / legal disposal of all materials identified as hazardous and identified for abatement and legal disposal.

Building Demolition and Disposal: Perform building demolition and disposal operations as indicated herein. Transfer all demolition debris to suitable landfill locations as determined by the demolition contractor.

Contract Closeout: Restore site as per specified, submit required documentation.

Closeout Documentation: Submit for record purposes all required manifests, disposal documents, and closeout documents and indicated in Contract Closeout and required by law.

3. 58 Maple Street, CT: (1 structure)

Call Before You DIG: Provide all documentation from local utility companies that all utilities (overhead and underground) that are, or formerly, serving existing buildings have been terminated and made safe for demolition.

Obtain Demolition Permit: Obtain all necessary permits for all work prior to any construction or demolition

Pre work Documentation: Submit to the Borough of Naugatuck copies of all required documentation as specified.

Site Preparation: Installation of construction fencing to establish contract limit lines / construction entrances. Complete all work required in the pedestrian protection plan.

Abatement: Removal / legal disposal of all materials identified as hazardous and identified for abatement and legal disposal.

Building Demolition and Disposal: Perform building demolition and disposal operations as indicated herein. Transfer all demolition debris to suitable landfill locations as determined by the demolition contractor.

Contract Closeout: Restore site as per specified

Closeout Documentation: Submit for record purposes all required manifests, disposal documents, and closeout documents and indicated in Contract Closeout and required by law.

4. <u>146 Walnut Street, CT: (1 Structure Main Home)</u>

Call Before You DIG: Provide all documentation from local utility companies that all utilities (overhead and underground) that are, or formerly, serving existing buildings have been terminated and made safe for demolition.

Obtain Demolition Permit: Obtain all necessary permits for all work prior to any construction or demolition

Pre work Documentation: Submit to the Borough of Naugatuck copies of all required documentation as specified.

Site Preparation: Installation construction entrances Remove Trees and shrubs required to completed work.

Building Demolition and Disposal: Perform building demolition (AWP) and disposal operations as indicated herein. Transfer all demolition debris to suitable landfill locations as determined by the demolition contractor.

Contract Closeout: Restore site as per specified

Closeout Documentation: Submit for record purposes all required manifests, disposal documents, and closeout documents and indicated in Contract Closeout and required by law.

1.6 CONSTRUCTION TIME

A. The Demolition Contractor shall furnish all materials, labor, and equipment to complete the project in a timely manner according to the Construction Phasing Plan above.

B. The Demolition Contractor shall achieve Substantial Completion of all contracted scope of work Specification Section 1.6 – Construction Phasing) not later than Sixty (60) calendar days from Owner's Notice to Proceed. Date of commencement shall be established as the date of Notice to Proceed from the Owner.

C. All punchlist work for the contracted scope of services shall be completed within five (5) working days after the date of Substantial Completion of each property.

D. The term "Contract Time" as used in the contract documents shall mean the time period from the date of commencement until the completion as indicated above. Such period may be extended in accordance with the provisions of the Contract Documents.

1.7 CONTRACTOR'S HOURS OF OPERATION

A. The Demolition Contractor shall limit hours of on-site operations to 7:00 am – 3:30 pm, Monday through Friday.

B. On-site activities will be allowed on holidays, Saturdays, or Sundays upon prior approval of the Owner.

C. Any on-site activities not conforming to the hours of operation listed above will require the Demolition Contractor's coordination and prior approval of the Owner.

1.8 CONTRACTOR USE OF PREMISES

A. General: Limit use of the premises to construction activities in areas as identified by the Owner.

1. Confine operations to areas within contract limit lines as established by the Owner and indicated on the drawings. Portions of the site beyond areas in which construction operations are indicated are not to be disturbed without prior authorization from the Owner.

2. Confine the parking of workers, and construction vehicles, and the storage of construction materials to within established contract limit lines.

3. While the premise is **NOT** currently occupied and operational, keep entrances serving the premises clear and available to the Owner and Owner's employees at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on site. Any disturbances to public entryways public egress, Owner's access, or public access routes require prior approval of the Owner.

B. Assume full responsibility for protection and safekeeping of products under this Contract.

1.9 OWNER OCCUPANCY

A. Completion Requirements: Timely completion of the project is critical. Aggressive construction scheduling and careful monitoring of critical path milestones cannot be overemphasized.

1.10 <u>INTENT</u>

A. These Specifications intended to describe and illustrate all material, labor, and equipment necessary to complete the demolition as indicated herein.

- B. For convenience of reference, these Specifications are separated into titled Divisions and Sections. Such separations shall not, however, operate to make the Owner an arbiter to establish limits to Contracts between the Demolition Contractor and Subcontractors. The Divisions of the Specifications do not necessarily define the limits of the Demolition Contractor's subcontracts, the work of any one subcontract may include items specified in several Divisions or Sections. The Demolition Contractor may sublet work as he sees fit, but it is his responsibility to see that all work shown on the Drawings and/or specified is completed in accordance with the Contract.
- C. Furnish all materials and accomplish all work in strict accordance with the grades or standards of materials, standards of workmanship, and manufacturer's specifications listed or mentioned in these documents.
- D. The listing or mention of materials shall be sufficient indication that all such materials shall be furnished by the Demolition Contractor, in accordance with the grades or standards indicated, free from defects impairing strength, durability or appearance and in sufficient quantity for the proper and complete execution of the work, unless specifically stated otherwise.
- E. The listing or mention of any method of installation, erection, fabrication or workmanship shall not operate to make the Demolition Contractor an agent, but shall be for the sole purpose of setting a standard of quality for the finished work. The Demolition Contractor is free to use any alternate method, provided only that, prior to the start of the work, such alternate method is approved in writing by the Owner, as resulting in quality equal to that intended by these documents. Unless an alternate method is approved, all work shall be in strict accordance with all methods if installation, erection, fabrication and workmanship listed or mentioned herein.

1.11 SOCIAL SECURITY TAXES

A. Demolition Contractors and each Subcontractor shall pay the taxes measured by the wages of all their employees as required by the Federal Social Security Act and all amendments thereto, and accept the exclusive liability for said taxes. The Demolition Contractor shall also indemnify and hold the Owner, and its respective officers, agents and servants harmless on account of any tax measured by the wages aforesaid of employees of the Demolition Contractor and his subcontractors, assessed against the Owner under authority of said law.

1.12 UNEMPLOYMENT INSURANCE

A. Demolition Contractor and each Subcontractor shall pay unemployment insurance measured by the wages of his employees as required by law and accept the exclusive liability for said contributions. The Demolition Contractor shall also indemnify and hold harmless the Owner on account of any contribution measured by the wages of aforesaid employees of the Demolition Contractor and his Subcontractors, assessed against the Owner under authority of law.

1.13 OCCUPATIONAL SAFETY AND HEALTH ACT

- A. The Demolition Contractor shall comply with the requirements of the Occupational Safety and Health Act of 1970 and the Construction Safety Act of 1969, including all standards and regulations which have been promulgated by the Governmental Authorities which administer such Acts and said requirements, standards and regulations are incorporated herein by reference.
- B. The Demolition Contractor shall comply with said regulations, requirements and standards and require and be directly responsible for compliance therewith on the part of his agents, employees, material men and Subcontractors; and shall directly receive and be responsible for all citations, assessments, fines or penalties which may be incurred by reason of his agents, employees, material men or Subcontractors failing to so comply.
- C. The Demolition Contractor shall indemnify the Owner and save them harmless from any and all losses, costs and expenses, including fines and reasonable attorney's fees incurred by the Owner by reason of the real or alleged violation of such laws, ordinances, regulations and directives, Federal, State, and Local, which are currently in effect or which become effective in the future, by the Demolition Contractor, his Subcontractors or material men.

1.14 CLOSEOUT AND PUNCH LIST

- A. The Contractor shall carefully check his/her own work and that of any Subcontractor as the work is being performed. Unsatisfactory work shall be corrected immediately.
- B. When the Contractor determines that he is substantially complete, that is, has less than one percent of his Contract remaining to be completed, he shall prepare for submission to the Borough of Naugatuck, a list of items to be completed or corrected. The failure to include any items on such list does not alter the responsibility of the Contractor to complete all work in accordance with the Contract Documents. Upon receipt of the Contractor's list of items to be completed or corrected, the Borough of Naugatuck will promptly make a thorough inspection and prepare a "punch list" setting forth in accurate detail any items on the Contractor's list and any

additional items that are not acceptable.

- C. When the "punch list" has been prepared, the Borough of Naugatuck will arrange a meeting with the Contractor to identify and explain all punch list items and answer questions on the work that must be completed before final acceptance.
- D. The Contractor shall correct all "punch list" items or shall cause the correction of the "punch list" items within a time frame to be established when the "punch list" is made. The time frame for the completion of the "punch list" shall not exceed the completion date of the Contract. Should the "punch list" not be completed within the specified time frame, the Owner may invoke the rights given under the General Conditions.
- E. The Borough of Naugatuck shall not be expected to inspect any area more than once for the preparation of the "punch list" items. If, during an inspection, the Borough of Naugatuck discovers five (5) or more deficient conditions, then the area shall be declared "Not Ready" for Inspection.
- F. All inspections and sampling required for hazardous materials abatement compliance will be performed by the Borough of Naugatuck.

1.15 CLEANING

A. Throughout the construction period, the Contractor shall maintain the buildings and the site free of rubbish, debris, surplus materials, and other items not required for the Work. Remove such material from the site daily to prevent accumulations. Remove all construction debris from work areas, and remove all hazardous waste and asbestos waste as required by the most current federal, state, and local regulations and the requirements of the specifications.

1.16 ADDITIONAL GENERAL REQUIREMENTS

- A. The Hazardous Material Abatement Contractor shall employ a competent and English-speaking Asbestos, PCB and Lead Abatement Supervisor with at least two (2) years experience on projects of similar scope and magnitude. The Supervisor shall be responsible for all work involving hazardous materials abatement as described in the specifications and defined in the applicable regulations, and have full time daily supervision of the same. The Supervisor shall be the "Competent Person" as defined by OSHA regulations.
- B. The workers and the supervisor(s) involved in this project must be certified (licensed) by the State of Connecticut Department of Public Health (DPH) to perform asbestos and lead abatement work in Connecticut. In addition, they must have adequate OSHA training to perform PCB work as required by USEPA in the approved PCB remediation plan.

- C. The Contractor shall allow the work of this contract to be inspected, if required, by local, state, federal, and any other authorities having jurisdiction over such work. The Contractor shall immediately notify the Owner and shall maintain written evidence of such inspection for review by the Owner
- D. The Contractor shall incur the cost of all fines resulting from regulatory noncompliance as issued by federal, state, and local agencies. The Contractor shall incur the cost of all work requirements mandated by federal, state, and local agencies as a result of regulatory non-compliance or negligence.
- E. The Contractor shall immediately notify the Owner of the delivery of all permits, licenses, certificates of inspection, of approval or occupancy, etc., and any other such instruments required under codes by authorities having jurisdiction, regardless of to whom issued, and shall cause them to be displayed to the Owner for verification and recording.

PART 2 - PRODUCTS (Not applicable).

PART 3 - EXECUTION (Not applicable).

CONTRACT CLOSEOUT

PART 1 – GENERAL

1.1 GENERAL PROVISIONS

A. Instructions to Bidders, "General Conditions of the Contract for Construction", the Supplementary General Conditions and Division

1, General Requirements, are a part of this Section and shall be binding on the Contractor and or Subcontractor who performs this Work. Note also all Addenda.

1.2 FINAL CLEANING

- A. Unless otherwise specified under Sections of this Specification, the Contractor shall perform final cleaning operations as herein specified prior to final inspection.
- B. Maintain the project site free from accumulations of waste, debris and rubbish caused by operations. At the completion of the work, remove waste materials, rubbish, tools, equipment, machinery and surplus materials, and clean all sight exposed surfaces; leave the project clean and ready for work of others under separate contract.
- C. Cleaning shall include all exterior surfaces in which the Contractor has had access.

D. Demolition area restoration: The Contractor shall fill all excavation to grade, chip or remove all brush or trees removed for the demolition work, install and grade four inches minimum of top soil and seed and mulch the disturbed area.

- E. Lawn Restoration: The Contractor shall restore all vegetated areas to their original state prior to on-site activities. Disturbed lawn areas are to be restored to grade with topsoil and seeded with new grass. Protection to trees and vegetation shall be thoroughly removed and discarded from site.
- F. Paved Areas: Existing paved areas to remain. Contractor to sweep clean all areas of paving to remain at the conclusion of demolition operations.
- G. Erosion Control: The Contractor to remove and discard all erosion control measures at the conclusion of demolition operations. Filter fabric at catch basins to be removed and catch basin sumps to be made clean of all foreign materials.
- H. Fence Removal: the Contractor shall remove all safety fencing installed for the project and make repairs as required.

BUILDING DEMOLITION

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Instructions to Bidders, "General Conditions of the Contract for Construction", the Supplementary General Conditions and Division, General Requirements, are a part of this Section and shall be binding on the Contractor and or Subcontractor who performs this Work.

1.2 SUMMARY

A. This Section requires removal and disposal, off site, of the following:

- 1. Building structures and existing site improvements located within the contract limit lines as indicated on the drawings for complete demolition and removal, including its contents and site related features.
- 2. Installation/ development of pedestrian safety plans, traffic control plan, demolition plan, installation of sediment and debris control structures.
- 3. Building foundations, footings, and supporting walls and structure to a depth of bottom of footing elevation shall be removed.
- 4. Back fill all areas to grade and topsoil, seed and mulch.
- B. Removal work specified elsewhere:
 - Asbestos removals: Pre-Demolition Asbestos Abatement Specifications
 PCB removals: Pre-Demolition Survey
 Lead removals: Pre-Demolition Survey
 Universal Waste Reclamation

1.3 SUBMITTALS

A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections.

B. Proposed schedule of operations coordination for shutoff, capping, and discontinuation of utility services as required.

1. Provide a detailed sequence of demolition and removal work.

C. Permits and notices authorizing demolition from applicable regulatory agencies.

D. Certificates of severance of utility companies.

E. Permit for transport and disposal of demolition debris.

F. All other items required by any agency or regulation having jurisdiction over the demolition work.

G. For 1 South Main Street the contractor for no additional cost must develop and submit a pedestrian protection plan and a traffic Control plan both being acceptable to the Borough of Naugatuck and the Borough of Naugatuck police Department.

H. For 1. South Main Street the Contractor must submit a Wetlands and Watercourse protection plan including drawings and sketches satisfactory to the Inland Wetlands commission. The plan shall have a minimum of an 8 foot chain link fence along the River and hay bale and silt fence barrier.

1.4 JOB CONDITIONS

A. Occupancy: Structures to be demolished have been vacated and use discontinued prior to start of work.

B. Condition of Structures: Owner assumes no responsibility for actual condition of structures to be demolished.

1. Conditions existing at time of inspection for bidding purpose will be maintained by owner insofar as practicable. However, variations within structure may occur by Owner's removal and salvage operations prior to start of demolition work.

C. Explosives: Use of explosives will not be permitted.

D. Traffic: Conduct demolition operations and removal of debris to ensure minimum interference with roads, streets, drives, walks, and other adjacent occupied and used facilities.

1. Do not close or obstruct streets, walks, or other occupied or used facilities without permission from authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.

E. Protection: Ensure safe passage of persons around area of demolition. Conduct operations to prevent damage to adjacent buildings, structures, existing trees designated by the Owner to remain and other facilities and injury to persons.

F. Damages: Promptly repair damages caused to adjacent facilities by demolition operations.

G. Utility Services: Locate, identify, stub off, and disconnect utilities serving existing structures to be demolished.

1. Contractor shall coordinate shut off of all existing utilities serving structures. Disconnecting and sealing existing utilities before starting demolition operations is part of this work.

H. Utility Services: Do not start demolition work until utility disconnection has been completed and verified by utility companies. The Contractor shall obtain all necessary shut off notifications from all required utilities.

I. Erosion Controls: All existing storm water drainage systems shall remain in use during demolition activities. Provide filter protection at all existing catch basins to prevent contamination of storm water systems with sediment and debris. Proper precautions shall be put in place to prevent any sediment / debris from the site to migrate off site. This shall also pertain to construction entrance locations. Do not commence demolition operations until active erosion control safeguards are in place and approved by the Owner.

1.5 QUALITY ASSURANCE

A. Qualifications of Workers: Use adequate numbers of skilled workers who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section

B. Comply with the requirements of the following

1. Local and State Building Codes and Health Departments

2. U.S. EPA and State of Connecticut Department of Environmental Protection

3. Utility companies having jurisdiction and that may have utilities within the area of the Work.

4. All other applicable local, state, and federal regulations

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 DEMOLITION

A. Pollution Controls: Use water sprinkling, temporary enclosures, and other suitable methods to limit dust and dirt rising and scattering in air. Comply with governing regulations pertaining to environmental protection.

1. Do not use water when it may create hazardous or objectionable conditions such as ice, flooding, and pollution.

B. Clean adjacent structures and improvements of dust, dirt, and debris caused by demolition operations.

C. Building Demolition: Demolish buildings completely and remove from site. Use such methods as required to complete work within limitations of governing regulations.

1. Proceed with demolition in systematic manner, from top of structure to ground. Complete demolition work above each floor or tier before disturbing supporting members on lower levels.

2. Demolish concrete and masonry in small sections.

3. Remove structural framing members and lower to ground by hoists, derricks, or other suitable methods.

4. Break up and remove all concrete slabs-on-grade, all concrete basement floors and all foundation walls

5. Locate demolition equipment throughout structure and remove materials so as to not impose excessive loads to supporting walls, floors, or framing.

D. Below-Grade Construction: Demolish and remove foundation walls, footings, and other below-grade construction, including concrete slabs, to a depth of bottom of existing footings below finish grade elevation. Restore all excavated areas to finished grade elevations through use of on-site fill, or imported fill materials. All imported fill shall be accompanied with documentation that material is environmentally "clean" structural fill meeting the requirements of CTDOT M.02.05

E. For the Demolition 1 South Main Street Building, With minimum 1 week notice the use of the parking lot adjacent to 1 South Main Street will be available for staging of equipment. Equipment shall not be staged on roadways without approval from the Borough of Naugatuck and the Connecticut Department of Transportation.

F. The Contractor shall obtain all necessary shut off notifications from all required utilities.

G. The Contractor Provide required Notice to adjoining owners, By registered or Certified Mail.

3.2 DISPOSAL OF DEMOLISHED MATERIALS

A. General: Remove from site accumulated debris, rubbish, and other materials resulting from demolition operations.

1. Burning of combustible materials from demolished structures will not be permitted on site.

B. Removal: Transport materials removed from demolished structures and legally dispose of at an offsite location. Burying demolition debris on site will not be permitted.

3.3 TRAFFIC CONTROL (1 South Main Street)

- 1. The contractor shall develop and implement a traffic control plan and obtain all necessary state permits. The plan shall be acceptable to both the CTDOT and the Borough of Naugatuck Police Department.
- 2. The plan shall include detours in the event road closures are proposed as well as include all required signage and protective devices.
- 3. One way travel at a minimum shall be maintained at all time.
- 4. The Contractor shall be responsible to pay for all traffic control cost including police officers as required for the duration of the project. No additional payment shall be made for this requirement.
- 5. The plan shall include adequate safety clear zones for traffic while demolition operations are in effect.
- 6. All lanes of traffic shall be opened following the end of work each day.
- 7. Traffic Lanes closures shall only be permitted from Monday Friday from 8:30 AM to 3:30 PM.

3.4 PEDESTRIAN PROTECTION (1 South Main Street and 58 Maple Street)

- 1. The contractor shall develop and implement a pedestrian protection plan and obtain all necessary approvals. The plan shall be acceptable to both the CTDOT and the Borough of Naugatuck Police Department.
- 2. The plan shall include pedestrian detours and signage in the event sidewalks are closed. The plan shall include all required signage and protective devices.
- 3. The Contractor shall maintain pedestrian access to the area. This may be accomplished by directing pedestrians to the opposite side of the road.

- 4. The Contractor shall be responsible to pay for all pedestrian control cost including police officers as required for the duration of the project. No additional payment shall be made for this requirement.
- 5. The plan shall include adequate safety clear zones for pedestrians while demolition operations are in effect.
- 6. Sidewalk closures may be maintained throughout the demolition.

3.5 WETLAND AND WATERCOURSE. (1 South Main Street)

- 1. The contractor shall develop and implement a Wetlands and Watercourse protection plan that shall be acceptable to the Borough of Naugatuck Inland Wetlands Commission (IWC).
- 2. The Borough of Naugatuck shall be responsible to obtain the wetlands permit for the demolition project with assistance of the Contractor. The Contractor shall retain and acceptable engineer to develop Wetlands and Watercourse protection plan and required documentation for presentation to the IWC. The Contractors engineer shall expect to attend at least 2 regular IWC meetings.
- 3. All Wetland fees shall be the responsibility of the Borough of Naugatuck.
- 4. The proposed plan shall be sufficient to protect the Naugatuck River and surrounding areas from the Demolition activities as determined by the IWC. The plan at a minimum shall include an 8' chain link fence with chain link fabric along the river for dust and debris control, catch basin silt sacks for the surrounding area and a hay bale and silt fence barriers.

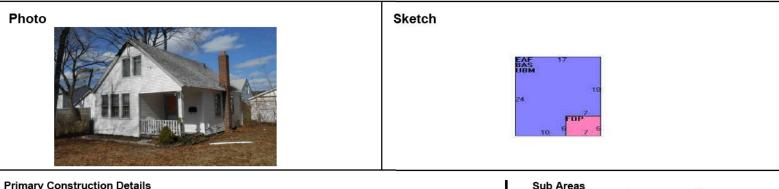
END OF SECTION



Map Block Lot 39.5-42E26

Account

025-9300



Year Built	1900	Kitchen Style	Average
Stories		Roof Style	Gable
Building Style	Old Style	Roof Cover	Asphalt
Building Use		Exterior Walls	Vinyl Siding
Building Condition		Interior Walls	Plaster
Floors	Linoleum	Heating Type	Hot Water
Total Rooms		Heating Fuel	Gas
Bedrooms		АС Туре	None
Bathrooms	1	Gross Bldg Area	
Bath Style	Average	Total Living Area	
Half Baths	0		

Sub Areas	Gross Area	Living Area
Subarea Type	(sq ft)	(sq ft)
Total Area	1	





Hazardous Building Materials > Industrial Hygiene/IAQ > Environmental Assessments > Laboratory Services & Training

March 5, 2014

Mr. James R. Stewart PE & LS Director of Public Works Borough of Naugatuck 246 Rubber Avenue Naugatuck, Connecticut 06770

RE: Pre-Demolition Hazardous Building Materials Inspection Report 1 Orchard Terrace Naugatuck, Connecticut Eagle Project No. 14-029.10T1

Dear Mr. Stewart:

Attached is the report for the hazardous building materials inspection conducted at 1 Orchard Terrace in Naugatuck, Connecticut. The scope of services included an asbestos-containing materials inspection, lead-based paint screen, lead waste characterization sampling and analysis and an inspection for universal waste materials.

The inspection was performed to support the demolition of the building.

Please do not hesitate to contact us if you have any questions regarding the contents of this report.

Sincerely, Eagle Environmental, Inc.

Report Prepared By: Chris Liberti Senior Project Manager

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Report Reviewed By: Ashis Roychowdhury Executive Vice President

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TABLE OF CONTENTS

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1.	INTR	ODUCTION	1
	1.1	BUILDING DESCRIPTION	1
2.	SCOP	E OF INSPECTION	1
	2.1	Asbestos Containing Materials	1
	2.2	LEAD-BASED PAINT	1
		2.2.1 X-Ray Fluorescence Screen	1
		2.2.2 Lead Waste Characterization	2
	2.3	UNIVERSAL WASTE MATERIALS AND OTHER ENVIRONMENTAL CONCERNS	2
		2.3.1 Polychlorinated Biphenyls (PCB) and Di-ethylhexlpthalate (DEHP)
		Containing Items	
		2.3.2 Mercury Containing Items	2
		2.3.3 Used Electronics and Batteries	2
		2.3.4 Chlorofluorocarbons	2
3.	INSPI	ECTION PROTOCOLS	3
	3.1	ASBESTOS CONTAINING MATERIALS	3
		3.1.1 Inspection	
		3.1.2 Bulk Sampling	
		3.1.3 Bulk Sample Analysis	
	3.2	LEAD-BASED PAINT	
		3.2.1 X-Ray Fluorescence Screen	4
		3.2.2 Lead Waste Characterization	5
	3.3	UNIVERSAL WASTE MATERIALS AND OTHER ENVIRONMENTAL CONCERNS	6
		3.3.1 PCB and Di-ethylhexlpthalate (DEHP) Containing Items	6
		3.3.2 Mercury Containing Items	
		3.3.3 Used Electronics and Batteries	6
		3.3.4 Chlorofluorocarbons	7
4.	INSPI	ECTION RESULTS	7
	4.1	ASBESTOS CONTAINING MATERIALS	7
	4.2	Lead-based Paint	
		4.2.1 X-Ray Fluorescence Screen	
		4.2.2 Lead Waste Characterization Results	
	4.3	UNIVERSAL WASTE MATERIALS AND OTHER ENVIRONMENTAL CONCERNS	
		4.3.1 PCB and Di-ethylhexlpthalate (DEHP) Containing Items	
		4.3.2 Mercury Containing Items	
		4.3.3 Used Electronics and Batteries	
		4.3.4 Chlorofluorocarbons	
5.	COST	FESTIMATES	0

LIST OF TABLES

Table I	Asbestos-Containing Materials Summary Table
Table II	Non Asbestos-Containing Materials Summary Table
Table III	Universal Waste Materials Summary Table

APPENDICES

Appendix 1	Floor Plans and Roof Plans
Appendix 2	Asbestos Bulk Sample Laboratory Reports
Appendix 3	XRF Lead-based Paint Inspection Reports
Appendix 4	Lead Waste Characterization Laboratory Reports and Computation
	Table
Appendix 5	Abatement and Consulting Cost Estimates
Appendix 6	Eagle Environmental Inc. Licenses and Laboratory Certificates

1. INTRODUCTION

On January 30, 2014, Eagle Environmental, Inc. conducted a hazardous building materials inspection of the structure located at 1 Orchard Terrace in Naugatuck, Connecticut. The scope of the hazardous building material inspection included an asbestos-containing materials inspection, a lead-based paint screen, lead waste characterization sampling and analysis and an inspection for universal waste materials. The inspection was performed to support the demolition of the building.

1.1 Building Description

The subject building located at 1 Orchard Terrace in Naugatuck, Connecticut is a single story residential structure of wood frame construction. The structure was built circa 1900. The building is constructed slab on grade. The mechanical equipment consists of an oil fired hot water baseboard system with copper finned tubing. The mechanical distribution system is un-insulated. The interior walls and ceilings are of sheetrock and joint compound construction. The window frames and sashes are of wood construction. The door frames are wood with wood doors. The floors are finished with various resilient flooring finishes. The exterior facades consist of vinyl siding over wood shingles. The roof is sloped and consists of several layers of asphalt shingles.

2. SCOPE OF INSPECTION

2.1 Asbestos Containing Materials

The asbestos inspection was conducted in order to satisfy the United States Environmental Protection Agency (USEPA) National Emission Standard for Hazardous Air Pollutants Act (NESHAP) as amended November 20, 1990. The USEPA NESHAP final rule requires the identification and removal of all regulated ACM in a building prior to demolition.

The asbestos inspection was performed by Souleymane Doumbia; a State of Connecticut licensed Asbestos Inspector (license #000804). The inspector made a good faith effort to find concealed suspect materials that might exist behind walls and pipe chases.

2.2 Lead-based Paint

2.2.1 X-Ray Fluorescence Screen

The lead-based paint (LBP) screen was performed in accordance with the requirements of the State of Connecticut, Department of Energy and Environmental Protection (DEEP), <u>Guidance for the Management and Disposal of Lead Contaminated Materials Generated in the Lead Abatement, Renovation and Demolition Industries.</u> The DEEP regulates the disposal of hazardous lead waste in the State of Connecticut. Lead-contaminated debris, not contaminated with other hazardous materials, is classified either as hazardous lead waste or as non-hazardous solid waste.

Additionally the U.S. Department of Labor Occupational Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CFR 1926.62 Lead in Construction.

The lead-based paint screen was performed by Eltwaun Lawrence a State of Connecticut licensed Lead Inspector/Risk Assessor (license #002250).

2.2.2 Lead Waste Characterization

The State of Connecticut Department of Energy and Environmental Protection (DEEP) regulates the disposal of hazardous waste. The required analytical test to determine a materials waste classification is the Toxicity Characteristic Leachate Procedure, or TCLP (Regulation of State DEP 22a-449© - 101 (a) (1), incorporating 40 CFR 262.24). Eagle Environmental, Inc. collected samples of building materials for lead waste characterization.

2.3 Universal Waste Materials and Other Environmental Concerns

2.3.1 Polychlorinated Biphenyls (PCB) and Di-ethylhexlpthalate (DEHP) Containing Items

PCB and DEHP lighting ballasts and electrical equipment, including capacitors and switches that contain PCBs, are regulated under the Toxic Substances Control Act of 1976 (TSCA) which bans the manufacturing and distribution of PCBs and regulates their storage and disposal.

PCBs and DEHP can be found in a number of items, including lighting ballast and electrical equipment, including capacitors and switches. DEHP and PCB-containing items such as these must be managed and disposed of in accordance with special requirements. A visual inspection for PCB and DEHP containing items was performed at the site building.

2.3.2 Mercury Containing Items

Fluorescent lamps, thermostats, mercury switches, manometers, natural gas meters and other items can contain enough mercury to be classified as a special waste, and therefore may not be disposed of as regular construction debris. The mercury and mercury vapors associated with these products must be reclaimed prior to disposal or recycling of the products. A visual inspection for the presence of fluorescent lamps, thermostats and switches potentially containing mercury was performed at the site building.

2.3.3 Used Electronics and Batteries

Used electronics and batteries may contain enough lead, mercury, cadmium or acid electrolytes to be classified as universal waste. In such cases, they may not be disposed of as regular construction debris. A visual inspection for the presence of used electronic devices was performed at the site building.

2.3.4 Chlorofluorocarbons

Freon gas includes a number of gaseous, colorless chlorofluorocarbons (CFCs) that are commonly used as refrigerants. Freon is listed as a controlled substance by governments around the world. In the United States, the USEPA regulates the emission of Freon gas into the atmosphere due to its ozone depleting capabilities. Through Title VI, Stratospheric Ozone Protection, of the Clean Air Act Amendments of 1990, the USEPA regulates Freon gas and requires mandatory recycling and a ban on the intentional venting or releasing of refrigerants during maintenance, service and or repair. A visual inspection for the presence of building materials potentially containing Freon was performed at the site building.

EAGLE ENVIRONMENTAL, INC. 8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786 PHONE (860) 589-8257 • FAX (860) 585-7034

3. INSPECTION PROTOCOLS

3.1 Asbestos Containing Materials

3.1.1 Inspection

The asbestos-containing materials (ACM) inspection included the accessible interior and exterior portions of the building including the roofing systems. Semidestructive testing techniques were utilized during the inspection process. This included cutting through various layers of flooring and roofing materials to verify and sample individual layers of suspect ACM. Suspect building materials that are inaccessible for inspection and sampling are assumed to be ACM for the purpose of this report. These suspect materials are generally located in operational equipment, behind rigid walls and ceilings, below rubber roof membranes or otherwise concealed areas of the building, including below grade materials.

During the inspection, suspect materials are located, sampled, quantified and the friability of the material is determined. Friable materials are those materials that hand pressure can crumble, pulverize or reduce to powder when dry. An estimated quantity of identified ACM is provided for positive materials only. The materials are quantified in linear or square feet, depending on the nature of the material.

3.1.2 Bulk Sampling

During the sampling process, suspect ACM is separated into three (3) USEPA categories. These categories are: Thermal System Insulation (TSI), Surfacing Materials (SURF), and Miscellaneous materials (MISC). TSI includes all materials used to prevent heat loss or gain or water condensation on mechanical systems. Examples of TSI are pipe covering, boiler insulation, duct wrap, and mudpack fitting cement. Surfacing ACM includes all ACM that is sprayed, troweled or otherwise applied to an existing surface. These applications are most commonly used in fireproofing, decorative, and acoustical applications. Miscellaneous materials include all ACM not listed in thermal or surfacing, such as linoleum, vinyl asbestos flooring, and ceiling tile.

Bulk sampling was performed in a random method. Bulk sampling methods and number of samples collected meets or exceeds the USEPA requirements.

3.1.3 Bulk Sample Analysis

The samples of the suspect asbestos containing materials were sent to a State of Connecticut Department of Public Health (DPH) approved laboratory for analysis by Polarized Light Microscopy (PLM). PLM is the USEPA accepted method of analysis for identification of asbestos in bulk matrixes. Samples are collected individually or in sets. When sets of samples are collected, each set is systematically analyzed until one sample is determined to contain asbestos. Upon the determination of the presence of asbestos in one sample in the set, analysis of the remaining samples in the set is discontinued. If no asbestos is observed during analysis of the set of samples, the suspect material is determined to be negative for asbestos content.

Sample analysis results are reported in percentage of asbestos and non-asbestos components. The USEPA defines any material that contains greater than one

percent asbestos, utilizing PLM, as being an asbestos-containing material (ACM). Suspect materials containing greater than one percent (1%) asbestos utilizing the PLM Point Count Method and the NOB TEM method are also considered to be asbestos-containing. Materials determined to contain greater than one percent (1%) asbestos is regulated by the USEPA, the State of Connecticut Department of Public Health and Department of Energy and Environmental Protection and the United States Department of Labor. Sample results indicating "no asbestos detected" (NAD) are specified as non-asbestos containing materials. Samples results indicating "Did Not Analyze" (DNA) are not analyzed due to the stop on first positive request to the laboratory.

3.1.3.1 Friable ACM Analysis

Certain samples of friable materials shown to contain less than 10% asbestos are analyzed further by the "Point Count Method". This procedure is recommended by the United States Environmental Protection Agency to confirm friable bulk samples shown to have less than 10% asbestos by PLM to be definitively negative or positive for asbestos. This method is accepted as providing statistically reliable results when analyzing bulk samples with very low asbestos concentrations. Friable materials containing "Trace" or "less than one percent (1%)" asbestos must be analyzed by the PLM Point Count Method, None of the samples were further analyzed by the PLM Point Count Method for this project.

3.1.3.2 Non Friable ACM Analysis

Certain samples of organically bound non-friable materials shown to contain "less than 1% asbestos", "TRACE" or "NAD" are recommended for analyses by the "NOB TEM ELAP 198.4 Method". This procedure is recommended by the United States Environmental Protection Agency to further evaluate non-friable organically bound materials for asbestos. Suspect materials confirmed by NOB TEM to be "less than 1% asbestos", "TRACE" or "NAD" are considered non-asbestos containing. One (1) sample was further analyzed by the NOB TEM Method for the this project.

3.2 Lead-based Paint

3.2.1 X-Ray Fluorescence Screen

The lead-based paint screen was performed utilizing an X-Ray Fluorescence (XRF) Radiation Monitoring Device (RMD) Lead Paint Analyzer (LPA 1), serial number 1364 within the limits of the inspection area(s). The screen includes only accessible areas within the inspection area(s) and accessible building materials.

The lead-based paint screen includes testing limited components and or surfaces throughout the structure. It is not the intent to test all painted components, but to identify on a broad scale the impact of lead paint as it relates to the disposal of lead paint contaminated debris and potential worker exposure issues. Generally, wall and ceiling surfaces, painted floors, window and door systems are tested. Other components such as baseboards, cabinets, columns, trim, etc. are tested on a limited basis. Component and surface locations are identified by side designations represented by the letters "A", "B", "C", and "D". The "A" side is considered the front of the building with the "B", "C", and "D" sides following in a clockwise order.

EAGLE ENVIRONMENTAL, INC. 8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786 PHONE (860) 589-8257 • FAX (860) 585-7034 The data is presented on computer generated Lead Inspection Reports contained in Appendix 3. The Summary Report provides an inventory of each surface coating that contains lead at or above 1.0 mg/cm². The Detailed Report is an inventory of each tested surface on a room-by-room basis.

For the purpose of this report, the XRF results are separated into two (2) categories; high levels of lead ($\geq 1.0 \text{ mg/cm}^2$) and low levels of lead ($< 1.0 \text{ mg/cm}^2$). Building materials containing high levels of lead have a greater probability of creating worker exposures during construction than do building materials with low levels of lead. Additionally, lead waste characterization sampling is required for building materials containing high levels of lead ($\geq 1.0 \text{ mg/cm}^2$) and will become a waste product as a result of demolition or renovation activities.

The U.S. Department of Labor Occupation Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CRF 1926.62 Lead Exposure in Construction; Interim Final Rule. Currently, OSHA does not define a threshold level of lead in paint that may cause worker exposure. Any detectable level of lead in paint (>0.0 mg/cm² +/- 0.3 mg/cm² by XRF or ≥0.01 % by AAS) requires task specific exposure monitoring.

3.2.2 Lead Waste Characterization

The State of Connecticut Department of Energy and Environmental Protection regulates the disposal of hazardous waste. The required analytical test to determine a materials waste classification is the Toxicity Characteristic Leachate Procedure, or TCLP (Regulation of State DEEP 22a-449[©] - 101 (a) (1), incorporating 40 CFR 262.24).

The TCLP test subjects a 100-gram sample of waste material to a simulated landfill leaching condition, and assesses the ability of the sample to leach out lead into the environment. The waste is classified as hazardous lead waste if the TCLP sample result is greater than 5.0 mg/l of lead. The waste is classified as non-hazardous solid waste if the TCLP sample result is less than 5.0 mg/l of lead. Building debris containing equal to or greater than 1.0 mg/cm² of lead by XRF requires waste classification analysis.

There are two (2) primary approaches for TCLP sampling. Both methods utilize the data generated during the lead screen to determine which building materials contain lead in paint coatings and what percentage of the waste stream will consist of the leaded materials. The two (2) basic approaches are described below.

Screen, Sample, and Segregate Method

The Screen, Sample, and Segregate method of TCLP sampling is conducted in accordance with the State of Connecticut Department of Energy and Environmental Protection <u>Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation, and Demolition Industries</u>. This method entails screening the building components scheduled to be removed with an XRF lead paint analyzer. Components that are determined to be lead containing are sampled and analyzed by TCLP based on their contribution into the waste stream. The waste stream is made up of those building components that will be removed from the structure as part of the renovation or demolition process and will become a waste product.

Sample and Demolish Method

The Composite Sample and Demolish Method of TCLP sampling is conducted in accordance with the State of Connecticut Department of Energy and Environmental Protection Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation, and Demolition Industries. This method utilizes composite samples to assess the total amount of leachable lead of the entire quantity of debris to be removed. This sampling method is best utilized for whole building demolitions where the quantity of non-lead debris is expected to be much greater than that of the leaded debris. The first step in the sampling process requires the inspector to identify the potential waste stream of the structure to be demolished. The waste stream is made up of those building components that will be disposed of once the structure is demolished. The inspector calculates the mass by weight of each group of building components within the building (i.e. studs, framing, sheathing, siding, doors, windows, etc.). The lead testing results enables the inspector to determine the percentages of components, within each group, that contain lead. With this information, the inspector can than calculate the percent by weight contribution of each components contribution into the waste stream. This takes into account the ratio of leaded components verse non-leaded components within each group.

3.3 Universal Waste Materials and Other Environmental Concerns

3.3.1 PCB and Di-ethylhexlpthalate (DEHP) Containing Items

A visual inspection for the presence of lighting ballasts and electrical equipment potentially containing PCB's or DEHP was performed within the inspection areas. Lighting ballasts and oil-filled capacitor manufactured after 1979 may have "NO PCB's" stamped on its casing. These are filled with oil which does not contain PCB's but may contain DEHP. Lighting ballasts and Capacitors with date stamps prior to 1979 or no date stamps are assumed to contain PCB's. Lighting ballasts and capacitors labeled as "No PCB's" are assumed to contain DEHP if the date stamp is illegible or non-existent. Electronic ballasts are not assumed to contain PCB's or DEHP.

3.3.2 Mercury Containing Items

During the visual inspection process, fluorescent, metal halide and sodium lamps are assumed to contain mercury vapors unless the end caps of the tubes are green indicating they are mercury free. Thermostatic controls, switches, manometers, capacitors and other used electronic components are inventoried during the inspection process.

3.3.3 Used Electronics and Batteries

An inventory of used electronics that may fall under the Universal Waste regulations was developed during the inspection. These materials include but are not limited to lead acid batteries in emergency lighting and exit signs and stored electronic equipment that may contain hazardous or regulated substances. Electronic components such as computers, copy machines, etc that are in use at the time of the inspection are generally not included in the inventory.

3.3.4 Chlorofluorocarbons

Eagle Environmental inspected the building for compressor tanks associated with water fountains, portable air conditioning units, the indoor environmental cooling system and walk-in coolers or freezers where applicable. The inspectors also inspected rooftop HVAC units where present. These tanks are all assumed to contain Freon. The size and quantity of tanks are estimated and recorded.

4. **INSPECTION RESULTS**

4.1 Asbestos Containing Materials

During the course of the building inspection fifty-two (52) bulk samples of suspect ACM were collected and forty-nine (49) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory. Additionally there was one (1) sample analyzed by the NOB TEM Method.

From the forty-nine (49) samples analyzed, the flue cement in room 002, the black caulk around the chimney and exhaust pipe on the root and the caulk around the pipe at the water tank and wall junction in room 003 were found to be ACM. The remaining suspect materials were confirmed to be non-ACM.

The summaries of asbestos and non-asbestos materials are presented in Tables I and II respectively. The asbestos analysis laboratory reports are provided in Appendix 2.

The NOB TEM analyses confirmed the 9"x9" grey floor tile to be non-asbestos.

Any suspect material not specifically identified in this report as non-ACM should be assumed to contain asbestos unless sample results prove otherwise.

All regulated friable and regulated non-friable ACM must be removed prior to demolition activities. A State of Connecticut Licensed Asbestos Abatement Contractor must be retained to perform the removal work. Visual inspections and air clearances must be performed within each abatement area at the completion of the abatement work. The visual inspections and air clearances must be performed by a State of Connecticut licensed Asbestos Project Monitor. The abatement areas must meet final visual and air clearance inspection criteria prior to building demolition. Re-occupancy air monitoring is not required if the building will not be re-entered by any person following abatement and prior to demolition. This includes but is not limited to entry for utility disconnects, salvage, equipment removal, etc. Where less than three (3) linear feet or three (3) square feet of ACM will be removed within a single room, spot repair procedures maybe utilized by the Asbestos Abatement Contractor. Visual inspections by the licensed Asbestos Project Monitor will still be required following spot repair removal procedures.

The Asbestos Abatement Contractor must submit a notice of asbestos abatement to the State of Connecticut Department of Public Health post marked or hand delivered ten (10) days prior to the commencement of any asbestos abatement activities involving the abatement of greater than ten (10) linear feet or twenty-five (25) square feet of asbestos-containing materials. The asbestos abatement notification satisfies the DPH regulatory requirements for demolition notification. For asbestos abatement projects involving less

than ten (10) linear feet or twenty-five (25) square feet of asbestos-containing materials or projects where no regulated asbestos-containing materials are identified, the facility owner or any person who will be conducting demolition must submit a demolition notification to the State of Connecticut Department of Public Health post marked or hand delivered ten (10) days prior to the commencement of demolition activities.

4.2 Lead-based Paint

4.2.1 X-Ray Fluorescence Screen

A total of seventy-six (76) XRF readings were collected during the lead-based paints screen of the building. From the seventy-six (76) readings, twenty-two (22) were found to contain high levels of lead.

The general inventory of surfaces containing high levels of lead include the following: exterior wood window components, exterior porch ceiling, interior sheetrock walls and ceilings, wood crown molding and wood chair rails.

Additionally, several building materials were determined to contain low levels of lead in paint. These materials include wood floors, wood baseboards, wood stair components, metal pipes, wood cabinets and wood window components. Although these levels of lead in paint were less than 1.0 mg/cm², the contractor must perform an exposure assessment on employees during tasks that disturb the painted materials.

The remaining components and surfaces that were tested contain no lead in their respective paint coatings.

The U.S. Department of Labor Occupation Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CFR 1926.62 Lead Exposure in Construction; Interim Final Rule. Currently, OSHA does not define a threshold level of lead in paint that may cause worker exposure. Any detectable level of lead in paint (>0.0 mg/cm² +/- 0.3 mg/cm² by XRF or >0.01 % by AAS) requires task specific exposure monitoring. This "initial exposure assessment" must be conducted by trained workers utilizing appropriate personal protective equipment. Exposure assessments must be conducted for each task where painted surfaces or components are disturbed.

Examples of task subject to initial monitoring when detectable levels of lead are identified include but are not limited to surface preparation for repainting, manual demolition of components with detectable levels of lead paint and the welding, cutting or grinding of steel with detectable levels of lead in paint.

A complete inventory of tested building materials is presented in Detailed Reports contained Appendix 3.

4.2.2 Lead Waste Characterization Results

One (1) composite TCLP sample was collected for waste characterization purposes. The waste stream and associated contribution to be generated during building demolition include: negative wood (78%) positive wood (1%), negative sheetrock (10%), positive sheetrock (6%), negative fiberboard (1%) and negative roofing (4%) that will be land filled as a result of demolition activities.

The result of the composite TCLP sample was 4.04 mg/L characterizing the whole building demolition waste stream as non-hazardous waste.

The TCLP laboratory reports and computation tables are provided in Appendix 4.

The waste characterization sampling and analysis confirmed that no hazardous lead waste will be generated as a result of demolition activities. The waste generated during demolition of the building may be disposed of as non-hazardous solid waste. Metal components may be recycled at an approved recycling facility.

4.3 Universal Waste Materials and Other Environmental Concerns

4.3.1 PCB and Di-ethylhexlpthalate (DEHP) Containing Items

There were no PCB containing lighting ballasts nor were there DEHP containing lighting ballasts present within the inspection site.

One (1) capacitor potentially containing dielectric fluid was identified within the inspection site. The capacitor associated with the refrigerator must be removed for proper recycling prior to building demolition.

One (1) electronic ballasts was identified. No further action is required for the electronic ballasts.

The associated inspection data is provided in Table III.

4.3.2 Mercury Containing Items

A total of approximately two (2) linear feet of fluorescent light tubes and one (1) round lamp were present within the inspection site. The fluorescent light tubes must be removed from the building for proper recycling prior to building demolition.

The associated inspection data is provided in Table III.

4.3.3 Used Electronics and Batteries

There were no emergency lights containing lead-acid batteries present within the inspection site.

The associated inspection data is provided in Table III.

4.3.4 Chlorofluorocarbons

A total of one (1) refrigerator containing a two (2) gallon Freon tank was identified within the inspection site. The Freon must be reclaimed from the tanks prior to building demolition/renovation.

The associated inspection data is provided in Table III.

5. COST ESTIMATES

This is a budgetary opinion of cost that is expected to be within -15 to + 30 percent of the actual cost. Eagle Environmental, Inc. has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor or Contractors' methods of determining prices, or over competitive bidding or market conditions. Eagle Environmental, Inc.'s opinion of probable cost of abatement are made on the basis of Eagle Environmental, Inc.'s experience and qualifications and represent Eagle Environmental, Inc.'s judgment as an experienced and qualified consultant familiar with the abatement industry; but Eagle Environmental, Inc. cannot and does not guarantee that proposals, bids or actual Total Project or Abatement Cost will not vary from opinions of probable cost prepared by Eagle Environmental, Inc. If, prior to the bidding or negotiating phase, the Owner wishes greater assurance as to Total Project or Abatement Cost, the Owner shall employ an independent cost estimator.

The cost estimates are provided in Appendix 5.

TABLE I

ASBESTOS CONTAINING MATERIALS SUMMARY TABLE

TABLEI	ASBESTOS CONTAINING MATERIALS	SUMMARY TABLE	1 ORCHARD TERRACE	NAUGATUCK, CONNECTICUT
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EOCATION(S)	MATERIAL TYPE	SAVPLE NUMBER	ENUMBER CATEGORY	BULKSAN	APLE ANA	VSIS RES TEM NOB	VULTS ACM	BULK SAMPLE ANALYSIS RESULTS ESTIMATED PLM PLM PC TEM NOB ACW OUANTITY	ł
		1-30-SD-15	דמו	50% Chrys			ATE O	다 다 다	þ
700	r lue cement	1-30-SD-16	ICI	DNA			I EO	JC I	4
Deef	Black caulk around	1-30-SD-47		10% Chrys			VEC	0 CE	, LIL
1001	chimney and pipe exhaust	1-30-SD-48	OCTIM	DNA			100	JC 0	. 111
600	Caulk around pipe at water tank	1-30-SD-49		3% Chrys			VES	1 CE	Ë
c00	and wall junction	1-30-SD-50	OCTIA	DNA			07T		
	Â.				ANALYTICAL METHODS	NLYTICAL N	METHODS		
DNA = DID NOT ANALYZE		SF = SQUARE FEET		PLM PC = EP	A 600/R-93/11	S QUANTITA	VIION 400	PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT	
NAD = NO ASBESTOS DETECTED	ETECTED	LF = LINEAR FEET		TEM NOB = NEW YORK ELAP 198.4 METHOD	EW YORK E	LAP 198.4 MJ	ETHOD		
$\mathbf{F} = \mathbf{F} \mathbf{K} \mathbf{I} \mathbf{A} \mathbf{B} \mathbf{L} \mathbf{E}$		Chrys = Chrysotile		PLM = EPA 600/R-93/116	00/R-93/116				
NF = NON-FRIABLE		Amos = Amosite		PS = Previously Sampled	y Sampled				
TSI = THERMAL SYSTEMS INSULATION		Anth = Anthophylite		$\mathbf{E}\mathbf{A} = \mathbf{E}\mathbf{a}\mathbf{c}\mathbf{h}$					
SURF = SURFACING MATERIAL		Trem = Tremolite							
MISC = MISCELLANEOUS MATERIAL		Croc = Crocidolite							
	BOLD	BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION	DLUMN INDICATE	S SAMPLE LOC	CATION				

TABLE II

NON-ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

TABLE II NON - ASBESTOS CONTAINING MATERIALS SUMMARY TABLE 1 ORCHARD TERRACE NAUGATUCK, CONNECTICUT

SAMPLE	MATERIAL TVPE	SAMPLE	CATECORV	BULK SAMPLE ANALYSIS RESULTS	YSIS RESULTS
LOCATION(S)		NUMBER		PLM PLM PC	TEM NOB ACM
001 004	Dener under herd word floor	1-30-SD-01		(TAD)	
+00 (TOU		1-30-SD-02	OCTIA	NAD	D _Z
001 002	Black mactic under 0"v0" floor tile	1-30-SD-03	USIM	NAD	
700 6100		1-30-SD-04		NAD	
001 003	0"v0" Grev floor tile	1-30-SD-05	MIRC	DAD	C F
200 6TD0 -		1-30-SD-06		DAD	
LUU	Comot adhaaiwa	1-30-SD-07	COLLA	NAD	< r
TAA	Carloci autosive	1-30-SD-08	OCTIVI	DAD	
903 006	Wall and cailing cheatrook	1-30-SD-09	VILOU	NAD	Civ.
		1-30-SD-10	COTTAT	(TAN)	
004 007	Wall and reiling ioint commund	1-30-SD-11	MIC	NAD	CIV.
100 (200	nundruos uno Suurs nun an M	1-30-SD-12	CITAT	UAD	
004 007	Wall and ceiling sheetrock/	1-30-SD-13	V TRO	NAD	CIA
100 6500	joint compound composite	1-30-SD-14	OCITAT	UAD CLAN	
cuu	Adhesive associated with	1-30-SD-17	VULGU	NAD	(F
700	brown cove base	1-30-SD-18	OCTIVI	NAD	
CUU	Rrouth Cotta haca	1-30-SD-19	JSIM	NAD	CIA
700	DIOWII COVE DASE	1-30-SD-20	OCHA	NAD	
003	A dhaciwa accoriatad with wall namar	1-30-SD-21	JSLIV	NAD	QIA
200	THIS ASSOCIATION WITH WALL PAPER	1-30-SD-22	OCTIVI	DAD CLAN	
003	Wellmanar	1-30-SD-23	JOIN	NAD	(L r
200	w all paper	1-30-SD-24	JOHN	NAD	NO
				A CONTRACTION OF A CALIFORNICAL METHODS	ETHODS
DNA = DID NOT ANALYZE NAD-NO ASBESTOS DETECTED		SF = SQUARE FEET		PLM PC = EPA 600/R-93/116 QUANTITIATION 400 POINT COUNT	ATION 400 POINT COUNT
$\mathbf{F} = \mathbf{F} \mathbf{R} \mathbf{I} \mathbf{A} \mathbf{B} \mathbf{L} \mathbf{E}$		LF - LUNEAU FEEL Chrvs = Chrvsotile		1 EM NOD - NEW TURN ELAF 1964 MELLIOU PV M = EPA 600/R-93/116	
NF = NON-FRIABLE		Amos = Amosite		PS = Previously Sampled	
TSI = THERMAL SYSTEMS INSULATION		Anth = Anthophylite		EA = Each	
SURF = SURFACING MATERIAL MISC - MISCELL ANEMIS MATERIAL	, 6014Т	Trem = Tremolite			
MISU = MISUERITANEO		Croc = Crociaolite			
	BOLD TEXT IN	BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION	AN INDICATES SA	MPLE LOCATION	

\\Eaglesvr\public\2014 Files\2014 Reports\Naugatuck, Borough of\1 Orchard Terrace\1 Orchard Terr - Table II.xls TII-1

TABLE II NON - ASBESTOS CONTAINING MATERIALS SUMMARY TABLE 1 ORCHARD TERRACE NAUGATUCK, CONNECTICUT

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	TSI = THERMAL SYSTE	MS INSULATION	Anth = Anthophylite		EA = Each	mbren		
	SURF = SURFACING M/	ATERIAL	Trem = Tremolite					
BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION	MISC = MISCELLANEO		Croc = Crocidolite					
		BOLD TEXT IN	N "LOCATION" COLU	MN INDICATES SA	MPLE LOCATION			

Non-ACMSummaryTable.xls

TABLE III

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UNIVERSAL WASTE MATERIALS SUMMARY TABLE

