

Ramage Paper Mill Monroe, Massachusetts

### Hazardous Building Materials Assessment

Prepared For:

### Franklin Regional Council of Governments Greenfield, Massachusetts

May 25, 2016



F01372-12 May 25, 2016

Ms. Peggy Sloan Director of Planning and Development Franklin Regional Council of Governments 12 Olive Street, Suite 2 Greenfield, MA 01301

### Re: Hazardous Building Materials Assessment Ramage Paper Mill – Wood Structure 16 Depot Street Monroe, MA

Dear Ms. Sloan,

Tighe & Bond was retained by Franklin Regional Council of Governments (FRCOG) to perform a hazardous building materials assessment (HBMA) within a certain building section at the referenced complex. The HBMA was specifically limited to the two story, green painted wooden section of the complex, which is located along the northeast portion of the property, directly adjacent to the Deerfield River. Refer to Appendix F which contains a map displaying the specific building section which was evaluated.

The assessment was performed by Tighe & Bond's asbestos inspectors Brian F. Day (AI061695) and Dan J. Dragon (AI72274) who visited the site on April 6, 2016. The purpose of the assessment was to assist FRCOG and the Town of Monroe in identifying asbestos-containing building materials (ACBM) and hazardous materials / components requiring abatement or mitigation in the event a demolition is undertaken in the near future. The other purpose for the HBMA was to prepare a cost opinion for the abatement of asbestos & hazardous materials and subsequent building demolition given that the building is in a state of disrepair and in danger of collapse. Specifically, the HBMA included the following tasks:

- Assess, sample and quantify suspect regulated asbestos-containing materials (RACM) that would require abatement in the event a demolition is undertaken
- Perform polarized light microscopy (PLM) laboratory analysis of suspect RACM bulk samples
- Assess and inventory possible hazardous materials / components including building materials presumed to contain polychlorinated biphenyls (PCBs) that would require abatement in the event a demolition is undertaken
- Provide a report of findings together with recommendations for compliance with applicable asbestos and hazardous material regulations and provide an opinion of probable abatement /mitigation and building demolition costs

### **Asbestos Survey**

Prior to any type of building demolition or renovation, a survey is required to identify and quantify RACM. This survey is required by Massachusetts asbestos regulations 310 CMR 7.15 (Department of Environmental Protection); 453 CMR 6.00 (Department of Labor Standards); the National Emission Standards for Hazardous Air Pollutants (NESHAP) Standard for Demolition and Renovation 40 CFR Part 61.145, as well as applicable portions of the Occupational Safety and Health Administration (OSHA) CFR 1926.1101 asbestos in



construction regulations. These regulations must be implemented during all facets of asbestos abatement, renovation and demolition as required by law.

The asbestos survey consisted of an assessment throughout accessible interior and exterior locations of the northeast, green painted, two story wooden building section as shown in Appendix F. The purpose of the asbestos assessment was to determine the presence or absence of RACM within the building which would be subject to abatement prior to demolition. Bulk samples of suspect RACM were collected from each homogenous group of materials in general accordance with standards described in the Environmental Protection Agency (EPA) Asbestos Hazard and Emergency Response Act (AHERA) Regulations for schools. A minimum of three samples of each suspect homogeneous group of materials are typically collected (contingent upon quantity) to confirm or deny the presence of asbestos content in the homogenous materials. The suspect RACM is considered negative for asbestos only when the results of all samples indicate no asbestos detected above the Massachusetts Department of Environmental Protection (MassDEP) threshold of 1% or greater asbestos.

Following collection, bulk samples were submitted to ProScience Analytical Services (PAS) of Woburn, Massachusetts for analysis via polarized light microscopy (PLM) with dispersion staining in accordance with the EPA/600/R-93/116 method.

