

PRE-DEMOLITION INVESTIGATIVE SURVEY REPORT
FOR HAZARDOUS BUILDING MATERIALS

8 OLD ROAD
DORCHESTER, MA

Prepared for:

Department of Neighborhood Development
26 Court Street
Boston, Massachusetts 02108

Inspection Date: August 21, 2012
Report Submitted: September 13, 2012

Prepared By:



2 Liberty Square, 6th floor
Boston, MA 02109

TRC Project Number: 178226.0000.00010

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FOR HAZARDOUS BUILDING MATERIALS

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Department of Neighborhood Department
26 Court Street
Boston, Massachusetts 02108

Prepared by:



Paul J. Manna
Building Science, Practice Leader



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1.0 PROJECT OUTLINE

Project Address: **8 Old Road
Dorchester, MA**

TRC Project No.: **178226.0000.000010**

TRC Project Manager: **Paul Manna**

Asbestos Inspector: **Paul Manna (LIC # AI054364)**

Dates of Inspection: **August 21, 2012**

Building/Construction Type: **Garage & Office Space/
Concrete Block, Concrete floor**

Construction Date(s): **Unknown**

No. Floors: **1**

Finished Floor Space: **Approximately 950 square feet**

Asbestos Identified: **Yes**

Lead-Based Paint Identified: **Yes**

Polychlorinated Biphenyls **No**

Additional Hazardous/Regulated Materials: **Yes**

2.0 BUILDING SURVEY INSPECTION, SAMPLING, RESULTS, AND RECOMMENDATIONS

On August 21st, 2012 TRC Environmental Corporation (TRC) conducted a pre-demolition hazardous building materials survey at 8 Old Road in Dorchester, Massachusetts (the "Site"). The Site building is a small abandoned garage/office and is a one-level structure encompassing approximately 950 square feet. The building is constructed of concrete blocks with concrete floors. There is 1 contiguous roof top which is constructed of gravel and tar. The Site is currently abandoned and is owned by the City of Boston.

The purpose of this assessment was to evaluate the presence of asbestos-containing materials (ACM), lead-based paint (LBP), Polychlorinated Biphenyls (PCBs) and other hazardous/regulated materials throughout this building that will require remediation and disposal prior to future building demolition activities. Following identification, TRC inventoried and quantified these materials to assist in developing preliminary abatement cost estimates.

This investigative survey was performed at the request of the City of Boston, Department of Neighborhood Development (DND) for informational purposes to assist in the design for future demolition activities. The survey was performed in accordance with U.S. Environmental Protection Agency (USEPA) Asbestos Hazard Emergency Response Act (AHERA) (40 CFR Part 763 Subpart E) sampling guidelines, as well as Occupational Safety and Health Administration (OSHA) Asbestos and Lead Construction Standards, and USEPA/Massachusetts Department of Environmental Protection (MassDEP)/Massachusetts Department of Safety (MADOS) PCB waste disposal requirements. Destructive means were utilized to attempt to gain access to hidden or inaccessible areas such as pipe chases, wall voids, sub floors or ceiling cavities within the Site building.

Reasonable measures were taken to sample normally suspect ACM within the inspection areas. The survey is representative only of items present as of the date of the survey. The survey did not include hazardous materials associated with potential underground contamination or structures, underground storage tanks/vaults, oil/water separators or hydraulic lifts.

A circular abandoned lift was observed in the center of the garage. It appears the piston has been removed and the cavity has been filled in with sand. Observations should be made during the removal of the concrete floor slab to confirm no hydraulic fluid is present in this area.

This assessment has revealed the presence of building materials containing asbestos, lead based paint and hazardous/regulated materials throughout the Site building. A summary of TRC's August 21st, 2012 inspection findings are presented in the following subsections.

2.1 Asbestos-Containing Materials (ACM)

Following an initial visual inspection of accessible building areas, a Massachusetts-licensed Asbestos Inspector from TRC collected 38 bulk samples of homogeneous building materials suspected to contain asbestos and analyzed 35 of these samples. The samples were delivered under proper chain of custody to AEC Laboratories, LLC in Weymouth, MA (a MA License AA000197 and AIHA Proficient) for asbestos fiber analysis via polarized light microscopy (PLM) in accordance with the EPA Method 600/M4-82-020 and 600/R-93/116. Materials containing greater than one (1) percent asbestos were considered confirmed ACM, while materials containing one (1) percent asbestos or less, or in which no asbestos was identified were considered not ACM. TRC attempted to obtain building floor plans from city officials to assist in identifying general locations of suspect ACM samples collected during the survey, but none were available. Every attempt has been made to provide detailed sample location descriptions which are provided in Tables 1 and 2.

Analytical results revealed the presence of asbestos in roofing material and window glazing in the rear of the building. The condition of ACM observed within the building was in fair to poor condition. A summary of all asbestos survey laboratory results are provided in Tables 1 and the asbestos containing materials, quantities and remediation cost estimates are listed in Table 2. Copies of laboratory and asbestos inspector accreditations are provided in Appendix A. A copy of the asbestos analytical data reports are provided in Appendix B and copies of completed chain of custody forms are provided in Appendix C.

2.1.1 Recommendations

TRC recommends the following:

1. Prior to the start of any renovation/demolition activities, a Massachusetts DOS certified Project Designer should prepare a work plan/specification for abatement of all ACM that may be disturbed by renovation or demolition activities.
2. In accordance with USEPA Regulation 40 CFR 61.145 (*Standard for Demolition and Renovation*), all regulated ACM must be removed from a facility prior to the start of renovation or demolition activities if the materials may be disturbed by these activities. A licensed asbestos removal contractor should remove identified ACM from the building prior to renovation/demolition activities in accordance with OSHA, USEPA, MADOS, and MassDEP standards for asbestos abatement/disposal.
3. Additional ACM may be present in inaccessible areas such as within mechanical and electrical components, beneath floor and behind walls, buried areas, etc. If additional suspect ACM is encountered during building renovation, or demolition activities, precautions should be taken to prevent disturbance of the material and bulk sampling and laboratory analysis should be performed to determine asbestos content.