TABLE III UNIVERSAL WASTE PRODUCTS SUMMARY TABLE 1 ORCHARD TERRACE NAUGATUCK, CONNECTICUT

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TROOM TELEVIDIR	003	007	N XO I O I I		KEYS	FIXTURE TYPE	DESCRIPTION	

APPENDIX 1

FLOOR PLANS AND ROOF PLANS

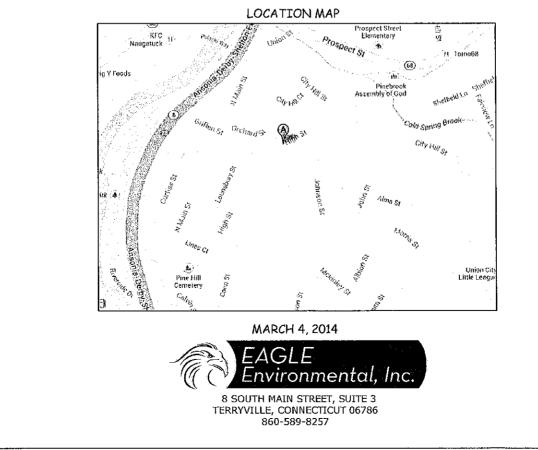
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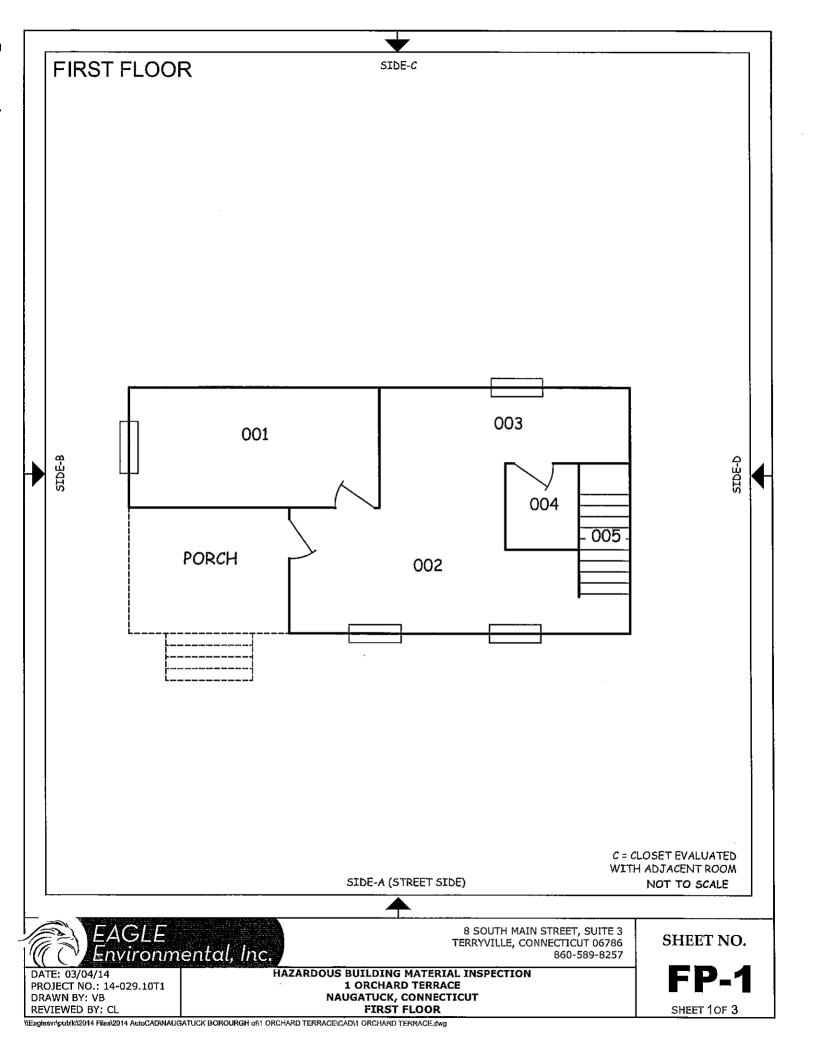
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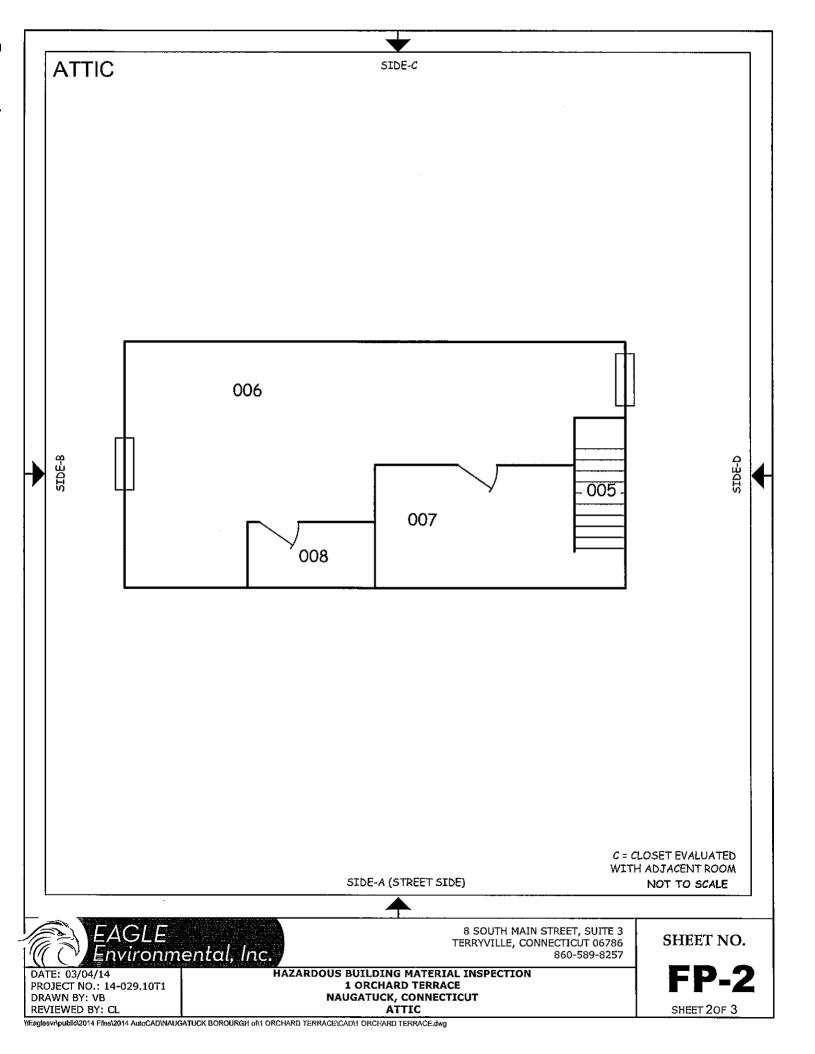
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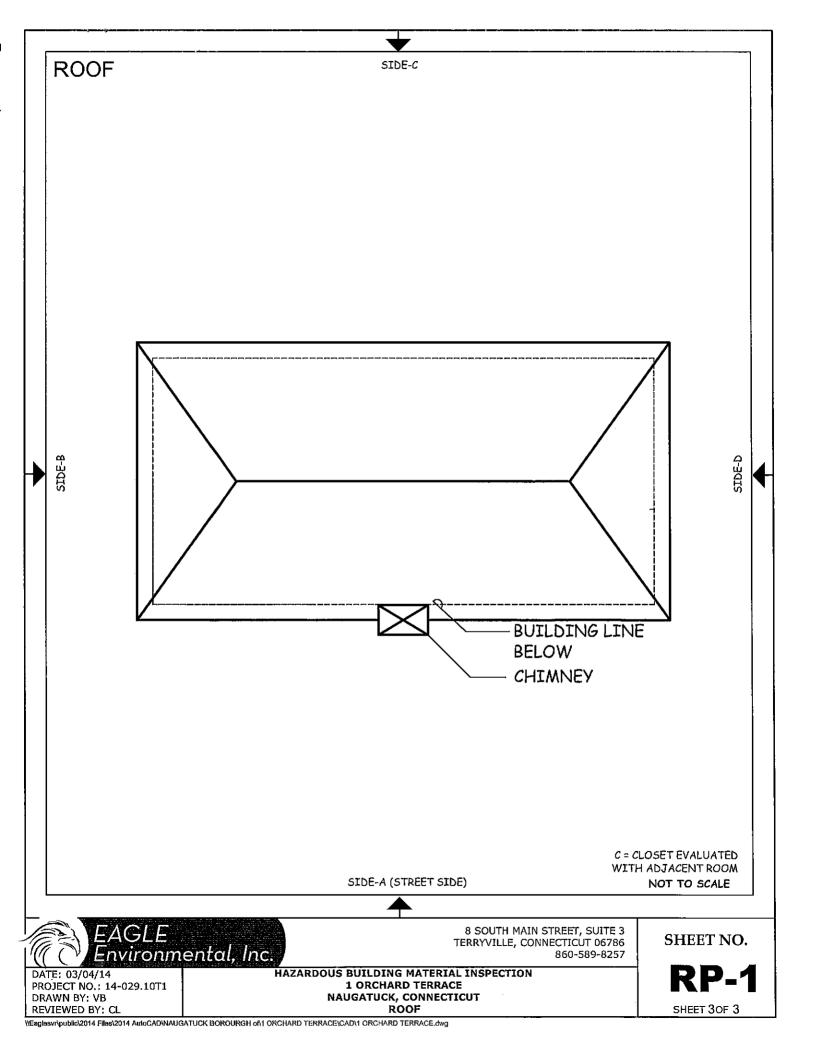
FP-1 FIRST FLOOR FP-2 ATTIC RP-1 ROOF



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APPENDIX 2

I

ASBESTOS BULK SAMPLE LABORATORY REPORTS

orderID: 031404279)		r	
	MSL – MA Constitution Way, Ste 107 Voburn, MA 01801 781) 933-8411 781) 933-8412 Fax	EMSL – CT 29 N. Plains Hwy, Unit 4 Wallingford, CT 06492 (203) 284-5948 (203) 284-5978 Fax	EMSL – NY 307 West 38 th Street New York, NY 10018 (866) 448-3675 (212) 290-0058 Fax	EMSL – NJ 107 Haddon Avenue Westmont, NJ 08108 (800) 220-3675 (856) 858-4960 Fax
Your Name:	Brandy LeBlanc		Project Manager: C	1 02140427
Company:	Eagle Environmental, Inc.	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩		
Street:	8 South Main Street, Suite 3	<u>. En franza, hernander for de Long for en de Long d</u>	анканканийн таалаан араасаан араан алаан араан ар ,	
City/State/Zip:	Terryville, CT 06786	a a a anny ¹ a a ann an ann an ann an ann ann ann a	1947 - 1977 -	, , , , , , , , , , , , , , , , , , ,
Phone:	860-589-8257 ext. 203	Fax: 860-585-7034 Em	ail: bleblanc@eagleenviro.com	
Project Name	BOROUGH OF NAUGATUCK	Pro	bject #: 14-029.10T1	, <u>Tabon Webbise Handadan</u>
Project Location	: 1 ORCHARD TERRACE, NAU		Project State (US):	C
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		SAMPLE MATRIX	17. 147 - 1 Person 1	
			nking Water 🗆 Wastewater	Chips Other
ASBESTOS ANA	LYSIS	LEAD ANALYSIS	MICRO	BIAL ANALYSIS
PCM - Air NIOSH 7400 (A) Issue OSHA W/TWA TEM AIR AHERA 40 CFR, Part NIOSH 7402 Issue 2 EPA Level II PLM - Bulk Ø EPA 600/R-93/116 NY Stratified Point Coul Catifornia Air Resource NIOSH 9002 PLM NOB (Gravimetric EPA Point Count (1,000 Standard Addition Point SOILS EPA Protocol Qualitative EPA Protocol Qualitative Chatfield SOP-1988-02 TEM NOB (Gravimetric TEM NOB (Gravimetric CHM BULK Drop Mount (Qualitative Chatfield SOP-1988-02 TEM NOB (Gravimetric TEM MOB (Gravimetric	763 Subpart E int Board (CARB) 435) NYS 198.1 Points) 0 Points) it Count /e tive ood fibers/gram)97-028 (dust generation) e))) NY 198.4 intitative)	Flame Atomic Absorption Wipe, SW846-7420 Air, NIOSH 7082 Chips, SW846-7420 or AOAC 5.009 Wastewater, SW 846-7420 TCLP LEAD SW846-7420 TCLP LEAD SW846-7420 Graphite Furnace Atomic Absorpt Air, NIOSH 7105 Wastewater, SW846-7421 Soit, SW846-7421 Drinking Water, EPA 239.2 ICP - Inductively Coupled Plasma Wipe, SW846-6010 Air, NIOSH 7300 MATERIALS ANALYSIS Full Particle Identification Optical Particle Identification Optical Particle Identification Optical Particle Identification Particle Size & Distribution Product Comparison Particle Size & Distribution Product Comparison Paticle Size & Containment Study Petrographic Examination of Concreil Portiand Cement in Workplace Atmo (OSHA ID-143) Man Made Vitrous Fibers - MMVFis Synthetic Fiber Identification Other:	(974.02) Bacteria Bacteria Water Sa Total C Escher Legion Salmor Giardia Wipe and Mold & Mold & Bacteria Mold & Bacteria Mold & Bacteria Giardia Wipe and Mold & Bacteria Bacteria Giardia Mold & Bacteria Bacteria Giardia Mold & Bacteria Bacteria Bacteria Giardia Mold & Bacteria Bacteria Bacteria Giardia Mold & Bacteria Bacteria Giardia Bacteria Giardia Bacteria Carbon Sillica A HVAC	Fungi by Air O Cell Fungi by Agar Plate count & id I Count and Gram Stain I Count and Identification <u>mples</u> Oliforms, Fecal Coliforms chia Coli, Fecal Streptococcus alla iella and Cryptosporidium <u>Bulk Samples</u> Fungi – Direct Examination Fungi – Culture follow up to rect examination if necessary) Fungi – Culture (Count & ID) Fungi – Culture (Count & ID) Fungi – Culture (Count & ID) Fungi – Culture (Count only) al Count & Gram Stain al Count & Identification .prominent types) IAL YSIS cerDust (NIOSH 0500 & 0600) e Dust (PMIO, TSP) .nalysis by XRD [] Niosh 7500 Efficiency Black e Oli Mist
Additional Information	/Comments/Instructions:**P	LEASE STOP ON 1ST P	OSITIVE WITHIN SE	IS Prop
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EMSL – MA 7 Constitution Woburn, MA 0 (781) 933-841 (781) 933-841	1801 1	EMSL 29 N. F Walling (203) 2 (203) 2
R	SAMPLE DESCI	RIPTION

- CT Plains Hwy, Unit 4 gford, CT 06492 284-5948 284-5978 Fax

EMSL – NY 307 West 38th Street New York, NY 10018 (866) 448-3675 (212) 290-0058 Fax

EMSL -- NJ 107 Haddon Avenue Westmont, NJ 08108 (800) 220-3675 (856) 858-4960 Fax

www.emsl.com	(781) 933-84 2 Fax (203) 284-59/8 F	9X (545) 540-00	<u> </u>	1404274
SAMPLE NUMBE	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME Air (L)	Area (Inches sq.)
1-30-SD-01	Paper under hard wood floor	001		NAD
4 1-30-SD-02	Paper under hard wood floor	004		
1-30-SD-03	Black mastic under 9"x9" fibor tile	001		
1-30-SD-04	Black mastic under 9"x9" floor tile	002		
1-30-SD-05	9"x9" Grey floor tile	001		
1-30-SD-06	9"x9" Grey floor tile	003		
1-30-SD-07	Carpet adhesive	001		
1-30-SD-08	Carpet adhesive	001		
1-30-SD-09	Wall and celling sheetrock	003		
1-30-SD-10	Wall and celling sheetrock	006		
1-30-SD-11	Wall and ceiling joint compound	004		
1-30-SD-12	Wall and ceiling joint compound	007		
1-30-SD-13	Wall and ceiling sheetrock/joint compound composit	004	-	
(1-30-SD-14	Wall and ceiling sheetrock/joint compound composit	007		
1-30-SD-15	Flue cement	002		5090 CWAR
1-30-SD-16	Flue coment	002		DNAT
1-30-SD-17	Adhesive associated with brown cove base	002		NAD
1-30-SD-18	Adhesive associated with brown cove base	002		
1-30-SD-19	Brown cove base	002		
► 1-30-SD-20	Brown cove base	002		
1-30-SD-21	Adhesive associated with wall paper	003		
1-30-SD-22	Adhesive associated with wall paper	003		
1-30-SD-23	Wall paper	003		
1-30-SD-24	Wall paper	003		∇V
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Elinty	Myuta 5.14 gitts			ζα p. 2000 2/14
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						0.	311	1648	270
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(-1-30-SD-2	A	dhesive associated v	vith wall paper		004				1
1-30-SD-2	7	Wall pape	ər		004		-		
1-30-SD-2	}	Wall pape	и И		004		**************************************		
1-30-SD-2)	Carpet adhe	sive		005				
2 1-30-SD-3)	Carpet adhe	sive		005			*****	
1-30-SD-3	A	dhesive associated v	with wall panel		005			****	
(人) 1-30-SD-3	2	dhesive associated v	vith wall panel		002				
1-30-SD-3		sive associated with							ł
1-30-SD-3	1	sive associated with			007				
1-30-SD-3		Linoleum floc			006	No providence (Second			
1-30-SD-3		Linoleum floo			008			-#	-
1-30-SD-3		Black paper inside wall wood			FacadeA				
5 1-30-SD-3	17,7 m 17	Black paper inside		• (CAN) ****(CAN)	FacadeA				
X 1-30-SD-3		Window car	ılk		FacadeB				
1-30-SD-4		Window car	()	aingeriiki airredarre	FacadeD				
X 1-30-SD-4	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	Window glazing c	smpound		ncadeA				
4 1-30-SD-4		Window glazing co	ompound	F	- acadeC				
1-30-SD-43		Black shingle to	p layer		Roof				-
1-30-SD-4		Black shingle to	pilayer		Roof				
1-30-SD-4	**********	Red shingle botto	om løyer	ð	Roof				
1-30-SD-46		Red shingle botto	m layer		Roof				/
1-30-SD-47	Black c	aulk around chimney	and pipe exhaust		Roof		ľ	1021	- WAI
4 1-30-SD-48	Black c	aulk around chimney	and pipe exhaust	1949-9-12-12-9-14-14-14-14-14-14-14-14-14-14-14-14-14-	Roof	****		TAC.	$A^{\mu\nu}$
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			031	46427
SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME AIr (L)	Area (Inches sq.)
6-1-30-SD-49	Caulk around pipe	003		370 Chry
1-30-SD-50	Gaulk around pipe	003		DONA
/ 1-30-SD-51	White caulk behind wood panels	002		CAU
1-30-SD-52	White caulk behind wood panels	.002		MAD
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Attn:	Brandy LeBlanc	Phone:	(860) 589-8257
	Eagle Environmental, Inc CT	Fax:	(860) 585-7034
	8 South Main Street	Received:	02/01/14 12:15 PM
		Analysis Date:	2/5/2014
	Suite 3	Collected:	1/31/2014
	Terryville, CT 06786		
Proio	et - 14.020 10T1/ BOROUGH OF NAUGATUK/ 1 ORCHARD TERR/		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				Non-Ast	Asbestos	
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
1-30-SD-01	PAPER UNDER	Brown	90%	Cellulose	10% Non-fibrous (other)	None Detected
031404279-0001	HARD WOOD FLOOR	Fibrous Homogeneous				
1-30-SD-02	PAPER UNDER	Gray	95%	Cellulose	5% Non-fibrous (other)	None Detected
031404279-0002	HARD WOOD FLOOR	Non-Fibrous Heterogeneous				
1-30-SD-03	BLACK MASTIC	Black	35%	Cellulose	65% Non-fibrous (other)	None Detected
031404279-0003	UNDER 9"X9" FLOOR TILE	Fibrous Homogeneous				
1-30-SD-04	BLACK MASTIC	Black	25%	Cellulose	70% Matrix	None Detected
031404279-0004	UNDER 9"X9" FLOOR TILE	Fibrous Heterogeneous			5% Non-fibrous (other)	
1-30-SD-05	9"X9" GREY	Gray			100% Non-fibrous (other)	None Detected
031404279-0005	FLOOR TILE	Non-Fibrous Homogeneous				
1-30-SD-06	9"X9" GREY	Tan			30% Ca Carbonate	None Detected
031404279-0006	FLOOR TILE	Non-Fibrous			70% Matrix	
		Homogeneous			0% Non-fibrous (other)	
1-30-SD-07	CARPET	Brown			100% Non-fibrous (other)	None Detected
031404279-0007	ADHESIVE	Non-Fibrous Homogeneous				
1-30-SD-08	CARPET	Brown	30%	Cellulose	70% Matrix	None Detected
031404279-0008	ADHESIVE	Non-Fibrous Heterogeneous			0% Non-fibrous (other)	

Analyst(s)

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James Hall, Laboratory Manager or other approved signatory

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EMSL Order: CustomerID: CustomerPO: ProjectID: 031404279 EEVM50

Attn:	Brandy LeBlanc Eagle Environmental, Inc CT 8 South Main Street Suite 3 Terryville, CT 06786	Phone: Fax: Received: Analysis Date: Collected:	(860) 589-8257 (860) 585-7034 02/01/14 12:15 PM 2/5/2014 1/31/2014	
Proie	ct: 14-029-10T1/ BOROUGH OF NAUGATUK/ 1 ORCHAR	D TERRACE NAUGATUCK		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				<u>Non-As</u> l	Asbestos	
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
1-30-SD-09	WALL AND	Brown/Gray	12%	Celluíose	65% Gypsum	None Detected
031404279-0009	CEILING SHEETROCK	Fibrous Homogeneous	2%	Glass	21% Non-fibrous (other)	
1-30-SD-10	WALL AND	Brown/Gray	10%	Cellulose	55% Gypsum	None Detected
031404279-0010	CEILING SHEETROCK	Fibrous Heterogeneous			35% Non-fibrous (other)	
1-30-SD-11	WALL AND	Brown/Gray	12%	Cellulose	45% Gypsum	None Detected
031404279-0011	CEILING JOINT COMPOUND	Fibrous Homogeneous			43% Non-fibrous (other)	
1-30-SD-12	WALL AND	White			60% Ca Carbonate	None Detected
031404279-0012	CEILING JOINT COMPOUND	Non-Fibrous Heterogeneous			40% Non-fibrous (other)	
			inseparabl	e paint / coating laye	included in analysis	<u></u>
1-30-SD-13	WALL AND	Brown/Gray	12%	Cellulose	55% Gypsum	None Detected
031404279-0013	CEILING SHEETROCK/ JOINT COMPOUND - COMPOSITE	Fibrous Homogeneous			33% Non-fibrous (other)	
1-30-SD-14	WALL AND	Brown/Gray/White	10%	Cellulose	55% Gypsum	None Detected
031404279-0014	CEILING SHEETROCK/	Fibrous			35% Ca Carbonate	
	JOINT COMPOUND - COMPOSITE	Heterogeneous			0% Non-fibrous (other)	
1-30-SD-15	FLUE CEMENT	Gray			50% Non-fibrous (other)	50% Chrysotile
031404279-0015		Non-Fibrous Homogeneous				-

Analyst(s)

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EMSL Order: CustomerID: CustomerPO: ProjectID:

031404279

EEVM50

Attn:	Brandy LeBlanc Eagle Environmental, Inc CT 8 South Main Street Suite 3 Terryville, CT 06786	Phone: Fax: Received: Analysis Date: Collected:	(860) 589-8257 (860) 585-7034 02/01/14 12:15 PM 2/5/2014 1/31/2014	
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Project: 14-029.10T1/ BOROUGH OF NAUGATUK/ 1 ORCHARD TERRACE NAUGATUCK

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				Asbestos			
Sample Description Appearance		Appearance	nce % Fibrous % Non-Fibrous			n-Fibrous	% Type
1-30-SD-16	FLUE CEMENT						Stop Positive (Not Analyzed)
031404279-0016							
1-30-SD-17	ADHESIVE	Brown			100%	Non-fibrous (other)	None Detected
031404279-0017	ASSOCIATED WITH WALL PAPER	Non-Fibrous Homogeneous					
1-30-SD-18	ADHESIVE	Brown			95%	Matrix	None Detected
031404279-0018	ASSOCIATED WITH WALL PAPER	Non-Fibrous Homogeneous			5%	Non-fibrous (other)	
1-30-SD-19	WALL PAPER	Brown			100%	Non-fibrous (other)	None Detected
031404279-0019		Non-Fibrous Homogeneous			-		
1-30-SD-20	WALL PAPER	Brown			30%	Ca Carbonate	None Detected
031404279-0020		Non-Fibrous Homogeneous			70%	Non-fibrous (other)	
1-30-SD-21	ADHESIVE	Green			5%	Ca Carbonate	None Detected
031404279-0021	ASSOCIATED WITH WALL PAPER	Non-Fibrous Homogeneous			95%	Non-fibrous (other)	
1-30-SD-22	ADHESIVE	Yellow/Green			25%	Ca Carbonate	None Detected
031404279-0022	ASSOCIATED WITH WALL	Non-Fibrous			45%	Matrix	
	PAPER	Heterogeneous			30%	Non-fibrous (other)	
1-30-SD-23	WALL PAPER	Various/Green			100%	Non-fibrous (other)	None Detected
031404279-0023		Fibrous Homogeneous					

Analyst(s)

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11508, NJ NY022, CT PH-0170, MA AA000170



EMSL Order: CustomerID: CustomerPO: ProjectID: 031404279

EEVM50

Attn:	Brandy LeBlanc Eagle Environmental, Inc CT 8 South Main Street Suite 3 Terryville, CT 06786	Phone: Fax: Received: Analysis Date: Collected:	(860) 589-8257 (860) 585-7034 02/01/14 12:15 PM 2/5/2014 1/31/2014	
Proje	ct: 14-029.10T1/ BOROUGH OF NAUGATUK/ 1 ORCHAF	RD TERRACE NAUGATUCK		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				Non-As	<u>bestos</u>	Asbestos
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Түрө
1-30-SD-24	WALL PAPER	Brown/Blue	85%	Cellulose	15% Non-fibrous (other)	None Detected
031404279-0024		Fibrous Heterogeneous				
1-30-SD-25	CARPET	Various	4%	Cellulose	96% Non-fibrous (other)	None Detected
031404279-0025	ADHESIVE	Non-Fibrous Homogeneous				
1-30-SD-26	CARPET	Blue/Yellow	5%	Cellulose	25% Ca Carbonate	None Detected
031404279-0026	ADHESIVE	Non-Fibrous			45% Matrix	
		Homogeneous			25% Non-fibrous (other)	
1-30-SD-27	WALL PAPER	Various Non-Fibrous			100% Non-fibrous (other)	None Detected
031404279-0027		Homogeneous				
1-30-SD-28	WALL PAPER	White/Blue/Green	85%	Cellulose	15% Non-fibrous (other)	None Detected
031404279-0028		Fibrous Heterogeneous				
1-30-SD-29	CARPET	Brown	8%	Cellulose	92% Non-fibrous (other)	None Detected
031404279-0029	ADHESIVE	Non-Fibrous Homogeneous				
1-30-SD-30	CARPET	Brown/Yellow			65% Matrix	None Detected
031404279-0030	ADHESIVE	Non-Fibrous Heterogeneous			35% Non-fibrous (other)	
1-30-SD-31	ADHESIVE	Yellow			100% Non-fibrous (other)	None Detected
031404279-0031	ASSOCIATED WITH WALL PANEL	Non-Fibrous Homogeneous				

Analyst(s)

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EMSL Order: CustomerID: CustomerPO: ProjectID: 031404279 EEVM50

Attn:	Brandy LeBlanc	Phone:	(860) 589-8257	_
	Eagle Environmental, Inc CT	Fax:	(860) 585-7034	
	8 South Main Street	Received:	02/01/14 12:15 PM	
		Analysis Date:	2/5/2014	
	Suite 3	Collected:	1/31/2014	
	Terryville, CT 06786			
Proie		PRACE NALIGATION		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				Non-Asi	oestos	Asbestos
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
1-30-SD-32	ADHESIVE	Tan			85% Matrix	None Detected
031404279-0032	ASSOCIATED WITH WALL PANEL	Non-Fibrous Homogeneous			15% Non-fibrous (other)	
1-30-SD-33	ADHESIVE	Brown			100% Non-fibrous (other)	None Detected
031404279-0033	ASSOCIATED WITH LINOLEUM FLOORING	Non-Fibrous Homogeneous				
1-30-SD-34	ADHESIVE	Gray	12%	Cellulose	80% Matrix	None Detected
031404279-0034	ASSOCIATED WITH LINOLEUM FLOORING	Non-Fibrous Homogeneous			8% Non-fibrous (other)	
1-30-SD-35	LINOLEUM	Black	35%	Cellulose	65% Non-fibrous (other)	None Detected
031404279-0035	FLOORING	Non-Fibrous Homogeneous				
1-30-SD-36	LINOLEUM	Gray/Black	45%	Cellulose	40% Matrix	None Detected
031404279-0036	FLOORING	Fibrous Heterogeneous			15% Non-fibrous (other)	
1-30-SD-37	BLACK PAPER	Black	10%	Cellulose	90% Non-fibrous (other)	None Detected
031404279-0037	INSIDE WALL WOOD	Non-Fibrous Homogeneous				
1-30-SD-38	BLACK PAPER	Black	65%	Cellulose	35% Non-fibrous (other)	None Detected
031404279-0038	INSIDE WALL WOOD	Fibrous Heterogeneous				
1-30-SD-39	WINDOW CAULK	White			30% Ca Carbonate	None Detected
031404279-0039		Non-Fibrous Homogeneous			70% Non-fibrous (other)	

Analyst(s)

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA00D170



EMSL Order: CustomerID: CustomerPO: ProjectID:

031404279 EEVM50

Attn:	Brandy LeBlanc	Phone:	(860) 589-8257
	Eagle Environmental, Inc CT	Fax:	(860) 585-7034
	8 South Main Street	Received:	02/01/14 12:15 PM
	Suite 3	Analysis Date:	2/5/2014
	Terryville, CT 06786	Collected:	1/31/2014
Proje			

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				Non-Asbestos				Asbestos	
Sample	Description	Appearance	% 1	Fibrous	% No	n-Fibrous	%	Туре	
1-30-SD-40	WINDOW CAULK	Gray			30%	Ca Carbonate		None Detected	
031404279-0040		Non-Fibrous Homogeneous			70%	Non-fibrous (other)			
1-30-SD-41	WINDOW	Gray			30%	Ca Carbonate		None Detected	
031404279-0041	glazing Compound	Non-Fibrous Homogeneous			70%	Non-fibrous (other)			
1-30-SD-42	WINDOW	Gray			35%	Ca Carbonate		None Detected	
031404279-0042	glazing Compound	Non-Fibrous Homogeneous			65%	Non-fibrous (other)			
1-30-SD-43	BLACK SHINGLE	Black			25%	Matrix		None Detected	
031404279-0043	TOP LAYER	Non-Fibrous Homogeneous			75%	Non-fibrous (other)			
1-30-SD-44	BLACK SHINGLE	Black	25%	Cellulose	65%	Matrix		None Detected	
031404279-0044	TOP LAYER	Fibrous Homogeneous			10%	Non-fibrous (other)			
1-30-SD-45	RED SHINGLE	Red/Black			100%	Non-fibrous (other)		None Detected	
031404279-0045	BOTTOM LAYER	Non-Fibrous Homogeneous							
1-30-SD-46	RED SHINGLE	Black	20%	Cellulose	25%	Ca Carbonate		None Detected	
031404279-0046	BOTTOM LAYER	Fibrous			30%	Matrix			
		Heterogeneous			25%	Non-fibrous (other)			
1-30-SD-47	BLACK CAULK	Black			90%	Non-fibrous (other)	10%	Chrysotile	
031404279-0047	AROUND CHIMNEY AND PIPE EXHAUST	Non-Fibrous Homogeneous							

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Terryville, CT 06786

Attn:

EMSL Analytical, Inc. 307 West 38th Street, New York, NY 10018 Phone/Fax: (212) 290-0051 / (212) 290-0058 http://www.EMSL.com manhattenlab@emsl.com EMSL Order: 031404279 CustomerID: EEVM50 CustomerPO: ProjectID:

1/31/2014

Collected:

Project: 14-029.10T1/ BOROUGH OF NAUGATUK/ 1 ORCHARD TERRACE NAUGATUCK

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				<u>Non-A</u>	sbestos	Asbestos
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
1-30-SD-48 031404279-0048	BLACK CAULK AROUND CHIMNEY AND PIPE EXHAUST					Stop Positive (Not Analyzed)
1-30-SD-49 031404279-0049	CAULK AROUND PIPE	Tan/Blue Non-Fibrous Homogeneous			97% Non-fibrous (other)	3% Chrysotile
1-30-SD-50 031404279-0050	CAULK AROUND PIPE					Stop Positive (Not Analyzed)
1-30-SD-51 031404279-0051	WHITE CAULK BEHIND WOOD PANELS	Tan/White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
1-30-SD-52 031404279-0052	WHITE CAULK BEHIND WOOD PANELS	Gray Non-Fibrous Homogeneous			15% Quartz 20% Ca Carbonate 65% Non-fibrous (other)	None Detected

Analyst(s)

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Initial report from 02/05/2014 11:07:45

7



EAGLE ENVIRONMENTAL, INC.

EAGLE PROJECT NAME: BOROUGH OF NAUGATUCK - PRE-DEMO HAZ

PROJECT LOCATION: 1 ORCHARD TERRACE, NAUGATUCK, CONNECTICUT

PROJECT NUMBER: 14-029.10T1

LAB REFERENCE NUMBER: 031404279

TEM NOB Sample Request Form

SAMPLE NO.	LOCATION	MATERIAL TYPE	% ASBESTOS
1-30-SD-05	001	9"x9" Grey floor tile	

TEST METHOD. TEM ELAP 198.4 METHOD

TURNAROUND TIME: 24 HOURS

Special Instructions: <u>Stop on first positive for each set of samples</u>. <u>Please do not separate samples</u>. <u>Do not fax chain of custody</u>.

Special Instructions: <u>Please e-mail results to:</u> bleblanc@eagleenviro.com; tfoster@eagleenviro.com; dwynne@eagleenviro.com; rsioch@eagleenviro.com

Samples Collected By:	SOULEYMANE DOUMBIA	Date:	1-30-14	Time:	PM
Request Emailed By:	RENEE SIOCH	Date:	2-17-14	Time:	PM
Request Received By:		Date:		Time:	

****Please sign this chain of custody for our records. Thank You!

8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786 PHONE (860) 589-8257 • FAX (860) 585-7034

\leagle-server\public\FORMS\CHAIN OF CUSTODY\Asbestos COC\TEM NOB Sample Log.doc

APPENDIX 3

I

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XRF LEAD-BASED PAINT INSPECTION REPORTS

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01364 - 01/30/14 09:23

INSPECTION FOR: Mr. James R. Stewart Borough of Naugatuck, CT 246 Rubber Avenue Naugatuck, CT 06770

PERFORMED AT: Cottage **1 Orchard Terrace** Naugatuck, CT 06770

INSPECTION DATE: 01/30/14

INSTRUMENT TYPE: RMD MODEL LPA-1 XRF TYPE ANALYZER Serial Number: 01364

ACTION LEVEL: 1.0 ma/cm²

OPERATOR LICENSE: 002250

Lead-based paint screen inspection for Cottage of 1 Orchard Terrace Naugatuck, CT 06770.

SIGNED: Eltwaun Lawence Date: 1-30-14

Eltwaun Lawrence Lead Inspector / Risk Assessor Eagle Environmental, Inc. 8 South Main Street, Suite 3 Terryville, CT 06786

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. James R. Stewart

Inspection Date: Report Date: Abatement Level: Report No. Total Readings: Job Started: Job Finished: 01/30/14 1/30/2014 1.0 S#01364 - 01/30/14 09:23 76 Actionable: 22 01/30/14 09:23 01/30/14 11:24 Cottage 1 Orchard Terrace Naugatuck, CT 06770

Readin		.	•		Paint			Lead	
No.	Wall	Structure	Location	Member	Cond	Substrate	Color	(mg/cm²)	Mode
Exte	cior R	oom 002 Porch							
068	-	Ceiling	Ctr		P	Wainscot	white	7.2	QМ
Exte	cior R	oom 004 Facade	A						
071	А	Window	Rgt	Jamb	P	Wood	yellow	2.8	QМ
072	А	Window	Rgt	Blind Stop	Р	Wood	yellow	6.6	QМ
073	A	Window	Rgt	Well	P	Wood	- white	8.5	QМ
070	A	Window	Rgt	Part. bead	Р	Wood	yellow	9.0	QМ
Inter	rior R	com 001 Bedroo	m 1						
005	-	Crown Mldg	Ctr		I	Wood	white	5.0	QМ
004	-	Ceiling	Ctr		Р	Sheetrock	white	7.1	QM
006	A	Wall	Rgt		I	Sheetrock	green	1.6	QM
007	С	Wall	Ctr		Р	Sheetrock	green	2.4	QМ
Inter	rior R	oom 002 Living	Room						
030	-	Crown Mldg	Ctr		Р	Wood	green	2,5	QM
016	-	Ceiling	Ctr		P	Sheetrock	white	2.4	QМ
029	-	Ceiling	Ctr	Support	P	Wood	white	3.4	QМ
018	А	Chair Rail	Ctr		I	Wood	white	4.7	QM
017	A	Wall	U Ctr		P	Sheetrock	green	2.3	QM
020	D	Chair Rail	Ctr		P	Wood	white	6.4	QМ
019	D	Wall	U Ctr		P	Sheetrock	green	4.7	QМ
027	D	Window	Rgt	Sash	Р	Wood	white	2.2	QM
Inte	rior R	oom 003 Kitche	n						
032	-	Crown Mldg	Ctr		Р	Wood	green	2.6	QM
031	-	Ceiling	Ctr		P	Sheetrock	green	2.8	QM
033	A	Wall	Ctr		P	Sheetrock	green	1.8	QМ
034	С	Wall	Ctr		P	Sheetrock	green	2.5	QM
Inter	rior R	oom 004 Bathro	om	····					<u> </u>
043	С	Wall	Ctr		P	Sheetrock	beige	1.6	QМ

Calibration Readings

Exterior Room 999

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. James R. Stewart

01/30/14
1/30/2014
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01/30/14 09:23
01/30/14 11:24

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Cottage 1 Orchard Terrace Naugatuck, CT 06770

eadin	g				Paint			Lead	
No.	Wall	Structure	Location	Member	Cond	Substrate	Color	(mg/cm²)	Mode
Exter	rior R	oom 001 Facade	D			·			
067	D	Wall	Ctr		I	Clapboard	blue	0.2	QМ
Exter	rior R	com 002 Porch							
068	-	Ceiling	Ctr		P	Wainscot	white	7.2	QМ
Exter	rior R	oom 003 Facade	В				-		
069	в	Wall	F r-L		I	Clapboard	blue	0.2	QМ
Exter	rior R	oom 004 Facade	A	,					<u>. </u>
071	A	Window	Rgt	Jamb	₽	Wood	yellow	2.8	QМ
072	A	Window	Rgt	Blind Stop	P	Wood	yellow	6.6	QM
073	A	Window	Rgt	Well	P	Wood	white	8.5	QМ
070	A	Window	Rgt	Part. bead	₽	Wood	yellow	9.0	QМ
Inter	rior R	oom 001 Bedroo	n 1	<u> </u>					
005	-	Crown Mldg	Ctr		I	Wood	white	5.0	QM
015	-	Floor	Ctr		I	Wood	brown	0.4	QM
004	-	Ceiling	Ctr		P	Sheetrock	white	7.1	QM
006	A	Wall	Rgt		I	Sheetrock	green	1.6	QМ
011	A	Window	Ctr	Mullin	I	Wood	white	0.1	QM
014	Α	Window	Ctr	Stop	I	Wood	white	0.0	QМ
013	A	Window	Ctr	Sash	I	Wood	white	0.1	QМ
012	A	Window	Ctr	Sill	I	Wood	white	0.0	QM
010	в	Baseboard	Ctr		Ι	Wood	green	0.3	QМ
007	С	Wall	Ctr		P	Sheetrock	green	2.4	QM
800	С	Ceiling	Ctr	Support	P	Wood	white	0.2	QМ
009	D	Door	Lft	Casing	P	Wood	white	0.1	QМ
Inter	rior R	oom 002 Living	Room						
030	-	Crown Mldg	Ctr		P	Wood	green	2.5	QМ
016	-	Ceiling	Ctr		P	Sheetrock	white	2.4	QМ
029	-	Ceiling	Ctr	Support	P	Wood	white	3,4	QM
018	А	Chair Rail	Ctr		I	Wood	white	4.7	QM
017	A	Wall	U Ctr		P	Sheetrock	green	2.3	QМ
021	A	Door	Rgt	Casing	P	Wood	white	0,0	QМ
022	A	Door	Rgt		P	Wood	white	0.1	QM
023	A	Door	Rgt	Jamb	P	Wood	white	0.0	QМ
024	A	Door	Rgt	Stop	P	Wood	white	-0.3	QМ
020	D	Chair Rail	Ctr		P	Wood	white	6.4	QM
019	D	Wall	U Ctr		P	Sheetrock	green	4.7	QМ
025	D	Window	Rgt	Casing	Ι	Wood	white	0.2	QМ

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. James R. Stewart

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leadin		Ofmant		• •	Paint	.	. .	Lead	
No.	Wall	Structure	Location	Member	Cond	Substrate	Color	(mg/cm²)	Mode
028	D	Window	Rgt	Stop	I	Wood	white	0.2	QМ
027	D	Window	Rgt	Sash	P	Wood	white	2.2	QM
026	D	Window	Rgt	Sill	I	Wood	white	0.4	QM
Inte	rior R	oom 003 Kitchen							
032	-	Crown Mldg	Ctr		Р	Wood	green	2.6	QM
031	-	Ceiling	Ctr		P	Sheetrock	green	2.8	QМ
033	A	Wall	Ctr		P	Sheetrock	green	1.8	QM
035	в	Upper Cabine	Lft		P	Wood	green	0.3	QM
036	в	Window	Ctr	Casing	I	Wood	white	0.0	QМ
040	в	Window	Ctr	Stop	P	Wood	white	0.2	QM
037	в	Window	Ctr	Sash	I	Wood	white	0.3	QM
039	в	Window	Ctr	Apron	P	Wood	white	0.2	QМ
038	в	Window	Ctr	Sill	I	Wood	white	0.4	QM
034	С	Wall	Ctr		P	Sheetrock	green	2.5	QМ
041	С	Baseboard	Ctr		I	Wood	green	0.3	QM
Inte	rior R	oom 004 Bathroo	m	<u></u>					
047	-	Ceiling	Ctr		I	Wood	green	-0.1	QМ
046		Stairs	Ctr	Stringers	I	Wood	green	-0.1	QМ
042	A	Wall	Ctr		I	Fiberboard	green	0.1	QМ
043	С	Wall	Ctr		Р	Sheetrock	beige	1.6	QМ
044	С	Window	Ctr	Casing	I	Wood	green	0.4	QM
045	D	Window	Ctr	Casing	P	Wainscot	green	0.2	QM
Inte	rior R	oom 005 Stairs							
048	-	Ceiling	Ctr		P	Fiberboard	lt. blu	ue 0.0	QМ
053	-	Stairs	Ctr	Stringers	I	Wood	brown	0.4	QM
051	-	Stairs	Ctr	Treads	I	Wood	brown	0.1	QM
052	-	Stairs	Ctr	Risers	I	Wood	brown	0.4	QМ
050	А	Wall	Ctr		P	Fiberboard	lt. blu	1e 0.0	QM
049	С	Wall	Ctr		P	Fiberboard	lt. blu	ue 0.1	QM
056	С	Window	Ctr	Casing	Р	Wood	lt. blu	ue 0.1	QМ
057	С	Window	Ctr	Stop	P	Wood	lt. blu	1e -0.1	QМ
054	С	Window	Ctr	Apron	P	Wood	lt. blu	ue 0.1	QМ
055	с	Window	Ctr	Sill	Р	Wood	lt. blu	1e 0.3	QМ
Inte	rior R	oom 006 Attic							
058	-	Ceiling	Ctr		P	Fiberboard	lt. blu	le 0.1	QM
059	A	Wall	Ctr		P	Fiberboard	1t. blu	ıe −0.4	QM
060	А	Window	Ctr	Mullin	P	Wood	white	0.0	QМ
062	A	Window	Ctr	Apron	P	Wood	white	0.3	QМ
061	A	Window	Ctr	Sill	Р	Wood	white	0.2	QМ
063	D	Wall	Ctr		P	Fiberboard	lt. blu	le 0.1	QМ
Inte	rior R	oom 007 Bathtub	Rm						
064	А	Wall	Ctr		P	Panel	lt. blu	ue 0.3	QM
066	D	Pipe	Ctr		P	Metal	lt. blu	ıe 0.4	QМ
065	D	Wall	Ctr		P	Fiberboard	haiga		QМ

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. James R. Stewart

teading			Paint			Lead	
No. Wall Structure	Location	Member	Cond	Substrate	Color	(mg/cm²)	Mode
Calibration Readings							
001						1.0	TC
002						1.0	TC
003						1.0	TC
074						1.0	тс
075						0.9	тC
076						0.9	TC
077							

---- End of Readings ----

APPENDIX 4

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LEAD WASTE CHARACTERIZATION LABORATORY REPORTS AND COMPUTATION TABLE

DEMOLITION WASTE CLASSIFICATION TCLP FIELD COMPUTATION TABLE 1 ORCHARD TERRACE NAUGATUCK, CONNECTICUT

வேற்றவரை	illiidimess ((it))	-Tillinelanossi -((it)	Ancen ((SIP))	Valume ((CIP))	1Donatky ((Ibs/CIP))	Mpres (Hbrs)	Torals .(His))	Thaicenti off Thored a Mass
	0.50	0.042	177	7.4	35	258.1		
	0.75	0.063		0.0	35	0.0		
Negative	1.00	0.083	3000	250.0	35	8750.0		
Wood	1.50	0.125		0.0	35	0.0	20674.8	78%
(solid)	2.00	0.167	2000	333.3	35	11666.7		
	4.00	0.333		0.0	35	0.0		
	0.00	0.000		0.0	35	0.0		
l	0.50	0.042	172	7.2	35	250.8		
	0.75	0.063		0.0	35	0.0		
Positive	1.00	0.083	20	1.7	35	58.3		
Wood	1.50	0.125		0.0	35	0.0	309.2	1%
(solid)	2.00	0.167		0.0	35	0.0		
	4.00	0.333		0.0	35	0.0		
	0.00	0.000		0.0	35	0.0		
Negative Sheetrock	0.50	0.042	1120	46.7	52.8	2464.0	2464.0	10%
Positive Sheetrock	0.50	0.042	750	31.3	52.8	1650.0	1650.0	6%
Negative Fiberboard	0.25	0.021	500	10.4	30	312.5	312.5	1%
Positive Fiberboard	0.25	0.021		0.0	30	0.0	0.0	0%
Roofing	0.50	0.042	600	25.0	45	1125.0	1125.0	4%
			Total	Mass			26535.5	



Wednesday, February 19, 2014

Attn: Mr. Chris Liberti Eagle Environmental Inc. 8 South Main Street, Suite 3 © Terryville CT 06786

Project ID: BOROUGH OF NAUGATUCK 1 ORCHARD TERRACE Sample ID#s: BG09752

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

the Stille

Phylliś Shiller Laboratory Director

NELAC - #NY11301 CT Lab Registration #PH-0618 MA Lab Registration #MA-CT-007 ME Lab Registration #CT-007 NH Lab Registration #213693-A,B NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530 RI Lab Registration #63 VT Lab Registration #VT11301



Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

FOR:

Analysis Report

February 19, 2014

Attn: Mr. Chris Liberti Eagle Environmental Inc. 8 South Main Street, Suite 3 © Terryville CT 06786

Sample Inforn	nation	Custody Inform	<u>ation</u>	<u>Date</u>	<u>Time</u>
Matrix:	SOLID	Collected by:		01/30/14	0:00
Location Code:	EAGLEENV	Received by:	SW	02/17/14	14:59
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:		Laboratory	<u>Data</u>	SDG ID: Phoenix ID:	GBG09752 BG09752
Project ID:	BOROUGH OF NAUC	GATUCK 1 ORCHARD TE	ERRACE		

Client ID:	TCLP COMP						
Parameter		Result	RL/ PQL	Units	Date/Time	Ву	Reference
TCLP Lead		4.04	0.10	mg/L	02/18/14	ΕK	SW6010
TCLP Metals Dig	estion	Completed			02/18/14	1/1	SW3005
TCLP Extraction 1	for Metals	Completed			02/17/14	I	EPA 1311
TCLP Sample Siz	ze Reduction	Completed			02/17/14	SHOP	1311

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis, Shiller, Laboratory Director February 19, 2014 Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report February 19, 2014

QA/QC Data

SDG I.D.: GBG09752

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 266928, QC Sample	No: BG0	9699 (BC	G09752)					_				
ICP Metals - TCLP Extraction	<u>n</u>											
Lead	BRL	38.3	40.7	6.10	106	97.0	8.9	NC	NC	NC	75 - 125	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director February 19, 2014

Wednesday, February 19, 2014	2014	Sample Criteria Exceedences Report			_	Page 1 of 1
Criteria: None		GBG09752 - EAGLEENV				
State: CT					RL	Analvsis
SampNo Acode	Phoenix Analyte	Criteria Result	lt RL	Criteria	Criteria	Criteria Units
*** No Data to Display ***						

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

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-	CHAIN OF CUSTODY RECORD	587 East Middie Tumpike, Manchester, CT 06040 Email: into@phoenbilatbs.com Fax (860) 645-0823 Client Services (860) 645-8726				\backslash	$\langle \rangle \rangle$	$\langle \rangle$						+		-+					and From	(Residential)	GW	Other				State where samples were collected:	
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-		PHOENIX Environmental Laboratories, Inc.	б Ш	´∞ŀ	2	Client Sample - Information - Identification	<u>Matrix Code:</u> DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water SE=Sediment SI =Shiche S=Scil/Scilit W≡Wire D=Cher		Negative Wood	F	Posit	Н	Negative Sheetcack	- - -	rositive	TCLP	Negative Fiberbook	TCLP E	Negative Roof	TOLY		autre		Commants Stractal Bactifications	Please Combine all Samples (A-F)	to form one)		
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APPENDIX 5

ABATEMENT AND CONSULTING COST ESTIMATES

HAZARDOUS MATERIALS ABATEMENT COST ESTIMATES **BOROUGH OF NAUGATUCK 1 ORCHARD TERRACE** NAUGATUCK, CONNECTICUT

ASBESTOS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	U	INIT COST	TOTA	L COST
FLUE CEMENT	1	\$	250.00 GB	\$	250.00
INTERIOR CAULK AT PIPE	1	\$	250.00 GB	\$	250.00
EXTERIOR CAULK AT ROOF	8	\$	50.00 SF	\$	400.00
SUBTOTAL				\$	900.00
ASBESTOS ABATEMENT CONTINGENCY				\$	90.00
ASBESTOS TOTAL				\$	990.0 0

LEAD BASED PAINT COST ESTIMATE

NO LEAD PAINT ABATEMENT OR DISPOSAL IS INVOLVED IN THIS PROJECT. THE CONTRACTOR NEEDS TO PROTECT HIS/HER WORKER FROM EXPOSURE TO LEAD PAINT DURING DEMOLITION.

UNIVERSAL WASTE ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	U	NIT COST	TOTA	L COST
LIGHT TUBES DISPOSAL	2	\$	10.00 LF	\$	20.00
ROUND LIGHT TUBES DISPOSAL	1	\$	20.00 EACH	\$	20.00
CAPACITOR	1	\$	50.00 EACH	\$	50.00
LABOR	0.5	\$	500.00 DAY	\$	250.00
SUBTOTAL				\$	340.00
UNIVERSAL WASTE ABATEMENT CONTINGENCY				<u>\$</u>	34.00
UNIVERSAL WASTE TOTAL				\$	374.00

CHLOROFLUOROCARBONS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	U	NIT COST	TOT	AL COST
REFRIGERATOR	1	\$	100.00 EACH	\$	100.00
LABOR	0.5	\$	250.00 EACH	\$	125.00
SUBTOTAL				\$	225.00
CHLOROFLUOROCARBONS ABATEMENT CONTIN	IGENCY			<u>\$</u>	22.50
CHLOROFLUOROCARBONS TOTAL				\$	247.50
HAZARDOUS MATERIALS ABATEMENT	Γ SUBTOTAL			5	1,611.50

HAZARDOUS MATERIALS ABATEMENT SUBTOTAL

HAZARDOUS MATERIALS CONSULTING COST ESTIMATE

CONSULTING COST	QUANTITY	UNIT COST	TOT	AL COST
ASBESTOS ABATEMENT SPECIFICATION	1	\$400.00 EACH	\$	400.00
UNIVERSAL WASTE DISPOSAL SPECIFICATION	1	\$250.00 EACH	\$	250.00
FINAL VISUAL INSPECTIONS	1	\$400.00 DAY	\$	400.00
PROJECT MANAGEMENT	1	\$130.00 HOUR	\$	130.00
DOCUMENTATION REPORT	1	\$350.00 EACH	\$	350.00
SUBTOTAL			\$	1,530.00
CONSULTING CONTINGENCY			\$	153.00
CONSULTING TOTAL			\$	1,683.00

GRAND TOTAL

4,658.50 \$

APPENDIX 6

EAGLE ENVIRONMENTAL INC. LICENSES AND LABORATORY CERTIFICATES

CERTIFICATE OF ACHIEVEMENT

This certifles that

Souleymane Doumbia

has successfully completed the Asbestos Site Inspector Refresher Training Asbestos Accreditation Under TSCA Title II 40 CFR Part 763

conducted by

Louhn

Cardno ATC 73 William Franks Drive West Springfield, MA 01089 (413) 781-0070

Gregory O. Moush al Manager

A CHARANA CHARANA CHARANA

SLAR-4668 Certificate Number

September 19, 2013 Examination Data

September 19, 2013 Date of Course September 19, 2014 Expiration Date

Principal Instructor

STATE OF CONNECTICUT DEPARTMENT OF PURIO HEADTH PURSUMM TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT THE INDIVIDUAL MAMED BELOW IN LICENSED BY THIS DEFARTMENT AS A ASBESTOS CONSULTANT, INSPECTOR . : 5\$\$\$\$¥ LICENSE NO. 000804 CURRENT THROUGH 09/30/14 SOULEYMANE DOUMBIA VALIDATION NO. a and a second 08 667162 * * * * * * * * * 滋 21 0400 IISSIONER[®] (Sta ki ili and y

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CERT# L-500 - 150

CHEMSCOPE TRAINING DIVISION

LEAD INSPECTOR REFRESHER **8HOUR TRAINING CERTIFICATE** Eltwaun D. Lawrence

531 North Main Street, Bristol CT

Has attended an 8 hour course on the subject discipline on

06/20/2013 and has passed a written examination.

The above individual has successfully completed the above training course approved in accordance with the Department of Public Health Standards established pursuant to Section 20-477 of the Connecticut General Statutes,

Course syllabus includes all required topics of State of Connecticut DPH and EPA.

Examination Date: 06/20/2013

Expiration Date: 06/20/2014

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (U.S.C. 1001 and 15 U.S.C. 2615), I certify that this training compiles with all applicable requirements of Title IV of TSCA, 40 CFR part 745 and any other applicable Federal, State, or local requirements.

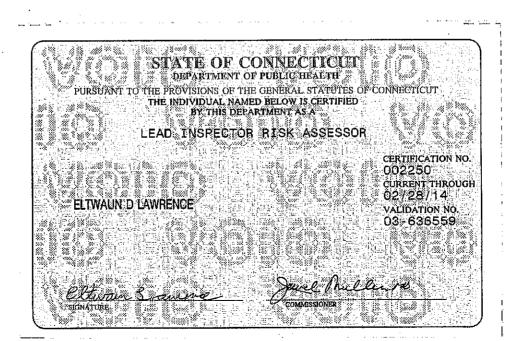
Ronald D. Arena Training Director

© GDES 340

Scott Arena Training Manager

or

Chem Scope, Inc. 15 Mouithrop Street North Haven CT 06473 (203) 865-5605



State of Connection, Department of Public Health State of Connection, Department of Public Health Schund Enclosed Connection Connection Partie Plant Ins is to certify that the laboratory descended in Statutes of Connection for having the department of the public beaution before and general Statutes of Connection for having the department of the public beaution before and general Statutes of Connection for having the	EMSL ANALYTICAL, INC MANHATTAN, NY 307 West 38th Street No. New York, NY 10018	Peter Frasca, Ph.D. James Hall TO BE IN CHARGE OF THE LABORATI	<u>Environmental Health & Housing</u>	Examination F Lead in Paint Lead Paint in Lead Paint in Lead in Dust <u>I-OUT FOR SPECIFIC TESTS APP</u> NND IS REVOCABLE FOR CAUSE BY THE	41 DA OF October, 2012 CHEF, ENVIRONMENTAL HEALTH SECTION	
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Map Block Lot 24-32E1

056-0500

Property Information

Property Location	1 S MAIN ST	Fire District	
Owner	ONE SOUTH MAIN STREET LLC	Census Tract	
Co-Owner		Neighborhood	в
Mailing Address	27 S MAIN ST	Zoning Code	R8
	NAUGATUCK CT 06770	Acreage	0.06
Land Use	3400 OFFICE BLD	Utilities	
Land Class	с	Lot Setting/Desc	

Photo



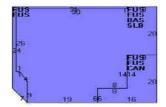
056-0500 03/23/2012

Primary Construction Details

1956
3
Office Bldg
Ind/Comm
C-
Dirt/None

Bedrooms	
Full Bathrooms	0
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	Flat
Roof Cover	T+G/Rubber

Sketch



Exterior Walls	Stucco
Interior Walls	Drywall
Heating Type	None
Heating Fuel	None
АС Туре	None
Gross Bldg Area	5798
Total Living Area	4343

Valuation Summary (Assessed value = 70% of Appraised Value)

ltem	Appraised	Assessed
Buildings	16210	11350
Outbuildings	0	0
Improvements	16210	11350
Extras	0	0
Land	108150	75710
Total	124360	87060

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Canopy	208	0
First Floor	1247	1247
Upper Story, Finished	3096	3096
Slab	1247	0
Total Area	•	

Outbuilding and Extra Items

Туре	Description

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
ONE SOUTH MAIN STREET LLC	885/ 217	3/31/2011	35000
BAYVIEW LOAN SERVICING LLC	837/ 38	10/21/2008	
PECORARO DOMINIC	722/ 506	8/15/2005	460000
ONE SOUTH MAIN LLC	688/ 692	11/29/2004	
CONNELLY JOHN	645/ 475	1/15/2004	100000
RINALDI JOHN L	232/ 542	2/8/1982	0
RINALDI JOHN L	225/ 554	12/31/1980	0



AND STREET STREET

Hazardous Building Materials > Industrial Hygiene/IAQ > Environmental Assessments > Laboratory Services & Training

March 5, 2014

Mr. James R. Stewart PE, LS Director of Public Works Borough of Naugatuck 246 Rubber Avenue Naugatuck, Connecticut 06770

RE: Pre-Demolition Hazardous Building Materials Inspection Report 1 South Main Street Naugatuck, Connecticut Eagle Project No. 14-029.11T1

Dear Mr. Stewart:

Attached is the report for the hazardous building materials inspection conducted at 1 South Main Street in Naugatuck, Connecticut. The scope of services included an asbestos-containing materials inspection, lead-based paint screen, lead waste characterization sampling and analysis and an inspection for universal waste materials.

The inspection was performed to support the demolition of the building.

Please do not hesitate to contact Eagle Environmental, Inc. if you have any questions regarding the contents of this report.

Sincerely, Eagle Environmental, Inc.