The following materials were either assumed or reported as asbestos containing and shall be abated prior to building demolition:

- > Asphalt based roofing materials
- Glazing compounds (stored windows)
- Roofing cement buckets (stored)
- Miscellaneous transite components and boards (stored)
- Pipe insulation debris

The assessment information for each listed RACM is summarized in the *Asbestos-Containing Materials Inventory* provided in Appendix A. The inventory lists all suspect RACM sampled, sample numbers, material locations and specific comments relative to materials observed. Additionally, the *PAS laboratory analytical report* is included in Appendix B.

Although this initial HBMA was comprehensive, it was limited to accessible areas of the structure and shall therefore not be considered as a final project design for asbestos abatement. If demolition of the building is, supplemental asbestos project design, as part of demolition design, will be necessary.

The majority of the listed RACMs can currently be abated safely using traditional methods. However, given that the roof is deteriorated considerably, it is probable that the abatement / demolition contractor would be unable to safely access the roof areas to abate the roofing materials prior to demolition. Given this condition, the project design will likely include the need for a Non-Traditional Work Plan (NT Plan) which describes those asbestos regulations that cannot be safely implemented due to deteriorated building conditions. The NT Plan must be prepared by a licensed project designer and submitted to MassDEP for approval. The NT Plan is also subject to a \$600 MassDEP fee.

The asbestos containing materials discovered throughout the structure must be removed by a licensed asbestos abatement contractor prior to any activity that has the potential to cause disturbance. We also recommend the following general requirements:



- A standardized Scope of Work/Specification should be established for the removal of asbestos containing materials at the structure. We recommend that the specification be developed by a licensed asbestos designer and it should address such important issues as regulatory requirements, notification procedures, air sampling requirements and other pertinent information.
- An ANF-001 asbestos project notification must be prepared by a licensed asbestos contractor and submitted to MassDEP and Massachusetts Department of Safety (MassDOS) at least ten days prior to the onset of asbestos abatement activity.
- Any Town employees who may work in this structure should be notified that asbestos containing materials are present and to not disturb them without proper training.

### **Hazardous Materials Survey**

Tighe & Bond performed a visual inspection of building equipment and materials that could contain hazardous components and have the potential for disturbance during a demolition. The results of our survey confirmed the presence of the following materials/equipment within the subject building:

- ➢ Fluorescent light tubes
- Light ballasts
- > Tires
- Various containers of oils

The assessment information for each hazardous material is summarized in the *Hazardous Materials Inventory* provided in Appendix C. These components are better defined as typical universal wastes which should be removed / recycled or disposed of by trained personnel prior to demolition. Sampling and analyses of suspect hazardous materials were not performed as part of this scope of work, nor is it necessary to do so.

### **PCBs in Building Materials**

PCBs in building materials have received extensive attention over recent years by environmental regulators, consultants, and contractors, and PCBs are increasingly being identified in buildings that may undergo demolition or renovation. Buildings/structures that were constructed (or renovated) between the 1950s and the late 1970s have a greater potential to contain PCBs in certain building materials.

It is important to note that EPA regulations which govern the Toxic Substance Control Act (TSCA) requirements including PCBs and PCB Bulk Product Wastes, do not require the sampling for PCBs prior to building demolition or renovation. Therefore there is no current regulatory requirement to sample for PCBs (local, state or federal).

Regardless of the regulatory sampling requirements many waste/recycling receiving facilities may request PCB sampling to be performed. If it is suspected that PCBs could be present, it is important to also mitigate potential human health and safety risk to abatement/demolition contractors and owners' potential liability associated with the proper recycling/disposal of certain generated demolition waste materials.



Tighe & Bond performed an initial visual assessment of building materials throughout the subject building that have the potential to contain PCBs and concluded that the building does not appear to contain significant quantities of suspect PCB sources that may warrant additional assessment. The building appears to be of original construction, likely from the early 1900's and not subject to an extensive renovation. The building was constructed primarily of wood, steel and concrete building materials only and was primarily used as a storage area with some small offices.