2.2 Lead-Based Paint (LBP)

TRC collect 5 paint samples for the presence of lead based paint. Most surfaces were not painted however various painted surfaces were observed. These paint samples were submitted to EMSL in Cinnaminson, NJ (a MADOS accredited, AIHA Proficient laboratory and a NVLAP accredited lab, Code No. 101048-0) for analysis by atomic absorption spectrometry (AAS) to determine the percentage of lead in these paints. The paints sampled were determined to contain between 0.075 % and 1.0% lead by weight. Based on these results, during demolition any paints should assume to contain some lead and treated accordingly when workers come in contact with the demolition debris. All contractors dealing with these materials must comply with the requirements cited in OSHA's Lead in Construction Standard 29 CFR 1926.62.

2.2.1 Recommendations

TRC recommends the following:

1. Renovation or demolition activities must be performed in accordance with OSHA lead regulation 29 CFR 1926.62, which contains requirements for protecting workers from lead exposure. Special work practices and engineering controls should be utilized during demolition/renovation activities to prevent airborne lead emissions.
2. Waste disposal of lead-containing construction and demolition (C&D) debris is subject to regulation under USEPA Resource Conservation Recovery Act (RCRA) Hazardous Waste Management standards and MassDEP Hazardous Waste Regulations, 310 CMR 30.000. Accordingly, produced waste streams must be sampled for waste characterization purposes prior to disposal. This can be accomplished by performing the toxicity characteristic leaching procedure (TCLP) or using other methods that accurately characterize the lead content of such waste.
3. In an effort to promote waste minimization, metal components should be recycled rather than disposed of, as the recycling of scrap metal (regardless of lead paint content) is exempt from the USEPA RCRA and MassDEP Hazardous Waste Regulations.

2.3 Polychlorinated Biphenyls (PCBs)

TRC conducted a visual inspection and physical assessment, for caulking or other products that may be PCB-containing. No suspected materials were observed and no samples were collected during this inspection for the presence of PCBs.

If any materials are uncovered during renovation or demolition, bulk samples should be collected following a sample strategy similar to the EPA's simplified sampling scheme

for ACM and analyzed via EPA method 8082, with EPA Method 3540c, Soxhlet Extraction.

2.4 Additional Hazardous and Regulated Materials

TRC conducted a visual inspection to identify and quantify other potentially hazardous and regulated materials throughout the Site building that may require special handling prior to future demolition activities. Identified items included universal waste fluorescent bulbs (potentially containing mercury), fluorescent light fixture ballasts (potentially containing PCBs), air handling units (potentially containing PCB capacitors and refrigerants), and a possible hydraulic lift (potentially containing hydraulic fluid). Following inventory procedures, TRC categorized these items according to their potential hazard. A summary of hazardous and regulated materials identified during the survey is provided in Table 4.

2.4.1 Recommendations

TRC recommends the following:

1. All mercury-containing devices should be removed from the Site building prior to the start of renovation/demolition activities. Mercury containing devices such as mercury thermostats that are removed from the building should be treated by retort and distillation processes to recover and recycle the elemental mercury at a USEPA-permitted facility. Maintenance personnel or contractors removing thermostats from the Site building should use caution not to break the glass ampoules containing elemental mercury. In the event that mercury is released from a broken ampoule, access to the spill area should be restricted to an experienced mercury decontamination contractor.
2. Spent fluorescent lamps should be stored in containers specially designed for the intact storage of fluorescent lamps. Care should be taken not to break fluorescent lamps. Storage boxes should be labeled with the date that lamps were first placed in the box. Properly packaged fluorescent lamps may be stored for up to one year in a secure building location. Spent lamps should be disposed at an authorized lamp recycler, hazardous waste transporter, or other universal waste handler within one year of the date marked on the storage containers.
3. Fluorescent light fixture ballasts located throughout the building should be assumed to contain liquid PCBs and handled and disposed of in accordance with all federal, state and local regulations.
4. All paints, thinners, adhesives and other listed hazardous wastes should be packaged by trained and licensed personnel and disposed of in accordance with all federal, state and local regulations.

CONCLUSIONS

Based upon the hazardous building materials inspection and sampling performed by TRC at 8 Old Road in Dorchester, ACM was identified in limited materials in this building as well as roofing material. Lead based paint and additional hazardous and regulated materials were also identified in the Site building. Estimated quantities and cost estimates of ACM are provided in Table 2.

Table 1: Summary of Asbestos Bulk Sample Results
 8 Old Road
 Dorchester, Massachusetts

Sample No.	Location	Material Description	Analytical Results
0821-01A	Exterior Facade	Black Waterproofing	NAD
0821-01B	Exterior Facade	Black Waterproofing	NAD
0821-02A	Exterior Block Glass Seam	Mortar	NAD
0821-02B	Exterior Block Glass Seam	Mortar	NAD
0821-03A	Roof Perimeter	Felt	20% Chrysotile
0821-03B	Roof Perimeter	Tar	NA/PS
0821-04A	Roof Perimeter	Felt	10% Chrysotile
0821-04B	Roof Perimeter	Tar	NA/PS
0821-05A	Roof Field	Felt	NAD
0821-05B	Roof Field	Tar	NAD
0821-06A	Roof Field	Felt	NAD
0821-06B	Roof Field	Tar	NAD
0821-07A	Garage Wall	White Skim Coat	NAD
0821-07B	Garage Wall	Gray Base Coat	NAD
0821-08A	Garage Wall	White Skim Coat	NAD
0821-08B	Garage Wall	Grey Base Coat	NAD
0821-09A	Garage Ceiling	White Skim Coat	NAD
0821-09B	Garage Ceiling	Grey Base Coat	NAD
0821-10A	Office	Paneling Adhesive	NAD
0821-10B	Office	Paneling Adhesive	NAD
0821-11A	Office	Sheetrock	NAD
0821-11B	Office	Sheetrock	NAD
0821-12A	Office	Red Floor Tile	NAD
0821-12B	Office	Red Floor Tile	NAD
0821-13A	Office	Mastic	NAD
0821-13B	Office	Mastic	NAD
0821-14A	Office	Linoleum	NAD
0821-14B	Office	Linoleum	NAD
0821-15A	Office	Mastic	NAD
0821-15B	Office	Mastic	NAD
0821-16A	Office	Ceiling Tile	NAD