Report Prepared By: Chris Liberti Senior Project Manager

Report Reviewed By: Ashis Roychowdhury Executive Vice President

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TABLE OF CONTENTS

1.	INTR	ODUCTION 1	l
	1.1	BUILDING DESCRIPTION	
2.	SCOP	PE OF INSPECTION 1	ł
	2.1 2.2	ASBESTOS CONTAINING MATERIALS	[]
	2.3	2.2.2 Lead Waste Characterization	5)
		 2.3.1 Polychlorinated Biphenyls (PCB) and Di-ethylhexlpthalate (DEHP Containing Items)222
3.	INSP	ECTION PROTOCOLS	3
	3.1	ASBESTOS CONTAINING MATERIALS	3
	3.2	3.1.3 Bulk Sample Analysis 2 LEAD-BASED PAINT 2 3.2.1 X-Ray Fluorescence Screen 2 3.2.2 Lead Waste Characterization 2	1 4
	3.3	UNIVERSAL WASTE MATERIALS AND OTHER ENVIRONMENTAL CONCERNS	\mathbf{S}
		3.3.1 PCB and Di-ethylhexlpthalate (DEHP) Containing Items	6 6 7
4.	INSP	ECTION RESULTS	7
	4.1 4.2	ASBESTOS CONTAINING MATERIALS	8 8 8
	4.3	UNIVERSAL WASTE MATERIALS AND OTHER ENVIRONMENTAL CONCERNS	S
		 4.3.1 PCB and Di-ethylhexlpthalate (DEHP) Containing Items	8 9 9
5.	COS	F ESTIMATES	9

LIST OF TABLES

Table I	Asbestos-Containing Materials Summary Table
Table II	Non Asbestos-Containing Materials Summary Table
Table III	Universal Waste Materials Summary Table

APPENDICES

Appendix 1 Floor Plans and Roof Plans	
Appendix 2 Asbestos Bulk Sample Laboratory Reports	
Appendix 3 XRF Lead-based Paint Inspection Reports	
Appendix 4 Abatement and Consulting Cost Estimates	
Appendix 5 Eagle Environmental Inc. Licenses and Laboratory Cert	ificates

1. INTRODUCTION

On January 31, 2014, Eagle Environmental, Inc. conducted a hazardous building materials inspection of the structure located at 1 South Main Street in Naugatuck, Connecticut. The scope of the hazardous building material inspection included an asbestos-containing materials inspection, a lead-based paint screen and an inspection for universal waste materials. The inspection was performed to support the demolition of the building.

1.1 Building Description

The subject building located at 1 South Main Street in Naugatuck, Connecticut is a three story commercial structure of block construction. The structure was built in 1956. The building was built slab on grade. The mechanical equipment consists of a combination of a gas fired hot water baseboard system with copper finned tubing, a gas fired forced hot air roof top system and interior ceiling mounted ventilation system with metal and fiberglass wrapped ductwork. The mechanical distribution system is insulated.

The interior walls and ceilings consist of sheetrock and joint compound construction with limited areas of acoustic ceiling tiles. The windows are anodized aluminum casement bay window systems. The interior doors are wood with wood trim components whereas the exterior doors are metal with metal door frames. The floors are finished with various resilient flooring finishes. The exterior facades are concrete with a stucco finish. The roof is flat and consists of a torch down rubber roofing on Polyiso insulation board on a concrete roof deck.

2. SCOPE OF INSPECTION

2.1 Asbestos Containing Materials

The asbestos inspection was conducted in order to satisfy the United States Environmental Protection Agency (USEPA) National Emission Standard for Hazardous Air Pollutants Act (NESHAP) as amended November 20, 1990. The USEPA NESHAP final rule requires the identification and removal of all regulated ACM in a building prior to demolition.

The asbestos inspection was performed by Souleymane Doumbia and Eltwaun Lawrence; both State of Connecticut licensed Asbestos Inspectors (license #000804 and #000845, respectively). The inspectors made a good faith effort to identify concealed suspect materials that might exist behind walls and pipe chases.

2.2 Lead-based Paint

2.2.1 X-Ray Fluorescence Screen

The lead-based paint (LBP) screen was performed in accordance with the requirements of the State of Connecticut, Department of Energy and Environmental Protection (DEEP), <u>Guidance for the Management and Disposal of Lead Contaminated Materials Generated in the Lead Abatement, Renovation and Demolition Industries.</u> The DEEP regulates the disposal of hazardous lead waste in the State of Connecticut. Lead-contaminated debris, not contaminated with other hazardous materials, is classified either as hazardous lead waste or as non-hazardous solid waste.

Additionally the U.S. Department of Labor Occupational Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CFR 1926.62 Lead in Construction.

The lead-based paint screen was performed by Eltwaun Lawrence; a State of Connecticut licensed Lead Inspector/Risk Assessor (license #002250).

2.2.2 Lead Waste Characterization

The State of Connecticut Department of Energy and Environmental Protection (DEEP) regulates the disposal of hazardous waste. The required analytical test to determine a materials waste classification is the Toxicity Characteristic Leachate Procedure, or TCLP (Regulation of State DEEP 22a-449© - 101 (a) (1), incorporating 40 CFR 262.24). Lead coated surfaces were not identified on the tested components; therefore Eagle Environmental, Inc. did not collect samples of building materials for lead waste characterization.

2.3 Universal Waste Materials and Other Environmental Concerns

2.3.1 Polychlorinated Biphenyls (PCB) and Di-ethylhexlpthalate (DEHP) Containing Items

PCB and DEHP lighting ballasts and electrical equipment, including capacitors and switches that contain PCBs, are regulated under the Toxic Substances Control Act of 1976 (TSCA) which bans the manufacturing and distribution of PCBs and regulates their storage and disposal.

PCBs and DEHP can be found in a number of items, including lighting ballast and electrical equipment, including capacitors and switches. DEHP and PCB-containing items such as these must be managed and disposed of in accordance with special requirements. A visual inspection for PCB and DEHP containing items was performed at the site building.

2.3.2 Mercury Containing Items

Fluorescent lamps, thermostats, mercury switches, manometers, natural gas meters and other items can contain enough mercury to be classified as a special waste, and therefore may not be disposed of as regular construction debris. The mercury and mercury vapors associated with these products must be reclaimed prior to disposal or recycling of the products. A visual inspection for the presence of fluorescent lamps, thermostats and switches potentially containing mercury was performed at the site building.

2.3.3 Used Electronics and Batteries

Used electronics and batteries may contain enough lead, mercury, cadmium or acid electrolytes to be classified as universal waste. In such cases, they may not be disposed of as regular construction debris. A visual inspection for the presence of used electronic devices was performed at the site building.

2.3.4 Chlorofluorocarbons

Freon gas includes a number of gaseous, colorless chlorofluorocarbons (CFCs) that are commonly used as refrigerants. Freon is listed as a controlled substance

by governments around the world. In the United States, the USEPA regulates the emission of Freon gas into the atmosphere due to its ozone depleting capabilities. Through Title VI, Stratospheric Ozone Protection, of the Clean Air Act Amendments of 1990, the USEPA regulates Freon gas and requires mandatory recycling and a ban on the intentional venting or releasing of refrigerants during maintenance, service and or repair. A visual inspection for the presence of building materials potentially containing Freon was performed at the site building.

3. INSPECTION PROTOCOLS

3.1 Asbestos Containing Materials

3.1.1 Inspection

The asbestos-containing materials (ACM) inspection included the accessible interior and exterior portions of the building including the roofing systems. Semidestructive testing techniques were utilized during the inspection process. This included manually removing various layers of flooring and roofing materials utilizing hand tools to verify and sample individual layers of suspect ACM. Suspect building materials that are inaccessible for inspection and sampling are assumed to be ACM for the purpose of this report. Inaccessible suspect materials are generally located in operational equipment, behind rigid walls and ceilings, below rubber roof membranes or otherwise concealed areas of the building, including below grade materials.

During the inspection, suspect materials are located, sampled, quantified and the friability of the material is determined. Friable materials are those materials that hand pressure can crumble, pulverize or reduce to powder when dry. An estimated quantity of identified ACM is provided for positive materials only. The materials are quantified in linear or square feet, depending on the nature of the material.

3.1.2 Bulk Sampling

During the sampling process, suspect ACM is separated into three (3) USEPA categories. These categories are: Thermal System Insulation (TSI), Surfacing Materials (SURF), and Miscellaneous materials (MISC). TSI includes all materials used to prevent heat loss or gain or water condensation on mechanical systems. Examples of TSI are pipe covering, boiler insulation, duct wrap, and mudpack fitting cement. Surfacing ACM includes all ACM that is sprayed, toweled or otherwise applied to an existing surface. These applications are most commonly used in fireproofing, decorative, and acoustical applications. Miscellaneous materials include all ACM not listed in thermal or surfacing, such as linoleum, vinyl asbestos flooring, and ceiling tile.

Bulk sampling was performed in a random method. Bulk sampling methods and number of samples collected meets or exceeds the USEPA requirements.

3.1.3 Bulk Sample Analysis

The samples of the suspect asbestos containing materials were sent to a State of Connecticut Department of Public Health (DPH) approved laboratory for analysis by Polarized Light Microscopy (PLM). PLM is the USEPA accepted method of analysis for identification of asbestos in bulk matrixes. Samples are collected individually or in sets. When sets of samples are collected, each set is systematically analyzed until one sample is determined to contain asbestos. Upon the determination of the presence of asbestos in one sample in the set, analysis of the remaining samples in the set is discontinued. If no asbestos is observed during analysis of the set of samples, the suspect material is determined to be negative for asbestos content.

Sample analysis results are reported in percentage of asbestos and non-asbestos components. The USEPA defines any material that contains greater than one percent asbestos, utilizing PLM, as being an asbestos-containing material (ACM). Suspect materials containing greater than one percent (1%) asbestos utilizing the PLM Point Count Method and the NOB TEM method are also considered to be asbestos-containing. Materials determined to contain greater than one percent (1%) asbestos is regulated by the USEPA, the State of Connecticut Department of Public Health and Department of Energy and Environmental Protection and the United States Department of Labor. Sample results indicating "no asbestos detected" (NAD) are specified as non-asbestos containing materials. Samples results indicating "Did Not Analyze" (DNA) are not analyzed due to the stop on first positive request to the laboratory.

3.1.3.1 Friable ACM Analysis

Certain samples of friable materials shown to contain less than 10% asbestos are analyzed further by the "Point Count Method". This procedure is recommended by the United States Environmental Protection Agency to confirm friable bulk samples shown to have less than 10% asbestos by PLM to be definitively negative or positive for asbestos. This method is accepted as providing statistically reliable results when analyzing bulk samples with very low asbestos concentrations. Friable materials containing "Trace" or "less than one percent (1%)" asbestos must be analyzed by the PLM Point Count Method. None of the samples were further analyzed by the PLM Point Count Method for this project.

3.1.3.2 Non Friable ACM Analysis

Certain samples of organically bound non-friable materials shown to contain "less than 1% asbestos", "TRACE" or "NAD" are recommended for analyses by the "NOB TEM ELAP 198.4 Method". This procedure is recommended by the United States Environmental Protection Agency to further evaluate non-friable organically bound materials for asbestos. Suspect materials confirmed by NOB TEM to be "less than 1% asbestos", "TRACE" or "NAD" are considered non-asbestos containing. None of the samples were further analyzed by the NOB TEM Method for this project.

3.2 Lead-based Paint

3.2.1 X-Ray Fluorescence Screen

The lead-based paint screen was performed utilizing an X-Ray Fluorescence (XRF) Radiation Monitoring Device (RMD) Lead Paint Analyzer (LPA 1), serial number 1364 within the limits of the inspection area(s). The screen includes only accessible areas within the inspection area(s) and accessible building materials.

The lead-based paint screen includes testing limited components and or surfaces throughout the structure. It is not the intent to test all painted components, but to identify on a broad scale the impact of lead paint as it relates to the disposal of lead paint contaminated debris and potential worker exposure issues. Generally, wall and ceiling surfaces, painted floors, window and door systems are tested. Other components such as baseboards, cabinets, columns, trim, etc. are tested on a limited basis. Component and surface locations are identified by side designations represented by the letters "A", "B", "C", and "D". The "A" side is considered the front of the building with the "B", "C", and "D" sides following in a clockwise order.

The data is presented on computer generated Lead Inspection Reports contained in Appendix 3. The Summary Report provides an inventory of each surface coating that contains lead at or above 1.0 mg/cm². The Detailed Report is an inventory of each tested surface on a room-by-room basis.

For the purpose of this report, the XRF results are separated into two (2) categories; high levels of lead ($\geq 1.0 \text{ mg/cm}^2$) and low levels of lead ($< 1.0 \text{ mg/cm}^2$). Building materials containing high levels of lead have a greater probability of creating worker exposures during construction than do building materials with low levels of lead. Additionally, lead waste characterization sampling is required for building materials containing high levels of lead ($\geq 1.0 \text{ mg/cm}^2$) and will become a waste product as a result of demolition or renovation activities.

The U.S. Department of Labor Occupation Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CRF 1926.62 Lead Exposure in Construction; Interim Final Rule. Currently, OSHA does not define a threshold level of lead in paint that may cause worker exposure. Any detectable level of lead in paint (>0.0 mg/cm² +/- 0.3 mg/cm² by XRF or ≥ 0.01 % by AAS) requires task specific exposure monitoring.

3.2.2 Lead Waste Characterization

The State of Connecticut Department of Energy and Environmental Protection regulates the disposal of hazardous waste. The required analytical test to determine a materials waste classification is the Toxicity Characteristic Leachate Procedure, or TCLP (Regulation of State DEEP 22a-449© - 101 (a) (1), incorporating 40 CFR 262.24). For the purpose of this report waste characterization was not warranted.

The TCLP test subjects a 100-gram sample of waste material to a simulated landfill leaching condition, and assesses the ability of the sample to leach out lead into the environment. The waste is classified as hazardous lead waste if the TCLP sample result is greater than 5.0 mg/l of lead. The waste is classified as non-hazardous solid waste if the TCLP sample result is less than 5.0 mg/l of lead. Building debris containing equal to or greater than 1.0 mg/cm² of lead by XRF requires waste classification analysis.

There are two (2) primary approaches for TCLP sampling. Both methods utilize the data generated during the lead screen to determine which building materials contain lead in paint coatings and what percentage of the waste stream will consist of the leaded materials. The two (2) basic approaches are described below.

Screen, Sample, and Segregate Method

The Screen, Sample, and Segregate method of TCLP sampling is conducted in accordance with the State of Connecticut Department of Energy and Environmental Protection <u>Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation, and Demolition Industries</u>. This method entails screening the building components scheduled to be removed with an XRF lead paint analyzer. Components that are determined to be lead containing are sampled and analyzed by TCLP based on their contribution into the waste stream. The waste stream is made up of those building components that will be removed from the structure as part of the renovation or demolition process and will become a waste product.

Sample and Demolish Method

The Composite Sample and Demolish Method of TCLP sampling is conducted in accordance with the State of Connecticut Department of Energy and Environmental Protection Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation, and Demolition Industries. This method utilizes composite samples to assess the total amount of leachable lead of the entire quantity of debris to be removed. This sampling method is best utilized for whole building demolitions where the quantity of non-lead debris is expected to be much greater than that of the leaded debris. The first step in the sampling process requires the inspector to identify the potential waste stream of the structure to be demolished. The waste stream is made up of those building components that will be disposed of once the structure is demolished. The inspector calculates the mass by weight of each group of building components within the building (i.e. studs, framing, sheathing, siding, doors, windows, etc.). The lead testing results enables the inspector to determine the percentages of components, within each group, that contain lead. With this information, the inspector can than calculate the percent by weight contribution of each components contribution into the waste stream. This takes into account the ratio of leaded components verse non-leaded components within each group.

3.3 Universal Waste Materials and Other Environmental Concerns

3.3.1 PCB and Di-ethylhexlpthalate (DEHP) Containing Items

A visual inspection for the presence of lighting ballasts and electrical equipment potentially containing PCB's or DEHP was performed within the inspection areas. Lighting ballasts and oil-filled capacitor manufactured after 1979 may have "NO PCB's" stamped on its casing. These are filled with oil which does not contain PCB's but may contain DEHP. Lighting ballasts and Capacitors with date stamps prior to 1979 or no date stamps are assumed to contain PCB's. Lighting ballasts and capacitors labeled as "No PCB's" are assumed to contain DEHP if the date stamp is illegible or non-existent. Electronic ballasts are assumed to not contain PCB's or DEHP.

3.3.2 Mercury Containing Items

During the visual inspection process, fluorescent, metal halide and sodium lamps are assumed to contain mercury vapors unless the end caps of the tubes are green indicating they are mercury free. Thermostatic controls, switches, manometers, capacitors and other used electronic components are inventoried during the inspection process.

EAGLE ENVIRONMENTAL, INC. 8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786 PHONE (860) 589-8257 • FAX (860) 585-7034

3.3.3 Used Electronics and Batteries

An inventory of used electronics that may fall under the Universal Waste regulations was developed during the inspection. These materials include but are not limited to lead acid batteries in emergency lighting and exit signs and stored electronic equipment that may contain hazardous or regulated substances. Electronic components such as computers, copy machines, etc that are in use at the time of the inspection are generally not included in the inventory.

3.3.4 Chlorofluorocarbons

Eagle Environmental inspected the building for compressor tanks associated with water fountains, portable air conditioning units, the indoor environmental cooling system and walk-in coolers or freezers where applicable. The inspectors also inspected rooftop HVAC units where present. These tanks are all assumed to contain Freon. The size and quantity of tanks are estimated and recorded.

4. INSPECTION RESULTS

4.1 Asbestos Containing Materials

During the course of the building inspection one hundred four (104) bulk samples of suspect ACM were collected and one hundred one (101) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory. Based on the one hundred one (101) samples analyzed, there were three (3) suspect materials on the roof that were confirmed to be ACM. These materials include the following:

- HVAC unit base grey tar
- Top layer roof pitch pocket tar (at HVAC electrical penetration)
- Bottom layer roof pitch pocket tar (at HVAC electrical penetration)

These materials are classified as miscellaneous asbestos containing material and must b e removed prior to building demolition, properly packaged and disposed of as asbestos waste. The summaries of asbestos and non-asbestos materials are presented in Tables I and II respectively. The asbestos analysis laboratory reports are provided in Appendix 2.

Any suspect material not specifically identified in this report as non-ACM should be assumed to contain asbestos unless sample results prove otherwise.

The identified materials are non-friable and on the exterior of the building. The tars are non-regulated ACM as long as they remain non-friable during removal. Workers removing the non-friable asbestos containing roofing materials must have a minimum of eight (8) hours awareness training to comply with OSHA Asbestos in Construction Standard 29 CFR 1926.1101. The asbestos containing roofing materials removed during this project must be properly packaged, labeled and disposed of as asbestos-containing waste. An independent third-party consultant needs to perform a visual inspection following the abatement. For asbestos abatement projects involving less than ten (10) linear feet or twenty-five (25) square feet of asbestos-containing materials or projects where no regulated asbestos-containing materials are identified, the facility owner or any person who will be conducting demolition must submit a demolition notification to the State of Connecticut Department of Public Health post marked or hand delivered ten (10) days prior to the commencement of demolition activities.

4.2 Lead-based Paint

4.2.1 X-Ray Fluorescence Screen

A total of one hundred forty-two (142) XRF readings were collected during the lead-based paints screen of the building. From the one hundred forty-two (142) readings, there were no readings equal to or greater than the EPA action level of 1.0 mg/cm^2 .

Throughout the course of the inspection several building materials that were tested were determined to contain low levels of lead in paint in their respective paint coatings. Although these levels of lead in paint were less than 1.0 mg/cm², the contractor must perform an exposure assessment on employees during tasks that disturb the painted materials.

The remaining components and surfaces that were tested contain no lead in their respective paint coatings.

The U.S. Department of Labor Occupation Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CFR 1926.62 Lead Exposure in Construction; Interim Final Rule. Currently, OSHA does not define a threshold level of lead in paint that may cause worker exposure. Any detectable level of lead in paint (>0.0 mg/cm² +/- 0.3 mg/cm² by XRF or >0.01 % by AAS) requires task specific exposure monitoring. This "initial exposure assessment" must be conducted by trained workers utilizing appropriate personal protective equipment. Exposure assessments must be conducted for each task where painted surfaces or components are disturbed.

Examples of tasks subject to initial monitoring when detectable levels of lead are identified include but are not limited to surface preparation for repainting, manual demolition of components with detectable levels of lead paint and the welding, cutting or grinding of steel with detectable levels of lead in paint.

A complete inventory of tested building materials is presented in Detailed Reports contained Appendix 3.

4.2.2 Lead Waste Characterization Results

For the purpose of this report, lead-based paint was not identified on any of the tested components; therefore, waste characterization was not required.

4.3 Universal Waste Materials and Other Environmental Concerns

4.3.1 PCB and Di-ethylhexlpthalate (DEHP) Containing Items

There were no PCB or DEHP containing lighting ballasts present within the inspection site at the time of inspection.

One (1) capacitor potentially containing dielectric fluid is assumed to be within an air conditioning unit within the inspected building. The capacitor must be removed for proper recycling prior to building demolition.

Twenty-four (24) electronic ballasts were identified. No further action is required for the electronic ballasts.

The associated inspection data is provided in Table III.

4.3.2 Mercury Containing Items

A total of approximately sixteen (16) linear feet of fluorescent light tubes and forty-six (46) U-shaped lamps were present within the inspection building. The fluorescent light tubes and lamps must be removed from the building for proper recycling prior to building demolition.

A total of three (3) thermostat switches containing mercury bulbs were identified in the inspected building. The mercury bulbs must be removed from the building for proper recycling prior to demolition of the building.

The associated inspection data is provided in Table III.

4.3.3 Used Electronics and Batteries

There was one (1) emergency light and five (5) exit lights containing lead-acid or nickel cadmium batteries present within the inspection building.

The batteries must be removed from the building for proper recycling prior to demolition of the building.

The associated inspection data is provided in Table III.

4.3.4 Chlorofluorocarbons

A total of one (1) air conditioner containing a two (2) gallon Freon tank was identified within the inspection building. The Freon must be reclaimed from the tanks prior to building demolition.

The associated inspection data is provided in Table III.

5. COST ESTIMATES

This is a budgetary opinion of cost that is expected to be within -15 to + 30 percent of the actual cost. Eagle Environmental, Inc. has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor or Contractors' methods of determining prices, or over competitive bidding or market conditions. Eagle Environmental, Inc.'s opinion of probable cost of abatement are made on the basis of Eagle Environmental, Inc.'s experience and qualifications and represent Eagle Environmental, Inc.'s judgment as an experienced and qualified consultant familiar with the abatement industry; but Eagle Environmental, Inc. cannot and does not guarantee that proposals, bids or actual Total Project or Abatement Cost will not vary from opinions of probable cost prepared by Eagle Environmental, Inc. If, prior to the bidding or negotiating phase, the Owner wishes greater assurance as to Total Project or Abatement Cost, the Owner shall employ an independent cost estimator.

The cost estimates are provided in Appendix 4.

TABLE I

ASBESTOS CONTAINING MATERIALS SUMMARY TABLE

TABLE I ASBESTOS CONTAINING MATERIALS SUMMARY TABLE BOROUGH OF NAUGATUCK 1 SOUTH MAIN STREET NAUGATUCK, CONNECTICUT

TOCATIONS	MATERIAL TVPF	SAMPLE NIMBER CATECORY BULK SAMPLE ANALYSIS RESULTS DESTIMATED	CATECODV	BULK SA	APPED ANALYSI	SRESULTS	ESTIMATED	ava
				PLM	PLM PUMPC TEMNOB ACM QUANTITY	NOB ACM	QUANTITY	
Doof	Gray tar at base	1-31-EL-15	USIN	3% Chrys	-	VEC	ц, с	ME
IMAN	of HVAC unit	1-31-EL-16	CUIM	DNA			JC 7	INF
Doof	Ton lorier nitch modest tor	1-31-EL-17	U STI A	5% Chrys		VE6	3 86	ATE
TAAN	TOP LAYEL PICKIL POCKEL LAL	1-31-EL-18	CONTAC	DNA			70 7	JN
Doof	Dottom forme witch anology ton	1-31-EL-19	USIN	13% Chrys		VEC.	ЦU С	
TAAV	DOUDT TAYET PLACE LAT	1-31-EL-20) CITM	DNA		ICS	7 OF	LIN I
	A DESCRIPTION OF A A DESCRIPTION OF A DE				TAIANA	ANALYTICAL METHODS	SC 100 SC	
DNA = DID NOT ANALYZE	ALYZE	SF = SQUARE FEET		PLM PC = EP	PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT	NTITATION 4 (00 POINT COUNT	
NAD = NO ASBESTOS DETECTED	S DETECTED	LF = LINEAR FEET		$\mathbf{TEM} \ \mathbf{NOB} = \mathbf{N}$	TEM NOB = NEW YORK ELAP 198.4 METHOD	98.4 METHOD		
$\mathbf{F} = \mathbf{FRIABLE}$		Chrys = Chrysotile		PLM = EPA 600/R-93/116	00/R-93/116			
NF = NON-FRIABLE		Amos = Amosite		PS = Previously Sampled	y Sampled			
TSI = THERMAL SYS	TSI = THERMAL SYSTEMS INSULATION	Anth = Anthophylite		$\mathbf{EA} = \mathbf{Each}$				
SURF = SURFACING MATERIAL	MATERIAL	Trem = Tremolite						
MISC = MISCELLANEOUS MATERIAL	EOUS MATERIAL	Croc = Crocidolite						
	BOLI	BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION	OLUMN INDICA	FES SAMPLE L	OCATION			

TABLE II

NON-ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

4

NON - ASBESTOS CONTAINING MATERIALS 1 SOUTH MAIN STREET NAUGATUCK, CONNECTICUT BOROUGH OF NAUGATUCK SUMMARY TABLE TABLE II

SAWPTR		SAMPLE		BUT K	BULK SAMPLEANA WSIS RESULTS	TIYSIS RESUT	LS
LOCATION(S)	MALERAL TYPE	NUMBER	CALEGORY	JULU	PLNPC	TEMNOB	ACM
100	Current of the second second of the second	1-31-SD-01	USER	NAD			<u>ON</u>
001, 024	Oray aunesive on uark one carpet	1-31-SD-02	OCITAI	NAD			ON
006 016	Monto the Martine from the Martine to Martine the Martine to Martine the Martine to Martine the Martine to Ma	1-31-SD-03		DAD			ON
000, 010		1-31-SD-04	OCITAI	NAD			ON
000 110	Wolf and active ising community	1-31-SD-05	VISU	NAD			ON
014, U2U	wan and centred joint compound	1-31-SD-06	OCITA	NAD			ONT ONT
011 000	Wall & ceiling composite	1-31-SD-07	MISC	NAD			ON
014, 020	sheetrock/joint compound	1-31-SD-08	CULVI	NAD			DV1
004 015	Game adhacters on blackhite around	1-31-SD-09	USIM	DAD			ON
CTN '+NN	Oray autresive out Dutte withte carpet	1-31-SD-10	OCITA	NAD			Ovr
CC0 C10	12w73 Curvell hold additioned the	1-31-SD-11	USIN.	NAD			ON
014, U24		1-31-SD-12	OCITAI	NAD			
L00 200		1-31-SD-13		QAN			ON
/ 00, 600		1-31-SD-14	OCTIM	NAD			ON .
000 700	1033.41033 William 400000 410	1-31-SD-15	USLIVE VLISU	NAD			ON
000, 000		1-31-SD-16	OCITA	NAD			ONT .
200	W/off a discrete	1-31-SD-17	U STA	NAD			ÛN
000		1-31-SD-18	OCITAI	NAD			ONT
000	W/allacara according	1-31-SD-19		NAD			ON
100	w antraper gray annexive	1-31-SD-20	OCITAT	NAD			241
000	Dlade montio variae alore flave tilo	1-31-SD-21	USIN	NAD			ON
600	DIACK INASUC UNUCI CIAY ILOUI LILC	1-31-SD-22	OCTIV	NAD			241
000	Construction condition floored in	1-31-SD-23	USIM	NAD			ON
600	Oray aunesive under clay moor une	1-31-SD-24	OCTIM	NAD			ONT
					MANATAN CALIMITIHODS	METHODS	
DNA = DID NOT ANALYZE		SF = SQUARE FEET	ET	PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT	/R-93/116 QUANT	ITATION 400 POI	NT COUNT
NAD=NO ASBESTOS DETECTED	ITECTED	LF = LINEAR FEET	ET	TEM NOB = NEW YORK ELAP 198.4 METHOD	YORK ELAP 198.4	I METHOD	
F = FKIABLE		Curys = Curysoule Amos - Amosita	Ð	PLM = EFA 000/R-93/110 PS = Presionshy Sampled	011.0 mlad		
INF = NUN-FRIABLE TSI = THERMAL SYSTEMS INSULATION	EMS INSULATION	Autos – Autosite Anth = Anthophylite	ite	EA = Each	nardi		
SURF = SURFACING MATERIAL MISC = MISCELLANEOUS MATERIAL	ATERIAL DUS MATERIAL	Trem = Tremolite Croc = Crocidolite					
	BOLD TEXT IN	OCATION" COLUN	MN INDICATES SA	"LOCATION" COLUMN INDICATES SAMPLE LOCATION			

Non-ACMSummaryTable.xls

NON - ASBESTOS CONTAINING MATERIALS BOROUGH OF NAUGATUCK 1 SOUTH MAIN STREET NAUGATUCK, CONNECTICUT SUMMARY TABLE TABLE II

		CANTOT F		ST HER GREET AND FANDLE AND FOR THE	VA CIPREILES
LOCATION(S)	MATERIAL TYPE	NUMBER	CATEGORY		TEM NOB ACM
		1-31-SD-25			
600	Clay Iloor ule grout	1-31-SD-26) ALL O	NAD	
011 017	Dark crean ctair tread-crease adhaoirea	1-31-SD-27	MISC	NAD	UN
7T7, 7T7	TAIR BICOL STALL LEAU-BICY AULICEIVE	1-31-SD-28	OCITIVI	NAD	
011 017	Dark graan stair trand	1-31-SD-60	VILCU	NAD	UN
V11, V12	Dalk green stan ucau	1-31-SD-61	OCITAI	NAD	D.
016	Dina normat linkt herror adhaniva	1-31-SD-29	MICO	NAD	QN
010		1-31-SD-30		NAD	
760 260	Current of the second of the s	1-31-SD-31	U SII N	NAD	UN VI
070,110		1-31-SD-32	OCITIVI	NAD	
200 210	المستعمدة فالمحمد فألم مستعدد	1-31-SD-33	MICO	NAD	QN
071, 020	Certarine moor me grout	1-31-SD-34		NAD	
760 660	Brown adhesive on door	1-31-SD-35	VILOU	NAD	UN I
077, 070	casing/wood cove base	1-31-SD-36	OCTIN	NAD	
200	White which are and a solution of the states of	1-31-SD-37		NAD	UX
070	WINE LUDDELY CAULY ALOUND DALLIND	1-31-SD-38	OCTIVI	NAD	
001 013	W/~~dan ^^* hora dou'r hwww odhaeirra	1-31-SD-39	MISC	NAD	Ş
CTN (TNN	W UCUCH COVE DASE HALLS ULOWLI AULICSIVE	1-31-SD-40	CITA	NAD	
1cu	Dial- tes as issued at a second attends	1-31-SD-41	VILO	NAD	QN
170		1-31-SD-42	TATISC	NAD	ON1
006 007	White winst corres have adhevised	1-31-SD-52	MIRC	NAD	UN
000	WILLE VILLY COVE DASE BLAY AULIESIVE	1-31-SD-53	CULT	NAD	
200 200	White wint of the	1-31-SD-54	MISC	NAD	ÇŽ
000,007	W MUE VILLY COVE DASE	1-31-SD-55	OCITIAT	NAD	
				SQ0HUEIWIGWIGWIGWIGWIGWIGWIGWIGWIGWIGWIGWIGWIG	AND DESCRIPTION OF A DE
DNA = DID NOT ANALYZE	ZE	SF = SQUARE FEET	EET	PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT	VIION 400 POINT COUNT
NAD=NO ASBESTOS DETECTED	ETECTED	LF = LINEAR FEET	LET	TEM NOB = NEW YORK ELAP 198.4 METHOD	ETHOD
F = FKIABLE WE NON EDITEL		Curys = Curysoule Amee = Ameeite	le	PLLM = ELA 000/R-95/110 PS = Draviouely Somulad	
TSI = TUN-FRUABLE TSI = THERMAL SYSTEMS INSULATION	EMS INSULATION	Anth = Anthophylite	lite	$\mathbf{EA} = \mathbf{Each}$	
SURF = SURFACING MATERIAL MISC = MISCELLANEOUS MATERIAL		Trem = Tremolite Croc = Crocidolite	ر م		
	BOLD TEXT IN	OCATION" COLU	MN INDICATES S /	"LOCATION" COLUMN INDICATES SAMPLE LOCATION	

Non-ACMSummaryTable.xls \/Eaglesvr\public\2014 Files\2014 Reports\Naugatuck, Borough of\1 South Main Street\1 South Main St - Table II - Non-ACM Summary.xls TII-2

NON - ASBESTOS CONTAINING MATERIALS NAUGATUCK, CONNECTICUT BOROUGH OF NAUGATUCK **1 SOUTH MAIN STREET** SUMMARY TABLE TABLE II

SAMPLE		SAMPLE			BUDKSANNPDDANAUNSISIRDSUUTS	MUNSISIRESUI	L.S.
LOCATION(S)	MAJEKIALIYYE	NUMBER	CALEGORY	PLM	PLMPC	TEM NOB	ACM
015	Reading from caromic tile and	1-31-SD-56	MISC	NAD			ON
CTA	residual from celatine the grout	1-31-SD-57	NOTIA	NAD			Dr.
075		1-31-SD-58	USIM	NAD			ON
C70	Wall 2 Layer spectrock	1-31-SD-59	OCTIM	NAD			ON
1.01	Duct would flew commenter	1-31-SD-62		NAD			ON
170	DUCI WOLN LICA COMPLEXIVE	1-31-SD-63	COTTAL	NAD			<u>ov</u>
0.71	Rlack tar on sink (undercosting)	1-31-SD-64	MISC	NAD			ON
TTA	DIACK MI OIL SILLS (HINCI CUALLIE)	1-31-SD-65	OCITAI	NAD			04
0.12	72×12 ficentrad railing files	1-31-SD-66	JSLM	NAD			UN
C70		1-31-SD-67	COTTAT	NAD			04
900 100	Dron cailing chaotrool	1-31-SD-68	MISC	NAD			UN
077, 040	LIOP COLLING MICCHOCK	1-31-SD-69	NCTIV	NAD			041
701 002	Denne solitere solered	1-31-SD-70	USIN	NAD			ON
070,170	DIOP CELITIS JUIL COMPOUND	1-31-SD-71	OCITAT	NAD			ON1
960 160	Drop ceiling composite	1-31-SD-72	MISC	NAD			ON
071, 040	sheetrock/joint compound	1-31-SD-73	COTTA	NAD			
Econdo D	Guari anulle anairad amatti mindarea	1-31-SD-45	USIM	NAD			ON
r ayaue D	ULEY COULD ALOULU SULAL WILLOWS	1-31-SD-46	CITAT	NAD			24
		1-31-SD-78		NAD			
		1-31-SD-79		NAD			
Façade C, Façade D	Hard coat exterior wall plaster	1-31-SD-80	SURF	NAD			NO
		1-31-SD-81		NAD			
		1-31-SD-82		NAD			
					SUOTING AND THE SUCCESSION OF	METHODS	
DNA = DID NOT ANALYZE	ZE	SF = SQUARE FEET	JET Ter	PLM PC = EPA 60	PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT	LITATION 400 POI	NT COUNT
NADENU ABBESTUS DETEUTED Fr = FRIARLE	JECTED	LF = LUNEAK FEE I Chrvs = Chrvsofile	1.1.1 P	LEM NOB = NEW TOKN PLM = EPA 600/R-93/116	LEMI NOB = NEW TOKN ELAF 1964 METROD PLM = RPA 600/R-93/116		
NF = NON-FRIARLE		Amos = Amosite	2	PS = Previously Sampled	mpled		
TSI = THERMAL SYSTEMS INSULATION	MS INSULATION	Anth = Anthophylite	ite	EA = Each			
SURF = SURFACING MATERIAL MISC = MISCELLANEOUS MATERIAL	ATERIAL US MATERIAL	Trem = Tremolite Croc = Crocidolite	0				
	BOLD TEXT IN	"LOCATION" COLUMN INDICATES SAMPLE LOCATION	MN INDICATES SA	MPLE LOCATION			
					-		

Non-ACMSummaryTable.xis \/Eaglesvr\public\2014 Files\2014 Reports\Naugatuck, Borough of\1 South Main Street\1 South Main St - Table II - Non-ACM Summary.xls T1I-3

NON - ASBESTOS CONTAINING MATERIALS NAUGATUCK, CONNECTICUT BOROUGH OF NAUGATUCK **1 SOUTH MAIN STREET** SUMMARY TABLE TABLE II

SAMPLE		SAMPLE		BITK SAWP FANA VSIS US ITTS	NS REAL
LOCATION(S)	MATERIAL TYPE	NUMBER	CALECORY	PLM PLMPC TE	TEM NOB
		1-31-SD-49		NAD	
		1-31-SD-50		NAD	
Façade C, Façade D	Skim coat exterior wall plaster	1-31-SD-51	SURF	NAD	ON
		1-31-SD-76		NAD	
		1-31-SD-77		NAD	
	Dout white done mult	1-31-SD-47	JULIC	NAD	QZ
raçaue n		1-31-SD-48	ACTIV	ŅAD	Ch.
		1-31-SD-74	USLIV	NAD	012
raçaue C	דאו אר האוויים איזויים איזויים איזויים איזויים איזויים באיזיים באיזיים באיזיים באיזיים באיזיים באיזיים באיזיים	1-31-SD-75	OCITA	NAD	
Fcood D	Derror coult convert his winds we	1-31-SD-43	USIN	NAD	Ņ
raçane n	DIOWIL CALLY ALOUILU DIE WILLIUWS	1-31-SD-44	CUTAT	NAD	
F	Seam cement on black	1-31-EL-01	COLV	NAD	QN
K001	rolled roofing	1-31-EL-02	OCITA	NAD	
J v v G	Tour loost to look and an added	1-31-EL-03	VII.	NAD	NO
K001		1-31-EL-04	COTIN	NAD	
J. C		1-31-EL-05	VIIC	NAD	UN
K001	l ar between 1 and 2 root layer	1-31-EL-06		NAD	
Deef		1-31-EL-07	MISC	NAD	UN
INUUI	 Layer roued rooting teit paper 	1-31-EL-08	ACTTAT	NAD	OV.
Deef		1-31-EL-09	MISC	NAD	UN I
IUUN	rayer routed routing light c	1-31-EL-10	ACTIM	NAD	
				ANADARICAL METHODS	RODSILITIERIS
DNA = DID NOT ANALYZE	ZE	SF = SQUARE FEET	BET	PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT	ION 400 POINT COUNT
NAD=NO ASBESTOS DETECTED F = FDIARI F	11ECTED	LF = LINEAK FEET Chrvs = Chrveofile	E.I.	JEMI NOB = NEW YOKK ELAF 198.4 METRUD PLMI = F.PA 600/R-93/116	HUD
NF = NON-FRIABLE		Amos = Amosite		PS = Previously Sampled	
TSI = THERMAL SYSTEMS INSULATION	IMS INSULATION	Anth = Anthophylite	ite	$\mathbf{E}\mathbf{A} = \mathbf{E}\mathbf{ach}$	
SURF = SURFACING MATERIAL MISC = MISCELLANEOUS MATERIAL	ATERIAL DIS MATERIAL	Trem = Tremolite Croc = Crocidolite	0		
	BOLD TEXT IN	OCATION" COLU	"LOCATION" COLUMN INDICATES SAMPLE LOCATION	MPLE LOCATION	

Non-ACMSummaryTable.xls \/Eaglesvr\public\2014 Files\2014 Reports\Naugatuck, Borough of\1 South Main Streef\1 South Main St - Table II - Non-ACM Summary.xls TII-4

TABLE II NON - ASBESTOS CONTAINING MATERIALS SUMMARY TABLE BOROUGH OF NAUGATUCK 1 SOUTH MAIN STREET NAUGATUCK, CONNECTICUT

SANPLLE		SAMPLE		BULKSAMPLE	BULK SAMPLE ANALYSIS RESULTS	
LOCATION(S)	MALONIALI	NUMBER	CALEGURI	PLM PLM PLM PC	TEMINOB AGM	
υ υ υ		1-31-EL-11	VIEC	NAD		
IOOM	roiyiso poaru paper	1-31-EL-12	OCTIM	NAD		
ι, Υ	Dlast the as the off and we will	1-31-EL-13	COIM	NAD		
IUUI		1-31-EL-14	OCITAI	NAD		
a. F		1-31-EL-21	V LC V	NAD		
TOON	Olay aspirati sumgre on wood haich	1-31-EL-22	OCTIM	NAD		
				ANALYTICAL METHODS	DAL METHODS	
DNA = DID NOT ANALYZE		SF = SQUARE FEET	deT	PLM PC = EPA 600/R-93/116 QU	PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT	T
NAD=NO ASBESTOS DETECTED	ETECTED	LF = LINEAR FEET	ET	TEM NOB = NEW YORK ELAP 198.4 METHOD	198.4 METHOD	
$\mathbf{F} = \mathbf{FRIABLE}$		Chrys = Chrysotile	<u>ہ</u>	PLM = EPA 600/R-93/116		
NF = NON-FRIABLE		Annos = Annosite		PS = Previously Sampled		
TSI = THERMAL SYSTEMS INSULATION	EMS INSULATION	Anth = Anthophylite	ite	$\mathbf{EA} = \mathbf{Each}$		
SURF = SURFACING MATERIAL	ATERIAL	Trem = Tremolite				
MISC = MISCELLANEOUS MATERIAL		Croc = Crocidolite				
	BOLD TEXT IN "L	DCATION" COLUI	MN INDICATES SA	"LOCATION" COLUMN INDICATES SAMPLE LOCATION		

TABLE III

UNIVERSAL WASTE MATERIALS SUMMARY TABLE

.

TABLE III UNIVERSAL WASTE PRODUCTS SUMMARY TABLE BOROUGH OF NAUGATUCK 1 SOUTH MAIN STREET NAUGATUCK, CONNECTICUT

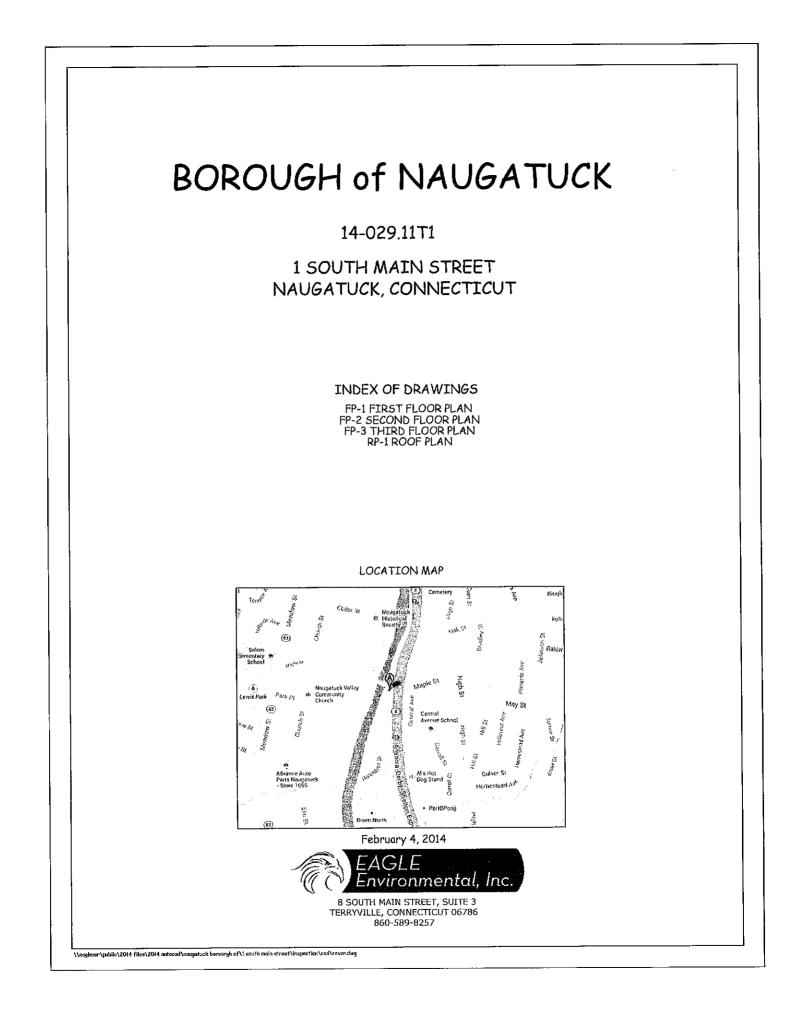
INDRATO: 1	CFCS STAUSE DF ROUND		litioner 1 Air 1 Conditioner 1 1 12		16 LF										NOTES	ghting System				
E BAELASIFIYAE	SPENT CA	6	6 1 Air Conditioner								3					YS: FA = Fire Alarm / ES = Exit Sign / ELS = Emergency Li	Type 1 - 2' x 2' Recessed in grid; Universal 446-L-SLH-TC-P	FIXTURE TYPE Type 2 - Rectangle Metal Box; Magnetek 446-L-SLH-TC-P	ON	
R CON		003 1	004 I	I 600	010 2	011	013 1	016	019	020 1	021 1	024 1	025	TOTAL		KE		FIXTURE TY	DESCRIPTION	

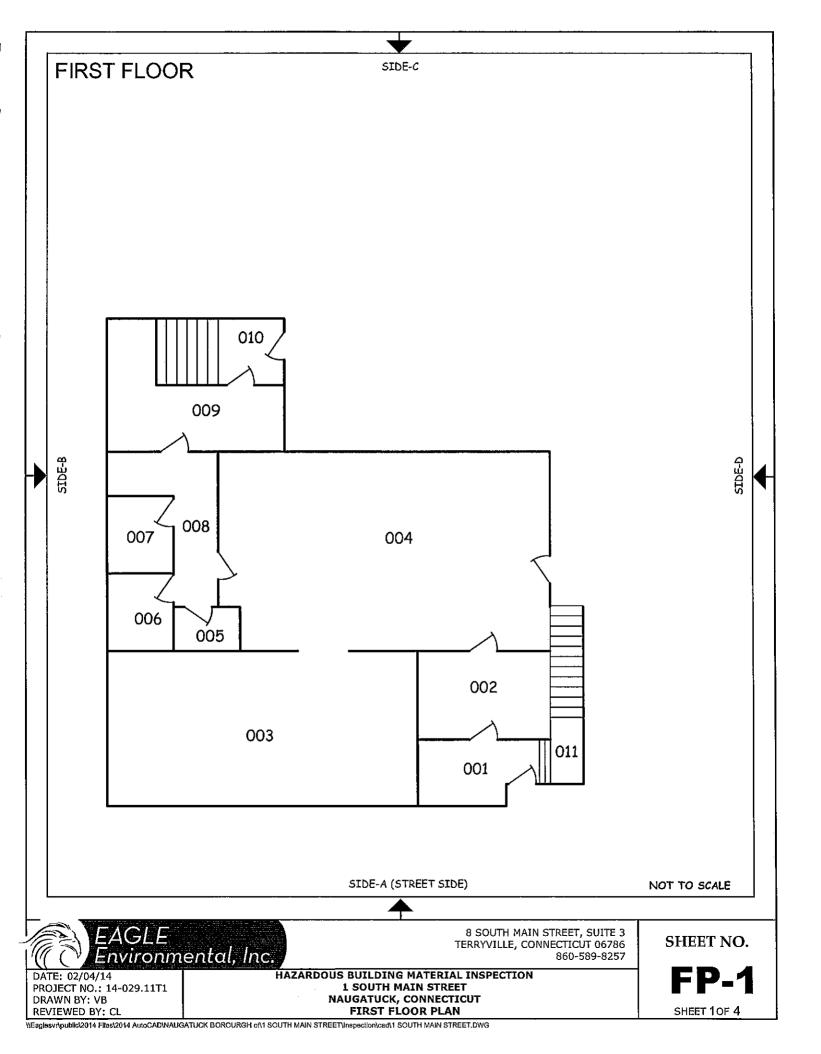
APPENDIX 1

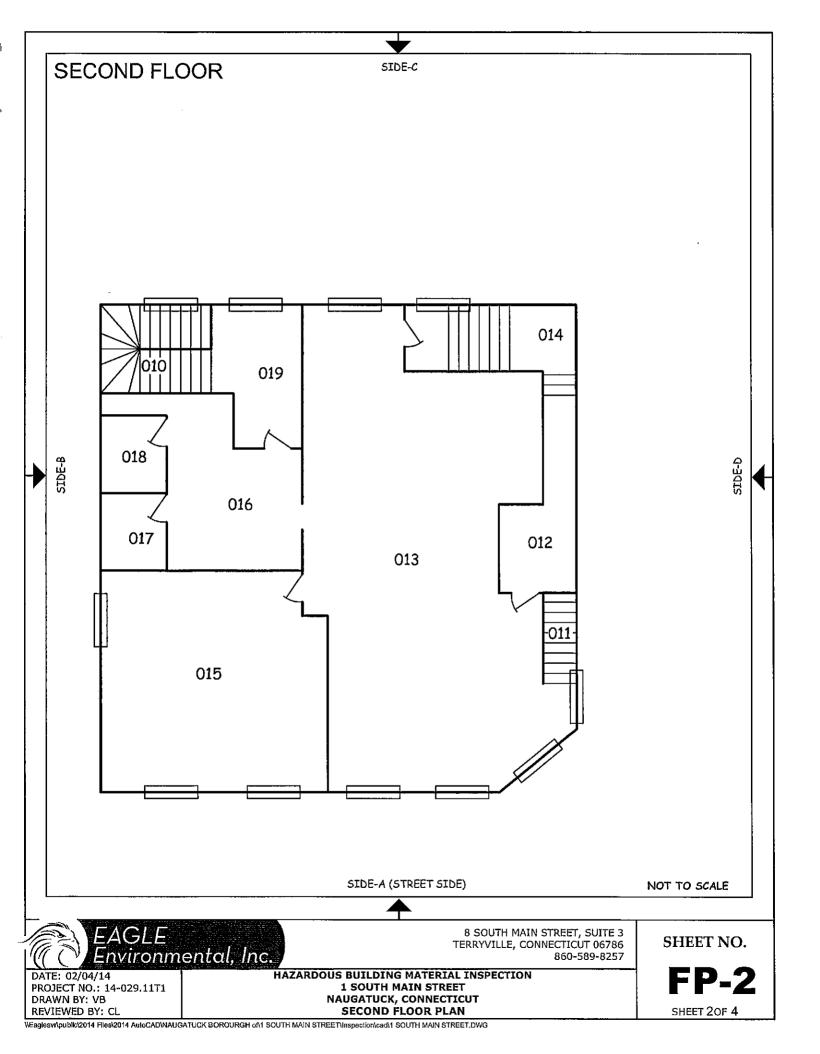
I

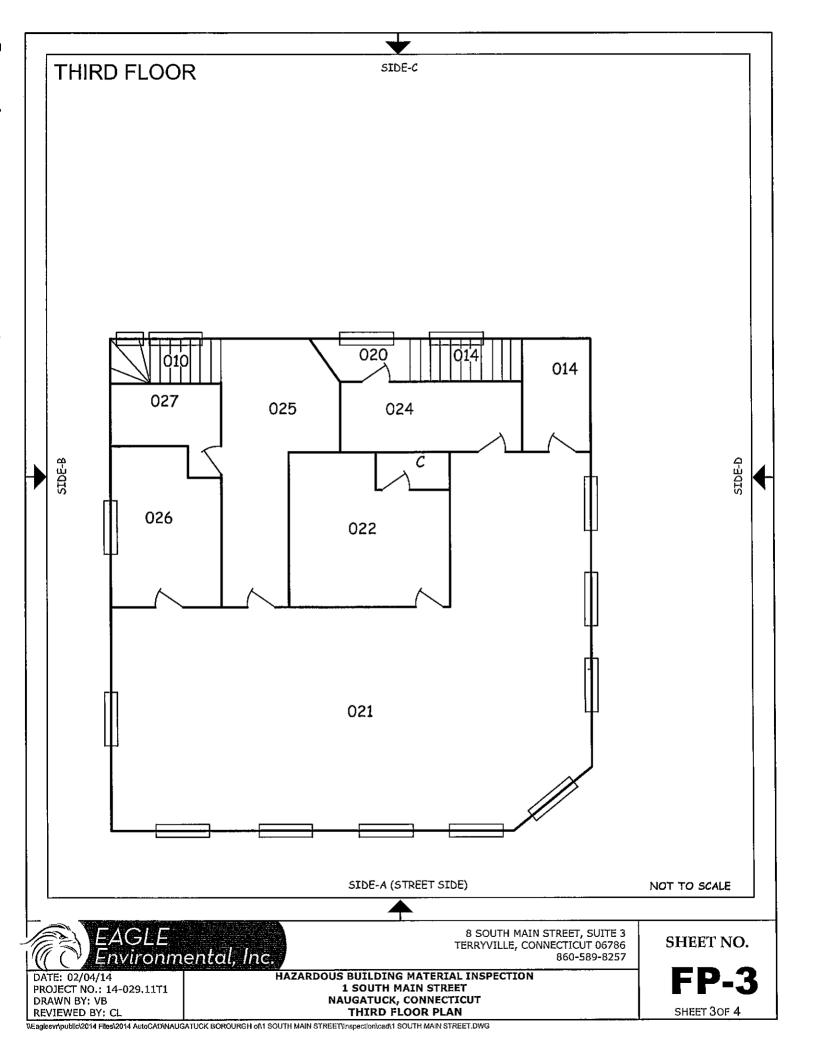
•

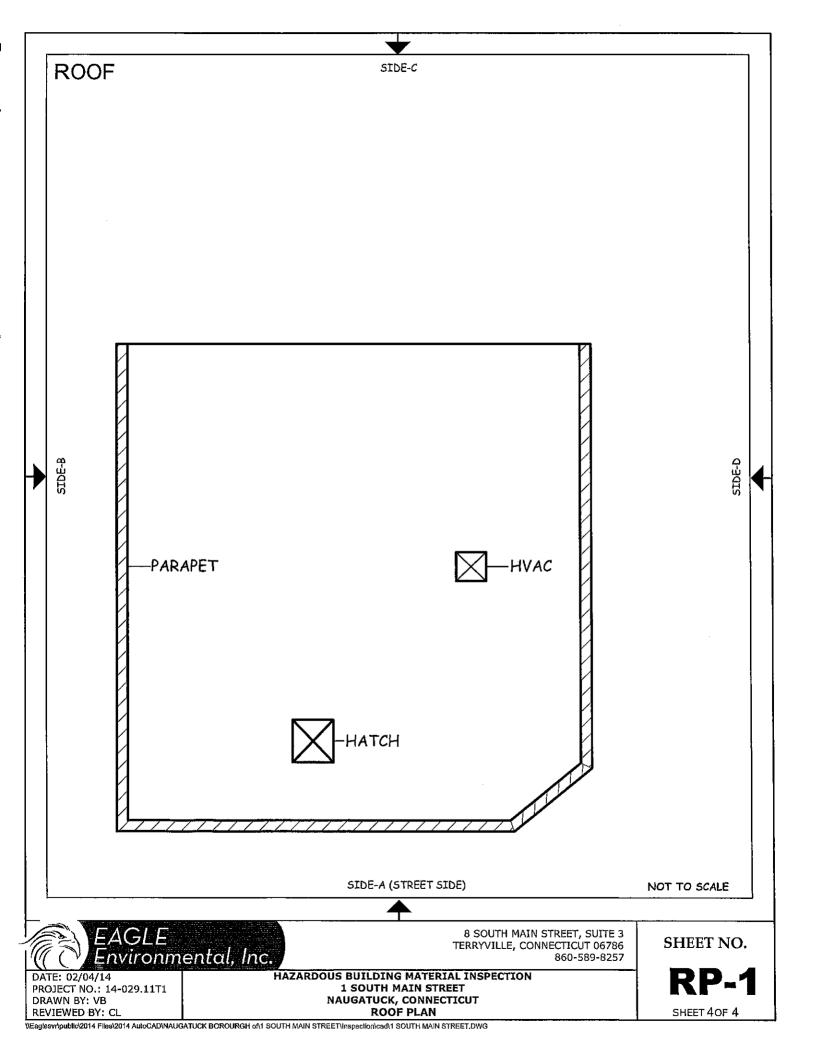
FLOOR PLANS











APPENDIX 2

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ASBESTOS BULK SAMPLE LABORATORY REPORTS