### Lead Based Paint (LBP) Evaluation

Tighe & Bond's environmental compliance specialists performed a visual evaluation of accessible painted interior/exterior systems throughout the building. It was discovered that interior wood wall, floor and ceilings located throughout all levels were unpainted. The exterior consists of green painted clapboard on all sides of the building.

Paint chip samples of the green paint were collected and submitted to Proscience Analytical for total lead content analysis. Results of testing were compared to a 0.5% by weight threshold as established by OSHA lead in construction regulations and Massachusetts Department of Public Health. The results of analysis indicated that LBP-01, collected from the green painted exterior façade had a concentration of 30% by weight. This level is considerably higher than the recommended threshold and if impact to these surfaces is evident, compliance with applicable aspects of the OSHA 1926.62 lead in construction standard for worker safety would apply.

LBP management during general renovation and demolition are often associated with worker protection and some disposal testing requirements if requested by certain landfills accepting the demolition debris. When managed appropriately, costs associated with the proper handling and disposal of construction materials containing lead are usually incidental. Most reputable general contracting and demolition firms handle LBP components regularly therefore protecting their workers at all times from potential lead exposure and prepare waste streams so that lead containing painted components are not concentrated but are dispersed throughout the waste stream.

Given the measurable exceedance in our initial lead screening results, it is recommend that a supplemental evaluation coupled with Toxicity Characteristic Leaching Procedure (TCLP) testing of the intended demolition waste stream be performed prior to the onset of demolition. The purpose of this sample collection / analysis is to determine if the generated waste stream needs to be managed as a hazardous waste due to the lead exceedance and would therefore be subject to special disposal requirements under the Federal EPA "Resource Conservation and Recovery Act" (RCRA - 40 CFR Part 261). This supplemental testing should be undertaken during the demolition design stages and incorporated into the project specifications. For the purposes of this report, we however have assumed that the exterior green wood siding would be segregated from the general demolition waste stream for management as a hazardous waste.

### **Opinion of Probable Demolition Costs**

To assist FRCOG and the Town of Monroe with budgeting for project design; asbestos abatement; hazardous material management and subsequent building demolition, Tighe & Bond prepared an opinion of probable abatement and demolition costs for the project.

### **Demolition Design and Management**

When planning for building demolition, the work should be presented through a project design which identifies material quantities and locations, etc. but also specifies project limits, insurance needs, contractor pre and post submittal needs, schedules and other significant project milestones. Preparation of Bid Documents also helps define the project goals which results in a level, competitive bidding process.



The Ramage Mill would normally be considered a simple demolition but given its proximity to the Deerfield River it will have some challenges which should be undertaken only by an experienced contractor. In order to design and effectively manage the project, the following milestones are typically incorporated into the project as follows:

- Supplemental HBMA Audit and Demolition Survey (one day)
- > Conservation Commission permitting due to proximity to the river
- > Prepare Bid Documents
- > Attend Pre Bid Conference
- > Project Award
- Pre and Post Submittal Review
- > On-site Asbestos and Demolition Observation
- > Project Closeout Report

We would recommend a budget of **\$45,000** be carried for the noted demolition design services.

### **Asbestos and Hazardous Materials Abatement**

Prior to building demolition, asbestos and hazardous materials require abatement in order to perform a clean demolition. These services are typically carried in the awarding demolition contractors bid but are often sub-contracted to an asbestos abatement firm.

In order to lawfully abate the inventoried ACM listed in Appendix A and remediate the universal wastes listed in Appendix C, we recommend a budget of **\$55,000** be established.

### **Building Demolition**

Given the geographic location, confined site access, limited construction vehicle access and the need for protective measures to help control debris from entering the river, this project is considered fairly complex. In addition, we reported a significant lead exceedance in the paint that was applied to the building façade which will likely result in disposal cost premiums. Given these site specific conditions, we recommend a building demolition budget of **\$125,000** be established.