Table 1: Summary of Asbestos Bulk Sample Results
 8 Old Road
 Dorchester, Massachusetts

Sample No.	Location	Material Description	Analytical Results
0821-16B	Office	Ceiling Tile	NAD
0821-17A	Back Room	Window Glazing	2% Chrysotile
0821-17B	Garage	Window Glazing	NA/PS
0821-18A	Office Behind Paneling and Masonry Wall	Black Mastic	NAD
0821-18B	Office Behind Paneling and Masonry Wall	Black Mastic	NAD
0821-19A	Office Wall	Sheetrock	NAD
0821-19B	Office Wall	Sheetrock	NAD

Notes:

NA/PS- Not analyzed/positive stop, homogeneous to sample proven to contain asbestos.

NAD-No Asbestos Detected

Table 2: Identified Asbestos-Containing Materials (>1%)
 8 Old Road
 Dorchester, Massachusetts

Sample ID	Location	Material Description	NESHAP Category	AHERA Category	Estimated Quantity	Abatement Cost
0821-03A & 0821-04A	Roof Perimeter	Felt	Category I non-friable	Miscellaneous	950 SF	\$2,500
0821-17A	Back Room	Window Glazing	Category II non-friable	Miscellaneous	72 LF (three Windows)	\$900
					Estimated Total Budget	\$3,400

Notes: LF-Linear feet
 SF-Square feet

Table 3: Summary of Additional Hazardous/Regulated Materials
 8 Old Road
 Dorchester, Massachusetts

General Location	Quantity	Item Description	Potential Hazardous Material
Throughout	7	Fluorescent light bulbs	UW-Hg lamps
Throughout	9	Ballasts	PCBs
Parking lot	1	Lighted sign or Exit Light Sign	UW-Hg lamp
Office	1	Air Conditioning Unit	Freon
Exterior	2	Light Bulbs	UW-Hg lamp

UW – Universal Waste (batteries, thermostat ampoules, fluorescent lamps, used electronics)
 CFCs – Chlorofluorocarbons

Table 4: Summary of Lead Based Paint Results

8 Old Road
 Dorchester, MA

Sample Number	General Sample Location	Type Material	Lead Concentration % wt
821Pb01	Garage	Blue/Green paint	1.0
821Pb02	Garage	Aqua paint	0.088
821Pb03	Garage	Gray paint	0.17
821Pb04	Garage	White paint	0.075
821Pb05	Garage	Green paint	0.093

% wt-Percentage by weight

APPENDIX A

LABORATORY AND INSPECTOR ACCREDITATIONS



THE COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF LABOR
DIVISION OF OCCUPATIONAL SAFETY
19 STANFORD STREET, BOSTON, MASSACHUSETTS 02114

CERTIFICATION FOR ASBESTOS ANALYTICAL SERVICES

AEC LABORATORIES, LLC
810 BROAD STREET
WEYMOUTH MA 02189

LICENSE: AA000197 EXPIRES: Tuesday, March 27, 2012

IN ACCORDANCE WITH MGL CH. 149 § 6B AND 453 CMR 6.08 THIS CERTIFICATE IS ISSUED BY THE DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT, DIVISION OF OCCUPATIONAL SAFETY TO PROVIDE THE ASBESTOS ANALYTICAL SERVICES SPECIFICALLY LISTED BELOW:

- CLASS C CERTIFICATE
- CLASS B CERTIFICATE

Heather E. Rowe

HEATHER E. ROWE, ACTING COMMISSIONER

AIHA

Laboratory Accreditation
Programs, LLC

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Laboratory ID: 100194

has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC thereby conforming to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories*. The above named laboratory, along with all premises from which key activities are performed, as listed above, have been accredited by AIHA-LAP, LLC in the following:

LABORATORY ACCREDITATION PROGRAMS

- INDUSTRIAL HYGIENE Accreditation Expires: July 01, 2012
- ENVIRONMENTAL LEAD Accreditation Expires: July 01, 2012
- ENVIRONMENTAL MICROBIOLOGY Accreditation Expires: July 01, 2012
- FOOD Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current scope of accreditation.



Dave Sandusky, CIH
Chairperson, Analytical Accreditation Board

Date Issued: 07/01/2010



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

EMSL Analytical, Inc.
107 Haddon Avenue, Westmont, NJ 08108

Laboratory ID: 100194
Issue Date: 07/01/2010

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or revocation. A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 01/18/1995

Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
Airborne Dust	NIOSH 7082	
Paint	EPA SW-846 3050B	
	EPA SW-846 7420	
Settled Dust by Wipe	EPA SW-846 3050B	
	EPA SW-846 7420	
Soil	EPA SW-846 3050B	
	EPA SW-846 7420	

The laboratory participates in the following AIHA-LAP, LLC-
approved proficiency testing programs:

- √ Paint
- √ Soil
- √ Settled Dust by Wipe
- √ Airborne Dust

Commonwealth of Massachusetts
Department of Labor Standards

Heather E. Rowe, Director
Asbestos Inspector



PAUL J. MANNA

Eff. Date 04/09/12
Exp. Date 04/09/13
AI054364
Member of C.O.N.E.S.
BSR

13

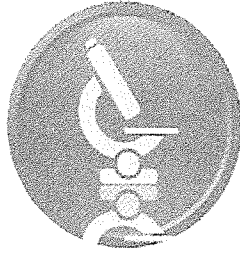


BOSTON RENEW



APPENDIX B

POLARIZED LIGHT MICROSCOPY (PLM) LABORATORY ANALYTICAL DATA



AEC Laboratories, LLC

MA License: AA000197
CT License: PH-0124
VT License: AL877888

RI License: AAL-112A1
ME License: LB-0074

August 22, 2012

Client Name and Address:

TRC Solutions
31 Milk Street 11th Floor
Boston, MA 02109

Re: Bulk Asbestos Results from 178226.0000.000010
8 Old Rd.; Dorchester, MA
Client Project Number: 178226.0000.000010

AEC Laboratory Number: **04435.00**

Dear Paul Manna,

We at AEC Laboratories, LLC would like to thank you for your recent business. 38 sample(s) were received on 08/21/2012 from a job located at 8 Old Rd.; Dorchester, MA for 48 Hour Turn Around Time. The final report is enclosed for the aforementioned samples.