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TEM BULK Opical Particle Identification Drop Mount (Qualitative) Dust Miles and Insect Fragments Opical Particle Size & Distribution Particle Size & Distribution TEM NOB (Gravimetric) NY 198.4 Product Comparison TEM MICROVAC Paint Characterizaton ASTM D 5755-85 (Quantitative) Failure Analysis		EMSL – MA 7 Constitution Way, Ste 107 Woburn, MA 01801 (781) 933-8411 (781) 933-8412 Fax	EMSL - CTEMSL - NY29 N. Plains Hwy, Unit 4307 West 38Wallingford, CT 06492New York, N(203) 284-5948(866) 448-36(203) 284-5978 Fax(212) 290-00	Y 10018 Westmont, NJ 08108 75 (800) 220-3675
Street: 8 South Main Street, Suite 3 Chy/State/Zip: Terryville, CT 06786 Phone: 860-586-5257 ext. 203 Fax: 860-586-7034 Email: Maintancelises/desaleanvito.com Project Name Naugatuck Borough of Project #: 14-029.11T1 Project Location: 1 South Main Street, Naugetuck Project #: 14-029.11T1 Original Contention: 1 South Main Street, Naugetuck Project State (US): TURNAROUND TiME 0 44 Hours 0 44 Hours 0 72 Hours 0 5 Days 0 6-10 Days Air EBuik 0 50 II Wige, SW46-7420 Dirinking Water 0 Westewater 0 Chips Project State (US): LEAD ANALYSIS Flame Atomic Absorption on ASTM 0 Soli State (US): Project State (US): USA 47.00 (A) Issue 2: August 1894 Effane Atomic Absorption on ASTM 0 Soli State (US): INICER 17.00 (A) Issue 2: August 1894 Effane Atomic Absorption on ASTM 0 Soli State (US): IPA Abit (State / 200 ASTM = Cont	Your Name:	Brandy LeBlanc	Project Mar	nager: C.L.
Chy/State/Zip: Torryville, C1 05786 Phone: 860-589-8257 ext. 203 Fax: 560-589-7034 Email: Matandiansederation.com Project Name Naugatuck Borough of Project #: 14-023.111 Project Location: 1 South Main Street, Naugatuck Project #: 14-023.111 Project Location: 1 South Main Street, Naugatuck Project State (US): TURNAROUND TIME If A Project State (US): Air If Burns If A Project State (US): Air Samples If A Project Mathing Water Other Air Samples If Charse State (US): If A Project Mathing Water Other Air NOSH 7402 (Nissue 2: August 1994 If A Project Mathing Water Other If A Project Mathing Water A Ore, Pant 783 Subpart E If Molds F Rungib Y A Project Call State (Collinms: Feed Colinms: Feed Collinms: Feed Collinms: Feed Collinms: Fe	Company:	Eagle Environmental, Inc.		84 Mar 2019 In 19 19 19 19 19 19 19 19 19 19 19 19 19
Phone: 860-589-8237 ext. 203 Fax: 860-588-7034 Email: Methanofilesalesmino.com Project Name Naugatuck Borough of Project 4: 14-02.11171 Project Location: 1 South Main Street, Naugatuck Project 3tate (US): TURNAROUND TIME 3 Hours 3	Street:	8 South Main Street, Suite 3		
Project Name Naugatuck Borough of Project #: 14-028,11T1 Project Location: 1 South Main Street, Naugetuck Project #: 14-028,11T1 Project Location: 1 South Main Street, Naugetuck Project State (US): Units 6 Hours 24 Hours 072 Hours 074 Hou	City/State/Zip	Terryville, CT 06786		
Project Location: 1 South Main Street, Naugstuck Project State (US): TURNAROUND TIME Image: Comparison of the street in the street	Phone:	860-589-8257 ext. 203		
TURNARQUIND TIME TURNARQUIND TIME Image: Samples Image: Samples SAMPLE MATRIX Air Colspan="2">Chips Other Asset colspan="2">SAMPLE MATRIX MICROBIAL ANALYSIS Image: Atomic Absorption Image: Atomic Absorption MICROBIAL ANALYSIS MICROBIAL ANALYSIS <t< td=""><td>Project Name</td><td>Naugatuck Borough of</td><td>Project #: 14-029.1</td><td>1T1</td></t<>	Project Name	Naugatuck Borough of	Project #: 14-029.1	1T1
Image: Strain	Project Locati	ion; 1 South Main Street, Naugatu	ck Project Sta	nte (US):
SAMPLE MATRIX Air EBulk Other Assessment Other Micro-Vac Dirinking Water Other ASBESTOS ANALYSIS LEAD ANALYSIS Micro-Vac Other ASBESTOS ANALYSIS LEAD ANALYSIS Micro-Vac Micro-Vac Optimized State Arrows Astronic Absorption Micro-Vac Micro-Vac Optimized State Arrows Colspan="2">Micro-Vac Micro-Vac Optimized State Arrows Colspan="2">Micro-Vac Micro-Vac Optimized State Arrows Colspan="2">Micro-Vac Micro-Vac Micro-Vac Micro-Vac Micro-Vac Micro-Vac Micro-Vac Micro-Vac Micro-Vac Micro-Vac Optimized State Micro-Vac Mode State Micro-Vac M				
Air EBulk Other Assessment Other Other Assessment Other Other Assessment Other Other Assessment Other Other Other Assessment Chips Other Assessment Chips Other Assessment Chips Miccount 4 Air Samples Nock17400 (A) Issue 2: August 1994 Chips State Atomic Absorption Air Samples Internation Chips State Atomic Absorption Air Samples Internation Chips State Atomic Absorption Air Samples Internation Other Wile State Atomic Absorption Distribution atomic fam Stain Internation Other Wastewater, SW 846-7420 AcAC 5.009 (974.02) Bacterial Count and Identification Internation Other Chips State Atomic Absorption Distribution Distribution Item Atomic Atomic Atomic Absorption Chips State Atomic Atomic Absorption Distribution Distribution Item Atomic Ato	Ci 3 Hours C	3 6 Hours □ 24 Hours □ 4		Days 🛛 G-10 Days
ASBESTOS ANALYSIS LEAD ANALYSIS MICROBIAL ANALYSIS PCM - Air []MOSH 7400 (A) Issue 2: August 1994 []Gitting E W846-7420 []ASTM [] non ASTM [] []MOG & Fungi by Air O Cell []MOSH 7402 (A) Issue 2: August 1994 []Gitting E W846-7420 []ASTM [] non ASTM [] []MOG & Fungi by Air O Cell []MOSH 7402 Issue 2: August 1994 []Gitting E W846-7420 []ASTM [] non ASTM [] []MOG & Fungi by Air O Cell []MOSH 7402 Issue 2: []EPA Level II []Citting E W846-7420 []ASTM [] non ASTM []] []Bacterial Count and Gram Stain []] []MOSH 7402 Issue 2: []EPA Level II []Citting E Wrace Atomic Absorption []] []Citting E W846-7421 []] []Bacterial Count and Identification []] []MOSH 7830116 []Attrin Kinosh 7421 []Citting E Wrace Atomic Absorption []] []Citting E Wasewater, SW846-7421 []] []Citting E and E with Statified []] []		ABulk I CI Soil I CI V		astewater D Chips D Other
PCM - Air Flame Atomic Absorption Air Samples INICSH 7400 (A) Issue 2: August 1994 Given and Second				
TEMWIPE Corrosion Analysis Silica Analysis by XRD [] Niosh 7500 ASTM D-6480-99 Glove Box Containment Study HVAC Efficiency Qualitative[] Petrographic Examination of Concrete Carbon Black TEMWATER OVIERNMENT (OSHA 100-143) Airborne Oli Mist Teth Vac Efficiency Other:	AHERA 40 CFR, I NIOSH 7402 Issu EPA Level II PLM - Bulk EPA Level II California Air Reso NOSH 9002 PLM NOB (Gravini EPA Point Count (Standard Addition SOILS EPA Protocol Qua EPA Protocol Qua E	e-2 Count urce Board (CARB) 435 hetric) NYS 198.1 400 Points) 1,000 Points) 1,000 Points) Point Count litative hetrod fibers/gram 0-R097-028 (dust generation) tative) 8-02 hetric) NY 198.4	Chips, SW846-7420 or AOAC 5.009 (974.02) Wastewater, SW 846-7420 Craphite Furnace Atomic Absorption Air, NIOSH 7105 Soil, SW846-7421 Soil, SW846-7421 Drinking Water, EPA 239.2 CP - Inductively Coupled Plasma Wipe, SW846-6010 Air, NIOSH 7300 MATERIALS ANALYSIS Full Particle Identification Optical Particle Identification Optical Particle Identification Dust Miles and Insect Fragments Particle Size & Distribution Product Comparison Paint Characterizaton Failure Analysis Corrosion Analysis Glove Box Containment Study Petrographic Examination of Concrete Portiand Cement in Workplace Atmospheres (OSHA ID-143)	□Bacterial Count and Identification Water Samples □ Total Coliforms, Fecal Coliforms □Escherichia Coli, Fecal Streptococcus □Legionella □'Salmonella □Giardia and Cryptosporidium Wipe and Bulk Samples Mold & Fungi – Direct Examination Mold & Fungi – Culture follow up to direct examination if necessary) Mold & Fungi – Culture (Count & ID) Mold & Fungi – Culture (Count only) □Bacterial Count & Gram Stain □Bacterial Count & Identification (3 most prominent types) □ Other: IAQ ANALYSIS Nulsance Dust (NKOSH 0500 & 0600) Airborne Dust (PM10, TSP) Silica Analysis by XRD □Nosh 7500 HVAC Efficiency □Carbon Black Airborne Oli Mist

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Client Sample # (S)	1-31-5D-01		1-31-SD-82	TOTA	IL SAMPLE #	82
Rolinguished:	SOULEYMANE DOUMBIA	ANK	Top Pate:	2-3-14	Time:	PM
Received:	RENEE SIOCH	MASS	C Date:	2-3-14	Time:	PM
Relinguished:	RENEESIOCH	W/UX	Date;	2-4-14	Time:	PM
Received:	and the second	T	Date:	2/5/14	Time:	2:52pm
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7 Constitution Way, Ste 107	29 N
Woburn, MA 01801	Wall
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EMSL - NJ 107 Haddon Avenue Westmont, NJ 08108 (800) 220-3675 (856) 858-4960 Fax

ſ	90.950 instant	SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME Air (L.)	Area (inches sq.)
	A second	1-31-SD-01	Gray adhesive on dark blue carpet	:001		
4	21	1-31-SD-02	Gray adhesive on dark blue carpet	024		
_		1-31-SD-03	Wall and celling sheetrock	006	**************************************	
		1-31-SD-04	Wall and celling sheetrock	016		
X	~	1-31-SD-05	Wall and celling joint compound	014		
G.	Ċ	1-31-SD-06	Wall and celling joint compound	020		********
ľ	****	1-31-SD-07	Wall & celling composite sheetrock/joint compound	014		
	Standord	1-31-SD-08	Wall & celling composite sheetrock/joint compound	020		
		1-31-SD-09	Gray adhesive on blue/white carpst	004		******
S.		1-31-SD-10	Gray adhesive on blue/white carpet	015		
	Ά.	- 1-31-SD-11	2'x2' Small hole celling tile	012		
×ſ	Jost .	1-31-\$D-12	2'x2' Small hole celling tile	022		
	*****	1-31-SD-13	Gray Mastic Under 12"x12" Floor Tile	005		
A		1-31-SD-14	Gray Mastic Under 12"x12" Floor Tile	007		
2		1-31-SD-15	12"x12" White Floor Tile	006		
	lafgaar Marabaaranga	1-31-SD-16	12"x12" White Floor Tile	008		
	ł	1-31-SD-17	Wall Panels Adhesive	006		
2		1-31-SD-18	Wall Panels Adhesive	006	**********	1990 (2019)
2	ł	1-31-SD-19	Upper Golden Wall Paper Gray Adhesive	007		
Z		1-31-SD-20	Upper Golden Wall Paper Gray Adhesive	007		nan an
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(781) 933-8412 Fax	
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, , , , , , , , , , , , , , , , , , ,	SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME Air (L)	Area (Inches sq.)
entero, ili	1-31-SD-21	Black mastic under clay floor tile	009		
ź	1-31-SD-22	Black mastic under clay floor tile	009		
X	1-31-SD-23	Gray adhesive under clay floor tile	009		na fan de fan
10 ³	1-31-SD-24	Gray adhesive under clay floor file	009		****
	1-31-SD-25	Clay floor tile grout	009		****
	1-31-SD-26	Clay floor tile grout	009		aniza (anization a single and a single and an anization of the single and a single and a single and a single an
ĩ	1-31-SD-27	Gray adhesive on dark green stair tread	011		*****
in the second	1-31-SD-28	Gray adhesive on dark green stair tread	012		inger operand die holden in die keine die keine die het br>
geoman	1-31-SD-60	Dark green stalr tread	011		
	1-31-SD-61	Dark green stair tread	012		
Ę,	= 1-31-SD,29	Light brown adhesive on blue carpet	016		
Ż	1-31-SD-30	Light brown adhesive on blue carpet	016		<u></u>
	1-31-SD-31	Gray adhesive under ceramic floor tile	017		
7	1-31-SD-32	Gray adhesive under ceramic floor tile	026		
مسيق	1-31-SD-33	Ceramic floor tile grout	017		
200-200-200-200-200-200-200-200-200-200	1-31-SD-34	Ceramic floor tile grout	026		
Ŋ	1-31-SD-35	Brown adhesive on door casing/wood cove base	022		
	1-31-SD-36	Brown adhesive on door casing/wood cove base	026 ·		
Ž/	1-31-SD-37	White rubbery caulk around bath tub	026		
ine na second	1-31-SD-38	White rubbery caulk around bath tub	026	9962-6792-9892-9892-999-999-99-99-99-99-99-99-99-99-99-99	99999995569999999999999999999999999999
Ŕ	1-31-SD-39	Dark brown adhesive on wooden cove base	001		*****
sis	1-31-SD-40	Dark brown adhesive on wooden cove base	013		
A.	1-31-SD-41	Black tar on insulation around exterior walls	021		
andones 	1-31-SD-42	Black tur on Insulation around exterior walls	021		nishi da an
64294296-09479		an de la la secte en la secte de la sec			



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	SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME Air (L)	Area (Inches sq.)
A	1-31-SD-43	Brown caulk around big windows	Façade D		
Æ	1-31-SD-44	Brown caulk around big windows	Façade D		
R	1-31-SD-45	Grey caulk around small windows	Façade B		
	1-31-SD-46	Grey caulk around small windows	Façade B		
	(/ 1-31-SD-47	Dark white door caulk	Façade D		
R	1-31-SD-48	Dark white door caulk	Façade D		annaintean ann an Airtean ann an Air
	1-31-SD-78	Hard coat exterior walls plaster	Façade C		4
	1-31-SD-79	Hard coat exterior walls plaster	Façade C		n (Charles Martin Charles Martin Charles
-	1-31-SD-80	Hard coat exterior walls plaster	Façade C		an a an /del>
X	1-31-SD-81	Hard coat exterior walls plaster	Façade C		
	1-31-SD-82	Hard coat exterior walls plaster	Façade C		
F	1-31-SD-49	Skim coat exterior walls plaster	Façade D	na na station an spann daga Talan a station an station and station	
	1-31-SD-50	Skim coat exterior walls plaster	Façade D		
	1-31-SD-51	Skim coat exterior walls plaster	Façade D		
	1-31-SD-76	Skim coat exterior walls plaster	Façade C		*****
	1-31-SD-77	Skim coat exterior walls plaster	Façade C		*********
.	1-31-SD-52	Gray adhesive on white vinyl cove base	006		
R	1-31-SD-53	Gray adhesive on white vinyl cove base	007		anna dharandha taanna an anna an anna anna anna anna
Batacon	1-31-SD-54	White vinyl cove base	ÛC6		
ananana pananana pananana	1-31-SD-55	White vinyl cove base	007		defen annel an anna an an an anna an anna an anna an an
X	1-31-SD-56	Residual floor ceramic tile grout	015		
R	1-31-SD-57	Residual floor ceramic tile grout	015		
	1-31-SD-58	2 nd Layer wall sheetrock	025	90000000000000000000000000000000000000	
Contraction of the second	1-31-SD-59	2nd Layer wall sheetrock	025		99999999999999999999999999999999999999
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SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME AIr (L)	Area (Inches sq.
1-31-SD-62	Duct flex connector	021		
1-31-SD-63	Duct flex connector	021		
1-31-SD-64	Black tar on sink (undercoating)	021		a (- partin meneral dan kati partin da kati partin
1-31-SD-65	Black tar on sink (undercoating)	021	• • • • • • • • • • • • • • • • • • •	******
1-31-SD-66	2'x4' fissured colling tiles	023	-	an sen an
1-31-8D-67	2'x4' fissured celling tiles	023		nannan an mulan anna ann ann an ann an ann an ann an
1-31-SD-68	Drop ceiling sheetrock	021		andanan an
1-31-SD-69	Drop ceiling sheetrock	021		
1-31-SD-70	Drop ceiling joint compound	021		
1-31-SD-71	Drop celling joint compound	021		
1-31-SD-72	Drop celling composite sheetrock/joint compound	026		Allylan an refer a sayatta alya kalan an a
1•31•SD-73	Drop ceiling composite sheetrock/joint compound	026		
(j. ⁻ 1-31-SD-74	Big windows glazing compound	Façade C		
1-31-SD-75	Big windows glazing compound	Façade C		· · · · · · · · · · · · · · · · · · ·
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EMSL Order: 031404763 CustomerID: EEVM50 CustomerPO: ProjectID:

Attn:	Chris Liberti	Phone:	(860) 589-8257
	Eagle Environmental, Inc CT	Fax:	(860) 585-7034
	8 South Main Street	Received:	02/05/14 3:50 PM
		Analysis Date:	2/9/2014
	Suite 3	Collected:	1/31/2014
	Terryville, CT 06786		
Proje	ct: 14-029.11T1/ NAUGATUCK BOROUGH OF/ 1 SOUTH MAIN STREE	T, NAUGATUCK,	, CT

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Nor	-Asbestos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
1-31-SD-01	001 - GRAY	Gray		87% Matrix	None Detected
031404763-0001	ADHESIVE ON DARK BLUE CARPET	Non-Fibrous Homogeneous		13% Non-fibrous (other)	
1-31-SD-02	024 - GRAY	Gray		27% Ca Carbonate	None Detected
031404763-0002	ADHESIVE ON DARK BLUE CARPET	Non-Fibrous Homogeneous		73% Non-fibrous (other)	
1-31-SD-03	006 - WALL AND	Gray/Tan	23% Cellulose	55% Gypsum	None Detected
031404763-0003	CEILING SHEETROCK	Non-Fibrous Homogeneous		22% Non-fibrous (other)	
1-31-SD-04	016 - WALL AND	Gray/Tan	27% Cellulose	55% Gypsum	None Detected
031404763-0004	CEILING SHEETROCK	Fibrous Homogeneous		18% Non-fibrous (other)	
1-31-SD-05	014 - WALL AND	White		5% Mica	None Detected
031404763-0005	CEILING JOINT COMPOUND	Non-Fibrous		57% Ca Carbonate	
		Homogeneous		38% Non-fibrous (other)	
1-31-SD-06	020 - WALL AND	White		65% Ca Carbonate	None Detected
031404763-0006	CEILING JOINT COMPOUND	Non-Fibrous Homogeneous		35% Non-fibrous (other)	
1-31-SD-07	014 - WALL &	Tan/White	23% Cellulose	33% Gypsum	None Detected
031404763-0007	CEILING COMOSITE	Fibrous		27% Ca Carbonate	
10140-100-0001	SHEETROCK/JOI NT COMPOUND	Homogeneous		17% Non-fibrous (other)	

Analyst(s)

Albert Grohmann (67) Daena Charles (15)

James P & W

James Hall, Laboratory Manager or other approved signatory

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EMSL Order: 031404763 CustomerID: EEVM50 CustomerPO: ProjectID:

Attn:	Chris Liberti Eagle Environmental, Inc CT 8 South Main Street Suite 3 Terryville, CT 06786	Phone: Fax: Received: Analysis Date: Collected:	(860) 589-8257 (860) 585-7034 02/05/14 3:50 PM 2/9/2014 1/31/2014	
Proie	ct 14-029 11T1/ NAUGATUCK BOROUGH OF/ 1 SOUTH	MAIN STREET MAUCATUCK	CT	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				<u>Non-Ask</u>	estos		Asbestos
Sample	Description	Appearance	%	Fibrous	% No	n-Fibrous	% Type
1-31-SD-08	020 - WALL &	Gray/White			75%	Gypsum	None Detected
031404763-0008	CEILING COMOSITE	Non-Fibrous			10%	Ca Carbonate	
	SHEETROCK/JOI NT COMPOUND	Homogeneous			15%	Non-fibrous (other)	
1-31-SD-09	004 - GRAY	Yellow			65%	Matrix	None Detected
031404763-0009	ADHESIVE ON BLUE/WHITE CARPET	Non-Fibrous Homogeneous			35%	Non-fibrous (other)	
1-31-SD-10	015 - GRAY	Yellow			65%	Matrix	None Detected
031404763-0010	ADHESIVE ON BLUE/WHITE CARPET	Non-Fibrous Homogeneous			35%	Non-fibrous (other)	
1-31-SD-11	012 - 2'x2 SMALL	Gray/White	43%	Celluiose	27%	Perlite	None Detected
031404763-0011	HOLE CEILING TILE	Fibrous Homogeneous	13%	Min. Wool	17%	Non-fibrous (other)	
1-31-SD-12	022 - 2'x2 SMALL	Gray/White	43%	Cellulose	27%	Perlite	None Detected
031404763-0012	HOLE CEILING TILE	Fibrous Homogeneous	13%	Min. Wool	17%	Non-fibrous (other)	
1-31-SD-13	005 - GRAY	Yellow			83%	Matrix	None Detected
031404763-0013	MASTIC UNDER 12"x12" FLOOR TILE	Non-Fibrous Homogeneous			17%	Non-fibrous (other)	
1-31-SD-14	007 - GRAY	Gray	· · · ·		20%	Gypsum	None Detected
031404763-0014	MASTIC UNDER 12"x12" FLOOR	Non-Fibrous			40%	Ca Carbonate	
	TILE	Homogeneous			40%	Non-fibrous (other)	

Analyst(s)

Albert Grohmann (67) Daena Charles (15)

James PALO

James Hall, Laboratory Manager or other approved signatory

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EMSL Order: 031404763 CustomerID: EEVM50 CustomerPO: ProjectID:

Attn:	Chris Liberti Eagle Environmental, Inc CT 8 South Main Street Suite 3 Terryville, CT 06786	Phone: Fax: Received: Analysis Date: Collected:	(860) 589-8257 (860) 585-7034 02/05/14 3:50 PM 2/9/2014 1/31/2014	
Proie	ch 14-029 11T1/ NAUGATUCK BOROUGH OF/ 1 SOUTH	MAIN STREET NAUGATUCK	ст	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			<u>Non-A</u>	sbestos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
1-31-SD-15	006 - 12"x12"	White		43% Ca Carbonate	None Detected
031404763-0015	WHITE FLOOR TILE	Non-Fibrous		35% Matrix	
		Homogeneous		22% Non-fibrous (other)	
1-31-SD-16	008 - 12"x12"	White		43% Ca Carbonate	None Detected
031404763-0016	WHITE FLOOR TILE	Non-Fibrous		35% Matrix	
	nee	Homogeneous		22% Non-fibrous (other)	
1-31-SD-17	006 - WALL	Yellow		85% Matrix	None Detected
031404763-0017	PANELS ADHESIVE	Non-Fibrous Homogeneous		15% Non-fibrous (other)	
1-31-SD-18	006 - WALL	Yellow		85% Matrix	None Detected
031404763-0018	PANELS ADHESIVE	Non-Fibrous Homogeneous		15% Non-fibrous (other)	
1-31-SD-19	007 - UPPER	White		5% Mica	None Detected
031404763-0019	GÖLDEN WALL PAPER GRAY	Non-Fibrous		53% Ca Carbonate	
	ADHESIVE	Homogeneous		42% Non-fibrous (other)	
1-31-SD-20	007 - UPPER	White		5% Mica	None Detected
031404763-0020	GOLDEN WALL PAPER GRAY	Non-Fibrous		53% Ca Carbonate	
	ADHESIVE	Homogeneous		42% Non-fibrous (other)	
1-31-SD-21	009 - BLACK	Black		100% Non-fibrous (other)	None Detected
031404763-0021	MASTIC UNDER CLAY FLOOR TILE	Non-Fibrous Homogeneous			

Analyst(s)

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James Hall, Laboratory Manager or other approved signatory

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EMSL Order: 031404763 CustomerID: EEVM50 CustomerPO: ProjectID:

Eagle Environmental, Inc CT France R 8 South Main Street A Suite 3	Phone: Fax: Received: Analysis Date: Collected:	(860) 589-8257 (860) 585-7034 02/05/14 3:50 PM 2/9/2014 1/31/2014
Project: 14-029.11T1/ NAUGATUCK BOROUGH OF/ 1 SOUTH MAIN STREET,	NAUGATUCK	CT.

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-	Asbestos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
1-31-SD-22	009 - BLACK MASTIC UNDER	Tan Non-Fibrous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
031404763-0022	CLAY FLOOR TILE	Homogeneous			
1-31-SD-23	009 - GRAY	White		57% Ca Carbonate	None Detected
031404763-0023	ADHESIVE UNDER CLAY FLOOR TILE	Non-Fibrous Homogeneous		43% Non-fibrous (other)	
1-31-SD-24	009 - GRAY	White		57% Ca Carbonate	None Detected
031404763-0024	ADHESIVE UNDER CLAY FLOOR TILE	Non-Fibrous Homogeneous		43% Non-fibrous (other)	
1-31-SD-25	009 - CLAY	Gray		45% Quartz	None Detected
031404763-0025	FLOOR TILE GROUT	Non-Fibrous Homogeneous		17% Ca Carbonate	
		nomogeneous		38% Non-fibrous (other)	
1-31-SD-26	009 - CLAY	Blue		20% Ca Carbonate	None Detected
031404763-0026	FLOOR TILE GROUT	Non-Fibrous Homogeneous		80% Non-fibrous (other)	
1-31-SD-27	011 - GRAY	Brown		93% Matrix	None Detected
031404763-0027	ADHESIVE ON DARK GREEN STAIR TREAD	Non-Fibrous Homogeneous		7% Non-fibrous (other)	
1-31-SD-28	012 - GRAY	Yellow		95% Matrix	None Detected
031404763-0028	ADHESIVE ON DARK GREEN STAIR TREAD	Non-Fibrous Homogeneous		5% Non-fibrous (other)	

Analyst(s)

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James PALO

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EMSL Order: 031404763 CustomerID: EEVM50 CustomerPO: ProjectID:

· · · · ·								
	Chris Liberti Eagle Environmental, Inc CT 8 South Main Street	Phone:	(860) 589-8257					
		'Fax:	(860) 585-7034					
		Received:	02/05/14 3:50 PM					
		Analysis Date:	2/9/2014					
	Suite 3 Terryville, CT 06786	Collected:	1/31/2014					
Proie	oject: 14-029.11T1/ NAUGATUCK BOROUGH OF/ 1 SOUTH MAIN STREET, NAUGATUCK, CT							

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

	Description		Non-As	<u>Asbestos</u>	
Sample		Appearance	% Fibrous	% Non-Fibrous	% Type
1-31-SD-60	011 - DARK GREEN STAIR TREAD	Gray		65% Matrix	None Detected
031404763-0029		Non-Fibrous Homogeneous		35% Non-fibrous (other)	
1-31-SD-61	012 - DARK	Gray		65% Matrix	None Detected
031404763-0030	GREEN STAIR TREAD	Non-Fibrous Homogeneous		35% Non-fibrous (other)	
1-31-SD-29	016 - LIGHT	Yellow		85% Matrix	None Detected
031404763-0031	BROWN ADHESIVE ON BLUE CARPET	Non-Fibrous Homogeneous		15% Non-fibrous (other)	
1-31-SD-30	016 - LIGHT BROWN ADHESIVE ON BLUE CARPET	Yellow		40% Matrix	None Detected
031404763-0032		Non-Fibrous Homogeneous		60% Non-fibrous (other)	
1-31-SD-31	017 - GRAY	Brown		35% Quartz	None Detected
031404763-0033	ADHESIVE UNDER CERAMIC FLOOR TILE	Non-Fibrous Homogeneous		15% Ca Carbonate	
				30% Matrix	
				20% Non-fibrous (other)	
1-31-SD-32	026 - GRAY ADHESIVE UNDER CERAMIC FLOOR TILE	Brown Non-Fibrous Homogeneous	·····	35% Quartz	None Detected
031404763-0034				15% Ca Carbonate	
				30% Matrix	
				20% Non-fibrous (other)	
1-31-SD-33	017 - CERAMIC	White		55% Ca Carbonate	None Detected
031404763-0035	FLOOR TILE GROUT	Non-Fibrous Homogeneous		45% Non-fibrous (other)	

Analyst(s)

Albert Grohmann (67) Daena Charles (15)

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	Terryville, CT 06786		
Proje	ct: 14-029.11T1/ NAUGATUCK BOROUGH OF/ 1 SOUTH MAIN STRE	ET, NAUGATUCK	, CT

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			<u>Non-A</u>	Asbestos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Түре
1-31-SD-34	026 - CERAMIC	White		55% Ca Carbonate	None Detected
031404763-0036	FLOOR TILE GROUT	Non-Fibrous Homogeneous		45% Non-fibrous (other)	
1-31-SD-35	022 - BROWN	Tan		83% Matrix	None Detected
031404763-0037	ADHESIVE ON DOOR CASING/WOOD COVE BASE	Non-Fibrous Homogeneous		17% Non-fibrous (other)	
1-31-SD-36	026 - BROWN	Tan		45% Matrix	None Detected
031404763-0038	ADHESIVE ON DOOR CASING/WOOD COVE BASE	Non-Fibrous Homogeneous		55% Non-fibrous (other)	
1-31-SD-37	026 - WHITE	White		85% Matrix	None Detected
031404763-0039	RUBBERY CAULK A ROUND BATH TUB	Non-Fibrous 닒omogeneous		15% Non-fibrous (other)	
1-31-SD-38	026 - WHITE	White		85% Matrix	None Detected
031404763-0040	RUBBERY CAULK A ROUND BATH TUB	Non-Fibrous Homogeneous		15% Non-fibrous (other)	
1-31-SD-39	001 - DARK	Brown		83% Matrix	None Detected
031404763-0041	BROWN ADHESIVE ON WOODEN COVE BASE	Non-Fibrous Homogeneous		17% Non-fibrous (other)	

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	Suite 3	Collected:	1/31/2014
	Terryville, CT 06786		
Proie	ct 14-029.11T1/ NAUGATUCK BOROUGH OF/ 1 SOUTH MAIN STREE	ET. NAUGATUCK.	. CT

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				<u>Non-As</u>	ibestos	<u>Asbestos</u>
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
1-31-SD-40 031404763-0042	013 - DARK BROWN ADHESIVE ON WOODEN COVE BASE	Brown Non-Fibrous Homogeneous			85% Matrix 15% Non-fibrous (other)	None Detected
1-31-SD-41 031404763-0043	021 - BLACK TAR ON INSULATION AROUND EXTERIOR WALLS	Black Non-Fibrous Homogeneous			95% Matrix 5% Non-fibrous (other)	None Detected
1-31-SD-42 031404763-0044	021 - BLACK TAR ON INSULATION AROUND EXTERIOR WALLS	Black Non-Fibrous Homogeneous			95% Matrix 5% Non-fibrous (other)	None Detected
1-31-SD-43 031404763-0045	FAÇADE D - BROWN CAULK AROUND BIG WINDOWS	Gray Non-Fibrous Homogeneous			65% Matrix 35% Non-fibrous (other)	None Detected
1-31-SD-44 031404763-0046	FAÇADE D - BROWN CAULK AROUND BIG WINDOWS	Clear Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
1-31-SD-45 031404763-0047	FAÇADE B - GREY CAULK AROUND SMALL WINDOWS	Gray Non-Fibrous Homogeneous			83% Matrix 17% Non-fibrous (other)	None Detected

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	Terryville, CT 06786	Collected:	1/31/2014
Proje	ct: 14-029-11T1/ NAUGATUCK BOROUGH OF/ 1 SOUTH MAIN STREE	T. NAUGATUCK	GT

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			<u>N</u>	on-Asbestos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
1-31-SD-46	FAÇADE B -	White		47% Ca Carbonate	None Detected
031404763-0048	GREY CAULK AROUND SMALL	Non-Fibrous		30% Matrix	
	WINDOWS	Homogeneous		23% Non-fibrous (other)	
1-31-SD-47	FAÇADE D -	Gray		65% Matrix	None Detected
031404763-0049	DARK WHITE DOOR CAULK	Non-Fibrous Homogeneous		35% Non-fibrous (other)	
1-31-SD-48	FAÇADE D -	Gray		65% Matrix	None Detected
031404763-0050	DARK WHITE DOOR CAULK	Non-Fibrous Homogeneous		35% Non-fibrous (other)	
1-31-SD-78	FAÇADE C -	Gray		55% Quartz	None Detected
031404763-0051	HARD COAT EXTERIOR	Non-Fibrous		23% Ca Carbonate	
	WALLS PLASTER	Homogeneous		22% Non-fibrous (other)	
1-31-SD-79	FAÇADE C -	Gray		57% Quartz	None Detected
031404763-0052	HARD COAT EXTERIOR	Non-Fibrous		25% Ca Carbonate	
	WALLS PLASTER	Homogeneous		18% Non-fibrous (other)	
1-31-SD-80	FAÇADE C -	Gray		55% Quartz	None Detected
031404763-0053	HARD COAT EXTERIOR	Non-Fibrous		23% Ca Carbonate	
	WALLS PLASTER	Homogeneous		22% Non-fibrous (other)	
1-31-SD-81	FAÇADE C -	Gray		55% Quartz	None Detected
031404763-0054	HARD COAT EXTERIOR	Non-Fibrous		23% Ca Carbonate	
	WALLS PLASTER	Homogeneous		22% Non-fibrous (other)	

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Projec	ef 14-029 11T1/ NAUGATUCK BOROUGH OF/ 1 SOUTH MAIN STREE	T NAUGATUCK	CT

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				<u>Non-A</u>	<u>sbestos</u>		<u>Asbestos</u>
Sample	Description	Appearance	%	Fibrous	% Nor	n-Fibrous	<u>% Type</u>
1-31-SD-82	FAÇADE C -	Gray		•	65%	Quartz	None Detected
031404763-0055	HARD COAT EXTERIOR WALLS PLASTER	Non-Fibrous Homogeneous			35%	Non-fibrous (other)	
1-31-SD-49	FAÇADE D -	Gray			27%	Quartz	None Detected
031404763-0056	SKIM COAT EXTERIOR	Non-Fibrous			33%	Gypsum	
	WALLS PLASTER	Homogeneous			23%	Ca Carbonate	
					17%	Non-fibrous (other)	
1-31-SD-50	FAÇADE D -	White			55%	Ca Carbonate	None Detected
031404763-0057	SKIM COAT EXTERIOR WALLS PLASTER	Non-Fibrous Homogeneous			45%	Non-fibrous (other)	
1-31-SD-51	FAÇADE D -	White			3%	Mica	None Detected
031404763-0058	SKIM COAT EXTERIOR	Non-Fibrous			55%	Ca Carbonate	
	WALLS PLASTER	Homogeneous			42%	Non-fibrous (other)	
1-31-SD-76	FAÇADE C -	White			7%	Mica	None Detected
031404763-0059	SKIM COAT EXTERIOR	Non-Fibrous			55%	Ca Carbonate	
	WALLS PLASTER	Homogeneous			38%	Non-fibrous (other)	
1-31-SD-77	FAÇADE C -	Gray/White			25%	Gypsum	None Detected
031404763-0060	SKIM COAT EXTERIOR	Non-Fibrous			40%	Ca Carbonate	
	WALLS PLASTER	Homogeneous			35%	Non-fibrous (other)	
1-31-SD-52	006 - GRAY	Yellow			85%	Matrix	None Detected
031404763-0061	ADHESIVE ON WHITE VINYLE COVE BASE	Non-Fibrous Homogeneous			15%	Non-fibrous (other)	

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				<u>Non-Asl</u>	<u>pestos</u>	Asbestos
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Түре
1-31-SD-53	007 - GRAY	Tan/White			45% Matrix	None Detected
031404763-0062	ADHESIVE ON WHITE VINYLE COVE BASE	Non-Fibrous Homogeneous			55% Non-fibrous (other)	
1-31-SD-54	006 - WHITE	Yellow			87% Matrix	None Detected
031404763-0063	VINYL COVE BASE	Non-Fibrous Homogeneous			13% Non-fibrous (other)	
1-31-SD-55	007 - WHITE	Yellow			87% Matrix	None Detected
031404763-0054	VINYL COVE BASE	Non-Fibrous Homogeneous			13% Non-fibrous (other)	
1-31-SD-56	015 - RESIDUAL	Gray			55% Quartz	None Detected
031404763-0065	FLOOR CERAMIC TILE	Non-Fibrous			20% Ca Carbonate	
	GROUT	Homogeneous			25% Non-fibrous (other)	
1-31-SD-57	015 - RESIDUAL	Gray			55% Quartz	None Detected
031404763-0066	FLOOR CERAMIC TILE	Non-Fibrous			20% Ca Carbonate	
	GROUT	Homogeneous			25% Non-fibrous (other)	
1-31-SD-58	025 - 2ND LAYER	Gray	9%	Cellulose	65% Gypsum	None Detected
031404763-0067	WALL SHEETROCK	Non-Fibrous Homogeneous	3%	Glass	23% Non-fibrous (other)	
1-31-SD-59	025 - 2ND LAYER	.,	3%	Glass	63% Gypsum	None Detected
031404763-0068	WALL SHEETROCK	Non-Fibrous			7% Ca Carbonate	
	UNLEHNOON	Homogeneous			27% Non-fibrous (other)	
1-31-SD-62	021 - DUCT FLEX	Black	27%	Synthetic	48% Matrix	None Detected
031404763-0069	CONNECTOR	Fibrous Homogeneous			25% Non-fibrous (other)	

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				Non-Asb	estos		<u>Asbestos</u>
Sample	Description	Appearance	%	Fibrous	% No	n-Fibrous	% Type
1-31-SD-63	021 - DUCT FLEX	Black	15%	Glass	30%	Matrix	None Detected
031404763-0070	CONNECTOR	Fibrous Homogeneous			55%	Non-fibrous (other)	
1-31-SD-64	021 - BLACK TAR	Brown			97%	Matrix	None Detected
031404763-0071	ON SINK (UNDERCOATING)	Non-Fibrous Homogeneous			3%	Non-fibrous (other)	
1-31-SD-65	021 - BLACK TAR	Brown			97%	Matrix	None Detected
031404763-0072	ON SINK (UNDERCOATING)	Non-Fibrous Homogeneous			3%	Non-fibrous (other)	
1-31-SD-66	023 - 2'x4"	Tan/White	33%	Cellulose	23%	Perlite	None Detected
031404763-0073	FISSURED CEILING TILES	Fibrous Homogeneous	23%	Min. Wool	21%	Non-fibrous (other)	
1-31-SD-67	023 - 2'x4"	Gray/White	33%	Cellulose	23%	Perlite	None Detected
031404763-0074	FISSURED CEILING TILES	Fibrous Homogeneous	23%	Min. Wool	21%	Non-fibrous (other)	
1-31-SD-68	021 - DROP	Gray/Tan	9%	Cellulose	67%	Gypsum	None Detected
031404763-0075	CEILING SHEETROCK	Fibrous Homogeneous			24%	Non-fibrous (other)	
1-31-SD-69	021 - DROP	Gray	15%	Cellulose	57%	Gypsum	None Detected
031404763-0076	CEILING SHEETROCK	Fibrous Homogeneous			28%	Non-fibrous (other)	
1-31-SD-70	021 - DROP	White			5%	Mica	None Detected
031404763-0077	CEILING JOINT COMPOUND	Non-Fibrous			55%	Ca Carbonate	
	COMPOUND	Homogeneous			40%	Non-fibrous (other)	

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			<u>Non-As</u>	bestos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
1-31-SD-71 031404763-0078	021 - DROP CEILING JOINT COMPOUND	Gray/Tan Non-Fibrous Homogeneous	10% Cellulose	65% Gypsum 25% Non-fibrous (other)	None Detected
1-31-SD-72 031404763-0079	026 - DROP CEILING COMPOSITE SHEETROCK/JOI NT COMPOUND	Gray/Tan Fibrous Homogeneous	25% Cellulose	57% Gypsum 18% Non-fibrous (other)	None Detected
1-31-SD-73 031404763-0080	026 - DROP CEILING COMPOSITE SHEETROCK/JOI NT COMPOUND	Gray Non-Fibrous Homogeneous	5% Cellulose	65% Gypsum 15% Ca Carbonate 15% Non-fibrous (other)	None Detected
1-31-SD-74 031404763-0081	FAÇADE C - BIG WINDOWS GLAZING COMPOUND	White Non-Fibrous Homogeneous		47% Ca Carbonate 53% Non-fibrous (other)	None Detected
1-31-SD-75 031404763-0082	FAÇADE C - BIG WINDOWS GLAZING COMPOUND	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (other)	None Detected

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James PALO

James Hall, Laboratory Manager or other approved signatory

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OrderID: 0314046	31 .						
EMSL www.emsl.com	EMSL - MA	11	EMSL – CT 29 N. Plains Hwy, Un Wallingford, CT 0649 (203) 284-5948 (203) 284-5978 Fax	2 New York, N (866) 448-36	^h Street Y 10018 75	EMSL – NJ 107 Haddon A Westmont, NJ (800) 220-367 (856) 858-4960	08108 5
Your Name:	Brandy Le	Blanc	· · · · · · ·	Project Mar	lager: C.	L	
Company:	Eagle Envi	ronmental, Inc.				**************************************	
Street:	8 South Ma	ain Street, Suite 3		n-ni(isa munita atana) ilinena ita nigiti kanat kilamat ketikata kila atan	instan menerali kipangan terjan ing belak di me	talinatio (non a anno 100) ann ann ann an an ann an ann an ann an	
City/State/Zip:	Terryville,	СТ 06786		· · · · · · · · · · · · · · · · · · ·			
Phone:	860-589-82	57 ext. 203	Fax: 860-585-7034		agleenviro.com	; rsioch@eagleenviro.cor	n.
Project Name	Naugatuck	Borough of		Project #; 14-029.11			
Project Location	on: 1 South M	ain Street, Naugatud	an a far br>Structure (Project Sta	te (US):		Sim C
			TURNAROUND TIM				1
CI 3 Hours C	6Hours 07	24 Hours 5 48	Hours 0 72 Hours	□4Days 251	Jays	🖸 6-10 Days	í
🗆 Air 🛛 🗹	Bulk 🛛	Soll 🛛 🕅	SAMPLE MATRIX		stewater	🗆 Chips 🔤 🗖	Other
ASBESTOS AN			LEAD ANALYSIS	99111111111111111111111111111111111111	MICRO	BIAL ANALYSIS	3
PCM - Air □ NIOSH 7400 (A) Is □ OSHA WTWA TEM AIR □ AHERA 40 CFR, P □ NIOSH 7402 Issue □ EPA Level II PLM - Bulk ⊠ EPA 600/R-93/116 □ NY Stratified Point (C □ California Air Resot □ NIOSH 9002 □ PLM NOB (Gravime □ EPA Point Count (1 □ Standard Addition P SOILS □ EPA Protocol Qualt □ EPA Protocol Qualt □ EPA Protocol Qualt □ EPA Protocol Qualt □ Drop Mount (Qualtiz □ Chaffield SOP-1988 □ TEM BULK □ Drop Mount (Qualtiz □ ASTM D 5755-95 (C TEM MICROVAC □ ASTM D 6480-99 □ Qualitative□ TEM WATER □ EPA 100.1 □ EPA 100.2 □NYS 198.2 ○ Offer:	art 763 Subpart E 2 Count Irce Board (CARB) 43 etric) NYS 198,1 00 Points) 20int Count tative lethod fibers/gram I-R097=028 (dust gene ative) -02 etric) NY 198,4		Flame Atomic Absorption Wipe, SW846-7420 Soil, SW846-7420 Air, NIOSH 7082 Chips, SW846-7420 or AOAC Wastewater, SW 846-7420 TCLP LEAD SW846-7420 TCLP LEAD SW846-7420 TCLP LEAD SW846-7421 Oair, NIOSH 7105 Wastewater, SW 846-7421 Drinking Water, EPA 239.2 ICP - Inductively Coupled PI Wipe, SW846-6010 Air, NIOSH 7300 MATERIALS ANALYS Full Particle Identification Optical Particle Identification Potest Miles and Insect Fragme Particle Size & Distribution Product Comparison Palint Characterizaton Palint Characterizaton Palint Characterizaton Palint Characterizaton Palint Characterizaton Palint Characterization Wipe Study State Corroston Affalysis Corroston Affalysis <td>5.009 (974.02) 0 Isorption asma non.ASTM IS Nts Atricospheres</td> <td>Mold & F Bacteria Bacteria Bacteria Water Sar Total Cc Escheri Legione Salmon Giardla Wipe and Mold & Mold & Mold & Mold & Bacteria Gasteria Gasteria Gir Mold & Mold &</td> <td>ungi by Air O Cell ungi by Agar Plate coun I Count and Gram Stain Count and Identification <u>nples</u> aliforms, Fecal Coliforms schia Coli, Fecal Streptoc lia and Cryptosporidium <u>Bulk Samples</u> Fungi – Cluture follow u ect examination if necess Fungi – Culture (Count & Fungi – Culture (Count & I Count & Gram Stain I Count & Gram Stain I Count & Identification prominent types) <u>ALYSIS</u> a Dust (NIOSH 0500 & (a Dust (PM10, TSP) nalysis by XRD ∐Niasi Efficiency Black</td> <td>on 0 lo 10) 10) 10) 10)</td>	5.009 (974.02) 0 Isorption asma non.ASTM IS Nts Atricospheres	Mold & F Bacteria Bacteria Bacteria Water Sar Total Cc Escheri Legione Salmon Giardla Wipe and Mold & Mold & Mold & Mold & Bacteria Gasteria Gasteria Gir Mold & Mold &	ungi by Air O Cell ungi by Agar Plate coun I Count and Gram Stain Count and Identification <u>nples</u> aliforms, Fecal Coliforms schia Coli, Fecal Streptoc lia and Cryptosporidium <u>Bulk Samples</u> Fungi – Cluture follow u ect examination if necess Fungi – Culture (Count & Fungi – Culture (Count & I Count & Gram Stain I Count & Gram Stain I Count & Identification prominent types) <u>ALYSIS</u> a Dust (NIOSH 0500 & (a Dust (PM10, TSP) nalysis by XRD ∐Niasi Efficiency Black	on 0 lo 10) 10) 10) 10)
Additional Informat Client Sample # (S) Relinquished: Received; Relinquished:		1-31-EL-01 DOUMBIA	ALL CAS	-31-EL-01 ate: 2-3-14 ate: 2-3-14 ate: 2-3-14	TOTAL :	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	22
Received:		SM	D	ata: <u>2.4</u> .	U.	Time: <u>2-1</u>	6Ph1
		SWAKMP	Page 1 Of 2	500 /	1 2/6	30311	Page 1

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OrderID: 031404631



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EMSL – MA	
7 Constitution Way, Ste 10	7
Woburn, MA 01801	
(781) 933-8411	
(781) 933-8412 Fax	

EMSL - NY 307 West 38th Street New York, NY 10018 (866) 448-3675 (212) 290-0058 Fax

EMSL-NJ 107 Haddon Avenue Westmont, NJ 08108 (800) 220-8675 (866) 858-4960 Fax

SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME AIr (L)	Area (Inches sq.)
1-31-EL-01	Seam coment assoc w/ top-black rolled roofing	Roof		
1-31-EL-02	Seam cement assoc w/ top black rolled roofing	Roof		Москолого, на селото br>
1-31-EL-03	Top black rolled roofing	Roof		X
1-31-EL-04	Top black rolled roofing	Roof		n (de la companya de
1-31-EL-05	Tar between 1 st and 2 nd roof layer	Roof	1	
1-31-EL-06	Tar between 1st and 2nd roof layer	Roof		
1-31-EL-07	2 nd Layer rolled roofing felt paper	Roof		
2 \ 1-31-EL-08	2nd Layer rolled roofing felt paper	Roof		
1-31-EL-09	3 rd Layer rolled roofing felt paper	Roof		
1-31-EL-10	3rd Layer rolled roofing felt paper	Roof		
1-31-EL-11	Paper associated with foam insulation	Roof		
1-31-EL-12	Paper associated with foam insulation	Roof		
1-31-EL-13	Black tar on top of parapet wall	Roof		
1-31-EL-14	Black tar on top of parapet wall	Reof		
1-31-EL-15	Gray tar at base of HVAC unit	Roof		
1-31-EL-16	Gray tar at base of HVAC unit	Roof		
1-31-EL-17	Top layer pitch pocket tar	Roof		
1-31-EL-18	Top layer pitch pocket tar	Roof	9 (**** (******************************	
1-31-EL-19	Bottom layer pitch pocket tar	Roof		1449-1470); 1997-1997-1997; 1997-1997; 1997-1997; 1997-1997; 1997-1997; 1997-1997; 1997-1997; 1997-1997; 1997-1
1-31-EL-20	Bottom layer pitch pocket tar	Roof		
1-31-EL-21	Gray asphalt shingle on wood hatch	Roof		
1-31-EL-22	Gray asphalt shingle on wood hatch	Roof		,

542	C-Q- 2:25 MTA		5 363 MM	

Page 2 Of



EMSL Order: 031404631 CustomerID: EEVM50 CustomerPO: ProjectID:

Attn:	Chris Liberti Eagle Environmental, Inc CT 8 South Main Street Suite 3 Terryville, CT 06786	Phone: Fax: Received: Analysis Date: Collected:	(860) 589-8257 (860) 585-7034 02/04/14 2:16 PM 2/6/2014 1/31/2014	
Proje	ct: 14-029.11T1/ NAUGATUCK, BOROUGH OF/ 1 SOUTH	MAIN STREET/ NAUGATUCH	с, ст	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				Non-Asbes	tos	Asbestos
Sample	Description	Appearance	. %	Fibrous	% Non-Fibrous	% Type
1-31-EL-01	SEAM CEMENT	Brown/Black	20%	Cellulose	40% Ca Carbonate	None Detected
031404631-0001	ASSOC. W./ TOP BLACK ROLLED ROOFING - ROOF	Non-Fibrous Homogeneous			40% Non-fibrous (other)	
1-31-EL-02	SEAM CEMENT	Black	2%	Cellulose	38% Ca Carbonate	None Detected
031404631-0002	ASSOC. W./ TOP BLACK ROLLED	Non-Fibrous			55% Matrix	
	ROOFING - ROOF	Homogeneous			5% Non-fibrous (other)	
1-31-EL-03	TOP BLACK	Brown/Black	25%	Cellulose	45% Ca Carbonate	None Detected
031404631-0003	Rolled Roofing - Roof	Non-Fibrous Homogeneous			30% Non-fibrous (other)	
1-31-EL-04	TOP BLACK	Black	4%	Synthetic	36% Ca Carbonate	None Detected
031404631-0004	ROLLED ROOFING -	Non-Fibrous			55% Matrix	
	ROOF	Heterogeneous			5% Non-fibrous (other)	
1-31-EL-05	TAR BETWEEN	Black	35%	Cellulose	10% Quartz	None Detected
031404631-0005	1ST AND 2ND ROOF LAYER - ROOF	Fibrous Homogeneous			55% Non-fibrous (other)	
1-31-EL-06	TAR BETWEEN	Black	3%	Cellulose	17% Ca Carbonate	None Detected
031404631-0006	1ST AND 2ND ROOF LAYER -	Non-Fibrous			70% Matrix	
	ROOF	Heterogeneous			10% Non-fibrous (other)	
1-31-EL-07	2ND LAYER	Brown/Black	20%	Fibrous (other)	40% Ca Carbonate	None Detected
031404631-0007	ROLLED ROOFING FELT PAPER - ROOF	Fibrous Homogeneous			40% Non-fibrous (other)	

Analyst(s)

Steve Jusczuk (8) Shahrakur Mahmud (11)

James PAU

James Hall, Laboratory Manager or other approved signatory

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Initial report from 02/06/2014 14:10:48



EMSL Order: 031404631 CustomerID: EEVM50 CustomerPO: ProjectID:

Attn:	Chris Liberti	Phone:	(860) 589-8257	
	Eagle Environmental, Inc CT	Fax:	(860) 585-7034	
	8 South Main Street	Received:	02/04/14 2:16 PM	
		Analysis Date:	2/6/2014	
	Suite 3 Terryville, CT 06786	Collected:	1/31/2014	
Proje	ct: 14-029.11T1/ NAUGATUCK, BOROUGH OF/ 1 SOUT	H MAIN STREET/ NAUGATUCH	C, CT	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				Non-Ast	<u>estos</u>	Asbestos
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
1-31-EL-08	2ND LAYER ROLLED	Black	12%	Synthetic	8% Ca Carbonate	None Detected
031404631-0008	ROOFING FELT	Fibrous Heterogeneous			75% Matrix	
	PAPER - ROOF	÷			5% Non-fibrous (other)	
1-31-EL-09	3RD LAYER	Brown/Black	15%	Cellulose	60% Non-fibrous (other)	None Detected
031404631-0009	ROLLED ROOFING FELT	Fibrous Homogeneous	25%	Glass		
	PAPER - ROOF	Tiomogeneoua				
1-31-EL-10	3RD LAYER	Black	10%	Glass	20% Ca Carbonate	None Detected
031404631-0010	ROLLED ROOFING FELT	Fibrous Heterogeneous			55% Matrix	
	PAPER - ROOF	rieleiogeneous			15% Non-fibrous (other)	
1-31-EL-11	PAPER	Black/Yellow	45%	Cellulose	55% Non-fibrous (other)	None Detected
031404631-0011	ASSOCIATED WITH FOAM	Fibrous				
	INSULATION -	Homogeneous				
	ROOF					
1-31-EL-12	PAPER	Black	5%	Glass	18% Matrix	None Detected
031404631-0012	ASSOCIATED WITH FOAM	Fibrous Homogeneous	75%	Cellulose	2% Non-fibrous (other)	
	INSULATION - ROOF	Themogeneous				
			Foam omit	ed.		
1-31-EL-13	BLACK TAR ON	Black	50%	Cellulose	45% Non-fibrous (other)	None Detected
031404631-0013	TOP OF PARAPET	Fibrous Homogeneous	5%	Glass		
	WALL - ROOF	Homogoneous				

Analyst(s)

Steve Jusczuk (8) Shahrakur Mahmud (11)

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Initial report from 02/06/2014 14:10:48



EMSL Order: 031404631 CustomerID: EEVM50 CustomerPO:

Attn:	Chris Liberti	Phone:	(860) 589-8257
	Eagle Environmental, Inc CT	Fax:	(860) 585-7034
	8 South Main Street	Received:	02/04/14 2:16 PM
	Suite 3	Analysis Date:	2/6/2014
	Terryville, CT 06786	Collected:	1/31/2014
Proie	at: 14-029 11T1/ NAUGATUCK, BOROUGH OF/ 1 SOUTH MAIN STRE	ET/ NAUGATUCK	CT

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				Non-Asbes	stos	<u>Asbestos</u>
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
1-31-EL-14	BLACK TAR ON	Black	10%	Glass	30% Ca Carbonate	None Detected
031404631-0014	TOP OF PARAPET	Fibrous	10%	Cellulose	45% Matrix	
	WALL - ROOF	Heterogeneous			5% Non-fibrous (other)	
1-31-EL-15	GRAY TAR AT	Black	35%	Cellulose	62% Non-fibrous (other)	3% Chrysotile
031404631-0015	BASE OF HVAC UNIT - ROOF	Non-Fibrous Homogeneous				
1-31-EL-16	GRAY TAR AT					Stop Positive (Not Analyzed)
031404631-0016	BASE OF HVAC UNIT - ROOF					
1-31-EL-17	TOP LAYER	Black	15%	Cellulose	80% Non-fibrous (other)	5% Chrysotile
031404631-0017	PITCH POCKET TAR - ROOF	Non-Fibrous Homogeneous				
1-31-EL-18	TOP LAYER					Stop Positive (Not Analyzed)
031404631-0018	PITCH POCKET TAR - ROOF					
1-31-EL-19	BOTTOM LAYER	Black			87% Non-fibrous (other)	13% Chrysotile
031404631-0019	PITCH POCKET TAR - ROOF	Fibrous Homogeneous				
1-31-EL-20	BOTTOM LAYER					Stop Positive (Not Analyzed)
031404631-0020	PITCH POCKET TAR - ROOF					
1-31-EL-21	GRAY ASPHALT	Gray/Black	45%	Fibrous (other)	55% Non-fibrous (other)	None Detected
031404631-0021	Shingle on Wood Hatch - Roof	Non-Fibrous Homogeneous				

Analyst(s)

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Initial report from 02/06/2014 14:10:48

	MSL	EMSL Analytical, In 307 West 38th Street, New York, Phone/Fax: (212) 290-0051 / (2 http://www.EMSL.com	NY 10018			EMSL Order: CustomerID: CustomerPO: ProjectID:	031404631 EEVM50
Attn: (Chris Libe	erti		Phone:	(860) 589-8257		
		ironmental, Inc CT		Fax:	(860) 585-7034		
	-	ain Street		Received:	02/04/14 2:16 P	M	
-		an Street		Analysis Date:	2/6/2014		
	Suite 3 Ferryville,	CT 06786		Collected:	1/31/2014		
Project:	14-029 111	WINAUGATUCK BOROUGH	E/ 1 SOUTH MAIN STREE	T/ NALIGATION	сст		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Ast	<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
1-31-EL-22 031404631-0022	GRAY ASPHALT SHINGLE ON WOOD HATCH - ROOF	White/Black Fibrous Heterogeneous	5% Synthetic	20% Ca Carbonate 60% Matrix 15% Non-fibrous (other)	None Detected

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Initial report from 02/06/2014 14:10:48

4

APPENDIX 3

XRF LEAD-BASED PAINT INSPECTION REPORTS

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01364 - 01/30/14 13:37

INSPECTION FOR: Mr. James R Stewart Borough of Naugatuck, CT 246 Rubber Avenue Naugatuck, CT 06770

PERFORMED AT: 1 South Main Street Naugatuck, CT 06770

INSPECTION DATE: 01/30/14

INSTRUMENT TYPE: RMD MODEL LPA-1 XRF TYPE ANALYZER Serial Number: 01364

ACTION LEVEL: 1.0 ma/cm²

OPERATOR LICENSE: 002250

Lead-based paint screen inspection at 1 South Main Street Naugatuck, CT 06770

SIGNED: Eltwarm Lawrence Date: 1-30-14

Eltwaun Lawrence Lead Inspector / Risk Assessor Eagle Environmental, Inc. 8 South Main Street, Suite 3 Terryville, CT 06786

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. James R Stewart

Inspection Date:	01/30/14	1 South Main Street
Report Date:	1/30/2014	Naugatuck, CT 06770
Abatement Level:	1.0	
Report No.	S#01364 - 01/30/14 13:37	
Total Readings:	142 Actionable: 0	
Job Started:	01/30/14 13:37	
Job Finished:	01/30/14 15:45	
Reading		Paint