When considering the entire project, including each of the services identified herein, we recommend a budget **\$225,000** be established along with a 15% contingency in the event of discovering unknowns for a total project budget of approximately \$260,000. These budgets are only an opinion of probable abatement and demolition costs. Actual costs may vary due to project phasing, competition, market conditions and seasonal variations.

Please do not hesitate to call the undersigned at (508) 471-9603 if you have any questions.

Very truly yours,

**TIGHE & BOND, INC.** 

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Brian F. Day Senior Environmental Scientist

### Enclosures

Appendix A:Asbestos Containing Materials InventoryAppendix B:Asbestos Laboratory Report

Appendix C:Hazardous Materials InventoryAppendix D:Lead Paint Laboratory ReportAppendix E:Photograph LogAppendix F:Google Earth Map

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### APPENDIX A Asbestos-Containing Materials Inventory Ramage Paper Mill Monroe, Massachusetts

| Sample #         | Material                                    | Location  | Approximate<br>Quantity              | Result   | Comment  |
|------------------|---|---|--------------------------------------|----------|--|
| A-01, A-02, A-03 | Tar paper                                   | Ramage Mill - Wooden<br>Section Only                          | -                                    | Negative | Tar paper located behind wooden clapboard façade.  |
| A-04, A-05, A-06 | Asphalt based multi-<br>layered roofing     | Ramage Mill - Wooden<br>Section Only, throughout              | 4,200 SF                             | Positive | Photograph 4 in Appendix E. Built up roofing applied to all roof levels. The roof deck is wood.  |
| A-07, A-08, A-09 | Glazing compound                            | Ramage Mill - Wooden<br>Section Only, ground floor<br>level   | (8) - 3' x 3'<br>Windows             | Positive | Photographs 3 and 10 in Appendix E. Wood framed windows are stored on the ground.  |
| A-10, A-11, A-12 | Glazing compound                            | Ramage Mill - Wooden<br>Section Only, ground floor<br>level   | -                                    | Negative | (30) Metal framed 4' x 5' windows stored in a pile.  |
| AP               | Roofing cement                              | Ramage Mill - Wooden<br>Section Only, ground floor<br>level   | (15) - 5 gallon<br>buckets           | Positive | Photograph 9 in Appendix E. "Karnak" labeled metal buckets with asbestos containing cement remnant in each.  |
| АР               | Transite board and<br>electrical components | Ramage Mill - Wooden<br>Section Only, ground floor<br>level   | 1/8 CYD and<br>(3) 3' x 3'<br>boards | Positive | Photographs 5 and 6 in Appendix E. Stored transite containing electrical components in a pile on the floor. Boards are also stored on the ground.              |
| A-13, A-14, A-15 | Sheetrock                                   | Ramage Mill - Wooden<br>Section Only, ground floor            | -                                    | Negative | Nailed to ceiling and walls.   |
| A-16, A-17, A-18 | Plaster                                     | Ramage Mill - Wooden<br>Section Only, ground floor            | -                                    | Negative | Applied to ceiling and walls on wood lathe.  |
| A-19, A-20, A-21 | Tarpaper                                    | Ramage Mill - Wooden<br>Section Only                          | -                                    | Negative | Tar paper under floorboards.   |
| АР               | Transite board                              | Ramage Mill - Wooden<br>Section Only, basement<br>floor level | 30 SF                                | Positive | Photographs 5 and 6 in Appendix E. Several boards of varying size nailed in place to wall facing water.  |
| A-22, A-23       | Friable magnesium<br>insulation debris      | Ramage Mill - Wooden<br>Section Only, basement<br>floor level | 1/8 CYD                              | Positive | Photographs 7 and 8 in Appendix E. Visible white, friable magnesium debris observed on concrete floor in 2 SF sized areas or less. Several locations observed. |