Please note that this report conforms to all applicable State and Federal requirements. AEC Laboratories, LLC follows prescribed procedures for the analysis of bulk materials to identify and quantify asbestos type and content.

These results only pertain to this job and should not be used in the interpretation of any other job. This report may be reproduced only in its entirety.

If you have any questions please do not hesitate to call me at the number below.

Regards,

Steven Grevelis
Laboratory Manager

Enclosures:

- Analytical results
- Chain of Custody
- Client Communications and/or Project Unconformities (If Applicable)



810 Broad Street - Weymouth, MA 02189 - Ph. 781.337.0567

Client: TRC Solutions
31 Milk Street 11th Floor
Boston, MA 02109

AEC Laboratories Project Number: 04435.00
Client Project Number: 178226.0000.00
0010

Attention: Paul Manna
Phone: 617-350-3444 **Fax:** 617-350-3443
Re: 178226.0000.000010

Date Sampled: 8/21/2012
Date Received: 8/21/2012
Date Analyzed: 8/22/2012
Date Reported: 8/22/2012

8 Old Rd.; Dorchester, MA

Client		Analysis by EPA Method 600/R-93/116							
Sample/ HA ID	Laboratory Sample ID	Location	Description	Asbestos Type(s)	Asbestos %	Other Materials	Other %	Asbestos Present	Total Asbestos %
0821 - 01A	04435-01	Exterior Facade	Black, Homogenous, Black Waterproofing			Nonfibrous	100	No	NAD

Analyzed by: VS Date Analyzed: 8/22/12

0821 - 01B	04435-02	Exterior Facade	Black, Homogenous, Black Waterproofing			Nonfibrous	100	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 02A	04435-03	Exterior Block Glass Seam	Grey, Heterogeneous, Mortar			Cellulose Nonfibrous	<1 100	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 02B	04435-04	Exterior Block Glass Seam	Grey, Heterogeneous, Mortar			Cellulose Nonfibrous	<1 100	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 03A	04435-05	Roof Perimeter	Black, Heterogeneous, Felt	Chrysotile	20	Cellulose Fibrous Glass Nonfibrous	25 2 53	Yes	20
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Analyzed by: VS Date Analyzed: 8/22/12

Reporting Notes: NAD = "No Asbestos Detected" PS = "Positive Stop" PR = "Present" <1% = Trace Due to inherent Polarized Light Microscope limitations, fibers and/or bundles below the resolution of the light microscope (approximately <25 microns in width) will not be detected. "NAD" and "Trace" samples should be confirmed by Transmission Electron Microscopy. AEC Laboratories, LLC (AEC) maintains liability limited to cost of analysis only. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by AEC. AEC is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client. AEC retains all samples for thirty (30) days after reporting. After this period AEC will dispose of all samples according to all local, state, and federal guidelines, unless requested in writing by the client. All results are expressed as a percentage based on Calibrated Visual Estimate (CVE), unless otherwise noted. Distinct layers are noted by .1, .2, etc. suffixes to lab ID.



810 Broad Street - Weymouth, MA 02189 - Ph. 781.337.0567

Client: TRC Solutions
31 Milk Street 11th Floor
Boston, MA 02109

AEC Laboratories Project Number: 04435.00
Client Project Number: 178226.0000.00
0010

Attention: Paul Manna
Phone: 617-350-3444 **Fax:** 617-350-3443
Re: 178226.0000.000010

Date Sampled: 8/21/2012
Date Received: 8/21/2012
Date Analyzed: 8/22/2012
Date Reported: 8/22/2012

8 Old Rd.; Dorchester, MA

Analysis by EPA Method 600/R-93/116

Client Sample/ HA ID	Laboratory Sample ID	Location	Description	Asbestos Type(s)	%	Other Materials	%	Asbestos Present	Total Asbestos %
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0821 - 03B	04435-06	Roof Perimeter	Tar						PS
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0821 - 04A	04435-07	Roof Perimeter	Black, Heterogeneous, Felt	Chrysotile	10	Cellulose Nonfibrous	40 50	Yes	10
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 04B	04435-08	Roof Perimeter	Tar						PS
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0821 - 05A	04435-09	Roof Field	Black, Heterogeneous, Felt			Cellulose Fibrous Glass Nonfibrous	45 <1 55	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 05B	04435-10	Roof Field	Black, Heterogeneous, Tar			Nonfibrous	100	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

Reporting Notes: NAD = "No Asbestos Detected" PS = "Positive Stop" PR = "Present" <1% = Trace Due to inherent Polarized Light Microscope limitations, fibers and/or bundles below the resolution of the light microscope (approximately <.25 microns in width) will not be detected. "NAD" and "Trace" samples should be confirmed by Transmission Electron Microscopy. AEC Laboratories, LLC (AEC) maintains liability limited to cost of analysis only. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by AEC. AEC is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client. AEC retains all samples for thirty (30) days after reporting. After this period AEC will dispose of all samples according to all local, state, and federal guidelines, unless requested in writing by the client. All results are expressed as a percentage based on Calibrated Visual Estimate (CVE), unless otherwise noted. Distinct layers are noted by .1, .2, etc. suffixes to lab ID.