Reading				Paint				Lead			
No.	Wall	Structure	Location	Member	Cond	Substrate	Color	(mg/cm²)	Mode		
Calil	bratio	n Readings		-						-	

ļ

Calibration Readings

---- End of Readings ----

 Inspection Date:
 01/30/14

 Report Date:
 1/30/2014

 Abatement Level:
 1.0

 Report No.
 S#01364 - 01/30/14 13:37

 Total Readings:
 142

 Job Started:
 01/30/14 13:37

 Job Finished:
 01/30/14 15:45

1 South Main Street Naugatuck, CT 06770

eadi	ng				Paint			Lead	
No.	Wall	Structure	Location	Member	Cond	Substrate	Color	(mg/cm²)	Mode
Exte	rior R	oom 001 Facad	e A						
132	A	Wall	Ctr		I	Cement	white	0.6	QM
133	A	Door	Rgt		I	Metal	blue	0.0	QM
Exte	rior R	com 002 Facado	a B						
135	в	Wall	Ctr		I	Cement	white	0.6	QМ
134	в	Column	Rgt		P	Metal	white	0,4	QМ
Exte	rior R	oom 003 Facad	e D						,
139	D	Wall	Ctr		I	Cement	white	0.3	QМ
136	D	Door	Far-F	<u>.</u>	-	I Metal	blue	-0.1	QM
138	D	Door	Rgt		I	Metal	blue	-0.1	QM
Exte	rior R	com 004 Facad	ə C						
137	ם	Column	Rgt		I	Wood	blue	0.1	QМ
Inte	rior R	oom 001 Numbe	r Only						
005	-	Crown Mldg	Ctr		I	Wood	white	0.1	QМ
004	-	Ceiling	Ctr		I	Sheetrock	white	0.0	QM
006	A	Wall	Ctr		I	Sheetrock	white	0.0	QМ
007	A	Door	Ctr		I	Wood	white	-0.3	QМ
009	в	Wall	Ctr		I	Sheetrock	white	-0.1	QM
800	С	Door	Ctr	Casing	I	Wood	white	0.3	QМ
Inte	rior R	oom 002 Numbe	r Only						
011	A	Wall	Ctr		I	Sheetrock	white	0.1	QМ
012	А	Door	Ctr	Casing	I	Wood	white	0.1	QМ
010	С	Wall	Ctr		I	Sheetrock	white	-0.1	<u>Q</u> M
013	С	Door	Ctr		I	Wood	white	0.0	QM
014	D	Baseboard	Ctr		I	Wood	white	0.0	QM
Inte	rior R	oom 003 Numbe	r Only						
015	A	Wall	Ctr		I	Sheetrock	white	0.0	QМ
017	в	Baseboard	Ctr		I				QМ
016	С	Wall	Ctr		I	Sheetrock	white	-0.3	QМ
	rior R	oom 004 Numbe	r Only						
020	-	Ceiling	Ctr		P	Sheetrock	beige		QМ
018	A	Wall	Ctr		I	Sheetrock	white	0.0	QМ
019	С	Wall	Ctr		I	Sheetrock	white	0.1	QM
021	D	Door	Ctr		I	Wood	white	-0.1	QM
022	D	Door	Ctr	Casing	I	Wood	white	0.4	QМ

eadin No.	-	Structure	Location	Member	Paint Cond	Substrate		Lead (mg/cm²)	Mode
023	۵	Door	Ctr	Stop	I	Wood	white	0,5	QМ
Inte	rior R	oom 006 Number	r Only						
028	_	Ceiling	Ctr		P	Sheetrock	beige	0.0	QМ
024	А	Wall	Ctr		P	Sheetrock	-	-0.1	QМ
025	в	Wall	Ctr		I	Sheetrock		-0.2	QM
026	D	Door	Ctr	Casing	I	Wood	white	0.0	QM
027	D	Door	Ctr	· · · · · · · · · · · · · · · · · · ·	I	Wood	white	0.2	QМ
Inte	rior R	oom 007 Numbe:	r Only						
030	A	Wall	L Ctr		I	Sheetrock	white	0.0	QM
029	А	Wall	U Ctr		I	Sheetrock		0.1	QМ
	Pap	er - Brown Pat		Paper	-				¥
031	D	Door	Ctr	Casing	I	Wood	white	0.3	QM
032	D	Door	Ctr		I	Wood	white	-0.2	QM
Inte	rior R	com 008 Numbe	r Only						
034	в	Wall	Ctr		I	Sheetrock	white	0.0	QM
037	с	Wall	U Ctr		I	Block	lt. blue	a 0.2	QМ
036	с	Door	Ctr	Casing	I	Wood	white	0.3	QМ
033	D	Wall	Ctr	2	I	Sheetrock		0.0	QM
035	D	Baseboard	Ctr		I	Wood	white	-0.2	QМ
Inte	rior R	oom 009 Numbe	r Only						
038	-	Ceiling	Ctr		I	Sheetrock	white	-0.3	QM
039	А	Wall	Ctr		I	Sheetrock	white	0.0	QМ
040	С	Wall	Ctr		I	Sheetrock	white	-0.2	QМ
041	с	Baseboard	Ctr		I	Wood	white	-0.1	QМ
042	с	Door	Rgt		I	Wood	white	0.2	QМ
043	С	Door	Rgt	Casing	I	Wood	white	0.1	QМ
Inte:	rior R	oom 010 Numbe:	r Only						,
045	-	Floor	Ctr		Р	Concrete	Darkblu	∍ -0.2	QМ
049	-	Ceiling	Ctr		I	Sheetrock	white	0.0	QМ
044	С	Wall	Ctr		I	Sheetrock	white	0.0	QM
048	С	Stairs	Ctr	Stringers	I	Metal	Darkblu	ə 0.4	QМ
046	С	Stairs	Ctr	Treads	Р	Metal	Darkblu	ə -0.3	QM
047	С	Stairs	Ctr	Risers	I	Metal	Darkblu	∋ 0.0	QM
Inte	rior R	oom 011 Numbe:	r Only						
051	A	Baseboard	Ctr		I	Wood	white	0.0	QМ
052	A	Stairs	Ctr	Stringers	r	Metal	blue	0.2	QM
054	в	Wall	Ctr		I	Sheetrock	white	0.2	QМ
050	D	Wall	Ctr		I	Sheetrock	white	-0.2	QM
053	D	Window	Ctr	Sill	I	Wood	blue	0.0	QM
Inte:	rior R	oom 012 Numbe	r Only						
056	в	Wall	Ctr		I	Sheetrock	white	0.0	QM
057	в	Baseboard	Ctr		I	Wood	white	0.0	QМ

leadin	g				Paint			Lead	
No.	Wall	Structure	Location	Member	Cond	Substrate	Color	(mg/cm²)	Mode
055	D	Window	Ctr	Sill	I	Wood	Darkblue	9.0	QM
Inter	rior R	oom 013 Number	r Only						
061	А	Baseboard	Ctr		I	Wood	white	-0.2	QM
060	A	Window	Ctr	Sill	I	Wood	Darkblue	a −0,3	QМ
062	A	Column	Lft		I	Metal	white	0.0	QМ
058	в	Wall	Ctr		I	Sheetrock	white	-0.4	QМ
063	С	Window	Ctr	Sill	I	Wood	Darkblue	a −0.1	QМ
059	D	Wall	Ctr		I	Sheetrock	white	0.0	QМ
Inter	rior R	oom 014 Number	Conly						
066		Ceiling	Ctr		I	Sheetrock	white	-0.1	QM
065	A	Wall	Ctr		I	Sheetrock	white	-0.3	QМ
067	А	Stairs	Ctr	Stringers	I	Metal	Darkblue	e 0.3	QМ
064	С	Wall	Ctr	-	I	Sheetrock	white	-0.1	QМ
068	С	Window	Ctr	Sill	I	Wood	Darkblue	∍ -0.1	QМ
Inter	rior R	oom 015 Number	C Only						
072	A	Window	Ctr	Sill	I	Wood	Darkblue	a) 0.3	QM
069	в	Wall	Ctr		I	Sheetrock	white	-0.3	QM
070	D	Wall	Ctr		I	Sheetrock	white	0.0	QМ
071	D	Baseboard	Ctr		I	Wood	white	-0.2	QM
073	D	Door	Lft	Casing	I	Wood	white	0.4	QМ
074	D	Door	Lft		I	Wood	white	-0.2	QM
Inter	rior R	oom 016 Number	c Only						
077	-	Ceiling	Ctr		I	Sheetrock	beige	-0.2	QM
076	А	Wall	Ctr		P	Sheetrock	white	-0.1	QM
078	в	Door	Lft	Casing	I	Wood	white	0.2	QМ
079	в	Door	Lft		I	Wood	white	0.0	QМ
080	С	Baseboard	Ctr		I	Wood	white	0.3	QМ
075	С	Door	Ctr	Casing	I	Metal	white	-0.2	QМ
Inter	rior R	oom 017 Number	r Only						
081	A	Wall	Ctr		I	Sheetrock	white	-0.1	QM
082	с	Wall	Ctr		I	Sheetrock	white	-0.2	QM
083	С	Baseboard	Ctr		I	Wood	white	0.3	QM
084	D	Door	Ctr		I	Wood	white	0.0	QМ
Inte	rior R	oom 018 Number	c Only						<u> </u>
085	A	Wall	Ctr		I	Sheetrock	white	-0.1	QM
086	в	Baseboard	Ctr		I	Wood	white	-0.2	QМ
087	D	Door	Ctr	Casing	I	Wood	white	0.0	QM
088	D	Door	Ctr		I	Wood	white	0.1	QM
Inte	rior R	oom 019 Number	r Only						
090	-	Floor	Ctr		I	Wood	Darkblue	ə 0.1	QM
089	в	Wall	Ctr		I	Sheetrock	white	0.0	QМ
091	С	Window	Ctr	Sill	I	Wood	Darkblue	∍ -0.3	QM

•

leadin	•	0(Paint			Lead	
No.	Wall	Structure	Location	Member	Cond	Substrate	Color	(mg/cm²)	Mode
092	D	Wall	Ctr	1	I	Sheetrock	white	-0.1	QM
Inter	rior R	oom 020 Number	r Only					<u> </u>	
094	-	Ceiling	Ctr		P	Sheetrock	white	0.1	QM
093	в	Wall	Ctr		I	Sheetrock	white	-0.1	QM
095	С	Window	Ctr	Sill	I	Wood	Darkblue	∍ 0.1	QМ
Inter	cior R	oom 021 Number	r Only						
096	-	Ceiling	Ctr		I	Sheetrock	white	-0.3	QМ
097	A	Wall	Ctr		I	Sheetrock	white	0.0	QM
099	А	Window	Ctr	Sill	I	Wood	Darkblu	∍ -0.1	QM
098	в	Wall	Ctr		I	Sheetrock	white	0.1	QМ
100	в	Baseboard	Ctr		I	Wood	white	0.0	QМ
101	в	Window	Rgt	Casing	I	Wood	white	0.0	QM
Inter	rior R	oom 022 Numbe:	r Only						
103	A	Baseboard	Ctr		I	Wood	white	0.2	QМ
104	A	Door	Lft		I	Wood	white	-0.3	QМ
105	А	Door	Lft	Casing	I	Wood	white	0.1	QМ
102	в	Wall	Ctr	_	I	Sheetrock	white	0.0	QM
106	С	Closet	Ctr	Door	I	Wood	white	0.0	QM
Inter	rior R	oom 023 Numbe:	r Only						
109	А	Door	_ Lft		I	Wood	white	0.0	QМ
110	А	Door	Lft	Casing	I	Wood	white	0.1	QМ
107	с	Wall	Ctr	2	I	Sheetrock	red	0.1	QM
108	D	Wall	Ctr		I	Sheetrock		0.1	QМ
Inte	rior R	oom 024 Numbe:	r Only						
115	-	Ceiling	Ctr		I	Sheetrock	white	-0.2	QМ
111	А	Wall	Ctr		I	Sheetrock	white	-0.1	QM
112	A	Baseboard	Ctr		I	Wood	white	0.1	QM
113	A	Door	Lft	Casing	I	Wood	white	0.0	QМ
114	A	Door	Lft	-	I	Metal	white	0.0	QМ
Inter	rior R	oom 025 Numbe:	r Only						
120	-	Floor	Ctr		I	Wood	Darkblu	e -0.2	QM
116	-	Ceiling	Ctr		I	Sheetrock	white	-0.4	QМ
117	А	Door	Ctr	Casing	I	Wood	white	0.1	QM
118	в	Wall	Ctr		I	Sheetrock	white	0.0	QM
121	с	Baseboard	Ctr		I	Wood	white	-0.3	QМ
119	D	Wall	Ctr		I	Sheetrock	white	0.0	QM
Inte	rior R	oom 026 Numbe	r Only						
122	-	Ceiling	Ctr		I	Sheetrock	white	0.1	QM
127	в	Baseboard	Ctr		I	Wood	white	-0.2	QM
123	в	Window	Ctr	Casing	I	Wood	white	-0.1	QM
124	в	Door	Ctr	Casing	I	Wood	white	0.0	QМ

Readin	g				Paint			Lead	
No.	Wall	Structure	Location	Member	Cond	Substrate	Color	(mg/cm²)	Mode
126	С	Wall	Ctr		I	Sheetrock	white	-0.2	QМ
Inter	ior R	oom 027			<u></u>				
129	-	Ceiling	Ctr		I	Sheetrock	white	0.1	QМ
128	в	Wall	Ctr		I	Sheetrock	white	-0.2	QM
130	D	Door	Rgt	Casing	I	Wood	white	0.2	QМ
131	D	Door	Rgt		I	Wood	white	-0.4	QM
Calib	ratio	n Readings	· · · · · · · · · · · · · · · · · · ·						
001								1.0	TC
002								1.0	TC
003								1.0	TC
140								0.8	TC
141								0.8	TC
142								0.7	TC
			End of	Readings					

APPENDIX 4

ABATEMENT AND CONSULTING COST ESTIMATES

HAZARDOUS MATERIALS ABATEMENT COST ESTIMATES BOROUGH OF NAUGATUCK <u>1 SOUTH MAIN STREET</u> NAUGATUCK, CONNECTICUT

ASBESTOS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	U	NIT COST	TOT	AL COST
HVAC BASE GREY ADHESIVE	2	\$	200.00 SF	\$	400.00
ROOF PITCH POCKET TAR	4	\$	200.00 SF	\$	800.00
SUBTOTAL				\$	1,200.00
ASBESTOS ABATEMENT CONTINGENCY				\$	120.00
ASBESTOS TOTAL				\$	1,320.00

LEAD BASED PAINT COST ESTIMATE

NO LEAD PAINT ABATEMENT OR DISPOSAL IS INVOLVED IN THIS PROJECT. THE CONTRACTOR NEEDS TO PROTECT HIS/HER WORKER FROM EXPOSURE TO LEAD PAINT DURING DEMOLITION.

UNIVERSAL WASTE ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST		ST	TOTA	AL COST
LIGHT TUBES DISPOSAL	16	\$	1.00	LF	\$	16.00
U-SHAPED LIGHT TUBES DISPOSAL	46	\$	3.00	EACH	\$	138.00
THERMOSTATIC MERCURY BULBS	3	\$	25.00	EACH	\$	75.00
CAPACITOR	1	\$	15.00	EACH	\$	15.00
LEAD ACID/NICKEL CADMIUM BATTERIES	6	\$	10.00	EACH	\$	60.00
LABOR	1	\$	500.00	DAY	\$	500.00
SUBTOTAL					\$	804.00
UNIVERSAL WASTE ABATEMENT CONTINGENCY					<u>\$</u>	80.40
UNIVERSAL WASTE TOTAL					\$	884.40

CHLOROFLUOROCARBONS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	U	NIT COST	TOTA	AL COST
AIR CONDITIONER UNIT	1	\$	100.00 EACH	\$	100.00
LABOR	0.5	\$	250.00 EACH	\$	125.00
SUBTOTAL				\$	225.00
CHLOROFLUOROCARBONS ABATEMENT CONTIN	GENCY			\$	22.50
CHLOROFLUOROCARBONS TOTAL				\$	247.50

HAZARDOUS MATERIALS ABATEMENT SUBTOTAL

HAZARDOUS MATERIALS CONSULTING COST ESTIMATE

CONSULTING COST	QUANTITY	UNIT COST	TOT	AL COST
ASBESTOS ABATEMENT SPECIFICATION	1	\$500.00 EACH	\$	500.00
UNIVERSAL WASTE DISPOSAL SPECIFICATION	1	\$350.00 EACH	\$	350.00
FINAL VISUAL INSPECTION	1	\$400.00 EACH	\$	400.00
PROJECT MANAGEMENT	1	\$130.00 HOUR	\$	130.00
DOCUMENTATION REPORT	1	\$400.00 EACH	\$	400.00
SUBTOTAL			\$	1,280.00
CONSULTING CONTINGENCY			\$	128.00
CONSULTING TOTAL			\$	1,408.00

GRAND TOTAL

\$ 6,064.30

APPENDIX 5

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EAGLE ENVIRONMENTAL INC. LICENSES AND LABORATORY CERTIFICATES

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Cotticher			Exam Dates: 01/02/2014			1000m respect			
Christopher J. Eldent, CIH, CSP, RS George Williamson, Training Director Richard Haffey, Training Director							ng Director		
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Name				41.55.000.0000					
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ELTWAUN S	DLAWREN	CE		¥±7	<u> </u>	t			
License information									
License 7	Tuno l'		Expiration Date	Granted Date	License Name	License Status	Licensure Actions or Pending Charges		
Asbestos Ci -Inspector	onsultant	846	02/28/2014	05/09/2013	ELTWAUN D LAWRENCE	ACTIVE	None		

CERTIFICATE OF ACHIEVEMENT

This certifies that

Souleymane Doumbia

has successfully completed the Asbestos Site Inspector Refresher Training Asbestos Accreditation Under TSCA Title II 40 CFR Part 763

> conducted by Cardno ATC

73 William Franks Drive West Springfield, MA 01089 (413) 781-0070

Principal Instructor September 19, 2013 Date of Course

.:

September 19, 2014 Expiration Date

reason D. Morash SIAR-4668 Certificate Number

ķ

September 19, 2013

STARE OF CONNECTICUT DEPARTMENT OF RUBLICHEACTH PURSUANT TO THE REVERSIONS OF THE GENERAL STATUTES OF CONSECTICUT THE INDIVIDUAL NAMED BELOW IS LICENSED BY THIS DEFARIMENT AS A ASBESTOS: CONSULTANT - INSPECTOR : 1.4 LICENSRING 000804 Current, Through 180714 SOULEYMANE DOUMBIA VALIDATION NO. **新闻的时代**。 88 (f. 6) **.**, Anuel COMMISSIONER

1

CERT# L-500 - 150

CHEMSCOPE TRAINING DIVISION

LEAD INSPECTOR REFRESHER 8HOUR TRAINING CERTIFICATE Eltwaun D. Lawrence

531 North Main Street, Bristol CT

Has attended an 8 hour course on the subject discipline on

06/20/2013 and has passed a written examination.

The above individual has successfully completed the above training course approved in accordance with the Department of Public Health Standards established pursuant to Section 20-477 of the Connecticut General Statutes.

Course syllabus includes all required topics of State of Connecticut DPH and EPA.

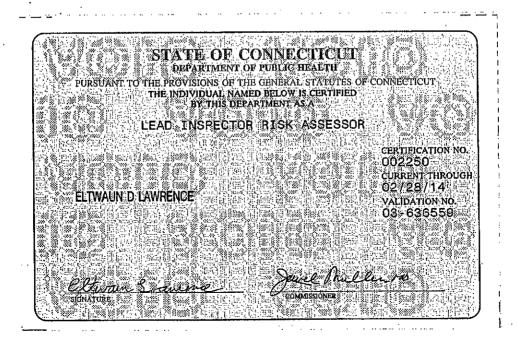
Examination Date: 06/20/2013

Expiration Date: 06/20/2014

Under civil and criminal penalties of taw for the making or submission of false or fraudulent statements or representations (U.S.C. 1001 and 15 U.S.C. 2615), I certify that this training complies with all applicable requirements of Title IV of TSCA, 40 CFR part 745 and any other applicable Federal, State, or local requirements.

© GOES 340 All Blobbs Bas

Ronald D. Arena or Scott Arena Training Director Training Manager Chem Scope, Inc. 15 Moulthrop Street North Haven CT 06473 (203) 865-5605



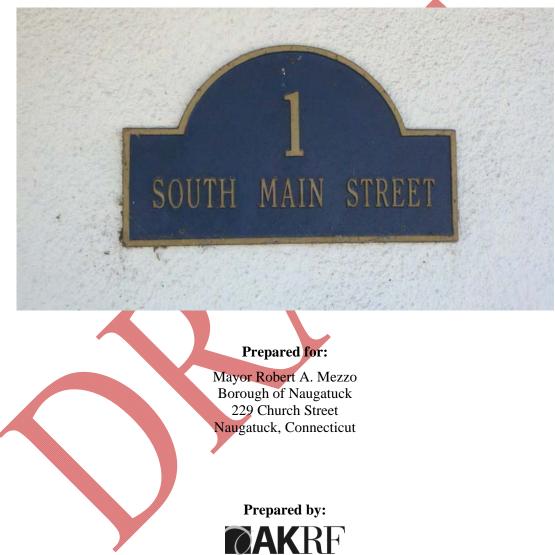
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1 South Main Street

NAUGATUCK, CONNECTICUT

Phase I Environmental Site Assessment

AKRF Project Number: 91065



AKRF, Inc. 700 Main Street – Suite C Willimantic, CT 06226 (860) 423-7127

JULY 2012

EXECUTIVE SUMMARY

AKRF, Inc. (AKRF) was retained by the Borough of Naugatuck to perform a Phase I Environmental Site Assessment (ESA) of the property located at 1 South Main Street in Naugatuck, Connecticut (site). The approximate 0.07-acre property is currently owned One South Main Street, LLC (One South Main). It contains a three story, approximately 5,800-square foot building, originally constructed in the 1950s as a one story restaurant, with the second and third story additions added circa 1982, for use as office space. The first story is currently used for auto parts storage by the adjacent Rich's Auto facility. The second and third stories are currently vacant office space.

The objective of this ESA was to identify potential environmental concerns associated with the subject site resulting from past or current site usage or the usage of neighboring properties. The property has been identified by the Borough of Naugatuck as requiring demolition for proposed bridge renovations adjacent to the property along Maple Street. The scope of this Phase I ESA was limited to the site building and the associated subject site property consisting of Map AM13, Lot 32E1 on the Borough of Naugatuck Assessor's Map. The lot consists of an approximately 0.07-acre lot containing the site building and a small apron surrounding the building footprint. The building is accessed via entrances from Maple Street and South Main Street.

The Phase I ESA was performed in accordance with customary principles and practices in the environmental consulting industry, and in conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) Standard E1527-05, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Practice.* This assessment revealed the following evidence of Recognized Environmental Conditions (RECs) in connection with the property:

- The subject site is located in a historically developed urban area, and has included industrial uses with various undocumented chemical waste handling practices dating back to the 1860s. Contaminated soil associated with fill materials and/or historic releases has been documented in previous site investigation reports.
- Properties located south of the site include several current and automobile repair and gasoline retail facilities. These off-site areas, in addition to the former rubber factory sites to the west and north, could represent potential sources of impact to site soil and/or groundwater quality.
- Based on the age of the building, potential for the presence of asbestos-containing materials (ACM) exist in the site building materials. An ACM survey/inspection will be required prior to any proposed demolition.

There are no outstanding regulatory agency Orders associated with the site. Based on hazardous waste generation records, the site does not appear to qualify as an "Establishment" as defined in the Transfer Act.

A detailed field investigation consisting of soil, groundwater and sediment collection and analysis is recommended to target specific areas of the site. The investigation should be based, in part, on detailed historic site maps and compounds that could be present.

TABLE OF CONTENTS

	Executive Summary	ES-1
1.0	Introduction	1
2.0	Physical Site Description	3
2.1	Site and Building Descriptions	3
2.2	Topography and Hydrogeology	3
2.3	Storage Tanks	
2.	3.1 Underground Storage Tanks (USTs)	4
2.	3.2 Aboveground Storage Tanks (ASTs)	4
2.4	Polychlorinated Biphenyls (PCBs)	4
2.5	Utilities	4
2.6	Waste Management and Chemical Handling Adjacent Land Use	4
3.0	Adjacent Land Use	5
4.0	User Provided information	6
4.1	Title Records	
4.2	Environmental Liens or Activity and Use Limitations	6
4.3	Valuation Reduction for Environmental Issues	6
4.4	Specialized Knowledge	6
4.5	Reason for Performing Phase I	
5.0	Site History and Records Review	7
5.1	Prior Ownership and Usage	7
	1.1 Historical Land Use Maps	7
	1.2 Historical Aerial Photographs	8
	1.3 Historic Site Maps	8
	1.4 Recorded Land Title Records	
	1.5 USGS Topographic Maps	
	1.6 Site History Summary	9
6.0	Regulatory Review	10
6.1		
	1.1 Federal	
	1.2 Connecticut Department of Environmental Protection	15
	1.3 Municipal File Information	
	Interviews	
7.1	Interview with Owner and Occupants	
7.2	Interview with Local Government Officials	
8.0	Preliminary Conceptual Site Model	
9.0		
10.0	Deviations	
11.0	Data Gaps	
12.0	Conclusions and Recommendations	
13.0	Signature Page	
14.0	Qualifications	
15.0	References	28

FIGURES

Figure 1 – Project Site Location Figure 2 – Site Plan

APPENDICES

- Appendix A Photographic Documentation
- Appendix B Sanborn Fire Insurance Maps
- Appendix C Aerial Photographs
- Appendix D Environmental Database
- Appendix E CTDEP File Documentation
- Appendix F Municipal File Documentation

1.0 INTRODUCTION

AKRF, Inc. (AKRF) was retained by the Borough of Naugatuck (Borough) to perform a Phase I Environmental Site Assessment (ESA) of an approximately 0.07-acre parcel located at 1 South Main Street in Naugatuck, Connecticut (site). The legal definition of the site is Map AM13, Lot 32E1 on the Borough Assessor's Map. A Project Site Location map is provided as Figure 1. The lot contains a three story, approximately 5,800-square foot building, originally constructed in the 1960s as a one story restaurant, with the second and third story additions added circa 1982, for use as office space. The first story is currently used for auto parts storage by the adjacent Rich's Auto facility. The second and third stories are currently vacant office space.

The site is located in a mixed residential, commercial and industrial area in downtown Naugatuck. Maple Street abuts the site to the north and South Main Street and Route 8 abut the site to the east. The site is abutted to the south by Rich's Auto, followed by commercial and residential properties along South Main Street. The Naugatuck River abuts the site to the west, followed by train tracks and the General DataComm (GDC) facility.

The objective of the ESA was to identify any potential environmental concerns associated with the site resulting from past or current site usage or the usage of neighboring properties. The property has been identified by the Borough of Naugatuck as requiring demolition for proposed bridge renovations adjacent to the property along Maple Street.

The scope of services for this assessment included the following:

- Visual observations of the project site and surrounding property were made to identify potential sources or indications of chemical contamination. The potential sources of contamination included, but were not limited to, underground storage tanks (USTs), aboveground storage tanks (ASTs), objects that could contain polychlorinated biphenyls (PCBs), and areas where hazardous materials were used, stored, treated, generated and/or disposed. Indications of chemical contamination include stained surfaces and chemical odors. In addition, readily-observable portions of the properties immediately adjacent to the study site were viewed from public rights-of-way to identify or determine the likelihood of any of the aforementioned potential sources of contamination being present.
- Published geological and groundwater information was obtained from available sources to determine the possibility of contamination from off-site sources.
- Historical land use maps/aerial photographs/commercial directories for the site and adjacent properties were reviewed to evaluate previous land use.
- The following federal regulatory databases were reviewed to determine the regulatory status of the site, adjacent properties, and properties within a predetermined study area: National Priority List (NPL); Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS); Emergency Response Notification System (ERNS); Resource Conservation and Recovery Act (RCRA) Treatment Storage and Disposal (TSD); RCRA Generators (GEN); RCRA Corrective Action (COR); Facility Index System (FINDS)/Facility Registry System (FRS); Toxic Release Inventory System (TRIS); Hazardous Materials Incident Response System (HMIRS); National Compliance Data Base System (NCDB); Database of PCB Handlers (PADS); and Permitted Nuclear Facilities.
- The following Connecticut Department of Environmental Protection (CTDEP) state regulatory databases and files were reviewed to determine the regulatory status of the site, adjacent properties, and properties within a predetermined study area: Bureau of Water and Waste Management; Hazardous Waste Sites; Spill reports; PCB files; Solid Waste files; Leachate and Wastewater

Discharge Sources; P-5 Industrial Surveys; Hazardous Waste files for owner(s), past tenant(s) and general town files; UST Registration forms and Leaking UST (LUST) files.

• A review of available Naugatuck Building Department files, Assessors records, Land Records, Fire Marshals records, and the Naugatuck Valley Health District files was conducted to obtain any information pertinent to the assessment of the environmental condition of the subject property. Specifically, records regarding past and present on-site fuel tanks and historical uses were requested and reviewed.

2.0 PHYSICAL SITE DESCRIPTION

Visual inspection of the site and adjacent areas was performed on June 27, 2012 by Glen D. Stefaniak, LEP, CPG, of AKRF. Visibility along the building exterior and parking areas was good and the entire property was accessible. The site was inspected for the presence of stained surfaces and soils, storage tanks, drums, leaking pipes, transformers, and any other evidence of hazardous material usage and storage. Photographs documenting the site inspection are included in Appendix A. A Site Plan is provided as Figure 2.

2.1 Site and Building Descriptions

The subject site occupied approximately 0.07 acres of land located along the southern side of Maple Street, and southwest of the intersection of Maple Street and South Main Street in downtown Naugatuck, Connecticut. The site was occupied by a three-story, 5,800 square foot building, originally constructed as a one-story restaurant in the 1960s. The second and third story additions added circa 1982, for use as office space. The first story is currently used for auto parts storage by the adjacent Rich's Auto facility. The second and third stories are currently vacant office space.

The first floor of the site building was constructed with slab on grade with wood framing. The second and third floors were constructed steel framing and supporting columns. The exterior walls were covered by an exterior stucco surfacing material. The first floor contained two main rooms, currently utilized for auto parts storage by the adjacent Rich's Auto facility. The rooms consisted of concrete floors with carpeting, wood framing, drywall, and a drop ceiling containing two foot by two foot acoustical tiles. The first floor also contained two bathrooms with ceramic floor tile, and a utility closet

The second and third floors are accessed by two stairways located in the northeastern and northwestern corners of the building. The second floor contains two main rooms with wood flooring and carpeting, acoustical tile ceiling, metal framed walls with drywall, and two bathrooms with ceramic tile. The third floor contained two main rooms with laminate wood flooring, one bathroom, and a utility closet.

2.2 Topography and Hydrogeology

In general, the surface topography at the majority of the site was flat with a steep slope following the western property boundary toward the Naugatuck River. Based on a review of the United States Geological Survey (USGS) Naugatuck Quadrangle, the majority of the property is at an elevation of approximately 193 feet above the National Geodetic Vertical Datum of 1929 (an approximation of mean sea level).

Based on the Surficial Materials Map of Connecticut (Stone, et al, 1992), the site surficial geology consists of sand and gravel overlying sand. The map description indicates that this geologic unit is typically less than 20 feet thick, horizontally bedded, and overlies thicker, inclined layers of sand.

According to the Bedrock Geological Map of Connecticut (Rodgers, 1985), the underlying bedrock at the site consists of a grey to dark grey, fine to medium grained schist and gneiss (Waterbury Gneiss). Bedrock outcroppings were noted along the Naugatuck River, west of the site. Based on local topographic and hydrologic features, groundwater flow at the site is expected to be to the west towards the Naugatuck River.

2.3 Storage Tanks

2.3.1 Underground Storage Tanks (USTs)

No evidence (e.g. fill pipes, vent pipes) of existing USTs was noted at the time of the site inspection. None of the site contacts had any knowledge of current or historic USTs on the property.

2.3.2 Aboveground Storage Tanks (ASTs)

No petroleum ASTs were noted during the site reconnaissance. None of the site contacts had any knowledge of current or historic ASTs on the property.

2.4 Polychlorinated Biphenyls (PCBs)

Prior to 1977, PCBs were widely used for their cooling properties in electrical equipment such as transformers, capacitors, switches and voltage regulators. They were also used in hydraulic systems due to their resistance to compression.

No transformers were noted on the property during the site reconnaissance. Fluorescent lighting ballasts and other electrical components that serve the building could, or could have, contained PCBs.

2.5 Utilities

The site was serviced by municipal water supply and sewer service. Sanborn Fire Insurance maps depicted underground water service pipes along Maple Street and South Main Street as early as 1887. City water is currently supplied to the building for sanitary and fire suppression uses. Water valves were noted along the southern interior of the building.

It is likely that much of the sanitary and industrial wastes from the site originally were discharged directly to the Naugatuck River. No floor drains or sumps were identified during the site reconnaissance.

The site building is supplied with natural gas. A gas meter was noted on the southeastern corner of the building. Gas valves were noted east of the building, along South Main Street.

Storm drains were noted along Maple Street and South Main Street, north and east of the site.

2.6 Waste Management and Chemical Handling

There are no current waste management and chemical handling activities are related to site maintenance and mechanical activities and systems, and offices. The site building is currently vacant and only utilized for auto parts storage on the first floor of the site building. No chemical processes are conducted on-site.

No stained flooring or exterior staining was noted during the site reconnaissance; which may be indicative of an historic release.

No trash collection dumpsters were observed on the site; however, two trash collection dumpsters were noted on the Rich's Auto property, immediately south of the site property boundary.

3.0 ADJACENT LAND USE

The subject site is located in a historically developed urban area, and has included industrial uses with various undocumented chemical waste handling practices dating back to the 1860s. Contaminated soil associated with fill materials and/or historic releases has been documented in previous site investigation reports.

The surrounding area has a significant industrial use history dating from the 1860s until circa 1985. Primarily, the site manufactured rubber goods including shoes, sneakers, and gloves. Several companies operated adjacent to the site, on the western side of the Naugatuck River, including the Goodyear India Rubber Glove Manufacturing Company, Goodyear Metallic Rubber Shoe Company, United States Rubber, and Uniroyal, Inc. Goodyear/U.S. Rubber/Uniroyal facilities operated in several areas of Naugatuck. Potential contamination of soil and groundwater could have resulted from spillage and/or disposal of contaminants at, or to, these use areas and locations.

Properties located west of the site include several current and historic manufacturing facilities, a bulk fuel facility, and an auto repair and gasoline retail site. These off-site areas, in addition to the former rubber factory sites to the west and north (upgradient of the site), could represent potential sources of impact to site soil and/or groundwater quality.

The site is abutted to the south by Rich's Auto, followed by commercial and residential properties along South Main Street. The Naugatuck River abuts the site to the west, followed by train tracks and the General DataComm (GDC) facility.

4.0 USER PROVIDED INFORMATION

Richard and Shellie Hertel, current property owners, completed a Phase I User Questionnaire in accordance with *All Appropriate Inquiry* protocols. The following is a summary of information provided in the questionnaire and the User's responses.

4.1 Title Records

No title record information was provided to AKRF for review.

4.2 Environmental Liens or Activity and Use Limitations

No information concerning environmental liens or activity and use limitations was provided to AKRF for review. Richard and Shellie Hertel also indicated that he had no knowledge of environmental liens being placed on the property.

4.3 Valuation Reduction for Environmental Issues

No information regarding how the value of the property may be impacted by site environmental conditions was indicated.

4.4 Specialized Knowledge

The user was not aware of any other commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases (e.g., site history, specific site chemical usages, the occurrence of site spills or releases, and/or environmental clean-ups).

4.5 Reason for Performing Phase I

The objective of the ESA was to identify any potential environmental concerns associated with the site resulting from past or current site usage or usage of neighboring properties and to assist in the assessment for the building demolition associated with the planned repairs for the adjacent Maple Street bridge.

Phase I ESA

5.0 SITE HISTORY AND RECORDS REVIEW

5.1 **Prior Ownership and Usage**

5.1.1 Historical Land Use Maps

Historic Atlases

An 1868 Atlas of New Haven County Connecticut, prepared by F.W. Beers, showed several structures on, and southerly adjacent to the site. The "Goodyear Rubber Shoe Factory" was shown on the southern side of Rubber Avenue, approximately 0.5-miles southwest of the site.

An 1868 *Plan of Naugatuck*, from the Petersen Collection showed one building on the site and six connected structures immediately south of the site. These structures appear to be the theater and commercial buildings depicted on the Sanborn maps. A hotel is shown on the eastern side of South Main Street.

<u>Sanborn Fire Insurance Maps</u>

Historical insurance maps were reviewed for indications of industrial usage or other evidence suggesting the use or disposal of hazardous materials on or adjacent to the subject property. Specifically, Sanborn Fire Insurance Maps (Sanborns) from 1887, 1892, 1897, 1904, 1910, 1923, 1960, and 1968 were reviewed and are summarized as follows:

<u>1887</u>

The 1887 Sanborn map depicted one building on the site, connected to six additional buildings running to the south along South Main Street. The site building was shown as a salon, with a fruit stand along Maple Street. The remaining buildings were shown as a tin shop, barber shop, two groceries, and a restaurant. The building complex was labeled collectively as Stage Scenery Footlights. The Naugatuck Hotel was shown on the west side of South Main Street. Commercial and residential buildings were shown to the northeast.

1892 and 1897

The 1892 and 1897 Sanborn maps depicted the site similar to the 1887 map; however, the fruit stand was shown as a cobbler, with a new fruit stand building off the northwest corner of the site building.

<u>1904</u>

The site building and adjoining tin shop were labeled as "fire ruins". The formerly adjoin buildings to the south were shown similar to the previous maps; however, the rear portions (west side) were also labeled as "tenements". The building complex was collectively labeled as "Main Street Theater".

<u>1910</u>

The 1910 Sanborn map depicted three new buildings on the site labeled as "cigars and tobacco, fruit, and salon". The adjoin building complex to the south was shown similar to the 1904 Sanborn map

<u> 1923</u>

The 1923 Sanborn map one site building labeled as a bank. The adjoining buildings to the south were still shown; however, they were not labeled as specific business types. The property on the east side of South Main Street was now shown as boarding houses.

<u>1960</u>

The 1960 Sanborn map showed one building on the site, similar to the current building footprint. The adjacent shop and tenement buildings were no longer shown, and a restaurant was shown further to the south (35 South Main Street). Route 8 was shown on the east side of South Main Street, where the Naugatuck Hotel and boarding house were previously shown.

Copies of the Sanborn Fire Insurance Maps are provided as Appendix B.

5.1.2 Historical Aerial Photographs

Historical aerial photographs were reviewed to assess prior land usage. Specifically, aerial photographs from 1934, 1965, 1970, 1980, 1986, and 1990 were reviewed.

<u> 1934</u>

Multiple buildings were located southerly adjacent to the site, with one building located on the existing site property. Multiple mill buildings were located throughout the across the Naugatuck River to the west.

<u> 1951 </u>

The site was similar to the 1934 aerial photograph. Some of the mill buildings on the west side of the Naugatuck River have been removed. Commercial buildings along the western side of Water Street had also been removed.

<u>1965, 1970, 1975 and 1980</u>

The site was similar on the 1965, 1970, 1975 and 1980 aerial photographs as the 1960 Sanborn map. The existing site building was shown and some of the buildings south of the site have been razed.

<u>1986 and 1990</u>

The site was similar on the 1986 and 1990 aerial photographs. The existing site building, with the additions, and the southern parcel containing Rich's Auto appeared similar to the current layout.

Copies of aerial photographs are included as Appendix C.

5.1.3 Historic Site Maps

A map entitled, "Property of F.W. Tolles and Others", on file in the Borough Town Clerk's Land Records room, shows the property boundaries of the site. No building or other information was shown.

5.1.4 Recorded Land Title Records

Land records at the Naugatuck Town Clerk's office and Assessor's office were reviewed during this ESA for the site and the surrounding properties. A cursory evaluation of site

ownership was conducted based upon readily available land records. The historical ownership for the site is presented below:

- Emma F. Tolles (prior to 1897);
- William McCarthy (1897 to 1912);
- Michael Sullivan (1912 to 1915);
- John F. Sullivan (1915-1944);
- Frank Presto (1944 to 1946);
- Gaetano Sileo and Estate (1946 to 1952);
- Grace S. Romanski and Lucille Sileo (1952-1953);
- Naugatuck R&R Corporation (1953-1975);
- William C. Rado, Sr. and Frank Castanga (1975-1976);
- John L. Rinaldi (1976-1980);
- Helen Rinaldi (1980-1982);
- John L. Rinaldi (1982-2004);
- John Connelly (2004);
- One South Main LLC (2004-2005);
- Dominic Pecoraro (2005-20080;
- Bayyiew Loan Servicing LLC (2008-2011); and
- One South Main Street LLC (2044-present).

5.1.5 USGS Topographic Maps

Historical topographic maps were reviewed for evidence of prior land usage. Specifically, maps from 1943, 1947, 1964, 1964 (photorevised 1972), and 1964 (photorevised 1984) were reviewed for the site and vicinity, as shown on the United States Geologic Survey Naugatuck Quadrangle maps.

The 1943 and 1947 maps depicted several buildings along South Main Street. The general configuration was similar to buildings shown on Sanborn maps from 1904 to 1923. The 1964 map and the two photorevised (1972 and 1984) maps showed the current site building.

5.1.6 Site History Summary

Based on a review of historic maps, site plans, and other documents, it appears that the site was originally developed prior to the 1887 with various commercial buildings. The former buildings appear to have burned down between 1897 and 1904. The existing site building was shown on the 1960 Sanborn map and 1965 aerial photograph.

The existing site building has been used as a restaurant since the 1960s, with the second and third story additions used as office space since circa 1982.

6.0 **REGULATORY REVIEW**

6.1 Introduction and Summary

AKRF personnel conducted a review of town and property-specific file information at the CTDEP offices in Hartford, Connecticut on July 5, 2012. Environmental databases at the CTDEP were also reviewed to assess information for the subject property and nearby properties.

In addition, FirstSearch Technology Corporation (FirstSearch) of Norwood, Massachusetts was contracted to conduct an environmental database search to obtain information regarding the regulatory status of the site and the surrounding area. This information included records from databases maintained by the USEPA and CTDEP. AKRF reviewed these records to identify the use, generation, storage, treatment and/or disposal of hazardous materials and chemicals, or releases of such materials that may have affected the project site. A copy of the environmental database report is included as Appendix D. The following table summarizes the results of the database searches.

Database – Date	ASTM/Standard Search Radius	Number Of Sites Within Search Radiu
NPL Sites – 05/09/12	1.0 mile	0
NPL Sites – Delisted – 05/09/12	0.5 mile	0
CERCLIS Sites – 04/30/12	0.5 mile	0
NFRAP – 04/30/12	0.5 mile	0
RCRA CORRACTS – 03-13-12	1.0 mile	1
RCRA TSD – 03-13-12	0.5 mile	0
RCRA GEN – 03-13-12	0.25 mile	3
Federal IC/EC – 03-13-12	0.5 mile	0
ERNS - 04/30/12	Site	0
Tribal Lands – 12/01/08	1.0 mile	0
State/Tribal Hazardous Waste Sites-04/23/10	1.0 mile	16
State Spills* - 02/01/12	Site	0
State/Tribal SWL facilities – 03/24/11	0.5 mile	0
State/Tribal Registered UST/AST – 03/16/12	Site and adjoining	4
State/Tribal LUSTs - 02/03/12	0.5 mile	17
State/Tribal EC – NA	0.5 mile	0
State/Tribal IC – 01/01/05	0.25 mile	0
State/Tribal VCP – 04/23/10	0.50 mile	1
State/Tribal Brownfields – 05/01/08	0.50 mile	0
FINDS – 05/29/09	0.25 mile	37
TRIS-01/04/12	0.25 mile	0
HMIRS – 04/15/12	0.25 mile	1
NCDB – 02/09/12	0.25 mile	7
PADS – 10/21/11	0.25 mile	1
NUCLEAR Permits – 04/30/99	0.25 mile	0
Federal Other – 01/01/10	0.25 mile	0
State Other – 04/23/10	0.25 mile	4

In addition to the sites mapped by FirstSearch, 597 non-geocoded sites (electronic database listings without specific addresses/locations) were identified by the electronic database search. That list was reviewed to determine which listings, if any, could be associated with the site.

6.1.1 Federal

Federal ASTM standard records reviewed included: National Priorities List (NPL); National Priorities List (NPL) – Delisted; Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS); No Further Remediation Action Required (NFRAP); Resource Conservation and Recovery Act (RCRA) — Treatment, Storage, and Disposal (TSD), Generators (GEN) and Corrective Action (COR ACT), No Longer Regulated (NLR); and Emergency Response Notification System (ERNS).

Federal ASTM supplemental records reviewed included: FINDS (Facility Index System/ Facility Identification Program Summary Report); HMIRS (Hazardous Materials Information Reporting System); NUCLEAR; PADS (PCB Activity Database System); TRIS (Toxics Release Inventory System); and NCDB (National Compliance Database) which includes TSCA (Toxic Substances Control Act) and FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) Tracking System.

National Priority List (NPL)

The National Priorities List (NPL) is the EPA database of hazardous waste Sites identified for remedial action under the Superfund Program.

No NPL properties were identified for the site and no NPL sites were identified with a one mile radius of the project site.

Delisted NPL (National Priority List Deletions)

This database describes former NPL Sites that are removed from the NPL list by the US EPA. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establish the criteria used by the EPA to delist Sites where no further federal response is needed.

No delisted NPL Sites were identified within a ¹/₂-mile radius of the study site.

<u>Comprehensive</u> Environmental Response, Compensation and Liability Information <u>System (CERCLIS)</u>

The Comprehensive Environmental Response Compensation and Liability Information System (CERCLA) is a compilation of Sites that EPA has investigated or is investigating

No CERCLIS listings were identified for the site and no CERCLIS sites were identified within a ¹/₂-mile radius of the project site.

<u>Comprehensive Environmental Response, Compensation, and Liability Information</u> <u>System-No Further Remedial Action Planned (CERCLIS-NFRAP)</u>

NFRAP are CERCLA Sites where no Further Remediation Action Required is required.

The site is not listed on the NFRAP inventory and no CERCLIS-NFRAP listings were identified within a ¹/₂-mile radius of the site.

RCRA CORRACTS (Corrective Actions Report)

The CORRACTS database identifies hazardous waste handlers with RCRA corrective action activity.

No CORRACTS listings were identified for the site. One CORRACTS site was identified within a one mile radius of the site. The listed site, Chemtura Corp., is located at 280 Elm Street, approximately 0.6-miles southeast of the subject site. Based on its distance from, and location with respect to, the subject property, it is not expected to represent a potential off-site source of contamination.

RCRA TSD (Treatment, Storage and Disposal)

The Resource Conservation and Recovery Information System includes information on Sites that transport, store, treat and/or dispose of hazardous waste defined by RCRA.

No RCRA TSD listing was identified for the site and no RCRA TSD listing were identified within 0.5-miles of the site.

RCRA GEN (Generators)

The Resource Conservation and Recovery Information System includes information on Sites that generate hazardous waste defined by RCRA.

The Site is not listed as a RCRA GEN property. Two RCRA TSD listing were identified within a 0.5-mile radius of the site. Lewis Engineering Co, is located at 238 Water Street, approximately 0.25-miles northwest of the site. Based on its location and orientation with respect to the subject site, it does not represents a potential off-site source of contamination.

General Data Comm (GDC), is ocated at 6 Rubber Avenue, approximately 0.25-miles southwest of the site. Based upon the distance from, and topographic orientation with respect to, the subject property, along with the hydraulic boundary of the Naugatuck River between the properties this facility is not expected to represent a potential off-site source of contamination.

Emergency Response Notification System (ERNS)

This federal database, compiled by the Emergency Response Notification System, records and stores information on reported releases of petroleum and other potentially hazardous substances.

The subject property was not listed as an ERNS site.

FINDS (Facility Index System/ Facility Identification Initiative Program Summary Report)

The FINDS databases in the First Search report included: PCS (Permit Compliance System); AIRS (Aerometric Information Retrieval System); DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); FURS (Federal Underground Injection Control); C-Docket (Criminal Docket System used to track criminal enforcement actions for all environmental statutes); FFIS (Federal Facilities Information System); STATE (State Environmental Laws and Statutes); and PADS (PCB Activity Data System).

No FINDS listings were identified for the site. Two listings were identified for Salem Chevrolet, located at 125 South Main Street, approximately 0.10-miles southwest of the site. One listing was identified for Central Avenue Schools, located approximately 0.10-miles southeast of the site. These properties may represent potential off-site sources of contamination.

Two listings were identified for GDC. and one listing was identified for Naugatuck Manufacturing Facility. The GDC site is listed in the CTDEP Site Information Management Systems (SIMS), Facility Registration System (FRS), and AIRS programs. In addition, it is listed in the RCRAINFO program as a SQG. The Naugatuck Manufacturing Facility is listed in the SIMS and FRS programs. No additional information was included in the site detail reports.

Thirty-five other FINDS listings were identified within a 0.25-mile radius of the site; however, based on their locations and orientation with respect to the subject site, they do not appear to represents potential off-site sources of contamination.

Toxic Chemical Release Inventory System (TRIS)

The TRIS contains information reported to the USEPA and/or CTDEP by a variety of industries on their annual estimated releases of certain chemicals to the environment. The TRIS was mandated by Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986. Available information includes the maximum amount of chemicals stored on-Site; the estimated quantity emitted into the air, discharged into bodies of water, injected underground, or released to land; methods used in waste treatment and their efficiency; and data on the transfer of chemicals off-Site.

No TRIS listing was identified for the site and no TRIS listings were identified within a 0.25-mile radius of the.

HMIRS (Hazardous Materials Information Reporting System)

The HMIRS database contains hazardous material spill incidents reported to the US Department of Transportation (DOT).

No HMIRS listing was identified for the site. One HMIR listing was identified for Mystic Tank Lines Corp., located at 240 South Main Street, approximately 0.25-mile southeast of the site. Based upon the distance from, and topographic orientation with respect to, the subject property, it is not expected to represent a potential off-site source of contamination.

NUCLEAR

This database includes the Nuclear Regulatory Commission's database of facilities licensed to handle radioactive materials such as laboratories and nuclear generating stations.

No NUCLEAR listings were found for the subject site.

National Compliance Database (NCDB)

The NCDB is the EPA's national repository for FTTS INSP: FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) / TSCA (Toxic Substances Control Act) Tracking System.

The site is not listed on the NCDB.

6.1.2 Connecticut Department of Environmental Protection

The following report sections provide information regarding the CTDEP databases and file information obtained at the CTDEP file room in Hartford, Connecticut.

Bureau of Waste Management

The Bureau of Waste Management maintains site-specific file information for properties that generate, store or transport hazardous materials and/or have been inspected by CTDEP waste personnel. Records may include waste manifests, Notices of Violation (NOVs), inspection forms/reports, and/or compliance statements.

CTDEP Bureau of Waste Management file information was found for the adjacent GDC site, on the west side of the Naugatuck River, and primarily pertained to various past hazardous waste management inspections, violations and compliance issues regarding GDC. GDC was issued a Consent Order by CTDEP on August 18, 1997 regarding compliance with hazardous waste management regulations. This order required the removal and proper disposal of all hazardous, toxic, and industrial waste stored on the property. CTDEP issued a Consent Order Closure Letter on December 8, 1998 indicating the consent order was complied with.

The 1997 Consent Order indicated that GDC had failed to comply with a September 1988 CTDEP Hazardous Waste Order (HM-532), which primarily required that wastes generated on the site be properly characterized, packaged and disposed. Hazardous waste related training, communications and tracking protocols were also identified as lacking at the facility and needed to be properly implemented. The 1997 Consent Order described a CTDEP Waste Engineering and Enforcement Division inspection of the site on February 21, 1995, which enumerated 10 failures and inadequacies regarding hazardous materials handling, shipping, and related protocols. None of the items pointed to a particular area of the GDC property.

Two 1988 CTDEP inspections (resulting from a complaint) of the GDC facility indicated a variety of conditions including: the storage of approximately 60 drums adjacent to the southeastern corner of the building containing Instapak (a liquid foam packing material); a reported "number of drums/containers" remaining from the former Uniroyal occupancy; three drums of Freon used to clean parts; 13 drums of leftover wastes in the basement level near a "truck loading ramp"; and an unlabelled 55-gallon drum near the northeastern exterior of the building. The complaint (May 1988) was regarding the storage of numerous drums in the rear of the building identified as isocyanate and an epoxy resin.

A June 1988 Hazardous Waste Inspection Checklist for GDC indicated that the facility employed 300 people and that on-site processes consisted of assembly, hand soldering, and cleaning, electrical testing, foam packaging, and foam gun cleaning.

Remedial Action Reports were on file for the Parcel C property, north of the site, including an October 1998 Final Remedial Action Report (FRAP) for the northern portion of Parcel C and a Draft Remedial Action Plan (RAP) for "Parcel C-South", adjacent to the north of Maple Street. The FRAP indicated that an approximately 250 by 250-foot area was excavated to a depth of four feet and that an engineered control was installed as part of the remedial action. Groundwater monitoring was held in abeyance pending construction activities on the property.

The Draft RAP for Parcel C South indicated that contaminated fill was placed on the property after the building demolition occurred. Groundwater flow was documented to be in a general north to south direction. Soils at the site were contaminated with lead, arsenic and semi-volatile organic compounds (SVOCs) and groundwater was contaminated with chlorinated solvents. Vinyl chloride in groundwater exceeded the CTDEP Remediation Standard Regulation (RSR) volatilization criteria in the eastern portion of the property. Chemical oxidation was proposed to treat both soil and groundwater contamination, in addition to the removal of some shallow contaminated soil. The deepest soil boring completed on the property (39 feet below ground surface) did not encounter bedrock.

<u>Solid Waste Landfills (SWL)</u>

SWL records typically contain an inventory of solid waste disposal facilities or landfills in a particular state.

No SWL Sites were identified within a 0.5-mile radius of the study site.

Leaking Underground Storage Tanks (LUST)

LUST records contain an inventory of reported leaking underground storage tank incidents.

No LUST listings were found for the study site. The FirstSearch report listed 17 LUSTs within a 0.5-mile radius of the site.

<u>Underground Storage Tanks (UST)</u>

USTs are regulated under Subtitle I RCRA and must be registered with the state department responsible for administering the UST program. The site is not listed as a UST property. Fifteen other UST sites are listed within 0.25-mile radius of the site.

Oil & Chemical Spills

Oil and Chemical Spill reports include a list of releases reported to the CTDEP, including those attributed to tank test failures and tank failures. The tank test failures list only pertains to tanks that are below ground, while the tank failures list includes tanks that are either below or above ground. This database also lists spills that occur during the transportation of chemicals to or from unknown or miscellaneous sources. No environmental database spills were reported for the subject site.

List of Contaminated or Potentially Contaminated Sites (LCPCS).

The LCPCS list includes a variety of state and federal database information for hazardous waste facilities maintained by the CTDEP and includes the following: Inventory of Hazardous Waste Disposal Sites (SHWS); Hazardous Waste Land Disposal Notifiers (HWLDN); CERCLIS; LUST; Pollution Abatement Orders (PAO); Property Transfer Program (PTP) listings; Voluntary Remediation Program (VRP) listings; and Environmental Land Use Restrictions (ELUR) which include a variety of Engineering Controls (EC) and Institutional Controls (IC) for inaccessible or environmentally isolated contaminated soils.

The site was not listed on the LCPCS.

Bureau of Water Management

The Bureau of Water Management maintains site-specific industrial and remediation files, P-5 Industrial Wastewater Surveys, Discharge Monitoring Reports/Permits, Orders, Property Transfer information and other facility information found in the general town files.

No P-5 inspection reports were found for the site.

Inspection reports for nearby facilities note industrial discharges directly to Long Meadow Brook; which discharges into the west side of the Naugatuck River, located west of the site. A March 1968 CTDEP Interdepartmental Memo regarding the investigation of possible sources of pollution to Long Meadow Brook described a dumping area located to the rear of Parsons Screw Products Company, that reportedly contained oil, metal chips and fuller's earth (absorbent material) from the factory floor. The area was located adjacent to Long Meadow Brook, approximately 0.25-miles west of the site.

Bureau of Water Management complaints were on file regarding releases to Long Meadow Brook and the Naugatuck River dating from July and August of 1999, May of 2001, and December of 2004/January of 2005. The 1999 reports were for a filmy white color on Long Meadow Brook. The Naugatuck Recreation Department was found to be discharging paint wastewater to the brook. The 2001 complaint was for the discharge of sanitary sewer wastes to the river from a pipe at the Maple Street bridge, northeast of the site. An unpermitted, combined sanitary sewer pipe was sealed and two manholes were installed to correct the problem. The 2004/2005 complaint was for the presence of foam in Long Meadow Brook at Rubber Avenue Extension. The foam appeared to be naturally occurring and no evidence of an illegal discharge was noted.

Based upon the location of the discharges in relation to the site, the releases do not appear to have any direct potential for environmental impact to the subject property.

Connecticut Property (Property Transfer Filings)

The Connecticut Property Transfer Filings database lists sites that meet the definition of an "Establishment" including hazardous waste generators (above 100 kilograms in any one month), dry cleaners, furniture strippers, and vehicle body repair facilities. These Sites have been transferred to another owner and are subject to investigation and remediation.

The site is not listed on the CTDEP Property Transfer database.

Connecticut Leachate and Wastewater Discharge Sites (LWDS)

The LWDS database included point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the CTDEP. These maps locate surface and groundwater discharges that have received a wastewater discharge permit from the state, are historic and now defunct waste sites, or are locations of accidental spills, leaks, or discharges of a variety of liquid or solid wastes.