### APPENDIX A Asbestos-Containing Materials Inventory Ramage Paper Mill Monroe, Massachusetts

| Sample #                              | Material  | Location  | Approximate<br>Quantity              | Result                    | Comment  |
|---------------------------------------|---|---|--------------------------------------|---------------------------|--|
| A-24, A-25                            | Gasket  | Ramage Mill - Wooden<br>Section Only, basement floor<br>level | -                                    | Negative                  | Gaskets associated with (5) metal holding tanks.   |
| A-26, A-27, A-28                      | Glazing compound                                | Ramage Mill - Wooden<br>Section Only, mezzanine<br>level      | (20) - 3' x 5'<br>windows            | Positive                  | Photographs 3 and 10 in Appendix E. Wood framed windows are stored on the wood floor, in a pile. |
| LEGEND:                               |   | ·   | Survey Completed B                   | sy:                       | ·  |
| ACM = Asbestos-Cor                    | ntaining Material                               |   | 1                                    |                           |  |
| AP = Assumed Positi                   | ve  |   | prian 7 Day                          |                           |  |
| SF = Square Feet                      |   |   | Brian F. Day                         |                           |  |
| CT = Count                            |   |   | MADLS # AI061695                     |                           |  |
|                                       |   |   | Tighe & Bond - 446 N                 | lain Street, Wo           | rcester, MA - 508.754.2201   |
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Dan Dragon Tighe & Bond, Worcester 446 Main St. Worcester, MA 01608 May 02, 2016

Dear Dan Dragon,

The enclosed analytical results have been obtained by using the EPA/600/R-93/116 method. The "Visual Estimate" quantitative method is generally used for determining the percentage of asbestos and other components of the sample. "The Point Counting" method may also be used upon client request or at the analyst discretion. The Point Count method is usually recommended when the sample contains less than 10% asbestos by Visual estimate. Asbestos content less than 1% is recorded on the report as TR (trace).

The Quality Control data related to the samples analyzed is available upon client's written request. ProScience Analytical Services Inc., assumes no responsibility for potential sample contamination that may have occurred during the sample collection process or erroneous data provided by the client.

The enclosed results may not be used under any circumstances as product endorsement by any US government agency including NIST/NVLAP.

All Laboratory records are retained for at least three years unless otherwise directed in writing by the client. The actual samples are retained for a period of two months and written request is necessary in order to be retained for a longer period of time. All analytical results and records are considered strictly confidential and will not be released under any circumstances to anyone except the actual client. The analytical results included in this report apply only to the items tested.

If you have any questions please contact the Laboratory Manager or the Laboratory Director.

Sincerely,

Patricia Weakley

Patricia Weakley, Optical Asbestos Manager Aimee Cormier, Laboratory Director

Enclosure: Version 2 LAB BATCH ID: B 100619 CLIENT PROJECT ID: F-137-2 Client Ref: Town of Monroe - Ramage Paper Mill AIHA ID# 102754; CT ID# PH-0209; MA ID# AA000156; ME ID# LB-055; ME ID# LA-056; NVLAP Lab Code 200090-0; RI ID # AAL-093; VT ID# AL016876