Client: TRC Solutions 31 Milk Street 11th Floor Boston, MA 02109	AEC Laboratories Project Number: 04435.00
	Client Project Number: 178226.0000.00 0010
Attention: Paul Manna	Date Sampled: 8/21/2012
Phone: 617-350-3444	Date Received: 8/21/2012
Fax: 617-350-3443	Date Analyzed: 8/22/2012
Re: 178226.0000.000010	Date Reported: 8/22/2012
8 Old Rd.; Dorchester, MA	

Client Analysis by EPA Method 600/R-93/116

Sample/ HA ID	Laboratory Sample ID	Location	Description	Asbestos Type(s)	Asbestos %	Other Materials	Other %	Asbestos Present	Total Asbestos %
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0821 - 06A	04435-11	Roof Field	Black, Heterogeneous, Felt			Cellulose Fibrous Glass Nonfibrous	40 <1 60	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 06B	04435-12	Roof Field	Black, Heterogeneous, Tar			Nonfibrous	100	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 07A	04435-13	Garage Wall	Off-White, Heterogeneous, White Skim Coat			Nonfibrous	100	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 07B	04435-14	Garage Wall	Grey, Heterogeneous, Grey Base Coat			Nonfibrous	100	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 08A	04435-15	Garage Wall	Off-White, Heterogeneous, White Skim Coat			Nonfibrous	100	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

Reporting Notes: NAD = "No Asbestos Detected" PS = "Positive Stop" PR = "Present" <1% = Trace Due to inherent Polarized Light Microscope limitations, fibers and/or bundles below the resolution of the light microscope (approximately <.25 microns in width) will not be detected. "NAD" and "Trace" samples should be confirmed by Transmission Electron Microscopy. AEC Laboratories, LLC (AEC) maintains liability limited to cost of analysis only. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by AEC. AEC is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client. AEC retains all samples for thirty (30) days after reporting. After this period AEC will dispose of all samples according to all local, state, and federal guidelines, unless requested in writing by the client. All results are expressed as a percentage based on Calibrated Visual Estimate (CVE), unless otherwise noted. Distinct layers are noted by .1, .2, etc. suffixes to lab ID.



810 Broad Street - Weymouth, MA 02189 - Ph. 781.337.0567

Client: TRC Solutions
31 Milk Street 11th Floor
Boston, MA 02109

AEC Laboratories Project Number: 04435.00
Client Project Number: 178226.0000.00
0010

Attention: Paul Manna
Phone: 617-350-3444 **Fax:** 617-350-3443
Re: 178226.0000.000010

Date Sampled: 8/21/2012
Date Received: 8/21/2012
Date Analyzed: 8/22/2012
Date Reported: 8/22/2012

8 Old Rd.; Dorchester, MA

Analysis by EPA Method 600/R-93/116

Client Sample/HA ID	Laboratory Sample ID	Location	Description	Asbestos Type(s)	Asbestos %	Other Materials	Other %	Asbestos Present	Total Asbestos %
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0821 - 08B	04435-16	Garage Wall	Grey, Heterogeneous, Grey Base Coat			Nonfibrous	100	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 09A	04435-17	Garage Ceiling	Off-White, Heterogeneous, White Skim Coat			Nonfibrous	100	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 09B	04435-18	Garage Ceiling	Grey, Heterogeneous, Grey Base Coat			Cellulose Nonfibrous	2 98	No	NAD
------------	----------	----------------	-------------------------------------	--	--	----------------------	---------	----	-----

Analyzed by: VS Date Analyzed: 8/22/12

0821 - 10A	04435-19	Office	Brown, Homogenous, Paneling Adhesive			Cellulose Nonfibrous	<1 100	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 10B	04435-20	Office	Brown, Homogenous, Paneling Adhesive			Cellulose Nonfibrous	<1 100	No	NAD
------------	----------	--------	--------------------------------------	--	--	----------------------	-----------	----	-----

Analyzed by: VS Date Analyzed: 8/22/12

Reporting Notes: NAD = "No Asbestos Detected" PS = "Positive Stop" PR = "Present" <1% = Trace Due to inherent Polarized Light Microscope limitations, fibers and/or bundles below the resolution of the light microscope (approximately <.25 microns in width) will not be detected. "NAD" and "Trace" samples should be confirmed by Transmission Electron Microscopy. AEC Laboratories, LLC (AEC) maintains liability limited to cost of analysis only. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by AEC. AEC is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client. AEC retains all samples for thirty (30) days after reporting. After this period AEC will dispose of all samples according to all local, state, and federal guidelines, unless requested in writing by the client. All results are expressed as a percentage based on Calibrated Visual Estimate (CVE), unless otherwise noted. Distinct layers are noted by .1, .2, etc. suffixes to lab ID.



810 Broad Street - Weymouth, MA 02189 - Ph. 781.337.0567

Client: TRC Solutions
31 Milk Street 11th Floor
Boston, MA 02109

AEC Laboratories Project Number: 04435.00
Client Project Number: 178226.0000.00
0010

Attention: Paul Manna
Phone: 617-350-3444 **Fax:** 617-350-3443
Re: 178226.0000.000010

Date Sampled: 8/21/2012
Date Received: 8/21/2012
Date Analyzed: 8/22/2012
Date Reported: 8/22/2012

8 Old Rd.; Dorchester, MA

Analysis by EPA Method 600/R-93/116

Client Sample/ HA ID	Laboratory Sample ID	Location	Description	Asbestos Type(s)	Asbestos %	Other Materials	Other %	Asbestos Present	Total Asbestos %
----------------------------	-------------------------	----------	-------------	---------------------	---------------	--------------------	------------	---------------------	---------------------

0821 - 11A	04435-21	Office	Off-White/Brown, Heterogeneous, Sheetrock			Cellulose Nonfibrous	10 90	No	NAD
------------	----------	--------	---	--	--	-------------------------	----------	----	-----