No LWDS listings were shown on the site.

CTDEP file information is provided as Appendix E.

CTDEP Water Quality Classification Maps

The CTDEP Water Quality Classification map indicates that groundwater beneath the study site and surrounding area is classified GB. The GB classification indicates groundwater within a historically highly urbanized area or an area of intense industrial activity and where public water supply service is available. CTDEP presumes that such groundwater may not be suitable for human consumption without treatment due to waste discharges, spills, or leaks of chemicals or land use impacts.

The closest surface water body is the Naugatuck River, located immediately west of the site. According to the CTDEP Water Quality Classification map, the Naugatuck River is classified as a Class B surface water body. The Class B designation indicates that the water body is known or presumed to meet water quality criteria which support designated uses, which include: habitat for fish and other aquatic life and wildlife; recreation; navigation; and industrial and agricultural water supply.

6.1.3 Municipal File Information

Records maintained in the Naugatuck Building Department, Engineering Department, Naugatuck Valley Health District, Assessor's Office, City Clerk, and Fire Marshal's office were reviewed for information regarding current or former petroleum or hazardous materials usage or handling at the site. The municipal records typically include fuel oil, gasoline and waste oil tank installation applications and permits, records of building permits, site plans, other prior use information and complaints. All available files pertaining to this property were requested and reviewed. AKRF personnel visited the aforementioned offices, or exchanged telephone communications on June 27, 2012. A summary of the records reviewed is presented below.

Building Department

Naugatuck Building Department records indicated that building permits were issued in 1988 for the restaurant building addition and the first floor "tenant fit-up". Additional permits were on file for heating and air conditioning installation, awning installation, installation of a gas heating system, and electrical permits for the office space build up.

A 1992 Notice of Violation was issued by the CTDEP Bureau of Water Management, Inland Water Resources Division, to John Rinaldi citing construction materials (bricks and masonry) being dumped along the stream channel encroachment lines for the Naugatuck River.

<u>Fire Marshal</u>

The Naugatuck Fire Marshal's office did not contain any information regarding USTs or violations at the site property.

Assessor's Office

AKRF reviewed current field cards on file at the Naugatuck Assessor's office. The current owner of the property is listed as One South Main Street, LLC.

Town Clerk

Records at the Town Clerk's office were reviewed for site ownership history. A summary of ownership history for the properties is provided in Section 5.1.4.

Health Department

The Naugatuck Valley Health District contained no file information regarding septic systems or complaints for the site.

Engineering Department

Naugatuck Engineering Department personnel provided AKRF with various historic maps depicting utilities and buildings on the site. The site is currently supplied with municipal water and sewer service.



7.0 INTERVIEWS

7.1 Interview with Owner and Occupants

One South Main Street, LLC representatives Shellie and Rich Hertel were interviewed regarding current and past activities that occurred on the site. The uses and history processes previously described in this report were indicated.

The on-site GDC assembly processes consist mainly of screwing or sliding together premanufactured boards and board systems into "kits" which are then placed into custom-made boxes for shipping. GDC also conducts testing of completed units and component repairs. In some cases "sub-assemblies" are created, shipped out for additional components of manufacturing (soldering, cleaning, etc.) and then received for final assembly, testing and shipping. No chemical processes are conducted by GDC on-site in association with the manufacturing/testing processes. Such activities are outsourced to facilities in Shelton and Windsor, Connecticut.

7.2 Interview with Local Government Officials

Interview information obtained from local government officials is provided in Section 6.1.3 of this report.

8.0 PRELIMINARY CONCEPTUAL SITE MODEL

Based on the completed site, historic and regulatory reviews, and an evaluation of previous, available reports, the following preliminary Conceptual Site Model (CSM) regarding the nature of known or potential releases at the site has been developed. The CSM is preliminary, since it is not based on a comprehensive site investigation, but rather Phase I level research and observations whereby Recognized Environmental Conditions/Areas of Environmental Concern have been identified. The CSM should be revised as additional data becomes available.

Recognized Environmental Condition	Potential Release Mechanism	Migration Pathways	Constituents of Concern	Potentially Affected Media
Potential area-wide fill material	Placement of contaminated backfill	Soil infiltration	Metals, VOCs, SVOCs, ETPH, PCBs	Soil and groundwater
Adjacent auto repair facility	Incidental spillage, direct disposal, leaking USTs, direct discharges to the ground surface, seepage through building floors, discharges to subsurface conveyance or leaching systems	Soil infiltration or along piping and subsurface trenches/pits, dry wells	Metals, VOCs, SVOCs, PCBs, ETPH, PCBs	Soil and groundwater



9.0 **PREVIOUS REPORTS**

No previous environmental reports pertaining to the site were provided to AKRF or discovered during the file review process.

Limitations

This assessment met the requirements of the American Society for Testing and Materials (ASTM) as established by ASTM Standard E1527-05. ASTM E1527-05 includes compliance with the All Appropriate Inquiry (AAI). The following limitations should be noted:

- Results of this investigation are valid as of the dates on which the investigation was performed.
- No asbestos assessment or sampling of building materials was conducted during the assessment.
- The site owner representatives had limited knowledge regarding the site history, historic operations, or waste management practices.

10.0 DEVIATIONS

No deviations from the current ASTM Phase I ESA standard were noted.

11.0 DATA GAPS

Based on published materials including aerials photographs, mapping and municipal, state and federal file information a detailed site history was established during the course of this Phase I ESA. No specific information regarding the chemical or petroleum waste storage and handling procedures was available.

12.0 CONCLUSIONS AND RECOMMENDATIONS

The Phase I Environmental Site Assessment tasks were performed in accordance with customary principles and practices in the environmental consulting industry, and in conformance with the scope and limitations of American Society for Testing and Materials (ASTM) Standard E1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Practice. Any exceptions to, or deletions from, this practice are described in Sections 10.0, 11.0, and 12.0 of this report.

This assessment revealed the following evidence of Recognized Environmental Conditions (RECs) in connection with the property:

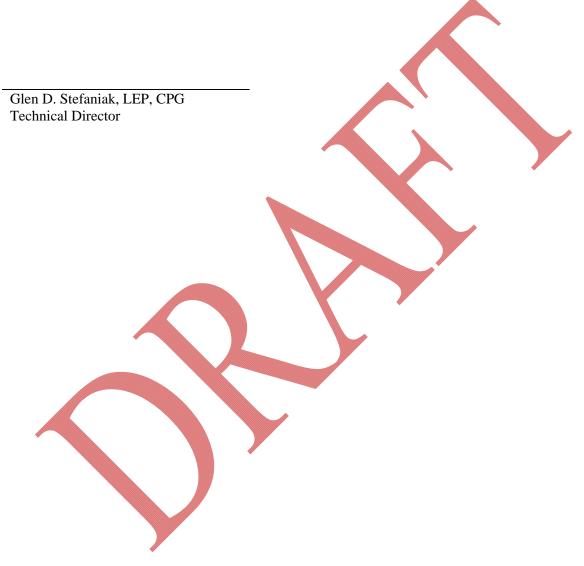
- The subject site is located in a historically developed urban area, and has included industrial uses with various undocumented chemical waste handling practices dating back to the 1860s. Contaminated soil associated with fill materials and/or historic releases has been documented in previous site investigation reports.
- Properties located south and west of the site include several current and historic manufacturing facilities, a bulk fuel facility, and an auto repair and gasoline retail site. These off-site areas could represent potential sources of impact to site soil and/or groundwater quality.
- Based on the age of the building, potential for the presence of asbestos-containing materials (ACM) exist in the site building materials. An ACM survey/inspection will be required prior to any proposed demolition.

There are no outstanding regulatory agency Orders associated with the site. Based on hazardous waste generation records, the site does not appear to qualify as an "Establishment" as defined in the Transfer Act.

A detailed field investigation consisting of soil and groundwater sample collection and analysis is recommended to target specific areas of the site. The investigation should be based, in part, on detailed historic site maps and compounds that could be present in the identified RECs.

13.0 SIGNATURE PAGE

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have performed all the appropriate inquiries in conformance with standards and practices set forth in 40 CFR Part 312.



14.0 QUALIFICATIONS

The purpose of this assessment was to convey a professional opinion about the potential presence or absence of contamination, or possible sources of contamination on the property, and to identify existing and/or potential environmental problems associated with the property.

The assessment was performed in accordance with customary principles and practices in the environmental consulting industry, and in accordance with ASTM Standard E1527-05, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Practice.* It is intended for use as a supplement to the property appraisal, and is only to be used as a guide in determining the possible presence or absence of hazardous materials on the subject property at the time of the inspection. This assessment is based upon the review of readily available records relating to previous use of both the project Site and the surrounding area, as well as a visual inspection of the current condition of the property. Environmental characteristics at this Site and surrounding Sites may be subject to change in the future.

This Phase I Assessment is not, and should not be construed as, a guarantee, warranty, or certification of the presence or absence of hazardous substances, which can be made only with testing, and contains no formal plans or recommendations to rectify or remediate the presence of any hazardous substances which may be subject to regulatory approval. This report is not a regulatory compliance audit.

This report is based on services performed by AKRF, Inc. professional staff and observation of the Site and its surrounding area. We represent that observations made in this assessment are accurate to the best of our knowledge, and that no findings or observations concerning the potential presence of hazardous substances have been withheld or amended. The research and inspections have been carried to a level that meets accepted industry and professional standards. Nevertheless, AKRF and the undersigned shall have no liability or obligation to any party other than the Borough of Naugatuck and its successors or assignees, and AKRF's obligations and liabilities to the above, their successors or assignees is limited to fraudulent statements made, or negligent or willful acts or omissions.

The findings set forth in this report are strictly limited in scope and time to the date of the evaluation described herein. The conclusions and recommendations presented in the report are based solely on the services and any limitations described in this report.

This report may contain conclusions that are based on the analysis of data collected at the time and locations noted in the report through intrusive or non-intrusive sampling. However, further investigation might reveal additional data or variations of the current data, which may differ from our understanding of the conditions presented in this report and require the enclosed recommendations to be reevaluated or modified.

Chemical analyses may have been performed for specific parameters during the course of this investigation, as summarized in the text and tables. It should be noted that additional chemical constituents, not searched for during this investigation, may be present at the Site. Due to the nature of the investigation and the limited data available, no warranty, expressed or implied, shall be construed with respect to undiscovered liabilities. The presence of biological hazards, radioactive materials, lead-based paint and asbestos-containing materials was not investigated, unless specified in the report.

Interpretations of the data, including comparison to regulatory standards, guidelines or background values, are not opinions that these comparisons are legally applicable. Furthermore, any conclusions or recommendations should not be construed as legal advice. For such advice, the client is recommended to seek appropriate legal counsel. Disturbance, handling, transportation, storage and disposal of known or

potentially contaminated materials is subject to all applicable laws, which may or may not be fully described as part of this report.

The analytical data, conclusions, and/or recommendations provided in this report should not be construed in any way as a classification of waste that may be generated during future disturbance of the project Site. Waste(s) generated at the Site including excess fill may be considered regulated solid waste and potentially hazardous waste. Requirements for intended disposal facilities should be determined beforehand as the data provided in this report may be insufficient and could vary following additional sampling.

This report may be based solely or partially on data collected, conducted, and provided by, AKRF and/or others. No warranty is expressed or implied by usage of such data. Such data may be included in other investigation reports or documentation. In addition, these reports may have been based upon available previous reports, historical records, and documentation from federal, state and local government agencies, personal interviews, and geological mapping. This report is subject, at a minimum, to the limitations of the previous reports, historical documents, availability and accuracy of collected documentation, and personal recollection of those persons interviewed. In certain instances, AKRF has been required to assume that the information provided is accurate with limited or no corroboratory evidence.

This report is intended for the use solely by the Borough of Naugatuck. Reliance by third parties on the information and opinions contained herein is strictly prohibited and requires the written consent of AKRF. AKRF accepts no responsibility for damages incurred by third parties for any decisions or actions taken based on this report. This report must be used, interpreted, and presented in its entirety.

15.0 REFERENCES

- 1. State of Connecticut Department of Environmental Protection, *Connecticut Geological and Natural History Survey, Bedrock Geological Map of Connecticut*, John Rodgers, 1985.
- 2. State of Connecticut Department of Environmental Protection, *Surficial Materials Map of Connecticut*, Janet Radway Stone, et al, 1992.
- 3. State of Connecticut Department of Environmental Protection; Environmental Geographical Information Center; Water Quality, Leachate Waste Water and Discharge Sources and Community Water System Supply Map, 2003.
- 4. FirstSearch Technology Corporation, Norwood, Massachusetts, *Environmental FirstSearch*[™] *Report*, June 11, 2012.



APPENDIX A

PHOTOGRAPHIC DOCUMENTATION

APPENDIX B

SANBORN FIRE INSURANCE MAPS

APPENDIX C

AERIAL PHOTOGRAPHS

APPENDIX D

ENVIRONMENTAL DATABASE

APPENDIX E

CTDEP FILE DOCUMENTATION

APPENDIX F

MUNICIPAL FILE DOCUMENTATION



Map Block Lot 1/1A-1W1-C

074-9520

Property Information

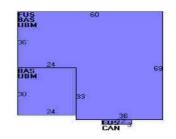
Property Location	58 MAPLE ST	Fire District	
Owner	BOROUGH OF NAUGATUCK	Census Tract	
Co-Owner		Neighborhood	В
Mailing Address	229 CHURCH ST	Zoning Code	RA1
	NAUGATUCK CT 06770	Acreage	2.56
Land Use	9030 MUNICIPAL	Utilities	
Land Class	E	Lot Setting/Desc	

Photo





074-9520 03/23/2012



Primary Construction Details

N	
Year Built	1900
Stories	2
Building Style	Office Bldg
Building Use	Comm/Ind
Building Condition	С
Floors	Vinyl
Total Rooms	

<u>,</u>	
Bedrooms	
Full Bathrooms	0
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	Flat
Roof Cover	T+G/Rubber

Exterior Walls	Brick
Interior Walls	Plaster
Heating Type	Forced Hot Air
Heating Fuel	Gas
АС Туре	None
Gross Bldg Area	11556
Total Living Area	7452



ltem	Appraised	Assessed
Buildings	85900	60130
Outbuildings	0	0
Improvements	85900	60130
Extras	0	0
Land	231400	161980
Total	317300	222110

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
First Floor	4068	4068
Canopy	36	0
Upper Story, Finished	3384	3384
Basement, Unfinished	4068	0
Total Area	•	

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
BOROUGH OF NAUGATUCK	622/ 667	8/14/2003	0
BOROUGH OF NAUGATUCK	476/ 175	11/24/1998	0

Outbuilding and Extra Items

Description

Account 074-9520



Hazardous Building Materials > Industrial Hygiene/IAQ > Environmental Assessments > Laboratory Services & Training

March 11, 2014

Mr. James R. Stewart PE & LS Director of Public Works 246 Rubber Avenue Naugatuck, Connecticut

RE: Pre-Demolition Hazardous Building Materials Inspection Report 58 Maple Street Naugatuck, Connecticut Eagle Project No. 14-029.13T1

Dear Mr. Stewart:

Attached is the report for the hazardous building materials inspection conducted at 58 Maple Street in Naugatuck, Connecticut. The scope of services included an asbestos-containing materials inspection, lead-based paint screen, lead waste characterization sampling and analysis and an inspection for universal waste materials.

The inspection was performed to support the demolition of the building.

Please do not hesitate to contact us if you have any questions regarding the contents of this report.

Sincerely, Eagle Environmental, Inc.

Report Prepared By: Chris Liberti Senior Project Manager

Changehowsky

Report Reviewed By: Ashis Roychowdhury Executive Vice President

\\Eaglesvr\public\2014 Files\2014 Reports\Naugatuck, Borough of\58 Maple Street\58 Maple St - Haz Rept.doc

8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786 PHONE (860) 589-8257 • FAX (860) 585-7034

TABLE OF CONTENTS

1.	INTR	ODUCTION 1	Ĺ
	1.1	BUILDING DESCRIPTION	_
2.	SCOI	PE OF INSPECTION 1	L
	2.1 2.2	ASBESTOS CONTAINING MATERIALS	l
3.	INSP	ECTION PROTOCOLS 2	
	3.1	ASBESTOS CONTAINING MATERIALS	2
	3.2	LEAD-BASED PAINT	1 1
	3.3	Universal Waste Materials and Other Environmental Concerns	
		3.3.1 PCB and Di-ethylhexlpthalate (DEHP) Containing Items	555
4.	INSP	ECTION RESULTS6	5
	4.1 4.2	ASBESTOS CONTAINING MATERIALS	7 7
	4.3 UNIVERSAL WASTE MATERIALS AND OTHER ENVIRONMENTAL		
		4.3.1PCB and Di-ethylhexlpthalate (DEHP) Containing Items	9999
5.	COS	r estimates)

LIST OF TABLES

Table I	Asbestos-Containing Materials Summary Table
Table II	Non Asbestos-Containing Materials Summary Table
Table III	Universal Waste Materials Summary Table

APPENDICES

Appendix 1	Floor Plans and Roof Plans
Appendix 2	Asbestos Bulk Sample Laboratory Reports
Appendix 3	XRF Lead-based Paint Inspection Reports
Appendix 4	Lead Waste Characterization Laboratory Reports and Computation
	Table
Appendix 5	PCB Bulk Sample Laboratory Reports
Appendix 6	Abatement and Consulting Cost Estimates
Appendix 7	Eagle Environmental Inc. Licenses and Laboratory Certificates

1. INTRODUCTION

On February 6 and 7, 2014, Eagle Environmental, Inc. conducted a hazardous building material inspection of the structure located at 58 Maple Street in Naugatuck, Connecticut. The scope of the hazardous building materials inspection included an asbestos-containing materials inspection, a lead-based paint screen, lead waste characterization sampling and analysis, and an inspection for universal waste materials. The inspection was performed to support the demolition of the building.

1.1 Building Description

The subject building located at 58 Maple Street Naugatuck, Connecticut is a two story structure of brick construction. The structure was built in 1900 and is constructed over a full basement. The mechanical equipment consists of a steam fired radiant heat system with cast iron radiators and an oil fired forced hot air system with metal duct work. The mechanical system distribution system is partially insulated. The basement piping is exposed and all risers are exposed on the floors above. The furnace is located in the basement of the structure. The interior walls and ceilings are a combination of sheetrock and joint compound construction and two coat plaster on lath construction. The window frames and sashes are of wood construction. The door frames are wood with wood doors. The floors are finished with various resilient flooring finishes. The exterior facades are clad with brick. The two (2) flat roofs associated with the building consist of built up roofing systems. A third pitched roof consists of asphalt shingles.

2. SCOPE OF INSPECTION

2.1 Asbestos Containing Materials

The asbestos inspection was conducted in order to satisfy the United States Environmental Protection Agency (USEPA) National Emission Standard for Hazardous Air Pollutants Act (NESHAP) as amended November 20, 1990. The USEPA NESHAP final rule requires the identification and removal of all regulated ACM in a building prior to demolition.

The asbestos inspection was performed by Eltwaun Lawrence; a State of Connecticut licensed Asbestos Inspector (license #000845).

2.2 Lead-based Paint

2.2.1 X-Ray Fluorescence Screen

The lead-based paint (LBP) screen was performed in accordance with the requirements of the State of Connecticut, Department of Energy and Environmental Protection (DEEP), <u>Guidance for the Management and Disposal of Lead Contaminated Materials Generated in the Lead Abatement, Renovation and Demolition Industries.</u> The DEEP regulates the disposal of hazardous lead waste in the State of Connecticut. Lead-contaminated debris, not contaminated with other hazardous materials, is classified either as hazardous lead waste or as non-hazardous solid waste.

Additionally the U.S. Department of Labor Occupational Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CFR 1926.62 Lead in Construction.

The lead-based paint screen was performed by Eltwaun Lawrence; a State of Connecticut licensed Lead Inspector/Risk Assessor (license # 002250).

2.2.2 Lead Waste Characterization

The State of Connecticut Department of Energy and Environmental Protection (DEEP) regulates the disposal of hazardous waste. The required analytical test to determine a materials waste classification is the Toxicity Characteristic Leachate Procedure, or TCLP (Regulation of State DEP 22a-449© - 101 (a) (1), incorporating 40 CFR 262.24). Eagle Environmental, Inc. collected samples of building materials for lead waste characterization.

3. INSPECTION PROTOCOLS

3.1 Asbestos Containing Materials

3.1.1 Inspection

The asbestos-containing materials (ACM) inspection included the accessible interior and exterior portions of the building including the roofing systems. Semidestructive testing techniques were utilized during the inspection process. This included cutting through various layers of flooring and roofing materials to verify and sample individual layers of suspect ACM. Suspect building materials that are inaccessible for inspection and sampling are assumed to be ACM for the purpose of this report. These suspect materials are generally located in operational equipment, behind rigid walls and ceilings, below rubber roof membranes or otherwise concealed areas of the building, including below grade materials.

During the inspection, suspect materials are located, sampled, quantified and the friability of the material is determined. Friable materials are those materials that hand pressure can crumble, pulverize or reduce to powder when dry. An estimated quantity of identified ACM is provided for positive materials only. The materials are quantified in linear or square feet, depending on the nature of the material.

3.1.2 Bulk Sampling

During the sampling process, suspect ACM is separated into three (3) USEPA categories. These categories are: Thermal System Insulation (TSI), Surfacing Materials (SURF), and Miscellaneous materials (MISC). TSI includes all materials used to prevent heat loss or gain or water condensation on mechanical systems. Examples of TSI are pipe covering, boiler insulation, duct wrap, and mudpack fitting cement. Surfacing ACM includes all ACM that is sprayed, toweled or otherwise applied to an existing surface. These applications are most commonly used in fireproofing, decorative, and acoustical applications. Miscellaneous materials include all ACM not listed in thermal or surfacing, such as linoleum, vinyl asbestos flooring, and ceiling tile.

Bulk sampling was performed in a random method. Bulk sampling methods and number of samples collected meets or exceeds the USEPA requirements.

3.1.3 Bulk Sample Analysis

The samples of the suspect asbestos containing materials were sent to a State of Connecticut Department of Public Health (DPH) approved laboratory for analysis by Polarized Light Microscopy (PLM). PLM is the USEPA accepted method of analysis for identification of asbestos in bulk matrixes. Samples are collected individually or in sets. When sets of samples are collected, each set is systematically analyzed until one sample is determined to contain asbestos. Upon the determination of the presence of asbestos in one sample in the set, analysis of the remaining samples in the set is discontinued. If no asbestos is observed during analysis of the set of samples, the suspect material is determined to be negative for asbestos content.

Sample analysis results are reported in percentage of asbestos and non-asbestos components. The USEPA defines any material that contains greater than one percent asbestos, utilizing PLM, as being an asbestos-containing material (ACM). Suspect materials containing greater than one percent (1%) asbestos utilizing the PLM Point Count Method and the NOB TEM method are also considered to be asbestos-containing. Materials determined to contain greater than one percent (1%) asbestos is regulated by the USEPA, the State of Connecticut Department of Public Health and Department of Energy and Environmental Protection and the United States Department of Labor. Sample results indicating "no asbestos detected" (NAD) are specified as non-asbestos containing materials. Samples results indicating "Did Not Analyze" (DNA) are not analyzed due to the stop on first positive request to the laboratory.

3.1.3.1 Friable ACM Analysis

Certain samples of friable materials shown to contain less than 10% asbestos are analyzed further by the "Point Count Method". This procedure is recommended by the United States Environmental Protection Agency to confirm friable bulk samples shown to have less than 10% asbestos by PLM to be definitively negative or positive for asbestos. This method is accepted as providing statistically reliable results when analyzing bulk samples with very low asbestos concentrations. Friable materials containing "Trace" or "less than one percent (1%)" asbestos must be analyzed by the PLM Point Count Method. None of the samples were further analyzed by the PLM Point Count Method for the 58 Maple Street structure.

3.1.3.2 Non Friable ACM Analysis

Certain samples of organically bound non-friable materials shown to contain "less than 1% asbestos", "TRACE" or "NAD" are recommended for analyses by the "NOB TEM ELAP 198.4 Method". This procedure is recommended by the United States Environmental Protection Agency to further evaluate non-friable organically bound materials for asbestos. Suspect materials confirmed by NOB TEM to be "less than 1% asbestos", "TRACE" or "NAD" are considered non-asbestos containing. A total of two (2) samples were further analyzed by the NOB TEM Method for the 58 Maple Street structure.

3.2 Lead-based Paint

3.2.1 X-Ray Fluorescence Screen

The lead-based paint screen was performed utilizing an X-Ray Fluorescence (XRF) Radiation Monitoring Device (RMD) Lead Paint Analyzer (LPA 1), serial number 2753 within the limits of the inspection area(s). The screen includes only accessible areas within the inspection area(s) and accessible building materials.

The lead-based paint screen includes testing limited components and or surfaces throughout the structure. It is not the intent to test all painted components, but to identify on a broad scale the impact of lead paint as it relates to the disposal of lead paint contaminated debris and potential worker exposure issues. Generally, wall and ceiling surfaces, painted floors, window and door systems are tested. Other components such as baseboards, cabinets, columns, trim, etc. are tested on a limited basis. Component and surface locations are identified by side designations represented by the letters "A", "B", "C", and "D". The "A" side is considered the front of the building with the "B", "C", and "D" sides following in a clockwise order.

The data is presented on computer generated Lead Inspection Reports contained in Appendix 3. The Summary Report provides an inventory of each surface coating that contains lead at or above 1.0 mg/cm². The Detailed Report is an inventory of each tested surface on a room-by-room basis.

For the purpose of this report, the XRF results are separated into two (2) categories; high levels of lead ($\geq 1.0 \text{ mg/cm}^2$) and low levels of lead ($< 1.0 \text{ mg/cm}^2$). Building materials containing high levels of lead have a greater probability of creating worker exposures during construction than do building materials with low levels of lead. Additionally, lead waste characterization sampling is required for building materials containing high levels of lead ($\geq 1.0 \text{ mg/cm}^2$) and will become a waste product as a result of demolition or renovation activities.

The U.S. Department of Labor Occupation Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CRF 1926.62 Lead Exposure in Construction; Interim Final Rule. Currently, OSHA does not define a threshold level of lead in paint that may cause worker exposure. Any detectable level of lead in paint (>0.0 mg/cm² +/- 0.3 mg/cm² by XRF or ≥0.01 % by AAS) requires task specific exposure monitoring.

3.2.2 Lead Waste Characterization

DEEP regulates the disposal of hazardous waste. The required analytical test to determine a materials waste classification is the Toxicity Characteristic Leachate Procedure, or TCLP (Regulation of State DEEP 22a-449© - 101 (a) (1), incorporating 40 CFR 262.24).

The TCLP test subjects a 100-gram sample of waste material to a simulated landfill leaching condition, and assesses the ability of the sample to leach out lead into the environment. The waste is classified as hazardous lead waste if the TCLP sample result is greater than 5.0 mg/l of lead. The waste is classified as non-hazardous solid waste if the TCLP sample result is less than 5.0 mg/l of lead.

Building debris containing equal to or greater than 1.0 mg/cm² of lead by XRF requires waste classification analysis.

There are two (2) primary approaches for TCLP sampling. Both methods utilize the data generated during the lead screen to determine which building materials contain lead in paint coatings and what percentage of the waste stream will consist of the leaded materials. The two (2) basic approaches are described below.

Screen, Sample, and Segregate Method

The Screen, Sample, and Segregate method of TCLP sampling is conducted in accordance with the State of Connecticut Department of Energy and Environmental Protection <u>Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation, and Demolition Industries</u>. This method entails screening the building components scheduled to be removed with an XRF lead paint analyzer. Components that are determined to be lead containing are sampled and analyzed by TCLP based on their contribution into the waste stream. The waste stream is made up of those building components that will be removed from the structure as part of the renovation or demolition process and will become a waste product.

Sample and Demolish Method

The Composite Sample and Demolish Method of TCLP sampling is conducted in accordance with the State of Connecticut Department of Energy and Environmental Protection Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation, and Demolition Industries. This method utilizes composite samples to assess the total amount of leachable lead of the entire quantity of debris to be removed. This sampling method is best utilized for whole building demolitions where the quantity of non-lead debris is expected to be much greater than that of the leaded debris. The first step in the sampling process requires the inspector to identify the potential waste stream of the structure to be demolished. The waste stream is made up of those building components that will be disposed of once the structure is demolished. The inspector calculates the mass by weight of each group of building components within the building (i.e. studs, framing, sheathing, siding, doors, windows, etc.). The lead testing results enables the inspector to determine the percentages of components, within each group, that contain lead. With this information, the inspector can than calculate the percent by weight contribution of each components contribution into the waste stream. This takes into account the ratio of leaded components verse non-leaded components within each group.

3.3 Universal Waste Materials and Other Environmental Concerns

3.3.1 PCB and Di-ethylhexlpthalate (DEHP) Containing Items

A visual inspection for the presence of lighting ballasts and electrical equipment potentially containing PCB's or DEHP was performed within the inspection areas. Lighting ballasts and oil-filled capacitor manufactured after 1979 may have "NO PCB's" stamped on its casing. These are filled with oil which does not contain PCB's but may contain DEHP. Lighting ballasts and Capacitors with date stamps prior to 1979 or no date stamps are assumed to contain PCB's. Lighting ballasts and capacitors labeled as "No PCB's" are assumed to contain DEHP if the date

EAGLE ENVIRONMENTAL, INC. 8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786 PHONE (860) 589-8257 • FAX (860) 585-7034 stamp is illegible or non-existent. Electronic ballasts are not assumed to contain PCB's or DEHP.

3.3.2 Mercury Containing Items

During the visual inspection process, fluorescent, metal halide and sodium lamps are assumed to contain mercury vapors unless the end caps of the tubes are green indicating they are mercury free. Thermostatic controls, switches, manometers, capacitors and other used electronic components are inventoried during the inspection process.

3.3.3 Used Electronics and Batteries

An inventory of used electronics that may fall under the Universal Waste regulations was developed during the inspection. These materials include but are not limited to lead acid batteries in emergency lighting and exit signs and stored electronic equipment that may contain hazardous or regulated substances. Electronic components such as computers, copy machines, etc that are in use at the time of the inspection are generally not included in the inventory.

3.3.4 Chlorofluorocarbons

Eagle Environmental inspected the building for compressor tanks associated with water fountains, portable air conditioning units, the indoor environmental cooling system and walk-in coolers or freezers where applicable. The inspectors also inspected rooftop HVAC units where present. These tanks are all assumed to contain Freon. The size and quantity of tanks are estimated and recorded.

4. INSPECTION RESULTS

4.1 Asbestos Containing Materials

During the course of the building inspection one-hundred twelve (112) bulk samples of suspect ACM were collected and ninety-four (94) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory.

From the ninety-four (94) samples analyzed, fifteen (15) types of suspect materials were determined to be asbestos containing. The remaining suspect materials were confirmed to be non-ACM.

The white magnesium pipe insulation and the grey mud pack fitting cement were found to be ACM. Intact insulation and fittings were identified in rooms 002, 011 and 019. Within rooms 001, 002, 003, 004, 005 and 005A, residual insulation and fitting cement were identified on the heating pipe lengths, fittings and at hangers requiring all of the pipes within these rooms to be abated for asbestos.

Seven (7) types of 9" x 9" floor tiles were found to be ACM. The floor tiles are located in various rooms throughout the building. The TEM NOB analyses confirmed the black mastic associated with 9" x 9" floor tile to be non-ACM

Brown adhesive associated with wood panels, exterior window caulk, exterior door caulk, two (2) types of flashing cement, built up layered roofing and black tar on wood roof deck were also found to be ACM.

The summaries of asbestos and non-asbestos materials are presented in Tables I and II respectively. The asbestos analysis laboratory reports are provided in Appendix 2.

The TEM NOB analyses confirmed the brown glue daubs associated with black rectangle wall tiles to be non-asbestos. The PLM analysis of this material identified less than 1 % asbestos in each of the two (2) samples submitted.

Any suspect material not specifically identified in this report as non-ACM should be assumed to contain asbestos unless sample results prove otherwise.

All regulated friable and regulated non-friable ACM must be removed prior to demolition activities. A State of Connecticut Licensed Asbestos Abatement Contractor must be retained to perform the removal work. Visual inspections and air clearances must be performed within each abatement area at the completion of the abatement work. The visual inspections must be performed by a State of Connecticut licensed Asbestos Project Monitor. The abatement areas must meet final visual inspection criteria prior to building demolition. Re-occupancy air monitoring is also required if the building will be reentered by any person following abatement and prior to demolition. This includes but is not limited to entry for utility disconnects, salvage, equipment removal, etc. Reoccupancy air clearances must be performed by a State of Connecticut licensed Asbestos Project Monitor.

The Asbestos Abatement Contractor must submit a notice of asbestos abatement to the State of Connecticut Department of Public Health post marked or hand delivered ten (10) days prior to the commencement of any asbestos abatement activities involving the abatement of greater than ten (10) linear feet or twenty-five (25) square feet of asbestos-containing materials. The asbestos abatement notification satisfies the DPH regulatory requirements for demolition notification. For asbestos abatement projects involving less than ten (10) linear feet or twenty-five (25) square feet of asbestos-containing materials or projects where no regulated asbestos-containing materials are identified, the facility owner or any person who will be conducting demolition must submit a demolition notification to the State of Connecticut Department of Public Health post marked or hand delivered ten (10) days prior to the commencement of demolition activities.

4.2 Lead-based Paint

4.2.1 X-Ray Fluorescence Screen

A total of one hundred fifteen (115) XRF readings were collected during the leadbased paints screen of the building. From the one hundred and fifteen (115) readings, eighteen (18) were found to contain high levels of lead.

The general inventory of surfaces containing high levels of lead include the following: exterior wood window and metal stairs, interior wood doors, limited plaster walls and limited brick walls.

Additionally, several building materials were determined to contain low levels of lead in paint including plaster walls, wood chair rail, wood wainscoting and wood window components. Although these levels of lead in paint were less than 1.0 mg/cm², the contractor must perform an exposure assessment on employees during tasks that disturb the painted materials.

The remaining components and surfaces that were tested contain no lead in their respective paint coatings.

The U.S. Department of Labor Occupation Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CFR 1926.62 Lead Exposure in Construction; Interim Final Rule. Currently, OSHA does not define a threshold level of lead in paint that may cause worker exposure. Any detectable level of lead in paint (>0.0 mg/cm² +/- 0.3 mg/cm² by XRF or >0.01 % by AAS) requires task specific exposure monitoring. This "initial exposure assessment" must be conducted by trained workers utilizing appropriate personal protective equipment. Exposure assessments must be conducted for each task where painted surfaces or components are disturbed.

Examples of task subject to initial monitoring when detectable levels of lead are identified include but are not limited to surface preparation for repainting, manual demolition of components with detectable levels of lead paint and the welding, cutting or grinding of steel with detectable levels of lead in paint.

A complete inventory of tested building materials is presented in Detailed Reports contained Appendix 3.

4.2.2 Lead Waste Characterization Results

One (1) TCLP composite sample was collected for waste characterization purposes. The whole building waste stream that will be land filled as a result of demolition activities includes the following: negative wood (78%), negative plaster (13%), positive plaster (3%) negative sheetrock (4%) and negative roofing materials (2%).

Approximately one hundred sixty (160) square feet of lead-based paint was identified on brick walls within room 004. Masonry products are generally segregated as a salvage material and are not generally landfilled. Since only a small area of painted wall was identified, it is recommended that the paint be removed from the brick or the entire brick be removed and disposed of as hazardous lead waste. The painted brick was not included with the composite TCLP sample.

The result of the whole building TCLP composite sample was <0.10 mg/L characterizing the demolition debris as non-hazardous waste.

The TCLP laboratory reports and computation tables are provided in Appendix 4.

The waste characterization sampling and analysis confirmed that no hazardous lead waste will be generated as a result of demolition activities. Once the painted brick within room 004 is removed from the building, the remaining waste generated during demolition of the building may be disposed of as non-hazardous solid waste. Metal components may be recycled at an approved recycling facility.

4.3 Universal Waste Materials and Other Environmental Concerns

4.3.1 PCB and Di-ethylhexlpthalate (DEHP) Containing Items

There were no DEHP containing lighting ballasts present within the inspection site.

A total of thirty-three (33) PCB containing lighting ballasts and one hundred ninety-two (192) DEHP ballasts were present within the inspection site. The ballasts must be removed for proper recycling/incineration prior to demolition of the building. Light ballasts that have leaked must be segregated from the non-leaking ballasts. Lighting covers or fixtures stained with dielectric fluid must also be removed for proper disposal.

There were no capacitors potentially containing dielectric fluid identified within the inspection site.

The associated inspection data is provided in Table III.

4.3.2 Mercury Containing Items

A total of approximately two thousand twenty-three (2,023) linear feet of fluorescent light tubes are present within the inspection site. The fluorescent light tubes and thermostat must be removed from the building for proper recycling prior to building demolition.

The associated inspection data is provided in Table III.

4.3.3 Used Electronics and Batteries

There were no emergency lights containing lead-acid batteries present within the inspection site.

The associated inspection data is provided in Table III.

4.3.4 Chlorofluorocarbons

There were no Freon tanks present within the inspection site.

The associated inspection data is provided in Table III.

5.0 Cost Estimates

This is a budgetary opinion of cost that is expected to be within -15 to + 30 percent of the actual cost. Eagle Environmental, Inc. has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor or Contractors' methods of determining prices, or over competitive bidding or market conditions. Eagle Environmental, Inc.'s opinion of probable cost of abatement are made on the basis of Eagle Environmental, Inc.'s experience and qualifications and represent Eagle Environmental, Inc.'s judgment as an experienced and qualified consultant familiar with the abatement industry; but Eagle Environmental, Inc. cannot and does not guarantee that proposals, bids or actual Total Project or Abatement Cost will not vary from opinions of probable cost prepared by Eagle Environmental, Inc. If, prior to the bidding or

negotiating phase, the Owner wishes greater assurance as to Total Project or Abatement Cost, the Owner shall employ an independent cost estimator.

The cost estimates are provided in Appendix 5.

TABLE I

ASBESTOS CONTAINING MATERIALS SUMMARY TABLE

TABLE I ASBESTOS CONTAINING MATERIALS SUMMARY TABLE BOROUGH OF NAUGATUCK 58 MAPLE STREET NAUGATUCK, CONNECTICUT

FAIF Ł Ł Щ <u>ل</u>تر ۶ SAMPLE NUMBER CATEGORY BULK SAMPLE ANALYSIS RESULTS | ESHWATED OUANTITY PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT 1575 SF 115 SF 280 LF 2020 SF 25 LF 10 LF ANALYTICAL METHODS PLM PC TEM NOB ACM TEM NOB = NEW YORK ELAP 198.4 METHOD YES YES YES YES YES YES PLM = EPA 600/R-93/116PS = Previously Sampled BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION 55% Chrys 15 % Chrys 15 % Chrys 15 % Chrys 20% Amos 20% Amos 2% Chrys 20% Amos 4% Chrys PLM $\mathbf{EA} = \mathbf{Each}$ DNA MISC MISC MISC ISI TSI ISI SF = SQUARE FEET LF = LINEAR FEET Anth = Authophylite Chrys = Chrysotile 2-6-EL-03 2-6-EL-03 2-6-EL-33 2-6-EL-34 2-6-EL-35 2-6-EL-36 2-6-EL-45 2-6-EL-46 2-6-EL-49 2-6-EL-50 Croc = Crocidolite 2-6-EL-02 2-6-EL-03 2-6-EL-02 2-6-EL-02 $\mathbf{Trem} = \mathbf{Tremolite}$ 2-6-EL-01 2-6-EL-01 2-6-EL-01 Amos = Amosite White magnesium pipe insulation Residual white magnesium pipe 9" x 9" Dark brown floor tile Brown adhesive associated insulation on pipe lengths insulation at top of wall White magnesium pipe 9" x 9" Green floor tile MATERIAL TYPE 9" x 9" Tan floor tile KEY with wood panel (in pattern) (in pattern) **ISI = THERMAL SYSTEMS INSULATION** MISC = MISCELLANEOUS MATERIAL NAD = NO ASBESTOS DETECTED SURF = SURFACING MATERIAL **DNA = DID NOT ANALYZE** 009, 010, 011, 012, 014, 010, 013, 015, 017 NF = NON-FRIABLE LOCATION(S) 004, 005, 005A 001, 002, 003, 002, 011, 019 015,016 010,015 005 $\mathbf{F} = \mathbf{F} \mathbf{R} \mathbf{I} \mathbf{A} \mathbf{B} \mathbf{L} \mathbf{E}$

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ACM Summary Table.xls

TABLE I ASBESTOS CONTAINING MATERIALS SUMMARY TABLE BOROUGH OF NAUGATUCK 58 MAPLE STREET NAUGATUCK, CONNECTICUT

ENE Ē Ë ŧ Ł ŧ Ł Ł ۶ ۲Ţ ESTIMATED QUANTITY PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT 600 LF 110 EA 580 SF 210 SF 45 LF 75 SF 75 SF 3 EA $7 \, \mathrm{LF}$ ANALYTICAU METHODS BUEK SAVIPLE ANALYSISIRESULTS PLM PC TEM NOB ACM TEM NOB = NEW YORK ELAP 198.4 METHOD YES YES YES YES YES YES YES YES YES PLM = EPA 600/R-93/116PS = Previously Sampled BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION 45% Chrys 13% Chrys 14% Chrys 14% Chrys 45% Chrys 14% Chrys 4% Chrys 2% Anth 2% Anth $\mathbf{EA} = \mathbf{Each}$ PLM NAD DNA DNA DNA NAD DNA DNA DNA DNA DNA NAD SAMPLE NUMBER CATEGORY MISC MISC MISC MISC MISC MISC MISC ISI ISI SF = SQUARE FEET LF = LINEAR FEET Anth = Anthophylite 2-7-EL-109 2-7-EL-115 2-7-EL-116 2-7-EL-116 Chrys = Chrysotile 2-7-EL-105 2-7-EL-108 2-7-EL-114 2-7-EL-117 2-7-EL-117 2-7-EL-104 Croc = Crocidolite 2-6-EL-58 2-6-EL-59 2-6-EL-57 2-6-EL-58 2-6-EL-59 2-6-EL-70 2-6-EL-74 2-6-EL-75 2-6-EL-57 2-6-EL-71 Trem = TremoliteAmos = Amosite Grey mud pack fitting cement Exterior white window caulk 9" x 9" Dark green floor tile White caulk at vent in brick Exterior white door caulk 9" x 9" Black and green 9" x 9" Black floor tile MATERIAL TYPE camouflage floor tile KEY pack fitting cement 9" x 9" Green line pattern floor tile Residual mud **FILE THERMAL SYSTEMS INSULATION** MISC = MISCELLANEOUS MATERIAL NAD = NO ASBESTOS DETECTED SURF = SURFACING MATERIAL DNA = DID NOT ANALYZE Façade A, Façade B, Façade C, Façade D Façade A, Façade D 019, 021, 025, 026 **LOCATION(S)** 019, 021, 025, 026 NF = NON-FRIABLE Façade A 011,002 026 002 027 F = FRIABLE

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TABLE I ASBESTOS CONTAINING MATERIALS SUMMARY TABLE BOROUGH OF NAUGATUCK 58 MAPLE STREET NAUGATUCK, CONNECTICUT

		Kanina kumuku kumuku	CATE/ODV	BULK SAM	BULK SAMPLE ANALYSIS RESULTS		ESTIMATED	983
		DAMELE NUMBER	CALEGUNI	PLM	PLM RC TEM NOB NGM	DB ACM	QUANTITY	
Danf Danf	Gray flashing cement at	2-7-EL-128		25% Chrys		VES	75 CF	AIF.
K001 2, K001 4	roof/wall junction	2-7-EL-129	OCITA	45% Chrys		TTO		TNT
CJ~~C	Gray flashing cement	2-7-EL-128	VILCU	25% Chrys		AEC	84 I F	NE
C 100X	at parapet wall cap seam	2-7-EL-129	OCTIVI	45% Chrys		IEO	JTT CO	TAT
63 U	Black flashing at parapet	2-7-EL-130	COLV	4% Chrys		VEC	QETE	ATE -
C 100X	wall cap seams	2-7-EL-131	OCITA	DNA		TEO I	J. L. C. O	INT
1 9 M		2-7-EL-132	UTRO	2% Chrys		VEC	UJE GE	NE
K001 3, K001 4	Black built up layered roomig	2-7-EL-133	NUD	DNA		ILO	74.7 OF	INF
1 J . U CJ . U		2-7-EL-134	USIN	2% Chrys		VEC	075 CE	μĽ
K001 3, K001 4	DIACK LAT OIL WOOL FOOL LOCK	2-7-EL-135	NUDC	DNA		100	JC (776	TNT
014	Aircell pipe insulation on heating pipes in soffit	Assumed	ISI	Assumed		Assumed	4 LF	F
	KEY				ANALYTICAL METHODS	MUMETHODS		
DNA = DID NOT ANALYZE	ZE	SF = SQUARE FEET		PLM PC = EPA (PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT	ITATION 400	POINT COUNT	
NAD = NO ASBESTOS DETECTED	ETECTED	LF = LINEAR FEET		TEM NOB = NE	TEM NOB = NEW YORK ELAP 198.4 METHOD	4 METHOD		
$\mathbf{F} = \mathbf{F} \mathbf{R} \mathbf{L} \mathbf{A} \mathbf{B} \mathbf{L} \mathbf{E}$		Chrys = Chrysotile		PLM = EPA 600/R-93/116	R-93/116			
NF = NON-FRIABLE		Amos = Amosite		PS = Previously Sampled	ampled			
TSI = THERMAL SYSTEMS INSULATION	MS INSULATION	Anth = Anthophylite		EA = Each				
SURF = SURFACING MATERIAL	NTERIAL	Trem = Tremolite						
MISC = MISCELLANEOUS MATERIAL	US MATERIAL	Croc = Crocidolite						:
	BOLD	BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION	LUMIN INDICAT	ES SAMPLE LOC	ATION			

TABLE II

NON-ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

TABLE II NON - ASBESTOS CONTALNING MATERIALS SUMMARY TABLE BOROUGH OF NAUGATUCK 58 MAPLE STREET NAUGATUCK, CONNECTICUT

SAMPLE		SAMPLE		DI STATUS	IK SAMPLE AN	BULK SAMPLE ANALYSIS RESULTS	LS
LOCATION(S)		NUMBER	CALEGONI	PLM	PLMPC	TEM NOB	ACM
		2-6-EL-05		NAD			
110 000 200		2-6-EL-06		NAD			
007, 009, ULL,	Skim coat plaster	2-6-EL-07	SURF	UAD			NO
014, 010		2-6-EL-08		NAD			
		2-6-EL-09		NAD			
		2-6-EL-10		NAD			
077 000 011		2-6-EL-11		NAD			
0//, 009, ULL,	Rough coat plaster	2-6-EL-12	SURF	NAD			NO
014, 010		2-6-EL-13		NAD			
		2-6-EL-14		NAD			
000	Grout associated with tan square	2-6-EL-17	USLIV [®]	NAD			QN
000	ceramic wall tile	2-6-EL-18	CULIA	NAD			D KI
000	Brown adhesive associated with	2-6-EL-19	USIN (NAD			QN
000	tan square ceram wall tile	2-6-EL-20	Central	NAD			
000	Grout associated with small	2-6-EL-23		NAD			ON
000	brown-tan ceram floor tile	2-6-EL-24	CELLAL	NAD			OV.
000	Grey adhesive associated with	2-6-EL-25		NAD			QN
000	small brown-tan ceram floor tile	2-6-EL-26	CLUV	NAD			
200	Derven atois tead avera haca	2-6-EL-27	MISC	NAD			ÛN
100	DIOWIL SIGIL LEGIC COVE DASC	2-6-EL-28	COTTAT	NAD			P.
200	Brown adhesive associated with	2-6-EL-29	USIV	NAD			UN
100	brown stair tread cove base	2-6-EL-30	CITAI	NAD			
					ANALVIICAL METHODS	L METHODS	
DNA = DID NOT ANALYZE NAP-NO ASBESTOS DETECTED	ZE TTECTED	SF = SQUARE FEET TF = TINE AP FFET		PLM PC = EPA 60 TFM NOR = NEW	PLM PC = EPA 600/R-93/116 QUANTITATION 4 TEM NOB = NEW VORK FLAP 198 4 METHOD	PLM PC = EPA 600/K-93/116 QUANTITATION 400 PUINT CUUNT fem nor = new vork et ap 108.4 method	
F = FRIABLE		Chrvs = Chrvsotile		PLM = EPA 600/R-93/116	-93/116		
NF = NON-FRIABLE		Amos = Amosite		PS = Previously Sampled	mpled		
TSI = THERMAL SYSTEMS INSULATION	EMS INSULATION	Anth = Anthophylite		EA = Each			
SURF = SURFACING MATERIAL MISC = MISCELLANEOUS MATERIAL	ATERUAL MIS MATERIAL	Trem = Tremolite Croc = Crocidolite	·				
		BOLD TEXT IN "LOCATION" COLJIMN INDICATES SAMPLE LOCATION	WN INDICATES SA	MPLE LOCATION			
		TOWNER TOWN					

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TABLE II NON - ASBESTOS CONTAJNING MATERIALS SUMMARY TABLE BOROUGH OF NAUGATUCK 58 MAPLE STREET NAUGATUCK, CONNECTICUT

SAMPLE		SAMPUE		BUKS	BUDK SAWPLE ANALYSIS RESULTS	VSISIRESULU	S
LOCATION(S)	MALERALIYE	NUMBER	CALEGURY	PUN	PLMPC	TEM NOB	AGM
200	Brown adhesive associated with	2-6-EL-29	USTM.	NAD			ON
00 /	brown stair tread cove base	2-6-EL-30		NAD			
000	Yellow adhesive associated	2-6-EL-31	U D LIVI	NAD			ON
600	with brown carpet	2-6-EL-32	CTIM	NAD			ONT
	Dials marin accordand	2-6-EL-37		NAD		NAD	
009, 011, 023	Dlack maste associated	2-6-EL-38	MISC	NAD			NO
		2-7-EL-96		NAD			
012 014	Chanterals	2-6-EL-40	USIF	NAD			ON
V12, U14	WHO TRACT	2-6-EL-41	OCITAL	NAD			
010 010	Totate common data	2-6-EL-43	USIM	NAD			ON
012, U14	John componing	2-6-EL-44		NAD			
600	Sheetrock/joint compound composite	2-6-EL-44A	MISC	NAD			NO
010	W.T. the forest of the second se	2-6-EL-51	JULION	NAD			QN
ATA		2-6-EL-52	OCHA	NAD			
010	Darrow access haves	2-6-EL-53	MIC	NAD			ÛN
ATA	BIOWII COVE DASE	2-6-EL-54		NAD			
10	Brown adhesive associated	2-6-EL-55	ULSUV	NAD			UN
IU	with brown cove base	2-6-EL-56	ACTIAL	NAD			
017 013	White adhesive associated	2-6-EL-60	VILO	NAD			ON
CTN '7TN	with brown orange carpet	2-6-EL-61	COTTAT	NAD			
012	White consists calling tile	2-6-EL-62	MISC	NAD			ÛN
CTA		2-6-EL-63	COTTAT	NAD			
					SOOHUHINNANSOUMANNAN	AETHODS	
DNA = DID NOT ANALYZE	ZE	SF = SQUARE FEET	L	PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT	93/116 QUANTIT	TATION 400 POI	NT COUNT
NAU=NU ASBESTUS DETECTED E - ERIARIT	IECIED	LF = LUNEAK FEEI	-	LEM NUB = NEW TUKK ELAF 1904 METHUU DI M EDA KAAM 027416	KN ELAF 190.41 116	MEIDUD	
F - FNIABLE NF = NONJERTARLE		Amos = Amosite		PS = Previously Sampled	ad Ad		
TSI = THERMAL SYSTEMS INSULATION	MS INSULATION	Anth = Anthophylite		EA = Each			
SURF = SURFACING MATERIAL	ATERIAL	Trem = Tremolite					
MISC = MISCELLANEOUS MATERIAL		Uroc = Urocidolite	DAN DUDICATES S	MBLE LOCATION			
	BULLD I EXT IN	N "LUCATION" CULUMN INDICATES SAMPLE LUCATION	UMIN TINDICATED ON	MITE LUCATION			

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TABLE II NON - ASBESTOS CONTAINING MATERIALS SUMMARY TABLE BOROUGH OF NAUGATUCK 58 MAPLE STREET NAUGATUCK, CONNECTICUT

SAMPLE		SAMPLE		BU	BULK SAMPLE ANALYSIS RESULTS	MEYSIS RESUL	
LOCATION(S)		NUMBER	CALECON	PUM	PLMPG	TEM NOB	ACM
015	Black flex connector	2-6-EL-64		NAD			ÛN
CIU	at HVAC system	2-6-EL-65		NAD			ONT.
010	Yellow adhesive associated with	2-6-EL-68		NAD			QN
etn	red spotted orange carpet	2-6-EL-69		NAD			OK.
101	Diools lonnianta ficcarian	2-6-EL-76		NAD			ÛN
170	DIACK JAHIIITAIC ILOOI IIIG	2-6-EL-77	CONTAC	NAD			OVT I
Ę	Black mastic associated with	2-6-EL-78	USTM MTCC	NAD			ON ON
17	black laminate flooring	2-6-EL-79		NAD			OV.
CCO	Black mastic associated with	2-7-EL-82	UDLIN A	UAD			ON
770	black rectangle wall tile	2-7-EL-83	COTTAT	NAD			04
60	Brown glue daub associated	2-7-EL-84	USUM	<1% Anth		NAD	VEC
770	with black rectangle wall tile	2-7-EL-85	COLLAR	<1% Anth			CTT T
640	White caulk on top of black	2-7-EL-86	USLIVI	NAD			CN
770	rectangle wall tile	2-7-EL-87) CTTM	NAD			Ом ^т
EC0 (60	Dials and an advantage of the second	2-7-EL-98		UAD			QN
170,020	Black paper underneau wood hood	2-7-EL-99	OCTIVI	NAD			24
075	Corr dais wood corranic according tild	2-7-EL-100	JAIM	NAD			QŽ
C70	Oray start treat certainte covering the	2-7-EL-101	COTTAT	NAD			
U C C	Brown adhesive associated with	2-7-EL-102		NAD			QN
C70	gray stair tread ceram tile	2-7-EL-103	OCTIVI	QAN			ONT.
740	Grey paper underneath	2-7-EL-106		NAD			VFS
070	wood flooring	2-7-EL-107	COTIN	NAD			07T T
					ANALINATION MENTIONS	METHODS	
DNA = DID NOT ANALYZE MAR-NO ASPESTOS RETECTER	ZE TTEATED	SF = SQUARE FEET	– -	PLM PC = EPA 60 $TEM NOB - NEW$	PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT tem nor – new vody et ap 108 a method	TATION 400 PO	DINT COUNT
F = FRIABLE		Chrvs = Chrvsotile		PLM = EPA 600/R-93/116	-93/116		
NF = NON-FRIABLE		Amos = Amosite		PS = Previously Sampled	mpled		
TSI = THERMAL SYSTEMS INSULATION	EMS INSULATION	Anth = Anthophylite		$\mathbf{EA} = \mathbf{Each}$			
SURF = SURFACING MATERIAL MISC = MISCELL ANEADIS MATERIAL	ATERIAL Higher at the practice of a the practice of a the practice of a the practice of a the practice of the	Trem = Tremolite					
MIDO - MIDOELEANEO		CLOC - CLOCINGILE CLOCINGIL	MN INDICATES SA	MPLE LOCATION			
		V LUCALIUN VULU	WIN TRADEVALES OF	UNITED DOCUTION			

\/Eaglesvr\public\2014 Files\2014 Reports\Naugatuck, Borough of\58 Maple Street\58 Maple street-Table II.xis TII-3

TABLE II NON - ASBESTOS CONTAINING MATERIALS SUMMARY TABLE BOROUGH OF NAUGATUCK 58 MAPLE STREET NAUGATUCK, CONNECTICUT

,

SAVIPLE		SAMPLE		BULKSA	BULK SAMPLE ANALYSIS RESULTS	
LOCATION(S)	MATERIAL TYPE	NUMBER	CALEGORY	PLM PL	PLM PC TEM NOB	ACM
To a constraint of the second s	Exterior window white	2-7-EL-112	JULIA	NAD		QN
r açade A	glazing compound	2-7-EL-113	OCITAI	NAD		DA1
U		2-7-EL-118		NAD		ON
1 100X	OTEY aspirate sumgre	2-7-EL-119	OCITIVI	NAD		
Df.1	Black paper under	2-7-EL-120	USUN.	NAD		ON
T IOOX	grey asphalt shingle	2-7-EL-121	OCITAI	NAD		O KT
ر ۲۰۰۴	Gray paper insulation associated with	2-7-EL-126	MISC	NAD		ÛŅ
K001 2	styrofoam insulation	2-7-EL-127	OCITAI	NAD		D.F
					HEIMNAN BYDTOAUDINICHTHODS	
DNA = DID NOT ANALYZE	ZE	SF = SQUARE FEET	_	PLM PC = EPA 600/R-93/	PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT	INT COUNT
NAD=NO ASBESTOS DETECTED	TECTED	LF = LINEAR FEET		TEM NOB = NEW YORK ELAP 198.4 METHOD	ELAP 198.4 METHOD	
$\mathbf{F} = \mathbf{FRIABLE}$		Chrys = Chrysotile		PLM = EPA 600/R-93/116		
NF = NON-FRIABLE		Amos = Amosite		PS = Previously Sampled		-
TSI = THERMAL SYSTEMS INSULATION	EMS INSULATION	Anth = Anthophylite		$\mathbf{EA} = \mathbf{Each}$		
SURF = SURFACING MATERIAL	ATERIAL	\mathbf{T} rem = \mathbf{T} remolite				
MISC = MISCELLANEOUS MATERIAL	US MATERIAL	Croc = Crocidolite				
	BOLD TEXT IN	1 "LOCATION" COLUMN INDICATES SAMPLE LOCATION	WN INDICATES SA	MPLE LOCATION		