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| Client Name:   | Tighe & Bond, Worces   | ter   |  |  |                      |                                   |  |                                 |   |                         | nin an | Batch                 | l:       | B1       | 00619                   |
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| Client Reference   | e: Town of Monroe - Ram  | iage Paper  | Mill   |  |                      |                                   |  |                                 |   |                         |  | Date Ar               | nalvzed: | 4/:      | 29/2016                 |
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| Sampl   | Asbestos %         Non-As           Sample ID         Color         CHR         AMO         CRO         ACT         TRE         ANT         FBG         MNW         CEL         I |  |   |  |   |  |  |  |  |                          |           |   |  |  |  |
| A-09  | Э   |  | 0   | 0  | 0   | 0  | 0                                      | 0  | 0  | 0                        | 0         | 0   | 0  | 0  | 0  |
| Description: Glazin<br>Location: N/A<br>Comments:   | g   |  |   |  | ebaberra na mana ana ana ana ana ana ana ana an |  | 20000000000000000000000000000000000000 |  | an a |                          |           |   | A  | nalyzed:   | No   |
|   | <b></b>   |  |   |  | Asbes   | stos %   |  |  |  |                          | Non       | -Asbest   | os %                                       | Biritzani Antonio antoni | lia natata da na mangana da manga              |
| Sampl   | e ID  | Color  | CHR   | AMO                                      | CRO   | ACT  | TRE                                    | ANT  | FBG                                      | MNW                      | CEL       | HAR   | SYN  | ОТН  | NON  |
| A-10  | )   | Tan  | 0   | 0  | 0   | 0  | 0                                      | 0  | 0  | 0                        | 0         | 0   | 0  | 0  | 100  |
| Description: Glazin<br>Location: N/A<br>Comments:   | g   |  |   |  |   |  |  |  |  | Is asbee                 | stos pre: | sent? No  | ). A                                       | nalyzed:   | Yes  |
| anan da anan anan anan anan anan anan a   |   |  |   |  | Asbes   | stos %   |  |  |  |                          | Non       | Asbest  | os %                                       |  |  |
| Sampl   | e ID  | Color  | CHR   | AMO                                      | CRO   | ACT  | TRE                                    | ANT  | FBG                                      | MNW                      | CEL       | HAR   | SYN  | ОТН  | NON  |
| A-1   | 1   | Tan  | 0   | 0  | 0   | 0  | 0                                      | 0  | 0  | 0                        | 0         | 0   | 0  | 0  | 100  |
| Description: Glazin<br>Location: N/A<br>Comments:   | g   |  |   |  |   |  |  |  |  | ls asbes                 | stos pres | sent? No  | ). A                                       | nalyzed:   | Yes  |
|   |   |  |   |  | Asber   | stos %   |  |  |  |                          | Non       | Ashest  | ns %                                       | and the second | 10-032-00-02-00 mil                            |
| Sampl   | e ID  | Color  | CHR   | AMO                                      | CRO   | ACT  | TRE                                    | ANT  | FBG                                      | MNW                      | CEL       | HAR   | SYN  | OTH  | NON  |
| A-1:  | 2   | Tan  | 0   | 0  | 0   | 0  | 0                                      | 0  | 0  | 0                        | 0         | 0   | 0  | 0  | 100  |
| Description: Glazin   | g   | L,   |   | L  |   |  |  |  |  |                          |           |   | L  | <b>I</b>   |  |

Analyzed: Yes

Is asbestos present? No.