Analyzed by: VS Date Analyzed: 8/22/12

0821 - 11B	04435-22	Office	Off-White/Brown, Heterogeneous, Sheetrock			Cellulose Nonfibrous	10 90	No	NAD
------------	----------	--------	---	--	--	-------------------------	----------	----	-----

Analyzed by: VS Date Analyzed: 8/22/12

0821 - 12A	04435-23	Office	Red, Heterogeneous, Red Floor Tile			Nonfibrous	100	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 12B	04435-24	Office	Red, Heterogeneous, Red Floor Tile			Nonfibrous	100	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 13A	04435-25	Office	Black, Heterogeneous, Mastic			Nonfibrous	100	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

Reporting Notes: NAD = "No Asbestos Detected" PS = "Positive Stop" PR = "Present" <1% = Trace Due to inherent Polarized Light Microscope limitations, fibers and/or bundles below the resolution of the light microscope (approximately <.25 microns in width) will not be detected. "NAD" and "Trace" samples should be confirmed by Transmission Electron Microscopy. AEC Laboratories, LLC (AEC) maintains liability limited to cost of analysis only. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by AEC. AEC is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client. AEC retains all samples for thirty (30) days after reporting. After this period AEC will dispose of all samples according to all local, state, and federal guidelines, unless requested in writing by the client. All results are expressed as a percentage based on Calibrated Visual Estimate (CVE), unless otherwise noted. Distinct layers are noted by .1, .2, etc. suffixes to lab ID.



Client: TRC Solutions
31 Milk Street 11th Floor
Boston, MA 02109

AEC Laboratories Project Number: 04435.00
Client Project Number: 178226.0000.00
0010

Attention: Paul Manna
Phone: 617-350-3444 **Fax:** 617-350-3443
Re: 178226.0000.000010

Date Sampled: 8/21/2012
Date Received: 8/21/2012
Date Analyzed: 8/22/2012
Date Reported: 8/22/2012

8 Old Rd.; Dorchester, MA

Analysis by EPA Method 600/R-93/116

Client Sample/ HA ID	Laboratory Sample ID	Location	Description	Asbestos Type(s)	Asbestos %	Other Materials	Other %	Asbestos Present	Total Asbestos %
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0821 - 13B	04435-26	Office	Black, Heterogeneous, Mastic			Nonfibrous	100	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 14A	04435-27	Office	Tan, Heterogeneous, Linoleum			Cellulose Nonfibrous	3 97	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 14B	04435-28	Office	Tan, Heterogeneous, Linoleum			Cellulose Nonfibrous	3 97	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 15A	04435-29	Office	Black, Heterogeneous, Mastic			Cellulose Nonfibrous	<1 100	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 15B	04435-30	Office	Black, Heterogeneous, Mastic			Cellulose Nonfibrous	<1 100	No	NAD
------------	----------	--------	------------------------------------	--	--	-------------------------	-----------	----	-----

Analyzed by: VS Date Analyzed: 8/22/12

Reporting Notes: NAD = "No Asbestos Detected" PS = "Positive Stop" PR = "Present" <1% = Trace Due to inherent Polarized Light Microscope limitations, fibers and/or bundles below the resolution of the light microscope (approximately <25 microns in width) will not be detected. "NAD" and "Trace" samples should be confirmed by Transmission Electron Microscopy. AEC Laboratories, LLC (AEC) maintains liability limited to cost of analysis only. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by AEC. AEC is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client. AEC retains all samples for thirty (30) days after reporting. After this period AEC will dispose of all samples according to all local, state, and federal guidelines, unless requested in writing by the client. All results are expressed as a percentage based on Calibrated Visual Estimate (CVE), unless otherwise noted. Distinct layers are noted by .1, .2, etc. suffixes to lab ID.



810 Broad Street - Weymouth, MA 02189 - Ph. 781.337.0567

Client: TRC Solutions
31 Milk Street 11th Floor
Boston, MA 02109

AEC Laboratories Project Number: 04435.00
Client Project Number: 178226.0000.00
0010

Attention: Paul Manna
Phone: 617-350-3444 **Fax:** 617-350-3443
Re: 178226.0000.000010

Date Sampled: 8/21/2012
Date Received: 8/21/2012
Date Analyzed: 8/22/2012
Date Reported: 8/22/2012

8 Old Rd.; Dorchester, MA

Client **Analysis by EPA Method 600/R-93/116**

<i>Sample/ HA ID</i>	<i>Laboratory Sample ID</i>	<i>Location</i>	<i>Description</i>	<i>Asbestos Type(s)</i>	<i>%</i>	<i>Other Materials</i>	<i>%</i>	<i>Asbestos Present</i>	<i>Total Asbestos %</i>
--------------------------	---------------------------------	-----------------	--------------------	-----------------------------	----------	----------------------------	----------	-----------------------------	-----------------------------

0821 - 16A	04435-31	Office	Brown, Heterogeneous, Ceiling Tile			Cellulose Nonfibrous	98 2	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 16B	04435-32	Office	Brown, Heterogeneous, Ceiling Tile			Cellulose Nonfibrous	98 2	No	NAD
------------	----------	--------	--	--	--	-------------------------	---------	----	-----

Analyzed by: VS Date Analyzed: 8/22/12

0821 - 17A	04435-33	Back Room	Multi-Colored, Heterogeneous, Window Glazing	Chrysotile	2	Nonfibrous	98	Yes	2
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Analyzed by: VS Date Analyzed: 8/22/12

0821 - 17B	04435-34	Garage	Window Glazing						PS
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0821 - 18A	04435-35	Office Behind Paneling and Masonry Wall	Black, Heterogeneous, Black Mastic			Cellulose Fibrous Glass Nonfibrous	<1 <1 100	No	NAD
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Analyzed by: VS Date Analyzed: 8/22/12

Reporting Notes: NAD = "No Asbestos Detected" PS = "Positive Stop" PR = "Present" <1% = Trace Due to inherent Polarized Light Microscope limitations, fibers and/or bundles below the resolution of the light microscope (approximately <.25 microns in width) will not be detected. "NAD" and "Trace" samples should be confirmed by Transmission Electron Microscopy. AEC Laboratories, LLC (AEC) maintains liability limited to cost of analysis only. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by AEC. AEC is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client. AEC retains all samples for thirty (30) days after reporting. After this period AEC will dispose of all samples according to all local, state, and federal guidelines, unless requested in writing by the client. All results are expressed as a percentage based on Calibrated Visual Estimate (CVE), unless otherwise noted. Distinct layers are noted by .1, .2, etc. suffixes to lab ID.