TABLE III

UNIVERSAL WASTE MATERIALS SUMMARY TABLE

TABLE III UNIVERSAL WASTE PRODUCTS SUMMARY TABLE 53 MAPLE STREET NAUGATUCK, CONNECTICUT

100

ROOME DESILVED AND AND AND AND AND AND AND AND AND AN		VIEU		AND DE CONTEST					RUS SE
	E PCB	DEHP	ELEC. SPENT	CAPACITORS	CHCS -		LE E ROUND	USEAPE FA ES	ELS
001 1	1						5		
002 1	15						75		
003 1							5		
005 1	9						5		
005A 1	10						48		
008 2		2					20		-
009 2		~					80		
010 2		9					60		
011 2		8					80		
012 2		4					20		
013 2		4					30		
014 2		32					320		
		10			-		100		
016 2		40					400		
		24					240		
019 2		1					5		
021 2		10					100		
		2					20		
		1					10		-
024 2		2					20		
026 2		8				-	80		
027 2		30					300		and share of the part of the state
TOTAL	100033000	192				0	2023		0.01
				Ń	NOTES				
KEYS	KEYS: FA = Fire Alarm	Alarm / E	/ ES = Exit Sign / ELS = Emergen	S = Emergency Lighting System	stem				
	Type 1 - AD LITE	DLITE							
FIXTURE TYP	E Type 2 - A	DVANCE	FIXTURE TYPE Type 2 - ADVANCE CAT NO RQM 2540						
DESCRIPTION	Z								
		5 - Ballast	NOTE: 005 - Ballast on ground / 5 LF Bulb on ground	lb on ground near stairs					

APPENDIX 1

FLOOR PLANS AND ROOF PLAN

BOROUGH of NAUGATUCK

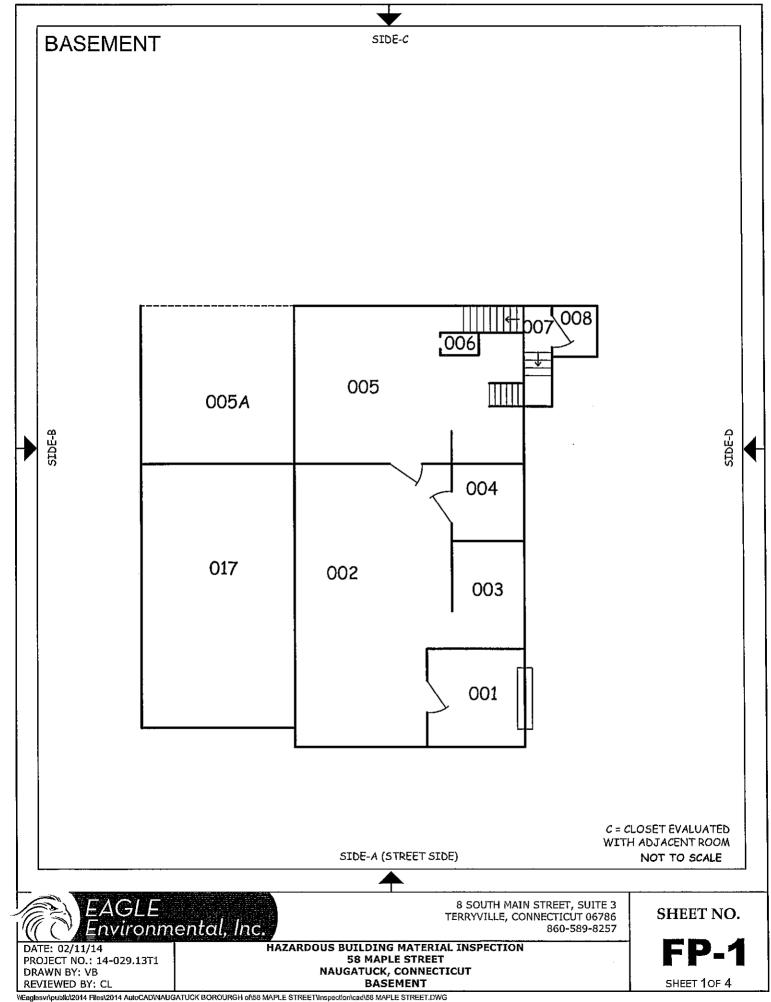
14-029.13T1

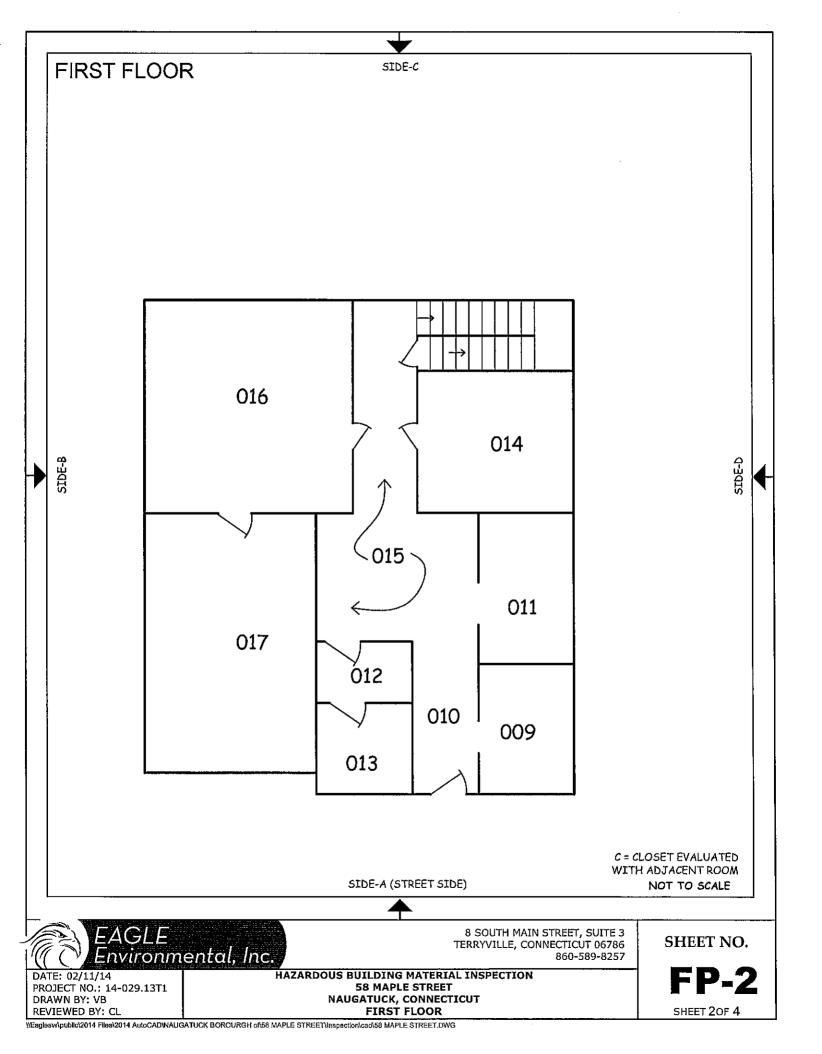
58 MAPLE STREET NAUGATUCK, CONNECTICUT

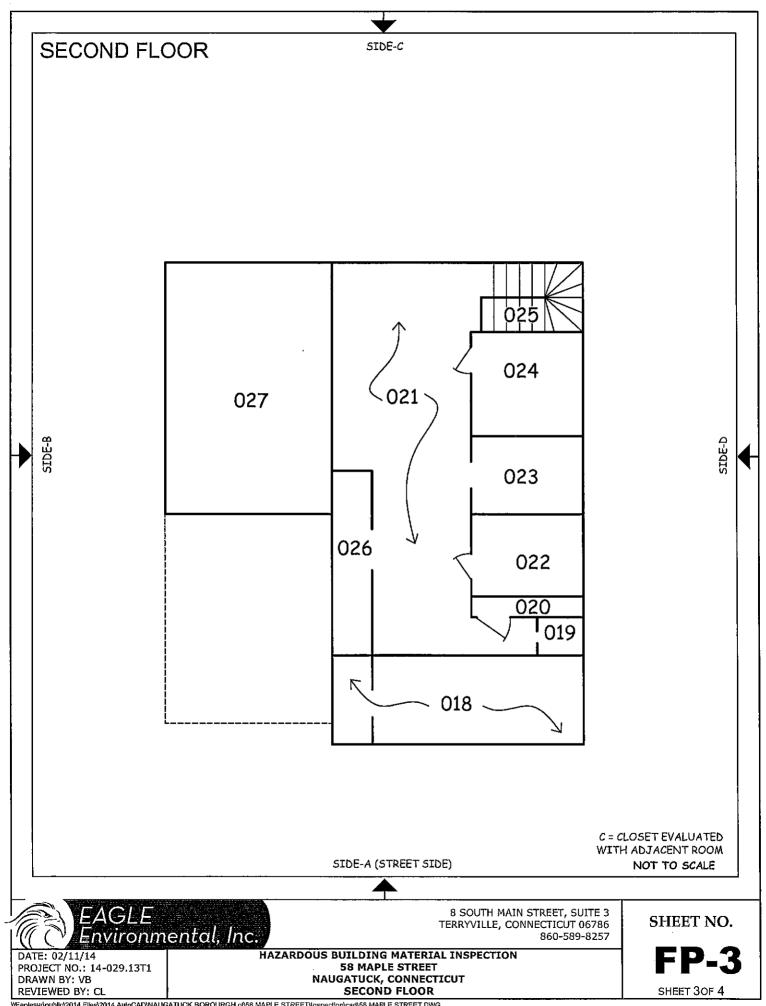
INDEX OF DRAWINGS

FP-1 BASEMENT FP-2 FIRST FLOOR PLAN FP-3 SECOND FLOOR PLAN FP-4 ROOF

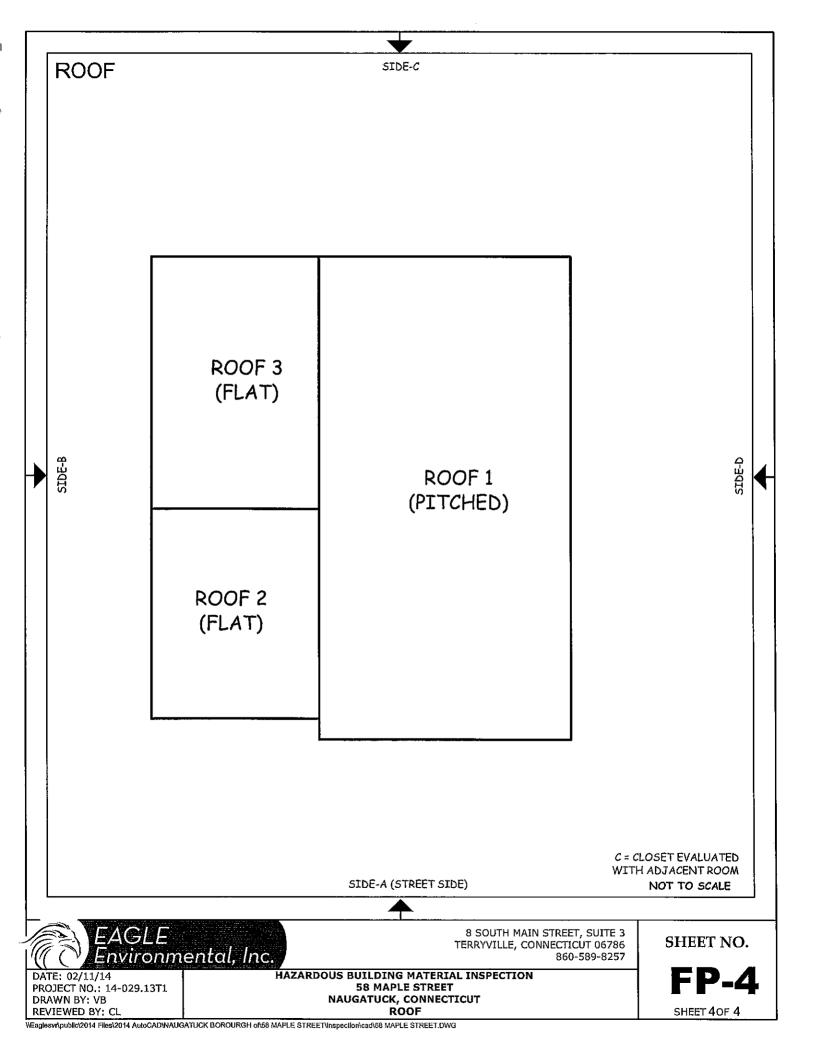








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APPENDIX 2

ASBESTOS BULK SAMPLE LABORATORY REPORTS

EMSL - MA EMSL - CT Constitution Way, Sta 107 29 N. Plains Hwy, Unit 4 BMSL - OT 107 Haddon Avenue Westmann Constitution Way, Sta 107 29 N. Plains Hwy, Unit 4 Nor West 38" Street 107 Haddon Avenue Westmann Wastmann, M. D0803 (203) 224-5948 (203) 224-5948 (212) 200-0058 Fax (860) 448-575 (850) 858-4960 Fax Your Name: Brandy LeBlanc Project Manager: CL Company: Eagle Environmental, Inc. Environmental, Inc. Environmental, Inc. Street: Booth Mins Strot, Suite 3 Environmental, Inc. Environmental, Inc. Citr/State/Zip: Terryvilla, CT 08786 Project Manager: CL Project Name Borough of Nangatuck Project H : 14/20.1311 Project Name Derough of Nangatuck Project Marce D State (US): State: D State: D State: D State: D State: Babelin: D State: D State: D State: D State: Project Name D State: D State: D State: D State: State: <th></th> <th>EVV</th> <th>SL – MA</th> <th>EWC</th> <th>L-CT</th> <th>E.V.</th> <th>isi İ</th> <th>NY</th> <th>EMSL - NJ</th> <th></th>		EVV	SL – MA	EWC	L-CT	E.V.	isi İ	NY	EMSL - NJ	
Your Name: Brandy LoBianc Project Manager: CL Company: Eagle Environmental, Inc. Street: & South Main Street, Suite 3 Street: & South Main Street, Suite 3 Clty/State/Zip: Ternylle, CT 06788 Phone: Befuess-8257 ext. 203 Fax: 866-585-7034 Email: befuess/tess/tess/tess/tess/tess/tess/tess/		7 Co Wot (781	onstitution Way, Ste burn, MA 01801 1) 933-8411	107 29 N Wall (203	l. Plains Hwy, Un ingford, CT 0649) 284-5948	nit 4 301 2 Ne (86	7 We w Yo 36) 44	st 38 th Street rk, NY 10018 8-3675	107 Haddon Ave Westmont, NJ 08 (800) 220-3675	3108
Company: Eagle Environmental, Inc. Street: & South Main Street, Suite 3 City/State/Zip: Tanyville, CT 06786 Phone: Bodussesson Bodussesson Bodussesson Project Name Borough of Nargabuck Project State (US): Project Name Borough of Nargabuck Project State (US): Classesson TURNARCOUND TIME Bodussesson 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours 2 Hours			Brandy LeBianc			Pr	nient	Manager: G		
Street: 4 South Main Street, Suite 3 City/State/Zip: Terryville, CT 05786 Phone: 660-589-5257 ext. 203 Fax: 660-585-7034 Email: bid data@deathervinc.com Project Name Borough of Naugatuck Project 4: 14-02.91371 Project Location: 63 Mapie Street, Naugatuck Project 54: 14-02.91371 Project Location: 63 Mapie Street, Naugatuck Project 54: 14-02.91371 Alk BBound EMain 640 Days Alk BBound EAR/EAR/OUND TIME Alk BBound EAR/ACOUND TIME MORESTAD, ANALYSIS LEAD ANALYSIS PCM - Air Bine Activit: Absorption Wither Could Alk Street, Suite 3 OSH- WIVA Back Mark Adsorption MicroPsiat, AnaLYSIS PCM - Air Back Mark Adsorption MicroPsiat, AnaLYSIS PCM - Air Back Mark Adsorption MicroPsiat, Absorption MORESTAD, KARA AD, Subpart E Back Mark Adsorption MicroPsiat, Adsorption MORESTAD, KARA AD, Subpart E Back Mark Adsorption MicroPsiat, Adsorption More Advise Advise Adsorption Call Mark Adsorption MicroPsiat, Advison More A			P	16.	Providence and a state of part and a state of the state o	***	-10.00		***	
Phone: 669-589-5257 ext. 203 Fax: 860-585-7034 Email: Manageordemotio.com (MiningReschemento.com) Project Name Borough of Naugistuck Project #: 14-029.1311 Project Location: 58 Maple Street, Maugatuck Project #: 14-029.1314 Image: Street, Maugatuck Project State (US): TURNARCOUND TIME Image: Street, Maugatuck Project State (US): Air EBbulk Image: Street, Maugatuck Project State (US): Charles Street, Maugatuck Project State (US): Charles Street, Maugatuck Project State (US): Charles Street, Maugatuck Project State (US): Charles Street, Maugatuck Project State (US): Charles Street, Maugatuck Project State (US): Charles Street, Maugatuck Project State (US): Charles Street, Maugatuck Project State (US): Charles Street, Maugatuck Project State (US): Charles Street, Maugatuck Project State (US): Charles Street, Maugatuck Street, Maugatuck Project State (US): Charles Street, Maugatuck Street, Ma		ж	-				-	235100	6626	·····
Determine and the sequence of the sequence	City/State/Zip:		Terryville, CT 06786		******					
Project Name Borough of Naugatuck Project #: 14-029.1371 Project Location: 58 Maple Street, Naugatuck Project #: 14-029.1371 3 Hours 3 Hours 48 Hours 49 Project State (US): TURNARQUIND TIME 3 Hours 48 Hours 14 Days 5 Days 6-10 Days Air Bolith Soil Wipe 14 Mirch Project #: 14-029.1371 Wastewater 0 6-10 Days Air Bolith Soil Wipe 14 Bays 0 Forhaking Weiter Wastewater 0 Griner ASBESTOS ANALYSIS LEAD ANALYSIS Aname Atomic Absorption Aname Atomic Absorption Aname Atomic Absorption MICH 7402 (A) Issue 2: August 1994 Grine Atomic Absorption Aname Atomic Absorption Aname Atomic Absorption MICH 7402 (A) Issue 2: August 1994 Grine Addres (2001 grine Ar O Cell Midel & Finglip Addres (2001 grine Ar O Cell MICH 7402 (A) Issue 2: August 1994 Grine Addres (2001 grine Ar O Cell Midel & Finglip Addres (2001 grine Addres (2001 grine Addres (2001 grine Addres (2001 grine Addres (2001 grine Addres (2001 grine Addres (2001 grine Addres (2001 grine Addres (2001 grine Addres (2001 grine Addres (2001 grine Addres (2001 grine Addres (2001 grine Addres (2001 grine Addres (2001 grine Addres (2001 g	Phone:	*	860-589-8257 ext. 203	Fax	: 860-585-7034	Email:				
TURNAROUND TIME 3 Hours 2 A Hours 2 A Hours 2 A Hours 2 A Days 5 Days 0 5 Days Air 2 Baulik 3 Solil Wipe 1 Micro-Vac 0 Drinking Water 0 Wastewater 0 Chips Assessment Seal 0 Micro-Vac 0 Drinking Water 0 Wastewater 0 Chips 0 Other Assessment Seal 0 Micro-Vac 0 Drinking Water 0 Wastewater 0 Chips 0 Other Assessment Chips SW46-7420 ASTM Non ASTM 1 Micro-Vac 1 Micro-Vac </td <td>Project Name</td> <td>•</td> <td>Borough of Naugatuck</td> <td>*****</td> <td>*****</td> <td>Project</td> <td></td> <td></td> <td>, ISIGENWCASTEEINIIU COM</td> <td>*****</td>	Project Name	•	Borough of Naugatuck	*****	*****	Project			, ISIGENWCASTEEINIIU COM	*****
□ 3 Houre □ 4 Houre □ 4 B Houre □ 4 B Houre □ 4 Days □ 5 Days □ 5 Days □ AF □ Solt □ Wipe □ Micro-Vac □ Drinking Water □ Wastewater □ Chips □ AF □ Solt □ Wipe □ Micro-Vac □ Drinking Water □ Wastewater □ Chips □ ASBESTOS ANALYSIS LEAD ANALYSIS ■ Micro-Vac □ Drinking Water □ Wastewater □ Chips □ ASH AWTWA □ Solt ■ Micro-Vac □ Drinking Water □ Wastewater □ Chips □ MOSH 7400 (A) Issue 2: August 1994 □ Solt Wide A Faragi by Agar Plate count & id □ Bacterial Court and Gram Stain □ AREPA 40 CFR, Part 763 Subpart E □ Chips, SW464-7420 or AOAC 5.009 (974.02) □ Bacterial Court and Identification □ MOSH 7402 Issue 2: □ Wastewater, SW464-7420 or AOAC 5.009 (974.02) □ Bacterial Court and Identification □ MOSH 7402 Issue 2: □ Chips, SW464-7420 or AOAC 5.009 (974.02) □ Bacterial Court and Identification □ MOSH 7400 (A) Issue 2: August 1994 □ Chips, SW464-7420 or AOAC 5.009 (974.02) □ Bacterial Court and Identification □ MOSH 7400 (Chips) □ Chips, SW464-7420 or AOAC 5.009 (974.02) □ Bacterial Court and Identification □ MM - E MARCH	Project Locati	on:	58 Maple Street, Nauga	tuck		Pi	roje¢	t State (US):		
Air EBBUIk Soil Wipe Micro-Vac Drinking Water Westewater Chips Other ASBESTOS ANALYSIS LEAD ANALYSIS Image: Construction of the standard of the standar	🖸 3 Hours 🛛 🛛] 6 Hou	rs 🗆 24 Hours	CI 48 Hours	and a second second second second second second second second second second second second second second second	and an an an add add add an add an arr den it follows an		🗆 5 Days	🗆 6-10 Days	
ASBESTOS ANALYSIS LEAD ANALYSIS ASBESTOS ANALYSIS Image: Comparison of the second	Ci Air E	<u>1</u> Bulk	TE Soll	U Wipe			Nater	Wastewater	Chips Chips	ier
PCM: Air Fiame Atomic Absorption Air Samples OSH4 w07WA Wipa, SW846-7420 ASTM Inon ASTM OSH4 w07WA Soil, SW846-7420 Mold & Fungi by Agar Piete count & Id MIERA 40 CFR, Part 763 Subpart E Chips, SW846-7420 Bactarle Count and Gram State MOSH 7402 Issue 2 Wastewater, SW 846-7420 Bactarle Count and Gram State Deschard Count and Gram State Chips, SW846-7420 Bactarle Count and Gram State DECAL Sector 2 Wastewater, SW 846-7420 Bactarle Count and Gram State DEAL Sector 2 Bactarle Count and Gram State Bactarle Count and Gram State Califorma Aresource Board (CARB) 435 Soil, SW846-7421 Bactarle Count Bactarle Count and Gram State Califorma Aresource Board (CARB) 435 Soil, SW846-7421 Gardina Aresource Board (CARB) 435 Bactarle Count Gardina Aresource Board (CARB) 435 Soil, SW846-57420 Drinking Water, EPA 239.2 Midd & Fungi - Direct Examination Wipe and Bulk Samples MOSH 7002 Drinking Water, EPA 239.2 Mold & Fungi - Culture follow up to direct examination Mold & Fungi - Culture follow up to direct examination Soil, SW846-5010 Soil, SW846-6010 Soil, SW846-6010 Mold & Fungi - Culture follow up to direct examin									······	
NYS 198.2	OSHA w/TWA TEM AIR AHERA 40 CFR, F AHERA 40 CFR, F NIOSH 7402 Issue EPA Level II PLM - Bulk EPA 600/R-93/116 NIOSH 9002 PLM NOB (Gravim EPA Point Count (EPA Point Count (Part 763 : Count Count urce Boa etric) NY 400: Point 1,000 Poi	Subpart E ard (CARB) 435 (S 198,1 ts) ints) iunt libers/gram 028 (dust generation) Y 198.4	Soli, Ait, 1 Chip Was TCLL Graphi Ait, 1 Graphi Ait, 1 Was Soli, Drini CP_tr Wipe Soli, Ait, 1 Wipe Soli, Ait, 4 MATE Full Optic Parti Prod Prod Glov Petra (OS Man	SW846-7420 NIOSH 7082 s, SW846-7420 or AOAC tewater, SW 846-7420 P LEAD SW846-1311/742 te Furnace Atomic At NIOSH 7105 tewater, SW846-7421 SW846-7421 ding Water, EPA 239.2 nductively Coupled P , SW846-6010 NIOSH 7300 ERIALS ANALYS Particle Identification cal Particle Identification cal Particle Identification al Particle Identification cal Particle Identification to Comparison t Characterization tre Analysis e Box Containment Study ographic Examination of C and Cement In Workplace HA ID-143) Made Vitrous Fibers – M	5.009 (974.02 20 20 20 20 20 20 20 20 20	2)	Mold & Bacteria Water Sa D Total C Escheri Legione Seimon Giardia Wipe and Mold & Mold & Mold & Bacteri (3 most O ther, Nuisan Aliborn Silica A HVAC I Carbon	Fungl by Agar Plate count & I Count and Gram Stain I Count and Gram Stain I Count and Identification <u>mples</u> Oliforms, Fecal Coliforms chila Coli, Fecal Streptococci alia eella and Cryptospecificum <u>Bulk Samples</u> Fungl – Direct Examination Fungl – Direct Examination Fungl – Culture follow up to rect examination if necessary Fungl – Culture follow up to rect examination if necessary Fungl – Culture follow up to rect examination if necessary Fungl – Culture (Count & ID) Fungl	us ()) ()
	Paralund	Đ	PENER SIOCH TOCH	un p	E AT	late:	2.10.4	4	Time: PM	
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-		60	1405535	-	
	SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME AIr (L)	Area (Inches sq.)
	2-6-EL-01	White mag pipe insulation	002		20%0 AM
	2-6-EL-02	White mag pipe insulation	002		DNA
	2-6-EL-03	White mag pipe insulation	011		DNA.
	2-6-EL-04	NOT USED			NAD.
	2-6-EL-05	Skim coat plaster	007		~
/	2-6-EL-06	Skim coat plaster	009		, r
19	2-6-EL-07	Skim coat plaster	011		,
$\mathcal{I}_{\mathfrak{c}}$	2-6-EL-08	Skim coat plaster	014		-
	2-6-EL-09	Skim coat plaster	018		~
	2-6-EL-10	Rough coat plaster	007		•
	2-6-EL-11	Rough coat plaster	009		,
	2-6-EL-12	Rough coat plaster	011		τ,
(2-6-EL-13	Rough coat plaster	014		*
n a su ta su ta su ta su ta su ta su ta su ta su ta su ta su ta su ta su ta su ta su ta su ta su ta su ta su ta	2-6-EL-14	Rough coat plaster	018		,
a water intervention	2-6-EL-15	NOT USĘD			
	2-6-EL-16	NOT UŞED			1
	2-6-EL-17	Grout assoc witan sq ceramic wall tile	008		1
	2-6-EL-18	Grout assoc witan sq ceramic wall file	008		
	2-6-EL-19	Brown adhesive assoc w/tan sq ceram wall tile	008		
Ľ	2-6-EL-20	Brown adhesive assoc w/tan sq ceram wall tile	008		۹.,
	2-6-EL-21	NOT USED			-
	2-6-EL-22	NOT USED			· · · · · · · · · · · · · · · · · · ·
	2-6-EL-23	Grout assoc w/sm brown-tan ceram floor tile	008		
1	2-6-EL-24	Grout assoc w/sm brown-tan ceram floor tile	008		V·
- verile and the second s			-		· · · · · · · · · · · · · · · · · · ·

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EMEL	7 Constitution Way, Ste Woburn, MA 01801 (781) 933-8411			307 We	st 38 ¹ rk, N	^h Street Y 10018 75	107 H West	Haddon A mont, NJ 220-367	081(
www.emsl.com	(781) 933-8412 Fax	(203) 284-5978 F	Fax	(212) 2	90-00	58 Fax		858-496	
			0	314	POE	553	55		
SAMPLE NUMB		DESCRIPTION	ROOM	or LOCAT	ON	VOLUME A	<u>ir (L.)</u>	Area (Inc	hes sc N
2-6-EL-26	Grey adhesive asso	oc w/sm br-tan ceram FT		008	:			Ni	<u>+11</u>
<u> </u>	Grey adhesive asso	oc w/sm br-tan ceram FT		800]
2-6-EL-27	Brown stair	tread cove base		007					
2-6-EL-28	Brown stair	tread cove base		007					
2-6-EL-29	Brown adhesive ass	oc w/brown stair tread CB		007					
2-6-EL-30	Brown adhesive ass	oc w/brown stair tread CB		007					
2-6-EL-31	Yellow adhesive	assoc w/brown carpet		009					
2-6-EL-32	Yellow adhesive	assoc w/brown carpet		009				¥	
2-6-EL-33	9"x9" G	reen floor tile		009				490	hr
2-6-EL-34	9"x9" G	reen floor tile		011				DN'	A
2-6-EL-35	9"x9" 1	fan floor tile		009)	
2-6-EL-36	9"×9" ไ	fan floor tile		011				J.	/
2-6-EL-37	Black mastic as	soc w/ 9"x9" floor tile		009				<u>120</u>	Ð
2-6-EL-38	Black mastic as	soc w/ 9"x9" floor tile		011	*****				
2-7-EL-96	Black mastic asso	c w/9"x9" gray floor tile	023						
2-6-EL-39	NC	T USED							***
2-6-EL-40	Sh	eetrock		012					
2-6-EL-41	Sh	ieetrock		014					
2-6-EL-42	NC	TUSED	_						
2-6-EL-43	Joint	compound		012				anana da mana d	
2-6-EL-44	Joint	compound		014					L_/
2-6-EL-44A	Sheetrock/joint	compound composite		009					<u>}/</u>
2-6-EL-45	9"x9" Dark	brown floor tile		010				2%	<u>ħ</u> ſ
2-6-EL-46	9"x9" Dark	brown floor tile	1	010				DN	H
2-6-EL-47	NC	OT USED							
2-6-EL-48	NC	T USED							and a start of the

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			\mathcal{C}	\geq 140	7265	55		
SAMPLE NUMBE	R SAMPLE DESC	RIPTION	ROON	or LOCATION	VOLUME A	ir (L.)	Area (Inch	es sq.)
2-6-EL-49	Brown adhesive assoc	c w/ wood panel		010		4	<u>35%</u>	hal
2-6-EL-50	Brown adhesive assoc	c w/ wood panel		010			DNA	f_{1}
2-6-EL-51	White pinhole fiber	board ceiling	ndanidiki kapanyan yiki	010			AM	\overline{D}
2-6-EL-52	White pinhole fiberi	board celling		010				
2-6-EL-53	Brown cove	base		010				
2-6-EL-54	Brown cove	base		010				
2-6-EL-55	Brown adhesive assoc w	/ brown cove base		010				
2-6-EL-56	Brown adhesive assoc w	/ brown cove base		010				
2-6-EL-57	Grey mud pack fitt	ing at elbow		011		l	+5%	Chr
2-6-EL-58	Grey mud pack fitt	ing at elbow		011			DN.	A
2-6-EL-59	Grey mud pack fitt	ing at elbow		002			NA	\mathcal{D}
2-6-EL-60	White adhesive assoc w/b	rown orange carpet		012				
2-6-EL-61	White adhesive assoc w/b	rown orange carpet		013				
2-6-EL-62	White acoustic c	ceifing tile		013				and a state of the second state of the second state of the second state of the second state of the second state
2-6-EL-63	White acoustic c	ceiling tile		013				
2-6-EL-64	Black flex connector (@ HVAC system		015				
2-6-EL-65	Black flex connector (@ HVAC system		015				
2-6-EL-66	NOT USE	ED						1012011451251251261251261251261251
2-6-EL-67	NOT USE	2D			5100 000 000 0000 0000 0000000000000000			
2-6-EL-68	Yellow adhesive assoc w/red	spotted orange carpet	art courses a facilitation	018		ļ		
2-6-EL-69	Yellow adhesive assoc w/red	spotted orange carpet		018			<u> </u>	<u> </u>
2-6-EL-70	9"x9" Green line pat	ttern floor tile		019			14%	Chli
2-6-EL-71	9"x9" Green line pat	ttern floor tile		019			DN	Ð
2-6-EL-72	NOT USE	ED				-		

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31405535

SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION		Area (Inches sq.)
-1		1	VOLOWE AIT (L)	
2-6-EL-74	9"x9" Dark green floor tile	019		HS & YWY
2-6-EL-75	9"x9" Dark green floor tile	019		DNH
2-6-EL-76	Black laminate flooring	021		NAD
2-6-EL-77	Black laminate flooring	021		
2-6-EL-78	Black mastic assoc w/black laminate flooring	021		
2-6-EL-79	Black mastic assoc w/black laminate flooring	021		
2-7-EL-80	NOT USED			
2-7-EL-81	NOT USED		Analista and a second and a second second second second second second second second second second second second	-
2-7-EL-82	Black mastic assoc w/black rectangle wall file	022		
2-7-EL-83	Black mastic assoc w/black rectangle wall tile	022	992910010000000000000000000000000000000	
2-7-EL-84	Brown glue daub assoc w/black rectangle wall tile	022	, , , , , , , , , , , , , , , , , , ,	K1%Ant
2-7-EL-85	Brown glue daub assoc w/black rectangle wall tile	022		K120Ant
2-7-EL-86	White caulk on top of black rectangle wall tile	022		MAD
2-7-EL-87	White caulk on top of black rectangle wall tile	022		
2-7-EL-88	Interior window white glazing compound	022		
2-7-EL-89	Interior window white glazing compound	023		
2-7-EL-90	25"x25" Black terrazzo flooring	022	and a second second second second second second second second second second second second second second second	
2-7-EL-91	25"x25" Black terrazzo flooring	022		
2-7-EL-92	NOT USED		**************************************	
2-7-EL-93	NOT USED	na many paramang penetrasian penetrasia ng mana ng mang penetrasia ng mang penetrasian ng mang penetrasian ng m	n demonstrate de la constra de constra de constra de constra de constra de constra de constra de constra de co Internet en esta de constra de constra de constra de constra de constra de constra de constra de constra de cons	2007-000-00-000-000-000-000-000-000-000-
2-7-EL-94	9"x9" Gray floor tile	023		
2-7-EL-95	9"x9" Gray floor tile	023		Not Submitte
2-7-EL-97	NOT USED			
2-7-EL-98	Black paper underneath wood floor	023		NAP
2-7-EL-99	Black paper underneath wood floor	027		
	<mark>d nadard og synfan en en en en en en en en en en en en en</mark>			181/

EMSI	EMSL – MA 7 Constitution Way, Ste 107		EMSL - NY 307 West 3		EMSL – NJ 107 Haddon Avenue
www.emsl.com	Woburn, MA 01801 Wallingford, CT ((781) 933-8411 (203) 284-5948 (781) 933-8412 Eax (203) 284-5948		New Yerk, I (866) 448-3 (212) 290-0	675	Westmont, NJ 08108 (800) 220-3675 (856) 858-4960 Fax
www.einst.com			08	140F	5535
SAMPLE NUMB			M or LOCATION	VOLUME A	ir (L) Area (Inches sq.)
2-7-EL-100	Gray stair tread ceram	ic covering tile	025		NAU
2-7-EL-101	Gray stair tread ceram	ic covering tile	025		
2-7-EL-102	Brown adhesive assoc w/gra	y stair tread ceram tile	025		
2-7-EL-103	Brown adhesive assoc w/gray	y stair tread ceram tile	025		
2-7-EL-104	9"x9" Black and green ca	mouflage floor tile	026		4% Char
2-7-EL-105	9"x9" Black and green ca	mouflage floor tile	026		DNA
2-7-EL-106	Grey paper underneat	wood flooring	026		NAD
2-7-EL-107	Grey paper underneat	n wood flooring .	026		NAD
2.7-EL-108	9"x9" Black fi	oor tile	027		1490 Chre
2-7-EL-109	9"x9" Black fl	por tile	027		DNA-1.
2-7-EL-110	NOT USE	D's			- Alt
2-7-EL-111	NOTUSE	D			
2-7-EL-112	Exterior window white g	azing compound	FacadeA		INAD
2-7-EL-113	Exterior window white g	azing compound	FacadeA		MAD
2-7-EL-114	Exterior window v	white caulk	FacadeA		hypoline
2-7-EL-115	Exterior window v	vhite caulk	FacadeA	MAT FOR SAT A PROVIDE TO THE OWNER OF THE OWNER	5NAT
2-7-EL-116	Exterior door w	lite caulk	FacadeA		200Antr
2-7-EL-117	Exterior door wt	ilte caulk	FacadeA		DNA.
ef 2-7-EL-118	Grey asphalt s	hingle	Roof 1		[NAD]
2-7-EL-119	Grey asphalt s	shingle	Roof 1		
2-7-EL-120	Black paper under grey	asphalt shingle	Roof 1		
2-7-EL-121	Black paper under grey	asphalt shingle	Roof 1		V
2-7-EL-122	NOT USE	D			Ľ
2-7-EL-123	NOT USE	D			

OrderID: 031405535



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D3140553

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	SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME Air (L) Area (Inches sq.)
	2-7-EL-124	NOT USED		
	2-7-EL-125	NOT USED		
	2-7-EL-126	Gray paper insulation assoc wistyrofoam insulation	Roaf 2	KIAD.
	2-7-EL-127	Gray paper insulation assoc w/styrofoam insulation	Roof 2	NAD
	2-7-EL-128	Gray flashing coment near base & lower brick wall	Roof 2	259/0 MR15
	2-7-EL-129	Gray flashing cement at wall base	Roof 3	45900475
	2-7-EL-130	Black flashing @ parapet wall cap	Roof 3	49DCIANS
< PC	2-7-EL-131	Black flashing @ parapet wall cap	Roof 3	DNAT
1	• 2-7-EL-132	Black built up layered roofing	Roof 3	290Chrs
्यूत	2-7-EL-133	Black built up layered roofing	Roof 3	I DNA
	2-7-EL-134	Black tar on wood roof deck	Roof 3	2950035
$\langle \xi \rangle$	2-7-EL-135	Black tar on wood roof deck	Roof 3	DATA
		:		
- Charles and Char			1	

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EMSL Order: CustomerID: CustomerPO:

031405535 EEVM50

ProjectID:

Attn:	Chris Liberti	Phone:	(860) 589-8257			
	Eagle Environmental, Inc CT	Fax:	(860) 585-7034			
	8 South Main Street	Received:	02/12/14 11:59 AM			
	Suite 3	Analysis Date:	3/6/2014			
	Suite 3 Terryville, CT 06786	Collected:	2/6/2014			
Projec	- · ·					

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using **Polarized Light Microscopy**

				<u>Non-Asl</u>	<u>bestos</u>	<u>Asbestos</u>
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Түре
2-6-EL-01	WHITE MAG	White	5%	Glass	50% Ca Carbonate	15% Chrysotile
031405535-0001	PIPE INSULATION ~ 002	Fibrous Homogeneous			10% Non-fibrous (other)	20% Amosite
2-6-EL-02 031405535-0002	WHITE MAG PIPE INSULATION - 002					Stop Positive (Not Analyzed)
2-6-EL-03 031405535-0003	WHITE MAG PIPE INSULATION - 011					Stop Positive (Not Analyzed)
2-6-EL-05	SKIM COAT	White			65% Ca Carbonate	None Detected
031405535-0005	PLASTER - 007	Non-Fibrous Homogeneous			35% Non-fibrous (other)	
2-6-EL-06	SKIM COAT	White	·		55% Ca Carbonate	None Detected
031405535-0006	PLASTER - 009	Non-Fibrous Homogeneous			45% Non-fibrous (other)	
2-6-EL-07	SKIM COAT	White	<1%	Cellulose	66% Ca Carbonate	None Detected
031405535-0007	PLASTER - 011	Non-Fibrous Homogeneous			34% Non-fibrous (other)	
2-6-EL-08	SKIM COAT	White			60% Ca Carbonate	None Detected
031405535-0008	PLASTER - 014	Non-Fibrous Homogeneous			40% Non-fibrous (other)	
2-6-EL-09	SKIM COAT	White			55% Ca Carbonate	None Detected
031405535-0009	PLASTER - 018	Non-Fibrous Homogeneous			45% Non-fibrous (other)	

Analyst(s)

Albert Grohmann (1) Henry Akintunde (37) Keri-Dean Scarlett (56)

James P Hell

James Hall, Laboratory Manager or other approved signatory

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EMSL Order: 0 CustomerID: E CustomerPO: ProjectID:

031405535 EEVM50

Attn:	Chris Liberti	Phone:	(860) 589-8257					
	Eagle Environmental, Inc	CT Fax:	(860) 585-7034					
	8 South Main Street	Received:	02/12/14 11:59 AM					
	Suite 3	Analysis Date:	3/6/2014					
		Collected:	2/6/2014					
	Terryville, CT 06786							
Proje	Project: 14-029.13T1/ BOROUGH OF NAUGATUCK/ 58 MAPLE STREET/ NAUGATUCK CT							

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				Non-As	bestos		<u>Asbestos</u>
Sample	Description	Appearance	%	Fibrous	% No	on-Fibrous	% Type
2-6-EL-10	ROUGH COAT	Tan			47%	Quartz	None Detected
031405535-0010	PLASTER - 007	Non-Fibrous Homogeneous			53%	Non-fibrous (other)	
2-6-EL-11	ROUGH COAT	Tan	2%	Cellulose	55%	Quartz	None Detected
031405535-0011	PLASTER - 009	Non-Fibrous Homogeneous			43%	Non-fibrous (other)	
2-6-EL-12	ROUGH COAT	Gray	2%	Cellulose	60%	Quartz	None Detected
031405535-0012	PLASTER - 011	Non-Fibrous Homogeneous			38%	Non-fibrous (other)	
2-6-EL-13	PLASTER - 014	Gray	2%	Cellulose	55%	Quartz	None Detected
031405535-0013		Non-Fibrous Homogeneous			43%	Non-fibrous (other)	
2-6-EL-14	ROUGH COAT	Gray	3%	Cellulose	35%	Quartz	None Detected
031405535-0014	PLASTER - 018	Non-Fibrous			32%	Gypsum	
		Homogeneous			30%	Non-fibrous (other)	
2-6-EL-17	GROUT ASSOC	White	2%	Celluiose	67%	Ca Carbonate	None Detected
031405535-0017	W/ TAN SQ CERAMIC WALL TILE - 008	Non-Fibrous Homogeneous		3	31%	Non-fibrous (other)	
2-6-EL-18	GROUT ASSOC	Tan			25%	Ca Carbonate	None Detected
031405535-0018	W/ TAN SQ CERAMIC WALL TILE - 008	Non-Fibrous Homogeneous			75%	Non-fibrous (other)	

Analyst(s)

Albert Grohmann (1) Henry Akintunde (37) Keri-Dean Scarlett (56)

James PALO

James Hall, Laboratory Manager or other approved signatory

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	Terryville, CT 06786	Collected:	2/6/2014					
Proje	Project: 14-029.13T1/ BOROUGH OF NAUGATUCK/ 58 MAPLE STREET/ NAUGATUCK CT							

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				<u>Non-Asl</u>	<u>bestos</u>		<u>Asbestos</u>
Sample	Description	Appearance	%	Fibrous	% No	n-Fibrous	% Туре
2-6-EL-19	BROWN ADHESIVE	Brown Non-Fibrous			100%	Non-fibrous (other)	None Detected
031405535-0019	ASSOC W/ TAN SQ CERAM WALL TILE - 008	Homogeneous					
2-6-EL-20	BROWN	Brown			100%	Non-fibrous (other)	None Detected
031405535-0020	ADHESIVE ASSOC W/ TAN SQ CERAM WALL TILE - 008	Non-Fibrous Homogeneous					
2-6-EL-23	GROUT ASSOC	Gray	2%	Cellulose	45%	Quartz	None Detected
031405535-0023	W/ SM BROWN- TAN CERAM	Non-Fibrous			30%	Ca Carbonate	
	FLOOR TILE - 008	Homogeneous			23%	Non-fibrous (other)	
2-6-EL-24	GROUT ASSOC	Gray			100%	Non-fibrous (other)	None Detected
031405535-0024	W/ SM BROWN- TAN CERAM FLOOR TILE - 008	Non-Fibrous Homogeneous					
2-6-EL-25	GREY	Gray			55%	Quartz	None Detected
031405535-0025	ADHESIVE ASSOC W/ SM BR-TAN CERAM FT - 008	Non-Fibrous Homogeneous			45%	Non-fibrous (other)	
2-6-EL-26	GREY	Gray			25%	Quartz	None Detected
031405535-0026	ADHESIVE ASSOC W/ SM BR-TAN CERAM FT - 008	Non-Fibrous Homogeneous			75%	Non-fibrous (other)	

Analyst(s)

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James PAIL

James Hall, Laboratory Manager or other approved signatory

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EMSL Order: CustomerID: CustomerPO: ProjectID:

031405535 EEVM50

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	Eagle Environmental, Inc CT	Fax:	(860) 585-7034
	8 South Main Street	Received:	02/12/14 11:59 AM
	Suite 3	Analysis Date:	3/6/2014
	Terryville, CT 06786	Collected:	2/6/2014
Proie	ct: 14-029-13T1/ BOROUGH OF NAUGATUCK/ 58 MAPLE STREET/	NAUGATUCK CT	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using **Polarized Light Microscopy**

			<u>N</u>	Ion-Asbestos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
2-6-EL-27 031405535-0027	BROWN STAIR TREAD COVE BASE - 007	Brown Non-Fibrous Homogeneous		28% Ca Carbonate 72% Non-fibrous (other)	None Detected
2-6-EL-28 031405535-0028	BROWN STAIR TREAD COVE BASE - 007	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2-6-EL-29 031405535-0029	BROWN ADHESIVE ASSOC W/ BROWN STAIR TREAD CB - 007	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2-6-EL-30 031405535-0030	BROWN ADHESIVE ASSOC W/ BROWN STAIR TREAD CB - 007	Brown Non-Fibraus Homogeneous		100% Non-fibrous (other)	None Detected
2-6-EL-31 031405535-0031	YELLOW ADHESIVE ASSOC W/ BROWN CARPET - 009	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2-6-EL-32 031405535-0032	YELLOW ADHESIVE ASSOC W/ BROWN CARPET - 009	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2-6-EL-33 031405535-0033	9" X 9" GREEN FLOOR TILE - 009	Green Non-Fibrous Homogeneous		96% Non-fibrous (other)	4% Chrysotile

Analyst(s)

Albert Grohmann (1) Henry Akintunde (37)

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James Hall, Laboratory Manager or other approved signatory

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Report Amended: 03/06/2014 10:13:23 Replaces the Initial Report 02/18/2014 18:47:31. Reason Code: Client-Change to Appearance

Keri-Dean Scarlett (56)



EMSL Order: CustomerID: CustomerPO: ProjectID: 031405535 EEVM50

	Chris Liberti	Phone:	(860) 589-8257
	Eagle Environmental, Inc CT	Fax:	(860) 585-7034
	8 South Main Street	Received:	02/12/14 11:59 AM
	Suite 3	Analysis Date:	3/6/2014
	Terryville, CT 06786	Collected:	2/6/2014
Projec	t: 14-029.13T1/ BOROUGH OF NAUGATUCK/ 58 MAPLE STREET/	NAUGATUCK CT	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				<u>Non-A</u>	sbestos	<u>Asbestos</u>
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
2-6-EL-34 031405535-0034	9" X 9" GREEN FLOOR TILE - 011					Stop Positive (Not Analyzed)
2-6-EL-35 031405535-0035	9" X 9" TAN FLOOR TILE - 009)		· mi	, — qanque e	Stop Positive (Not Analyzed)
2-6-EL-36 031405535-0036	9" X 9" TAN FLOOR TILE - 011					Stop Positive (Not Analyzed)
2-6-EL-37 031405535-0037	BLACK MASTIC ASSOC W/ 9" X 9" FLOOR TILE - 009	Black Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
2-6-EL-38 031405535-0038	BLACK MASTIC ASSOC W/ 9" X 9" FLOOR TILE - 011	Black Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
2-7-EL-96 031405535-0039	BLACK MASTIC ASSOC W/ 9" X 9" GRAY FLOOR TILE - 023	Black Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
2-6-EL-40 031405535-0041	SHEETROCK - 012	Brown/Gray Fibrous Homogeneous	10%	Cellulose	65% Gypsum 25% Non-fibrous (other)	None Detected
2-6-EL-41 031405535-0042	SHEETROCK - 014	White Non-Fibrous Homogeneous			32% Ca Carbonate 68% Non-fibrous (other)	None Detected

Analyst(s)

Albert Grohmann (1) Henry Akintunde (37) Keri-Dean Scarlett (56)

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EMSL Order: CustomerID: CustomerPO:

031405535

ProjectID:

EEVM50

Attn:	Chris Liberti	Phone:	(860) 589-8257					
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	Terryville, CT 06786							
Proje	Project: 14-029.13T1/ BOROUGH OF NAUGATUCK/ 58 MAPLE STREET/ NAUGATUCK CT							

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using **Polarized Light Microscopy**

				<u>Non-Asi</u>	<u>estos</u>	<u>Asbestos</u>
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
2-6-EL-43	JOINT	Tan			55% Ca Carbonate	None Detected
031405535-0044	COMPOUND - 012	Non-Fibrous Homogeneous			45% Non-fibrous (other)	
2-6-EL-44	JOINT	Brown/Gray	15%	Cellulose	65% Gypsum	None Detected
031405535-0045	COMPOUND - 014	Fibrous Homogeneous	3%	Glass	17% Non-fibrous (other)	
2-6-EL-44A	SHEETROCK/	Brown/Gray	7%	Cellulose	60% Gypsum	None Detected
031405535-0046	JOINT COMPOUND	Fibrous			20% Ca Carbonate	
	COMPOSITE - 009	Homogeneous			13% Nan-fibrous (other)	
2-6-EL-45	9" X 9" DARK	Brown	20%	Cellulose	78% Non-fibrous (other)	2% Chrysotile
031405535-0047	BROWN FLOOR TILE - 010	Non-Fibrous Homogeneous				-
2-6-EL-46	9" X 9" DARK					Stop Positive (Not Analyzed)
031405535-0048	BROWN FLOOR TILE - 010					
2-6-EL-49	BROWN	Brown			45% Non-fibrous (other)	55% Chrysotile
031405535-0051	ADHESIVE ASSOC W/ WOOD PANEL - 010	Non-Fibrous Homogeneous				
2-6-EL-50	BROWN					Stop Positive (Not Analyzed)
031405535-0052	ADHESIVE ASSOC W/ WOOD PANEL - 010					

Analyst(s)

Albert Grohmann (1)

Henry Akintunde (37)

Keri-Dean Scarlett (56)

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EMSL Order: CustomerID: CustomerPO: ProjectID:

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Attn:	Chris Liberti	Phone:	(860) 589-8257
	Eagle Environmental, Inc CT	Fax:	(860) 585-7034
	8 South Main Street	Received:	02/12/14 11:59 AM
	Suite 3	Analysis Date:	3/6/2014
	Terryville, CT 06786	Collected:	2/6/2014
	renyane, or ourou		
Proje	ct: 14-029.13T1/ BOROUGH OF NAUGATUCK/ 58 MAPLE STREET/ N	AUGATUCK CT	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos			<u>Asbestos</u>	
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
2-6-EL-51	WHITE PINHOLE	Brown	85%	Cellulose	15% Non-fibrous (other)	None Detected
031405535-0053	FIBERBOARD CEILING - 010	Fibrous Homogeneous				
2-6-EL-52	WHITE PINHOLE	Brown	90%	Cellulose	10% Non-fibrous (other)	None Detected
.031405535-0054	FIBERBOARD CEILING - 010	Fibrous Homogeneous				
2-6-EL-53	BROWN COVE	Brown			100% Non-fibrous (other)	None Detected
031405535-0055	BASE - 010	Non-Fibrous Homogeneous				
2-6-EL-54	BROWN COVE	Black			100% Non-fibrous (other)	None Detected
031405535-0056	BASE - 010	Non-Fibrous Homogeneous				
2-6-EL-55	BROWN	Brown	10%	Wollastonite	90% Non-fibrous (other)	None Detected
031405535-0057	ADHESIVE ASSOC W/ BROWN COVE BASE - 010	Non-Fibrous Homogeneous				
2-6-EL-56	BROWN	Black			100% Non-fibrous (other)	None Detected
031405535-0058	1000011//	Non-Fibrous Homogeneous				
2-6-EL-57	GREY MUD	Tan	60%	Cellulose	40% Non-fibrous (other)	None Detected
031405535-0059	PACK FITTING AT ELBOW - 011	Fibrous Homogeneous				
2-6-EL-58	GREY MUD	Gray			37% Gypsum	45% Chrysotile
031405535-0060	PACK FITTING AT ELBOW - 011	Fibrous Homogeneous			18% Non-fibrous (other)	

Analyst(s)

Albert Grohmann (1) Henry Akintunde (37) Keri-Dean Scarlett (56)

James Hall, Laboratory Manager or other approved signatory

James PALO

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EMSL Order: CustomerID: CustomerPO: ProjectID:

031405535 EEVM50

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	Terryville, CT 06786	Collected:	2/6/2014
Proje	ct: 14-029.13T1/ BOROUGH OF NAUGATUCK/ 58 MAPLE STREET/ NA	AUGATUCK CT	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				<u>Non-Asb</u>	<u>estos</u>	<u>Asbestos</u>
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Туре
2-6-EL-59	GREY MUD PACK FITTING					Stop Positive (Not Analyzed
031405535-0061	AT ELBOW - 002					
2-6-EL-60	WHITE	Black		• • • • • • • • • • • • • • • • • • • •	100% Non-fibrous (other)	None Detected
031405535-0062	ADHESIVE ASSOC W/ BROWN ORANGE CARPET - 012	Fibrous Homogeneous				
2-6-EL-61	WHITE	Black			100% Non-fibrous (other)	None Detected
031405535-0063	ADHESIVE ASSOC W/ BROWN ORANGE CARPET - 013	Non-Fibrous Homogeneous				
2-6-EL-62	WHITE	Tan	38%	Min. Wool	62% Non-fibrous (other)	None Detected
031405535-0064	ASOUSTIC CEILING TILE - 013	Fibrous Homogeneous				
2-6-EL-63	WHITE	Gray	55%	Min. Wool	45% Non-fibrous (other)	None Detected
031405535-0065	ASOUSTIC CEILING TILE - 013	Fibrous Homogeneous				
2-6-EL-64	BLACK FLEX	Black	70%	Glass	30% Non-fibrous (other)	None Detected
031405535-0066	CONNECTOR @ HVAC SYSTEM - 015	Fibrous Homogeneous				

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EMSL Order: CustomerID: CustomerPO: ProjectID: 031405535 EEVM50

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Projec	ct: 14-029.13T1/ BOROUGH OF NAUGATUCK/ 58 MAPLE STREET/ N	AUGATUCK CT	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				Non-As	sbestos	<u>Asbestos</u>
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
2-6-EL-65 031405535-0067	BLACK FLEX CONNECTOR @ HVAC SYSTEM - 015	Black Fibrous Homogeneous	70%	Glass	30% Non-fibrous (other)	None Detected
2-6-EL-68 031405535-0070	YELLOW ADHESIVE ASSOC W/ RED SPOTTED ORANGE CARPET - 018	Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
2-6-EL-69 031405535-0071	YELLOW ADHESIVE ASSOC W/ RED SPOTTED ORANGE CARPET - 018	Tan Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
2-6-EL-70 031405535-0072	9" X 9" GREEN LINE PATTERN FLOOR TILE - 019	Green Non-Fibrous Homogeneous			86% Non-fibrous (other)	14% Chrysotile
2-6-EL-71 031405535-0073	9" X 9" GREEN LINE PATTERN FLOOR TILE - 019			<u> </u>		Stop Positive (Not Analyzed)
2-6-EL-74 031405535-0076	9" X 9" DARK GREEN FLOOR TILE - 019	Green Non-Fibrous Homogeneous			87% Non-fibrous (other)	13% Chrysotile
2-6-EL-75 031405535-0077	9" X 9" DARK GREEN FLOOR TILE - 019					Stop Positive (Not Analyzed)

Analyst(s)

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EMSL Order: C CustomerID: E CustomerPO: ProjectID:

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	8 South Main Street	Received:	02/12/14 11:59 AM				
	Suite 3	Analysis Date:	3/6/2014				
	Terryville, CT 06786	Collected:	2/6/2014				
Projec	Project: 14-029.13T1/ BOROUGH OF NAUGATUCK/ 58 MAPLE STREET/ NAUGATUCK CT						