Client: TRC Solutions
31 Milk Street 11th Floor
Boston, MA 02109

AEC Laboratories Project Number: 04435.00
Client Project Number: 178226.0000.00
0010

Attention: Paul Manna
Phone: 617-350-3444 **Fax:** 617-350-3443
Re: 178226.0000.000010

Date Sampled: 8/21/2012
Date Received: 8/21/2012
Date Analyzed: 8/22/2012
Date Reported: 8/22/2012

8 Old Rd.; Dorchester, MA

Analysis by EPA Method 600/R-93/116

Client Sample/ HA ID	Laboratory Sample ID	Location	Description	Asbestos Type(s)	%	Other Materials	%	Asbestos Present	Total Asbestos %
0821 - 18B	04435-36	Office Behind Paneling and Masonry Wall	Black, Heterogeneous, Black Mastic			Cellulose Fibrous Glass Nonfibrous	<1 <1 100	No	NAD

Analyzed by: VS Date Analyzed: 8/22/12

0821 - 19A	04435-37	Office Wall	Grey, Heterogeneous, Sheetrock			Cellulose Fibrous Glass Nonfibrous	5 <1 95	No	NAD
------------	----------	-------------	--------------------------------------	--	--	--	---------------	----	-----

Analyzed by: VS Date Analyzed: 8/22/12

0821 - 19B	04435-38	Office Wall	Grey, Heterogeneous, Sheetrock			Cellulose Fibrous Glass Nonfibrous	5 <1 95	No	NAD
------------	----------	-------------	--------------------------------------	--	--	--	---------------	----	-----

Analyzed by: VS Date Analyzed: 8/22/12

Reviewed by: Valerica Stanca

Analyzed by: Valerica Stanca

Signature:

Signature:

Reporting Notes: NAD = "No Asbestos Detected" PS = "Positive Stop" PR = "Present" <1% = Trace Due to inherent Polarized Light Microscope limitations, fibers and/or bundles below the resolution of the light microscope (approximately <.25 microns in width) will not be detected. "NAD" and "Trace" samples should be confirmed by Transmission Electron Microscopy. AEC Laboratories, LLC (AEC) maintains liability limited to cost of analysis only. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by AEC. AEC is not responsible for sample collection activities or analytical limitations. Interpretation and use of results are the responsibility of the client. AEC retains all samples for thirty (30) days after reporting. After this period AEC will dispose of all samples according to all local, state, and federal guidelines, unless requested in writing by the client. All results are expressed as a percentage based on Calibrated Visual Estimate (CVE), unless otherwise noted. Distinct layers are noted by .1, .2, etc. suffixes to lab ID.

APPENDIX C

**ASBESTOS BULK SAMPLE
CHAIN OF CUSTODY FORMS**

Bulk Sample Chain of Custody



AEC
Laboratories, LLC

AEC Laboratories, LLC

810 Broad Street - Weymouth, MA 02189 - Ph. 781.337.0567

Client: TRC Solutions
31 Milk Street 11th Floor
Boston, MA 02109

Project Number: 178226.0000.000010
Date Sampled: 8/21/2012
Sampled by: Gregory Hatch

Project Manager: Paul Manna
Project Name: 178226.0000.000010
Project Address: 8 Old Rd.; Dorchester, MA

Analysis Requested: Asbestos (PLM)
Turn Around Time Requested: 48 Hour
Total Number of Samples: 38


AEC Laboratories Project Number:
04435.00

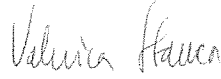
Field Sample ID	Location	Description	Sample Comments
0821 - 01A	Exterior Facade	Black Waterproofing	
0821 - 01B	Exterior Facade	Black Waterproofing	
0821 - 02A	Exterior Block Glass Seam	Mortar	
0821 - 02B	Exterior Block Glass Seam	Mortar	
0821 - 03A	Roof Perimeter	Felt	
0821 - 03B	Roof Perimeter	Tar	
0821 - 04A	Roof Perimeter	Felt	
0821 - 04B	Roof Perimeter	Tar	
0821 - 05A	Roof Field	Felt	
0821 - 05B	Roof Field	Tar	
0821 - 06A	Roof Field	Felt	
0821 - 06B	Roof Field	Tar	
0821 - 07A	Garage Wall	White Skim Coat	

Relinquished by: Gregory Hatch

Received by: Valerica Stanca

Page 1 of 3

Signature: 
Date: 08/21/2012

Signature: 
Date: 08/21/2012

Relinquished by: _____
Date: _____

Received by: _____ Date: _____



AEC
Laboratories, LLC

AEC Laboratories, LLC

810 Broad Street - Weymouth, MA 02189 - Ph. 781.337.0567

Client: TRC Solutions
31 Milk Street 11th Floor
Boston, MA 02109

Project Number: 178226.0000.000010
Date Sampled: 8/21/2012
Sampled by: Gregory Hatch

Project Manager: Paul Manna
Project Name: 178226.0000.000010
Project Address: 8 Old Rd.; Dorchester, MA

Analysis Requested: Asbestos (PLM)
Turn Around Time Requested: 48 Hour
Total Number of Samples: 38