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				<u>Asbestos</u>		
ample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Туре
2-6-EL-76	BLACK	Black	30%	Glass	70% Non-fibrous (other)	None Detected
031405535-0078	LAMINATE FLOORING - 021	Fibrous Homogeneous				
2-6-EL-77	BLACK	Black	52%	Cellulose	48% Non-fibrous (other)	None Detected
031405535-0079	LAMINATE FLOORING - 021	Fibrous Homogeneous				
2-6-EL-78	BLACK MASTIC	Black	25%	Cellulose	75% Non-fibrous (other)	None Detected
031405535-0080	ASSOC W/ BLACK LAMINATE FLOORING - 021	Non-Fibrous Homogeneous				
2-6-EL-79	BLACK MASTIC	Black	35%	Cellulose	65% Non-fibrous (other)	None Detected
031405535-0081	ASSOC W/ BLACK LAMINATE FLOORING - 021	Fibrous Homogeneous				
2-6-EL-82	BLACK ASSOC	Black			50% Quartz	None Detected
031405535-0084	W/ BLACK RECTANGLE WALL TILE - 022	Non-Fibrous Homogeneous			50% Non-fibrous (other)	
2-6-EL-83	BLACK ASSOC	Black			100% Non-fibrous (other)	None Detected
031405535-0085	W/ BLACK RECTANGLE WALL TILE - 022	Non-Fibrous Homogeneous				
2-6-EL-84	BROWN GLUE	Yellow			100% Non-fibrous (other)	<1% Anthophyllite
031405535-0086	DAUB ASSOC W/ BLACK RECTANGLE WALL TILE - 022	Non-Fibrous Homogeneous				
			TEM RECO	OMMENDED		
nalyst(s)					/	mas All
lbert Grohmann (1)) Keri-L	Dean Scarlett (56)			James	Hall, Laboratory Manager
lenry Akintunde (37	7)					her approved signatory
esponsibility for sample or product certification, appro- recommends gravimetric re requested by the client, bu	collection activities or analytic oval, or endorsement by NVL eduction prior to analysis, Sa uilding materials manufacture	al method limitations. Inte AP, NIST or any agency of amples received in good of d with multiple layers (i.e. I	rpretation and f the federal g ondition unles linoleum, wall	l use of test results a overnment. Non-fria s otherwise noted. E board, etc.) are repo	reproduced, except in full, without written approve e the responsibility of the client. This report mus ble organically bound materials present a probler stimated accuracy, precision and uncertainty date ted as a single sample. Reporting limit is 1% Code 101048-9, NYS ELAP 11506, NJ NY022, C	t not be used by the client to claim n matrix and therefore EMSL a available upon request. Unless
Report Amended: 0	3/06/2014 10:13:23 F	eplaces the Inital R	eport 02/1	8/2014 18:47:3	1. Reason Code: Client-Change to A	opearance
			-			



EMSL Order: CustomerID: CustomerPO: ProjectID:

031405535 EEVM50

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	Terryville, CT 06786	Collected:	2/6/2014
Proje	ct: 14-029.13T1/ BOROUGH OF NAUGATUCK/ 58 MAPLE STREET/ N	AUGATUCK CT	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				sbestos	
Sample	Description	Appearance	%_Fi	ibrous	% Non-Fibrous	%	Туре	
2-6-EL-85	BROWN GLUE	Gray/Tan/Black			100% Non-fibrous (other)	<1%	Anthophyllite	
031405535-0087	DAUB ASSOC W/ BLACK RECTANGLE WALL TILE - 022	Non-Fibrous Homogeneous						
_ <u></u>	*·		TEM RECOM	MENDED				
2-6-EL-86	WHITE CAULK	White			35% Ca Carbonate		None Detected	
031405535-0088	ON TOP OF BLACK RECTANGLE WALL TILE - 022	Non-Fibrous Homogeneous			65% Non-fibrous (other)			
2-6-EL-87	WHITE CAULK	White			25% Ca Carbonate		None Detected	
031405535-9089	ON TOP OF BLACK RECTANGLE WALL TILE - 022	Non-Fibrous Homogeneous			75% Non-fibrous (other)			
2-6-EL-88	INTERIOR	Tan			65% Ca Carbonate		None Detected	
031405535-0090	WINDOW WHITE GLAZING COMPOUND - 022	Non-Fibrous Homogeneous			35% Non-fibrous (other)			
2-6-EL-89	INTERIOR	Tan			43% Ca Carbonate		None Detected	
031405535-0091	WINDOW WHITE GLAZING COMPOUND - 022	Non-Fibrous Homogeneous			57% Non-fibrous (other)			
2-6-EL-90	25" X 25" BLACK	Gray	3% (Cellulose	25% Quartz		None Detected	
031405535-0092	TERRAZZO FLOORING - 022	Non-Fibrous			32% Ca Carbonate			
	PLOURING - 022	Homogeneous			40% Non-fibrous (other)			

Analyst(s)

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James PALO

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EMSL Order: 03 CustomerID: EE CustomerPO: ProjectID:

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	8 South Main Street	Received:	02/12/14 11:59 AM
	Suite 3	Analysis Date:	3/6/2014
	Terryville, CT 06786	Collected:	2/6/2014
Projec	ht: 14-029.13T1/ BOROUGH OF NAUGATUCK/ 58 MAPLE STREET/ N.	AUGATUCK CT	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				<u>Non-Asl</u>	<u>Asbestos</u>		
ample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type	
2-6-EL-91	25" X 25" BLACK	Black			100% Non-fibrous (other)	None Detected	
031405535-0093	TERRAZZO FLOORING - 022	Non-Fibrous Homogeneous					
2-6-EL-94	9" X 9" GRAY	Gray			25% Quartz	None Detected	
031405535-0096	FLOOR TILE - 023	Non-Fibrous			20% Ca Carbonate		
		Homogeneous			55% Non-fibrous (other)		
2-6-EL-95	9" X 9" GRAY					Not Submitted	
031405535-0097	FLOOR TILE - 023						
2-6-EL-98	BLACK PAPER	Black	40%	Cellulose	60% Non-fibrous (other)	None Detected	
031405535-0099	UNDERNEATH WOOD FLOOR - 023	Fibrous Homogeneous					
2-6-EL-99	BLACK PAPER	Black	55%	Cellulose	45% Non-fibrous (other)	None Detected	
031405535-0100	UNDERNEATH WOOD FLOOR - 027	Fibrous Homogeneous					
2-6-EL-100	GRAY STAIR	Brown	36%	Cellulose	64% Non-fibrous (other)	None Detected	
031405535-0101	TREAD CERAMIC COVERING TILE - 025	Fibrous Homogeneous					
2-6-EL-101	GRAY STAIR	Brown/Tan	25%	Cellulose	75% Non-fibrous (other)	None Detected	
031405535-0102	TREAD CERAMIC COVERING TILE - 025	Fibrous Homogeneous					

Analyst(s)

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James Hall, Laboratory Manager or other approved signatory

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EMSL Order: 03 CustomerID: E CustomerPO: ProjectID:

Attn: Chris Liberti Eagle Environmental, Inc CT 8 South Main Street	Phone: Fax: Received: Analysis Date:	(860) 589-8257 (860) 585-7034 02/12/14 11:59 AM 3/6/2014					
Suite 3 Terryville, CT 06786	•	2/6/2014					
Project: 14-029.13T1/ BOROUGH OF NAUGATUCK/ 58 MAPLE STREET/ NAUGATUCK CT							

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				<u>Non-A</u> st	<u>pestos</u>	Asbestos	
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type	
2-6-EL-102 031405535-0103	BROWN ADHESIVE ASSOC W/ GRAY STAIR TREAD CERAM - TILE/ 025	Brown Fibrous Homogeneous	5%	Cellulose	95% Non-fibrous (other)	None Detected	
2-6-EL-103 031405535-0104	BROWN ADHESIVE ASSOC W/ GRAY STAIR TREAD CERAM - TILE/ 025	Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected	
2-6-EL-104 031405535-0105	9" X 9" BLACK AND GREEN CAMOUFLAGE FLOOR TILE - 026	Black Non-Fibrous Homogeneous			96% Non-fibrous (other)	4% Chrysotile	
2-6-EL-105 031405535-0106	9" X 9" BLACK AND GREEN CAMOUFLAGE FLOOR TILE - 026					Stop Positive (Not Analyzed)	
2-6-EL-106 031405535-0107	GREY PAPER UNDERNEATH WOOD FLOORING - 026	Gray Fibrous Homogeneous	85%	Cellulose	15% Non-fibrous (other)	None Detected	
2-6-EL-107 031405535-0108	GREY PAPER UNDERNEATH WOOD FLOORING - 026	Gray Fibrous Homogeneous	15% 55%	Synthetic Cellulose	30% Non-fibrous (other)	None Detected	

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

				<u>Non-A</u>	sbestos	A	sbestos
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	%	Туре
2-6-EL-108	9" X 9" BLACK	Black			86% Non-fibrous (other)	14%	Chrysotile
031405535-0109	FLOOR TILE - 027	Non-Fibrous Homogeneous					
2-6-EL-109	9" X 9" BLACK					Stop	Positive (Not Analyzed)
031405535-0110	FLOOR TILE - 027	,				·	
2-6-EL-112	EXTERIOR	White			60% Ca Carbonate		None Detected
031405535-0113	WINDOW WHITE GLAZING COMPOUND - FAÇADE A	Non-Fibrous Homogeneous			40% Non-fibrous (other)		
2-6-EL-113	EXTERIOR	White			55% Ca Carbonate		None Detected
031405535-0114	WINDOW WHITE GLAZING COMPOUND - FAÇADE A	Non-Fibrous Homogeneous			45% Non-fibrous (other)		
2-6-EL-114	EXTERIOR	Gray			45% Ca Carbonate	14%	Chrysotile
031405535-0115	WINDOW WHITE CAULK - FAÇADE A	Non-Fibrous Homogeneous			41% Non-fibrous (other)		
2-6-EL-115	EXTERIOR					Stop	Positive (Not Analyzed)
031405535-0116	WINDOW WHITE CAULK - FAÇADE A						
2-6-EL-116	EXTERIOR	Gray		, ,	98% Non-fibrous (other)	2%	Anthophyllite
031405535-0117	DOOR WHITE CAULK - FAÇADE A	Non-Fibrous Homogeneous					

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			<u>Non-Asbestos</u>			<u>Asbestos</u>	
Sample	Description	Appearance	%	Flbrous	% Non-Fibrous	% Type	
2-6-EL-117 031405535-0118	EXTERIOR DOOR WHITE CAULK - ROOF 1					Stop Positive (Not Analyzed	
2-6-EL-118 031405535-0119	GREY ASPHALT SHINGLE - ROOF 1	Black Fibrous Homogeneous	25%	Cellulose	75% Non-fibrous (other)	None Detected	
2-6-EL-119 031405535-0120	GREY ASPHALT SHINGLE - ROOF 1	Black Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected	
2-6-EL-120 031405535-0121	BLACK PEPPER UNDER GREY ASPHALT SHINGLE - ROOF 1	Black Fibrous Homogeneous	40%	Cellulose	60% Non-fibrous (other)	None Detected	
2-6-EL-121 031405635-0122	BLACK PEPPER UNDER GREY ASPHALT SHINGLE - ROOF 1	Black Non-Fibrous Homogeneous	25%	Cellulose	75% Non-fibrous (other)	None Detected	
2-6-EL-126 031405535-0127	GRAY PAPER INSULATION ASSOC W/ STYROFOAM - INSULATION/ ROOF 2	Gray Fibrous Homogeneous	75%	Cellulose	25% Non-fibrous (other)	None Detected	

Analyst(s)

Albert Grohmann (1) Henry Akintunde (37) Keri-Dean Scarlett (56)

James PALO

James Hall, Laboratory Manager or other approved signatory

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EMSL Order: CustomerID: CustomerPO: ProjectID: 031405535 EEVM50

Attn:	Chris Liberti Eagle Environmental, Inc CT 8 South Main Street	Phone: Fax: Received: Analysis Date:	(860) 589-8257 (860) 585-7034 02/12/14 11:59 AM 3/6/2014
	Suite 3 Terryville, CT 06786	Collected:	2/6/2014
Proje	ct: 14-029.13T1/ BOROUGH OF NAUGATUCK/ 58 MAPLE STREET/	NAUGATUCK CT	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			<u>Nor</u>	-Asbestos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
2-6-EL-127	GRAY PAPER	Gray	35% Cellulose	65% Non-fibrous (other)	None Detected
031405535-0128	INSULATION ASSOC W/ STYROFOAM - INSULATION/ ROOF 2	Fibrous Homogeneous			
2-6-EL-128	GRAY FLASHING	Brown		75% Non-fibrous (other)	25% Chrysotile
031405535-0129	CEMENT NEAR BASE & LOWER BRICK WALL - ROOF 2	Non-Fibrous Homogeneous			
2-6-EL-129	GRAY FLASHING	Black		55% Non-fibrous (other)	45% Chrysotile
031405535-0130	CEMENT AT WALL BASE - ROOF 3	Fibrous Homogeneous			
2-6-EL-130	BLACK	Black	30% Cellulose	66% Non-fibrous (other)	4% Chrysotile
031405535-0131	FLASHING @ PARAPET WALL CAP - ROOF 3	Fibrous Homogeneous			
2-6-EL-131	BLACK				Stop Positive (Not Analyzed
031405535-0132	FLASHING @ PARAPET WALL CAP - ROOF 3				
2-6-EL-132	BLACK BUILT UP	Black		98% Non-fibrous (other)	2% Chrysotile
031405535-0133	LAYERED ROOFING - ROOF 3	Fibrous Homogeneous			-

Analyst(s)

Albert Grohmann (1) Henry Akintunde (37) Keri-Dean Scarlett (56)

James PAU

James Hall, Laboratory Manager or other approved signatory

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EMSL Order: 031405535 CustomerID: EEVM50 CustomerPO: ProjectID:

Attn:	Chris Liberti	Phone:	(860) 589-8257	
	Eagle Environmental, Inc CT	Fax:	(860) 585-7034	
	8 South Main Street	Received:	02/12/14 11:59 AM	
	Suite 3	Analysis Date:	3/6/2014	
	Terryville, CT 06786	Collected:	2/6/2014	

Project: 14-029.13T1/ BOROUGH OF NAUGATUCK/ 58 MAPLE STREET/ NAUGATUCK CT

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos			<u>Asbestos</u>	
Sample	Description	Appearance		Fibrous	% Non-Fibrous	% Type	
2-6-EL-133 031405535-0134	BLACK BUILT UP LAYERED ROOFING - ROOF 3					Stop Positive (Not Analyzed)	
2-6-EL-134 031405535-0135	BLACK TAR ON WOOD ROOF DECK - ROOF 3	Black Fibrous Homogeneous			98% Non-fibrous (other)	2% Chrysotile	
2-6-EL-135 031405535-0136	BLACK TAR ON WOOD ROOF DECK - ROOF 3	_, / H				Stop Positive (Not Analyzed)	

Analyst(s)

Albert Grohmann (1) Henry Akintunde (37) Keri-Dean Scarlett (56)

James PAID

James Hall, Laboratory Manager or other approved signatory

17

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Report Amended: 03/06/2014 10:13:23 Replaces the Inital Report 02/18/2014 18:47:31. Reason Code: Client-Change to Appearance

Test Report PLM-7.28.9 Printed: 3/6/2014 10:13:23 AM



EAGLE PROJECT NAME: BOROUGH OF NAUGATUCK - PRE-DEMO HAZ

PROJECT LOCATION: 58 MAPLE STREET, NAUGATUCK, CONNECTICUT

PROJECT NUMBER: 14-029.13T1

LAB REFERENCE NUMBER: 031405535

TEM NOB Sample Request Form

SAMPLE NO,	LOCATION	MATERIAL TYPE	% ASBESTOS
2-6-EL-37	009	BLACK MASTIC ASSOC WITH 9" X9" FLOOR TILE	NAD
2-6-EL-84	022	BROWN GLUE DAUB ASSOC WITH BLACK RECTANGLE WALL TILE	NAD

TEST METHOD. TEM ELAP 198.4 METHOD

TURNAROUND TIME: 24 HOURS

Special Instructions: Stop on first positive for each set of samples. Please do not separate samples. Do not fax chain of custody.

Special Instructions: <u>Please e-mail results to:</u> bleblanc@eagleenviro.com; tfoster@eagleenviro.com; dwynne@eagleenviro.com; rsioch@eagleenviro.com

Samples Collected By:	ELTWAUN LAWRENCE	Date:	2-6-14	Time:	PM
Request Emailed By:	RENEE SIOCH	Date:	2-17-14	Time:	PM
Request Received By:		Date:		Time:	

****Please sign this chain of custody for our records. Thank You!

8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786 PHONE (860) 589-8257 • FAX (860) 585-7034



EMSL Order: CustomerID: CustomerPO: ProjectID: 031405535 EEVM50

	•		(,	
Attn:	Chris Liberti	Phone:	(860) 589-8257	
	Eagle Environmental, Inc CT	Fax:	(860) 585-7034	
	8 South Main Street Suite 3 Terryville, CT 06786	Received:	02/12/14 11:59 AM	
		Analysis Date	e: 2/18/2014	
		Collected:	2/6/2014	
Proje		58 MARI E STREET/ NAUGATUCK C	,	

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
2-6-EL-37	BLACK MASTIC ASSOC W/	Black	100	None	No Asbestos Detected
031405535-0037	9" X 9" FLOOR TILE ~ 009	Non-Fibrous Heterogeneous			
2-6-EL-84	BROWN GLUE DAUB	Brown	100	None	No Asbestos Detected
031405535-0086	ASSOC W/ BLACK RECTANGLE WALL TILE - 022	Non-Fibrous Heterogeneous			

Analyst(s)

Derrick Young (2)

James PALO

James Hall, Laboratory Manager or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tasted. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Samples analyzed by EMSL Analytical, Inc. New York, NY NYS ELAP 11506

Initial report from 02/15/2014 11:08:39

Test Report EPANOB-7.24.0 Printed: 2/18/2014 6:47:31 PM

APPENDIX 3

XRF LEAD-BASED PAINT INSPECTION REPORTS

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#02753 - 02/07/14 11:16

INSPECTION FOR: Mr. James R. Stewart Borough of Naugatuck 246 Rubber Avenue Naugatuck, CT 06770

PERFORMED AT: 58 Maple Street Naugatuck, CT 06770

INSPECTION DATE: 02/07/14

INSTRUMENT TYPE: R M D MODEL LPA-1 XRF TYPE ANALYZER Serial Number: 02753

ACTION LEVEL:

L: <u>1.0 mg/cm²</u>

OPERATOR LICENSE: 002250

Lead-based paint screen inspection at 58 Maple Street, Naugatuck, CT 06770.

SIGNED: Eltwan Samerice

Eltwaun Lawrence Lead Inspector / Risk Assessor Eagle Environmental, Inc. 8 South Main Street, Suite 3 Terryville, CT 06786

Date: 2/7/14

Report Date: Abatement Level: Report No. Total Readings: Job Started:	02/07/14 2/7/2014 1.0 S#02753 - 02/07/14 11:16 115 Actionable: 18 02/07/14 11:16 02/07/14 13:33
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58 Maple Street Naugatuck, CT 06770

Reading					Paint			Lead	
No.	Wall	Structure	Location	Member	Cond	Substrate	Color	(mg/cm²)	Mode
Exteri	or F	Room 001 Facad	le A			· . · · · · · · · · · · · · · · · ·			
111	A	Window	Far-L	Casing	I	Wood	white	>9.9	QM
110	А	Window	Far-L	Sash	E	? Wood	white	5.9	QM
109	A	Window	Rgt	Casing	P	Wood	white	>9.9	QM
Exteri	or F	toom 002 Facad	le D				<u> </u>		
112	D	Stairs	Far-L	Casing	E	? Metal	red	1.7	QM
Interi	or F	com 001 Numbe	er Only						
008	в	Door	Ctr		I	Wood	green	>9.9	QM
Interi	or R	loom 002 Numbe	er Only				· · · · · · · · · · · · · · · · · · ·		
009	-	Column	Ctr		Р	Metal	white	3.0	QM
014	С	Door	Rgt		Р	Wood	green	7.5	Qм
Interi	or F	toom 003 Numbe	er Only						
018	в	Door	Lft		Р	Wood	gray	>9.9	QM
Interi	or R	oom 004 Numbe	er Only						
020	Α	Wall	Ctr		I	Brick	white	>9.9	QM
019	в	Ceiling	Ctr		I	Brick	white	6.2	QM
022	в	Door	Ctr		P	Metal	gray	1.9	QМ
021	С	Wall	Ctr		I	Brick	white	>9.9	QM
Interi	or R	toom 014 Numbe	er Only						
060	С	Column	Ctr		P	Metal	beige	8.0	QM
Interi	or R	oom 018 Numbe	er Only						
076	в	Wall	U Lft		P	Plaster	beige	7.5	QM
075	С	Wall	U Rgt		P	Plaster	beige	3.3	QM
Interi	or R	oom 019 Numbe	er Only					•	
082	A	Wall	U Ctr		₽	Plaster	beige	6.8	QM
	or R	oom 021 Numbe	er Only						
089	A	Wall	U Lft		P	Plaster	beige	8.5	QM
		toom 027							
103	D	Wall	U Ctr		P	Plaster	beige	8.4	QМ
			End of	Readings -					

58 Maple Street Naugatuck, CT 06770

Readin					Paint			Lead	
No.	Wall	Structure	Location	Member	Cond	Substrate	Color	(mg/cm²)	Mode
Exte	rior R	oom 001 Faca	de A						
111	A	Window	Far-I	Casing	E	? Wood	white	>9.9	QM
110	A	Window	Far-I	Sash	E	? Wood	white	5.9	QM
109	A	Window	Rgt	Casing	P	Wood	white	>9.9	QM
Exte	rior R	oom 002 Faca	de D	·					
112	D	Stairs	Far-I	Casing	E	9 Metal	red	1.7	QM
Inte	rior R	oom 001 Numb	er Only		·				<u>_</u>
006	-	Ceiling	Ctr		I	Wood	white	0.1	QМ
005	A	Wall	Ctr		P	Concrete	white	0.1	QМ
800	в	Door	Ctr		I	Wood	green	>9.9	QМ
004	С	Wall	Ctr		Р	Brick	white	-0.2	Qм
007	D	Window	Ctr	Sash	Р	Wood	green	0.3	QМ
Inte	rior R	oom 002 Numb	ər Only						
010	_	Ceiling	Ctr		I	Wood	white	0.1	QM
011		Ceiling	Ctr	Beam	I	Wood	white	-0.1	QM
009	-	Column	Ctr		P	Metal	white	3.0	QМ
012	А	Wall	Ctr		Р	Concrete	white	0.0	Qм
013	в	Wall	Ctr		Р	Brick	white	-0.4	QM
014	с	Door	Rgt		P	Wood	green	7.5	QМ
Inte	rior R	oom 003 Numb	er Only						
017	-	Ceiling	Ctr		I	Wood	white	0.0	QМ
016	-	Column	Ctr		P	Wood	white	-0.1	QM
015	A	Wall	Ctr		Р	Brick	white	-0.2	QM
018	в	Door	Lft		Р	Wood	gray	>9.9	QМ
Inte	rior R	oom 004 Numb	er Only						
020	A	Wall	Ctr		I	Brick	white	>9.9	QM
019	в	Ceiling	Ctr		I	Brick	white	6.2	QМ
022	в	Door	Ctr		P	Metal	gray	1.9	QM
021	С	Wall	Ctr		I	Brick	white	>9.9	QM
_ Inter	rior R	oom 005 Numbe	er Only					<u>.</u>	<u> </u>
026	-	Ceiling	Ctr		₽	Wood	white	0.0	QМ
027	_	Ceiling	Ctr	Beam	P	Wood	white	-0.1	QM
025	-	Column	Ctr		Р	Metal	white	0.1	QM
023	А	Wall	Rgt		P	Concrete	white	-0.1	QМ
029	С	Pipe	Ctr		P	Metal	white	0.0	QM
024	С	Wall	Ctr		Р	Plaster	white	-0.4	QM

leadin No.	ig Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mod
028	D	Door	Ctr		P	Wood	green	0.0	QM
Inte	rior R	oom 007 Numbe	r Only						
031	-	Ceiling	Ctr		P	Plaster	beige	0.0	QМ
033	-	Stairs	Ctr	Stringers	P	Wood	green	0.2	QM
032	-	Stairs	Ctr	Risers	Р	Wood	green	0.2	ΩM
034	в	Door	Ctr		P	Wood	green	0.2	QМ
035	в	Door	Ctr	Casing	P	Wood	green	0.1	QM
030	С	Wall	Ctr	_	Р	Plaster	beige	0.1	QМ
Inte	rior R	oom 009 Numbe	r Only						
036	A	Wall	Ctr		P	Plaster	green	0.1	QМ
039	A	Window	Ctr	Casing	Р	Wood	green	0.1	QM
038	А	Window	Ctr	Sash	Р	Wood	green	-0.3	QМ
040	в	Door	Ctr		I	Wood	green	-0.4	QM
041	в	Door	Ctr	Casing	P	Wood	green	0.1	QM
037	С	Wall	Ctr		Р	Sheetrock	green	-0.1	QM
042	D	Radiator	Lft		P	Cast Iron	green	-0.2	QM
Inte	rior R	oom 011 Numbe	r Only						
043	A	Wall	Ctr		I	Sheetrock	beige	0.0	QM
044	в	Door	Ctr	Casing	P	Wood	beige	0.1	QM
045	D	Wall	Lft		Р	Plaster	beige	0.0	QM
046	D	Window	Lft	Casing	Р	Wood	beige	-0.3	QМ
047	D	Window	Lft	Sash	P	Wood	white	-0.3	QM
Inte	rior R	com 012 Numbe	r Only						
048	A	Wall	Ctr		P	Wood	beige	-0.5	QM
052	С	Crown Mldg	Ctr		I	Wood	beige	0.1	QМ
049	С	Wall	Ctr		P	Sheetrock	beige	-0.1	QМ
050	С	Door	Lft	Casing	Р	Wood	beige	-0.3	QM
051	С	Door	Lft		P	Wood	beige	-0.2	QM
Inte	rior R	oom 013 Numbe	r Only						
057	-	Ceiling	Ctr		P	Metal	white	-0.1	QM
053	A	Window	Ctr	Casing	P	Wood	brown	0.0	QM
054	A	Window	Ctr	Sash	P	Wood	white	0.0	QM
055	в	Door	Ctr	Casing	Р	Wood	brown	0.2	QM
056	В	Door	Ctr		P	Wood	brown	0.2	QM
		oom 014 Numbe	_						
059	С	Chair Rail	Ctr		I	Wood	beige	-0.1	QM
058	С	Wall	Ctr		P	Plaster	beige	-0.2	QM
060	С	Column	Ctr		₽	Metal	beige	8.0	QM
061	D	Wall	Ctr		Р	Plaster	beige	-0.2	QM
062	D	Window	Ctr	Casing	P	Wood	beige	0.0	QM
063	D	Window	Ctr	Sash	P	Wood	white	0.1	QM

Interior Room 015 Number Only

eadin	g				Paint			Lead	
No.	Wall	Structure	Location	Member	Cond	Substrate	Color	(mg/cm²)	Mode
065	в	Chair Rail	Lft		P	Wood	green	0.1	QM
070	в	Radiator	Rgt		P	Cast Iron	white	0.2	QМ
064	в	Wall	Lft		P	Plaster	green	-0.3	QM
066	в	Baseboard	Lft		P	Wood	green	-0.4	QМ
067	С	Wall	Ctr		P	Plaster	beige	-0.5	QМ
068	С	Door	Ctr	Casing	Р	Wood	beige	-0.1	QМ
069	D	Door	Lft		P	Wood	white	-0.1	QМ
	cior R	oom 016 Number	Only						
072	-	Column	Ctr		P	Metal	beige	-0.1	QМ
071	A	Wall	Ctr		P	Plaster	white	-0.1	QМ
073	в	Window	Lft	Casing	Р	Wood	green	0.0	QM
074	в	Window	Lft	Sash	I	Wood	white	-0.4	QМ
Inter	tior R	oom 018 Number	Only			····			
079	A	Window	Ctr	Casing	P	Wood	beige	0.0	QМ
080	A	Window	Ctr	Sash	I	Wood	white	-0.1	QМ
078	в	Wall	L Lft		P	Wainscot	beige	0.1	QМ
076	в	Wall	U Lft		P	Plaster	beige	7.5	QМ
077	С	Wall	L Rgt		P	Wainscot	beige	-0.1	QМ
075	С	Wall	U Rgt		Р	Plaster	beige	3.3	QM
081	D	Baseboard	Ctr		P	Wood	beige	0.0	QМ
Inter	cior R	oom 019 Number	Only						
083	A	Chair Rail	Ctr		P	Wood	beige	0,4	QМ
084	A	Wall	L Ctr		Р	Wainscot	beige	0.1	QM
082	A	Wall	U Ctr		P	Plaster	beige	6.8	QМ
085	D	Door	Ctr	Casing	P	Wood	beige	0.1	QМ
086	D	Door	Ctr		P	Wood	beige	0.0	QM
Inter	cior R	oom 020 Number	Only						
880		Ceiling	Ctr		P	Plaster	green	-0.1	QM
087	С	Wall	Ctr		I	Plaster	green	-0.2	QM
Inter	cior R	oom 021 Number	Only						
093	-	Ceiling	Ctr		P	Metal	white	0.2	QМ
090	A	Wall	L Lft		Р	Wainscot	beige	0.1	QМ
089	A	Wall	U Lft		P	Plaster	beige	8.5	QM
092	D	Wall	L Ctr		P	Wainscot	beige	0.3	QМ
091	D	Wall	U Ctr		P	Plaster	beige	-0.1	QM
Inter	ior R	oom 022 Number	Only						
094	A	Wall	U Ctr		Р	Plaster	white	0.5	QМ
095	в	Door	Lft	Casing	Р	Wood	white	0.1	QM
096	в	Door	Lft		Р	Wood	white	0.0	QМ
Inter	ior R	oom 023 Number	Only						
098	А	Chair Rail	Ctr		Р	Wood	green	0.2	QM
097	А	Wall	Ctr		P	Plaster	white	-0.4	QМ

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leadin	g				Paint			Lead	
No.	Wall	Structure	Location	Member	Cond	Substrate	Color	(mg/cm²)	Mode
099	С	Wall	Ctr		₽	Plaster	green	-0.2	QM
Inte	rior R	oom 024 Numb	er Only	- 11-1					
100	A	Wall	U Ctr		P	Plaster	beige	0.1	QМ
101	в	Door	Lft		P	Wood	white	-0.1	QМ
102	В	Door	Lft	Casing	P	Wood	white	-0.1	QМ
Inter	cior R	oom 027							
108	-	Ceiling	Ctr		P	Metal	white	0.0	QМ
105	в	Window	Ctr	Casing	P	Wood	beige	-0.3	QM
106	в	Window	Ctr	Sash	I	Wood	white	0.2	QМ
104	D	Wall	L Ctr		P	Wainscot	beige	-0.1	QM
103	D	Wall	U Ctr		P	Plaster	beige	8.4	QМ
107	D	Door	Rgt		Р	Wood	beige	0.0	QМ
Calil	oratio	n Readings							
001								0.9	TC
002								0.8	TC
003								0.8	TC
113								0.9	TC
114								0.9	TC
115								0.9	TC
			End of	Readings					

APPENDIX 4

LEAD WASTE CHARACTERIZATION LABORATORY REPORTS AND COMPUTATION TABLE

.

DEMOLITION WASTE CLASSIFICATION TCLP FIELD COMPUTATION TABLE 58 MAPLE STREET NAUGATUCK, CONNECTICUT

Сощинени	Whinkness (im)	illinelencess (M)	कारखा (SF))	- Walhrure ((CIE))	Dtensifiy ((Hos/ <u>CLP))</u>	Mass ((bs))	Toraks (His)	Poloconte off Rotal Weisse
Negative Plaster	0.50	0.042	5549	231.2	53	12254.0	12254.0	61%
Positive Plaster	0.50	0.042	1416	59.0	53	3127.0	3127.0	16%
Negative Sheetrock	0.50	0.042	1084	45.2	52.8	2384.8	2384.8	12%
Negative Roofing	0.50	0.042	1200	50.0	45	2250.0	2250.0	11%
			Tota	l Mass			20015.8	100%



Wednesday, February 19, 2014

Attn: Mr. Chris Liberti Eagle Environmental Inc. 8 South Main Street, Suite 3 © Terryville CT 06786

Project ID: BOROUGH OF NAUGATUCK 58 MAPLE ST Sample ID#s: BG09751

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Stille

Phyllis Shiller Laboratory Director

NELAC - #NY11301 CT Lab Registration #PH-0618 MA Lab Registration #MA-CT-007 ME Lab Registration #CT-007 NH Lab Registration #213693-A,B NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530 RI Lab Registration #63 VT Lab Registration #VT11301



Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

FOR:

Analysis Report

February 19, 2014

Attn: Mr. Chris Liberti Eagle Environmental Inc. 8 South Main Street, Suite 3 © Terryville CT 06786

Sample Informa	ation	Custody Inform	Custody Information		
Matrix:	SOLID	Collected by:		02/06/14	0:00
Location Code:	EAGLEENV	Received by:	SW	02/17/14	14:59
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:		Laboratory	Loboroton, Doto		

Laboratory Data

SDG ID: GBG09751 Phoenix ID: BG09751

SHOP 1311

02/17/14

Client ID: TC	LP COMPOSITE					
Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
TCLP Lead	< 0.10	0.10	mg/L	02/18/14	EK	SW6010
TCLP Metals Digestion	n Completed			02/18/14	1/1	SW3005
TCLP Extraction for M	etals Completed			02/17/14	Ι	EPA 1311

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

TCLP Sample Size Reduction

Project ID:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Completed

BOROUGH OF NAUGATUCK 58 MAPLE ST

Phyllis, Shiller, Laboratory Director February 19, 2014 Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report February 19, 2014

QA/QC Data

SDG I.D.: GBG09751

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 266928, QC Sample	No: BG0	9699 (BC	G09751)									
ICP Metals - TCLP Extraction	<u>on</u>											
Lead	BRL	38.3	40.7	6.10	106	97.0	8.9	NC	NC	NC	75 - 125	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director February 19, 2014

Wednesday, February 19, 2014 Criteria: None	Sample Criteria Exceedences Report					Page 1 of 1
State: CT SampNo Acode Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
*** No Data to Display ***						
Phoenix Laboratories does not assume responsibility for the data ensure the accuracy of the data (obtained from appropriate agen professional's responsibility to determine appropriate compliance	Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate combinance.	equested criteria conformance to th	exceedence. le criteria. It	s. All efforts a is ultimately tl	Ire made to ne site	
		·				

Temp (0 °C Pg of	Project P.O: 14 - 029.1371 Phone #: Fax #:		ALOG ST ALOG	5 (5 (2 (2) 2 (2) 2 (2) 2 (2) 2 (2) 2)									A Data Format MCP Certification Excel			A eSMART	<u>.</u>
CHAIN OF CUSTODY RECORD 587 East Middle Tumpike, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 845-0823 Client Services (860) 645-8726	Borough of Neugatuck (58 Magle Sti) Chris Liberti Brandy LeBinnc												ure CT	(Residential) CW Protection			State where samp
CHAIN UF UL 587 East Middle Turn naiit: info@phoenixlab Client Service	Project: Report to: Invoice to:	Analysis Request			78	E		ñ			5		Date T		Tumaround:	1 Day* 2 Days*	Standard Other * SURCHARGE APPLIES
, <u>,</u> ,	Ital, INC. 1 Svite3 1786	tion Date: 2/14/14	• ww=Waste Water 0=Other	Date Time Sampled Sampled	2/6114 pm	Wa 1119/2	ļ	2/6/14 PM			Wd h119/2					ples	<u>)</u> . 5
PHOENIX Environmental Laboratories, Inc.	Eagle Environmental, In 8 South Main Sty Suite Terryvilley CT 06786	Client Sample - Information - Identification	Matrix Code: Mater SW=Surface Water SW=Surface Water WW=Waste Water DW=Drinking Water SW=Surface Water WW=Waste Water SE=Sediment SL=Sludge S=Soil/Soil Water	Customer Sample Sample Identification Matrix	Wood S	TCLPA Negative Plaster S	0	laster S	TCLP C + C .	>	Roofing 5	TCLPE	Accepted by	amme Colucide	Comments, Special Requirements or Regulations:	rlease combine all samples (A-E) to form one composito	
PHC Environme	Customer: Address:	Sampler's <i>EX</i>	<u>Matrix Code:</u> DW=Drinking Wat SE=Sediment S	PHOENIX USE ONLY SAMPLE#	DGTSI								COL P	11	Comments, Specia	(A-E)	•

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APPENDIX 5

ABATEMENT AND CONSULTING COST ESTIMATE

HAZARDOUS MATERIALS ABATEMENT COST ESTIMATES BOROUGH OF NAUGATUCK 58 MAPLE STREET NAUGATUCK, CONNECTICUT

ASBESTOS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	U	NIT COST		TOT	AL COST	
PIPE INSULATION	39	\$	35.00	LF	\$	1,365.00	
RESIDUAL PIPE INSULATION	280	\$	35,00 1	LF	\$	9,800.00	
MUD PACK FITTING CEMENT	3	\$	100.00 1	EA	\$	300.00	
RESIDUAL MUD PACK FITTING CEMENT	110	\$	50,00 1	EA	\$	5,500.00	
FLOOR TILE	4,650	\$	5.00	SF	\$	23,250.00	
WOOD PANEL ADHESIVE	1,575	\$	5,00	SF	\$	7,875.00	
EXTERIOR CAULK	652	\$	8,00 1	LF	\$	5,216.00	
FLASHING CEMENT	165	\$	10.00	SF	\$	1,650.00	
BUILT UP ROOFING	925	\$	5,00	SF	\$	4,625,00	
TAR ON WOOD ROOF DECK	925	\$	7.00	SF	\$	6,475.00	
SUBTOTAL					\$	66,056.00	
ASBESTOS ABATEMENT CONTINGENCY					<u>\$</u>	6,605.60	
ASBESTOS TOTAL					\$	72,661.60	

LEAD BASED PAINT COST ESTIMATE

MATERIAL:PAINTED BRICK REMOVED DURING DEMOLITION

MATERIAL	QUANTITY	Uì	VIT COST	TOTAL COST		
LABOR	1	\$	500.00 DAY	\$	500.00	
DISPOSAL	2	\$	350.00 CU.YRD.	\$	700.00	
SUBTOTAL				\$	1,200.00	
LEAD DEMOLITION CONTINGENCY				<u>\$</u>	240.00	
LEAD DEMOLITION TOTAL				\$	1,440.00	

UNIVERSAL WASTE ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	U	NIT COST	TOTAL COST		
LIGHT TUBES DISPOSAL	2023	\$	1.00 LF	\$	2,023.00	
PCB BALLASTS	33	\$	5.00 EACH	\$	165.00	
LABOR	1	\$	500.00 DAY	\$	500.00	
SUBTOTAL				\$	2,688.00	
UNIVERSAL WASTE ABATEMENT CONTINGENCY				\$	268.80	
UNIVERSAL WASTE TOTAL				\$	2,956.80	

CHLOROFLUOROCARBONS ABATEMENT COST ESTIMATE

NO CHLOROFLUOROCARBON REMOVAL OR DISPOSAL REQUIRED IN THIS SCOPE OF WORK.,

HAZARDOUS MATERIALS ABATEMENT SUBTOTAL

\$ 77,058.40

HAZARDOUS MATERIALS CONSULTING COST ESTIMATE

CONSULTING COST	QUANTITY	UNIT COST	TO	TAL COST
ASBESTOS ABATEMENT SPECIFICATION	1	\$850.00 EACH	\$	850,00
LEAD ABATEMENT SPECIFICATION	1	\$550.00 EACH	\$	550.00
UNIVERSAL WASTE DISPOSAL SPECIFICATION	1	\$350.00 EACH	\$	350.00
FINAL VISUAL INSPECTIONS	4	\$400.00 DAY	\$	1,600.00
PROJECT MANAGEMENT	4	\$130.00 HOUR	\$	520,00
DOCUMENTATION REPORT	1	\$500.00 EACH	\$	500.00
SUBTOTAL			\$	4,370.00
CONSULTING CONTINGENCY			\$	437.00
CONSULTING TOTAL			\$	4,807.00
GRAND TOTAL			\$	157,483.80

APPENDIX 6

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EAGLE ENVIRONMENTAL INC. LICENSES AND LABORATORY CERTIFICATES

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	Certific	ate of T	raining	
	For si	ETWAUN LAWRUNC	E //2 Day	
Ż		Asbesto's Building Inspect Annual Refresher Trainin January 2, 2014		
	Regu RCSA 20 - requirements of th	was approved and given in acco lations for 6 onnecticut State A 440 J-9 and RCSA 20× 441 a exPA Revised MAP under TS Presented by	gencies nd meets the CA-Title II of 4/4/94.	
Ce	Myst 1204 North R rtificate Number: ABRF22727	ic Air Quality Consultan oad, Groton, CT 06340 Exam Gradel 80 Exam Date: 01/02/2014	(800) 247-7746 Expiration-Date: 01/02/2015	
् टा	Tistopher J. Eldent, CIH, CSP, RS		George Williamson, Training Director Richard Haffey, Training Director	
				4
, _ +	Name			
	ELTWAUN D LAWRENCE	·····		

License information

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ll iconeo Tyno		(martine and a second se	Granted Date		Licensure Actions or Pending Charges
Asbestos Consultant -Inspector	845	02/28/2014	05/09/2013	ELTWAUN D LAWRENCE	None

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CERT# L-500 - 150

CHEMSCOPE TRAINING DIVISION

LEAD INSPECTOR REFRESHER 8HOUR TRAINING CERTIFICATE

Eltwaun D. Lawrence

531 North Main Street, Bristol CT

Has attended an 8 hour course on the subject discipline on

06/20/2013 and has passed a written examination.

The above individual has successfully completed the above training course approved in accordance with the Department of Public Health Standards established pursuant to Section 20-477 of the Connecticut General Statutes.

Course syllabus includes all required topics of State of Connecticut DPH and EPA.

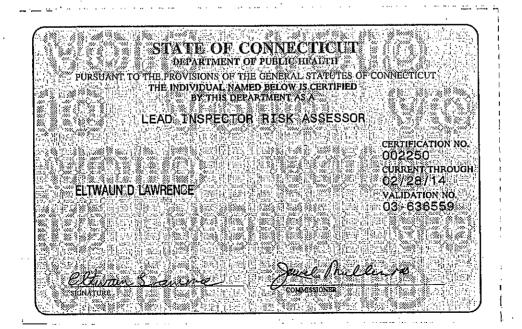
Examination Date: 06/20/2013

Expiration Date: 06/20/2014

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (U.S.C. 1001 and 15 U.S.C. 2615), I certify that this training complies with all applicable requirements of Title IV of TSCA, 40 CFR part 745 and any other applicable Federal, State, or local requirements.

Ronald D, Arena or Scott Arena Training Director Training Manager Chem Scope, Inc. 15 Moulthrop Street North Haven CT 06473 (203) 865-5605





ECULA DE CALENCE	AN, NY	WHO HAS BEEN DESIGNATED ORK COVERED BY THIS CERTIFICATE OF Jealth & Housing	1. es ver normerur of function Healt	October, 2012 CARLOR, MS AL HEALTH SECTION
Colleg & Concort of Fockley Depondent of Active Concort As been Approved by the state department	ALTH CODE AND GENERAL STATUTES OF CUMARCIAL OF ANTING BY THAT DEPARTMENT. AL, INC MANHANTAN, NY IN New York, NY 10018	Peter Frasca, Ph.D. James Hall IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF Environmental Health & Housing	 Examination For: Lead in Paint Lead Paint in Soil Lead in Dust Wipes NT-OUT FOR SPECIFIC TESTS APPROVED 	DAY DF October, 2012 DAY DF October, 2012 SUZANNE BLANCAFLOR, MS CHIEF, ENVIRONMENTAL HEALTH SECTION
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	Abbarded Earbarderla Laborator Laborator e laboratory described below has been approved by the state departm ovisions of the public health code and general statutes of connectici ions or tests specified below which have been authorized in writing by	LABORATORIES, Manchester, Connecticut O ffyn Chemistry) WHO HAS	ERED BY	JIL <u>KOVED</u> STATE DEPAI June , 2012	SUZANNE BLANCAFLOR, MS ENVIRONMENTAL HEALTH SECTION	1
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STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

STATE USE ONLY
Date
Received
Check #
Trans #
Entered

APPLICATION FOR ALTERNATIVE WORK PRACTICES

Please provide the following information as required by the Regulations of Connecticut State Agencies, Section 19a-332a-11. Be sure to note if there are any attachments. An incomplete application will result in a delayed response.

1. PROJECT DESIGNER INFORMATION										
Date of Applicat	ion A	pril 1	1, 2014							
Name of Project	Designer	·	Chris Liberti							· · · · · · · · · · · · · · · · · · ·
License # 00	0261	Lic	cense Expiration Da	ate	04-3	0-2014		Phone	;#: (860) 589-8257
Address Eagle Environmental, Inc.							······································			
City, State, Zip Code 8 South Main Street, Suite 3, Terryville CT 06786							۰			
Signature		17	Reft					'		
	· .		2. P	ROPE	ERTY INF	ORMATI	ON	· · ·		
Facility Owner	Lois Ann A	Acker	rman							· · · · · · · · · · · · · · · · · · ·
Address	53 Conrad	Stree	et. Naugatuck. CT	Γ				· · · · · ·		
Phone (203)	720-7070		Contact Person		M	r. Jame	es Ste	wart, Boroug	h of Nau	igatuck, DPW
Address of Facil	ity 146	Wal	nut Street			· · · · · · · · · · · · · · · · · · ·				
City, State and Z	Lip Code	N	laugatuck, CT 06	770						
		3. /	ASBESTOS ABATEMEI	лт Сс	ONTRAC	TOR INFO	ORMAT	I ON (IF KNOWN)		· · ·
Asbestos Abater	nent Contrac	tor	Not Yet Determin	ned					CT Lice	nse #
Address			u u							· · ·
City, State Zip C	ode									
Phone			Contact Person							
4. PROJECT SUMMARY										
Nature of Abater	nent		Renovation	X	Demo	lition		Both] .	
Type of Asbestos Abatement			Removal	\mathbf{X}	Enclo	sure		Encapsulatio	n= 🗌	Spot Repairs
Start Date (if known)										
Type and Amount of Asbestos Material Pertaining to AWP (Use additional attachment if necessary) fill in below										
Floor Tile (FT ²) Linoleum (FT ²)			əum <u>(</u> FT²)	Tr	ransite	(FT²)		Other No.	n-Friable	(specify)
147 - 0 - 111						<u> </u>				
Window Caulkin	g (LF)	Pipe	Insulation (LF)	Pij	pe Fitti.	ngs (ea	ch)			xify)
							•	whole bu	uilding de	emolition

Phone: (860) 509-7367, Fax: (860) 509-7378 Telephone Device for the Deaf (860) 509-7191 410 Capitol Avenue - MS #51-AIR P.O. Box 340308 Hartford, CT 06134 An Equal Opportunity Employer

5. DESCRIPTION OF FACILITY							
Building Data	Size	3328 SF	Age	1891	Facility Use	Residential	
Square Feet Estimate, if unknown							

6. SPECIFIC ALTERNATIVE WORK REQUEST

Section(s) and Subsections of the Standards for Asbestos Abatement regulation for which alternative work practice(s) is/are proposed:

19a-32a-5(b, c, d, e, h), 19a-332a-7(c), 19a-332a-12(a-g)

Description of Alternative Work Practice(s): Please provide additional information such as drawings, photographs, work plans or similar information in order to provide an accurate review. Please identify the specific work area/s of the facility.

Please see attached

DPH STAFF

Application Status

REALEWED/BYSA DATES APPROVED/DENIED/SET/ASIDE

MAIL COMPLETED FORM TO:

DEPARTMENT OF PUBLIC HEALTH - EHS 410 CAPITOL AVE, MS# 51 AIR PO BOX 340308 HARTFORD, CT 06134-0308

ALTERNATE WORK PRACTICE APPLICATION 146 WALNUT STREET NAUGATUCK, CONNECTICUT APRIL 11, 2014

The site building located at 146 Walnut Street in Naugatuck, CT is a two family residential building that has been vacant for many years and has fallen into disrepair. As identified in the attached letter from the Borough of Naugatuck Building Department dated August 29, 2007, portions of the building had collapsed, a hole in the roof was present and substantial debris was identified within the interior of the building.

On March 20, 2014, Eagle attempted to perform a pre-demolition asbestos containing materials inspection at the site but found that no improvements had been made to the building, access to building materials on the interior of the structure were extremely limited due to a large volume of stored materials and debris, the roof had not been repaired allowing water to infiltrate the building and cause flooring and some structural members to deteriorate (including the stairs to the second floor). Therefore, a complete and thorough inspection could not be performed safely within the structure.

At the time of the inspection, Town officials also examined the building. On March 28, the Building Department issued the attached letter identifying the building as an unsafe structure.

Requested Exemption

In lieu of the requirements of 19a-332a-5 (b, c, d, e and h), 19a-332a-7 (c) and 19a-332a-12 (a-g) of the State of Connecticut Standard for Asbestos Abatement, the designer requests the use of work area preparation in accordance with 19a-332a-5 (a) and (f). The designer requests the use of a visual inspection as building demolition progresses to document that ACM's are removed and the "no visible debris" criteria is met. The entire building, excluding the masonry foundation, metal components, appliances and large structural timbers that can be cleaned, will be disposed of as friable asbestos waste. A State of Connecticut licensed asbestos abatement project monitor will perform all visual inspections.

All abatement work will be in compliance with the Environmental Protection Agency (EPA) 40 CFR 61, Subpart M – National Emission Standard for Hazardous Air Pollutants; Asbestos NESHAP Revision; Final Rule.

Work Procedures

In lieu of the requirements of 19a-332a-5(b, c, d, e and h) and 19a-332a-7 (c) the designer requests that the following procedures be utilized for the building:

1. Work Area Preparation

- A. The Demolition Contractor will retain the services of a State of Connecticut licensed Asbestos Abatement Contractor (AAC) to perform asbestos related work associated with this project. An OSHA asbestos competent person shall be on site at all times during demolition, waste loading and final cleaning procedures.
- B. The Asbestos Abatement Contractor (AAC) shall post asbestos abatement warning signs and erect temporary barricades to create a regulated area around the entire building.
- C. The AAC shall establish a remote worker decontamination chamber. Post asbestos abatement warning signs in accordance with OSHA 29 CFR 1926.1101.
- D. The AAC shall create a staging area within the regulated area if segregating construction debris from ACM. The only construction materials that may be segregated are large wood framing timbers, non-porous metal components and concrete. The staging area shall consist of a minimum of sturdy nylon reinforced tarps staked at the corners to keep the tarp from lifting. Any cleaning of metal or large timbers shall be performed in the staging area. The Asbestos Project Monitor shall visually inspect metal components and large timbers for contamination following the cleaning process.
- E. The AAC shall line each waste container with two layers of 6-mil liner provided by waste hauler, or equivalent, and post each waste container with Asbestos Warning signs.
- F. The AAC shall provide and maintain water and hoses sufficient to perform adequate wetting to all portions of the structure.
- 2. Project Monitoring Requirements
- A. Eagle Environmental, Inc. has been retained to provide a State of Connecticut licensed Asbestos Project Monitor (APM) to support the work of this project.
- B. Eagle Environmental, Inc. will collect the following air samples during the demolition of the building.
 - 1. Upwind and downwind locations of the building at the perimeter of the proposed regulated area.
- C. Eagle Environmental, Inc. shall conduct a final visual inspection of the work area at the completion of abatement and decontamination work to determine if all visible debris, residue and or dust were successfully removed. Re-occupancy air monitoring shall not be conducted for this project.
- 3. Abatement and Demolition Procedures

- A. The AAC shall submit an emergency Notification of Asbestos Abatement to the State of Connecticut Department of Public Health no more than twenty-four hours from the commencement of work.
- B. The AAC shall dedicate one (1) person to conduct wetting operations during the demolition and segregation operation. This person shall continually mist the area of demolition to prevent visible emissions during the work. This person shall also be responsible for ensuring the waste is made adequately wet once in the waste container.
- C. The heavy equipment operator shall remove all debris and place directly into appropriate waste containers. All waste shall be disposed of as friable asbestos waste. Work from the perimeter of the building to avoid tracking over contaminated debris.
- D. All debris, except that noted above, shall be disposed of as asbestos contaminated waste.
- E. Following the removal of gross debris, the AAC shall conduct manual cleaning of the basement and surrounding area.
- F. The AAC shall conduct manual cleaning in the area of demolition and segregation once all heavy equipment work is completed. Soil areas surrounding the structure shall be raked clean of all debris and disposed of as asbestos contaminated waste.
- G. The work area shall be subjected to a final visual inspection by Eagle Environmental's licensed Asbestos Project Monitor in lieu of the requirements of and 19a-332a-12.



BOROUGH OF NAUGATUCK BUILDING DEPARTMENT

(° 12

229 Church Street • Naugatuck, CT 06770 • (203) 720-7035

August 29th, 2007

Lois Ann Ackerman 146 Walnut Street Naugatuck, CT. 06770

RE: 146 Walnut Street Naugatuck, Connecticut ORDER TO REPAIR OR DEMOLISH STRUCTURE

On August 29, 2007 the Naugatuck Building Department inspected 146 Walnut Street after obtaining an Administrative Search Warrant from the State of Connecticut Superior Court. The inspection revealed a collapsed rear roof and porch, a large hole in the main roof structure, blocked means egress, debris and trash three to four feet tall throughout the entire structure, and mold and the smell of decomposing matter.

Pursuant to section 116.1 (Imminent danger) of the State of Connecticut Building Code you are hereby ordered to demolish or repair the structure at 146 Walnut Street within 180 days from receipt of this order.

Pursuant to section R105.1 of the State of Connecticut Building Code permits shall be obtained prior to the start of any demolition work or reconstruction activities at the above referenced property.

Pursuant to section 112.1.2 of the State of Connecticut Building Code you may appeal this order to the State of Connecticut Building Inspector for review. The appeal shall be received in writing and state the grounds for the appeal. The appeal to the State Building Inspector shall be received within 5 days from the receipt of this order.

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Send appeal to:

Office of the State Building Inspector 1111 Country Club Road Middletown, Ct. 06457

Sincerely,

Bill Herzman Building Official Borough of Naugatuck



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March 28, 2014

James Stewart Public Works Director – Borough of Naugatuck 246 Rubber Avenue Naugatuck, CT. 06770

RE: 146 Walnut Street Naugatuck Connecticut Unsafe Structure

Mr. Stewart,

The Naugatuck Building Department deemed 146 Walnut Street Naugatuck Connecticut an unsafe and dangerous building due to partial structural failure and over loaded floor systems due to an abundance of debris pursuant to section 116.1 Imminent Danger portion of the State of Connecticut Building Code.

The structure has been open to the weather with a large hole in the roof for 15+ years. Structural members in the building have rotted and collapsed.

I recommend that you limit access to the building for the safety of the parties who will be working on site.

Sincerely,

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Bill Herzman Building Department Borough of Naugatuck

EAGLE ENVIRONMENTAL, INC 8 South Main Street Terryville, CT 06786

Project No.:14-029.12T1

Project Name: Borough of Naugatuck, 146 Walnut Street



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Project No.:14-029.12T1

Project Name: Borough of Naugatuck, 146 Walnut Street



Photo #5:

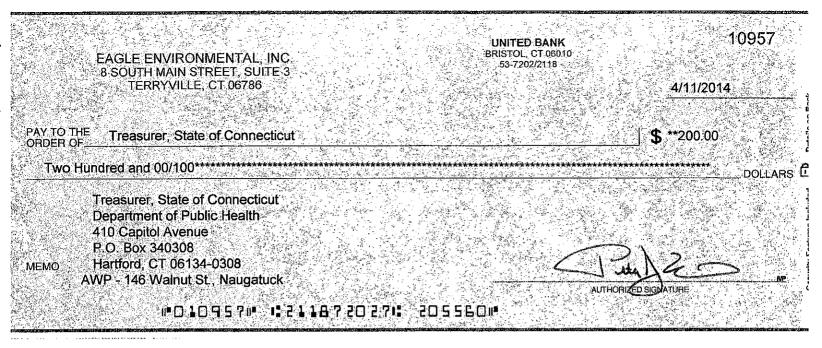
Collapsed ceiling joists





Photo #6 Damaged aircell insulation and stored materials in basement







Map Block Lot 17-79W10-45

Account

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0.58

000-1000

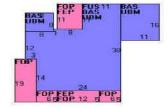
Property Information

Property Location	146 WALNUT ST	Fire District
Owner	ACKERMAN LOIS ANN	Census Tract
Co-Owner		Neighborhood
Mailing Address	53 CONRAD ST	Zoning Code
	NAUGATUCK CT 06770	Acreage
Land Use	1040 Two Family	Utilities
Land Class	R	Lot Setting/Desc

Photo







Primary Construction Details

Year Built	1891
Stories	2
Building Style	Multi Family
Building Use	Residential
Building Condition	С
Floors	Hardwood
Total Rooms	9

Bedrooms	3
Full Bathrooms	2
Half Bathrooms	0
Bath Style	Old Style
Kitchen Style	Below Average
Roof Style	Gable
Roof Cover	Asphalt

Exterior Walls	Wood Shingle
Interior Walls	Plaster
Heating Type	Forced Hot Air
Heating Fuel	Oil
АС Туре	None
Gross Bldg Area	3328
Total Living Area	1840



Valuation Summary (Assessed value = 70% of Appraised Value)

ltem	Appraised	Assessed
Buildings	13330	9330
Outbuildings	1060	740
Improvements	14390	10070
Extras	0	0
Land	63030	44120
Total	77420	54190

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
First Floor	1040	1040
Porch, Enclosed	137	0
Porch, Open	311	0
Upper Story, Finished	800	800
Basement, Unfinished	1040	0
Total Area	•	

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
ACKERMAN LOIS ANN	877/ 491	10/27/2010	
ACKERMAN LOIS ANN	184/ 352	10/28/1974	0
ACKERMAN LOIS ANN	124/ 508	1/2/1959	0

Outbuilding and Extra Items

Description	
440 S.F.	

Account 000-1000