AEC Laboratories Project Number:
04435.00

Field Sample ID	Location	Description	Sample Comments
0821 - 07B	Garage Wall	Grey Base Coat	
0821 - 08A	Garage Wall	White Skim Coat	
0821 - 08B	Garage Wall	Grey Base Coat	
0821 - 09A	Garage Ceiling	White Skim Coat	
0821 - 09B	Garage Ceiling	Grey Base Coat	
0821 - 10A	Office	Paneling Adhesive	
0821 - 10B	Office	Paneling Adhesive	
0821 - 11A	Office	Sheetrock	
0821 - 11B	Office	Sheetrock	
0821 - 12A	Office	Red Floor Tile	
0821 - 12B	Office	Red Floor Tile	
0821 - 13A	Office	Mastic	
0821 - 13B	Office	Mastic	
0821 - 14A	Office	Linoleum	

Relinquished by: Gregory Hatch

Received by: Valerica Stanca

Page 2 of 3

Signature: 

Date: 08/21/2012

Signature: 

Date: 08/21/2012

Relinquished by: _____

Received by: _____

Date: _____

Date: _____



AEC
Laboratories, LLC

AEC Laboratories, LLC
810 Broad Street - Weymouth, MA 02189 - Ph. 781.337.0567

Client: TRC Solutions
31 Milk Street 11th Floor
Boston, MA 02109

Project Number: 178226.0000.000010
Date Sampled: 8/21/2012
Sampled by: Gregory Hatch

Project Manager: Paul Manna
Project Name: 178226.0000.000010
Project Address: 8 Old Rd.; Dorchester, MA

Analysis Requested: Asbestos (PLM)
Turn Around Time Requested: 48 Hour
Total Number of Samples: 38

AEC Laboratories Project Number:
04435.00

Field Sample ID	Location	Description	Sample Comments
0821 - 14B	Office	Linoleum	
0821 - 15A	Office	Mastic	
0821 - 15B	Office	Mastic	
0821 - 16A	Office	Ceiling Tile	
0821 - 16B	Office	Ceiling Tile	
0821 - 17A	Back Room	Window Glazing	
0821 - 17B	Garage	Window Glazing	
0821 - 18A	Office Behind Paneling and Masonry Wall	Black Mastic	
0821 - 18B	Office Behind Paneling and Masonry Wall	Black Mastic	
0821 - 19A	Office Wall	Sheetrock	
0821 - 19B	Office Wall	Sheetrock	

Relinquished by: Gregory Hatch

Received by: Valerica Stanca

Page 3 of 3

Signature: 
Date: 08/21/2012

Signature: 
Date: 08/21/2012

Relinquished by: _____
Date: _____

Received by: _____ Date: _____

APPENDIX D

LEAD BASED PAINT LABORATORY ANALYTICAL DATA



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 858-9551
<http://www.emsl.com> cinnaminsonleadlab@emsl.com

EMSL Order: 201208481
CustomerID: TRCE45
CustomerPO:
ProjectID:

Attn: **Paul J. Manna** Phone: (617) 350-3444
TRC Fax:
2 Liberty Square Received: 08/24/12 1:35 PM
Boston, MA 02109 Collected: 8/21/2012

Project: 178226.0000.000010

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B*/7000B)

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
821pb01 Site: Garage-Blue/green	0001	8/21/2012	8/27/2012	1.0 % wt
821pb02 Site: Garage-Aqua	0002	8/21/2012	8/27/2012	0.088 % wt
821pb03 Site: Garage-Gray	0003	8/21/2012	8/27/2012	0.17 % wt
821pb04 Site: Garage-White	0004	8/21/2012	8/27/2012	0.075 % wt
821pb05 Site: Garage-Green	0005	8/21/2012	8/27/2012	0.093 % wt

Julie Smith - Laboratory Director
NJ-NELAP Accredited:04653
or other approved signatory

Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10896, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 08/27/2012 13:04:21

APPENDIX E

LEAD BASED PAINT SAMPLE CHAIN OF CUSTODY FORMS



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2012 08481

EMSL ANALYTICAL, INC.
3 COOPER STREET
WESTMONT, NJ 08108
PHONE: (856) 858-4800
FAX: (856) 858-3899

Company : TRC Companies, Inc.		EMSL #TRCE45		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 2 Liberty Square, 6 th floor		Third Party Billing requires written authorization from third party			
City: Boston		State/Province: MA	Zip/Postal Code: 02109	Country: USA	
Report To (Name): Paul Manna		Fax #: 617-350-3443			
Telephone #: 617-838-7823		Email Address: PManna@trcsolutions.com			
Project Name/Number: 178226.0000.000010					
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:		U.S. State Samples Taken:	
Turnaround Time (TAT) Options* - Please Check					
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input checked="" type="checkbox"/> 48 Hour	<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour
<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week				
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>					
Matrix		Method	Instrument	Reporting Limit	Check
Chips <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm		SW846-7000B/7420 or AOAC 974.02	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air		NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
		NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
		NIOSH 7300 modified	ICP-AES	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM <small>*If no box is checked, non-ASTM Wipe is assumed</small>		SW846-7000B/7420	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
		SW846-6010B or C	ICP-AES	0.5 µg/wipe	<input type="checkbox"/>
TCLP		SW846-1311/7420/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
		SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil		SW846-7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
		SW846-7421	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
		SW846-6010B or C	ICP-AES	1 mg/kg (ppm)	<input type="checkbox"/>
Wastewater		SM3111B or SW846-7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
		EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
		SW846-6010B or C	ICP-AES	1 mg/kg (ppm)	<input type="checkbox"/>
Drinking Water		EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
Other:			Preservation Method (Water):		
Name of Sampler: Paul Manna			Signature of Sampler:		
Sample #	Location		Volume/Area	Date/Time Sampled	
821pb01	Garage-Blue/green			Aug 21, 2012	
821pb02	Garage-Aqua			Aug 21, 2012	
821pb03	Garage-Gray			Aug 21, 2012	
821pb04	Garage-White			Aug 21, 2012	
821pb05	Garage-Green			Aug 21, 2012	
Client Sample #'s 821pb01 - 821pb05			Total # of Samples: 5		
Relinquished (Client):		Date: 8-23-12	Time: 10:40 AM		
Received (Lab):		Date:	Time:		
Comments:					