| Client Name:Tighe & BoPO #:F-137-2Client Project #:F-137-2Client Reference:Town of MoMethod:EPA/600/F           | ond, Worcester<br>onroe - Ramage Paper<br>8-93/116   | Mill       |  |       |                              |          |  |   |  |          | Batch<br>Date Sa<br>Date Ra<br>Date A<br>Date of | 1:<br>ampled:<br>eceived:<br>nalyzed:<br>Report: | 81<br>4/<br>4/<br>5   | 00619<br>N//<br>27/2016<br>29/2016<br>5/2/2016 |
|---|--|------------|--|-------|------------------------------|----------|--|---|--|----------|--|--|---|--|
|   | ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠<br>- ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠٠ - ٢٠٠ |            |  | Asbes | stos %                       |          |  |   |  | Non      | -Asbest  | tos %  | and the second secon | li lindo recudoremente 8                       |
| Sample ID   | Color  | CHR        | AMO  | CRO   | ACT                          | TRE      | ANT                                    | FBG   | MNW  | CEL      | HAR  | SYN  | OTH   | NON  |
| A-13  | White  | 0          | 0  | 0     | 0                            | 0        | 0                                      | 0   | 0  | 5        | 0  | 0  | 0   | 95   |
| Description: Sheetrock<br>Location: N/A<br>Comments:  |  |            |  |       |                              |          |  |   | Is asbe  | stos pre | sent? No   | o. A   | nalyzed   | Yes  |
|   |  |            |  | Achor | toe %                        |          |  |   | and the second | Non      | Achoof   | 00.0/  |   |  |
| Sample ID   | Color  | СНВ        |  |       |                              | TDE      |  | FRC   |  |          |  |  |   |  |
| Oample 1D   | White  | 0          |  | 0     | 0                            |          | 0                                      | 0   | 0  | 5        |  |  |   |  |
| Description: Sheetrock<br>Location: N/A<br>Comments:  |  |            | in the provide state of the sta |       | ช31334-สาราชาชิงชีวิตรี      |          | 00000000000000000000000000000000000000 | al generation of the second | Is asbes   | stos pre | sent? No   | p. A   | nalyzed:  | Yes  |
|   |  |            |  | Asbes | stos %                       |          |  |   |  | Non      | -Asbest  | os %   |   |  |
| Sample ID   | Color  | CHR        |  | CRO   | ACT                          | TRE      | ANT                                    | FBG   | MNW  | CEL      | HAR  | SYN  | ОТН   | NON  |
| A-15  | White  | 0          | 0  | 0     | 0                            | 0        | 0                                      | 0   | 0  | 5        | 0  | 0  | 0   | 95   |
| Location: N/A<br>Comments:  |  |            |  | Ashes | toe %                        |          |  |   | Is asbes   | stos pre | sent? No   | o. A   | nalyzed:  | Yes  |
| Sample ID   | Color  | CHR        |  |       |                              | TRE      |  | FBG   |  |          |  |  |   | NON  |
| A-16  | Grav   |            | 0  | 0     | 0                            | 0        |  | 0   | 0  |          |  | 0  |   | 100  |
| Description: Plaster<br>Location: N/A<br>Comments:  | ······································   | 1<br>      | 1  |       | S. Convergence of the second | E        |  |   | Is asbes   | stos pre | sent? No   | р. А   | nalyzed:  | Yes  |
| n de ante entre a de construction de la construction de la del de la construcción de la del de la del de la del | ana na sana ang mang mang mang mang mang mang ma   |            | Nel-Activity of  | Asbes | tos %                        |          | nen taledisia anno 100                 | olanından daramanan karanın   |  | Non      | -Asbest  | os %   |   | hander al never an an article (1993).          |
| Sample ID   | Color  | CHR        | AMO  | CRO   | ACT                          | TRE      | ANT                                    | FBG   | MNW  | CEL      | HAR  | SYN  | OTH   | NON  |
| A-17  | Gray   | 0          | 0  | 0     | 0                            | 0        | 0                                      | 0   | 0  | 0        | 0  | 0  | 0   | 100  |
| Description: Plaster<br>Location: N/A<br>Comments:  |  |            |  |       |                              |          |  |   | Is asbes   | stos pre | sent? No   | р. А   | nalyzed:  | Yes  |
| <u> </u>  |  | 3363033636 |  | Achee | tos %                        |          |  | 199 <del>0-1990-1990-1990</del>   |  | Na-      | Achast   | oo 9/  | ana ay ana ang ang ang ang ang ang ang ang ang  | aparina ana sina dalamini d                    |
| Sample ID   | Color  | СНВ        | ΔΜΟ  | CRO   |                              | TPF      | ΔΝΙΤ                                   | FRG   | MINIA  |          |  | US %   | ОТЦ   | NON  |
| A-18  | Grav   |            | 0  | 0     | 0                            |          |  | 0   | 0  | 0        |  |  |   | 100  |
| Description: Plaster<br>Location: N/A<br>Comments:  |  | L          | <u> </u>   | L ~   | 3                            | <u> </u> |  | L ~   | Is asbes   |          | sent? No   | <u> </u>   | nalvzed.  | Yes  |

| Client Name:<br>PO #:<br>Client Project <del>#</del><br>Client Referend<br>Method:                             | Tighe & Bond,<br>F-137-2<br>#: F-137-2<br>ce: Town of Monro<br>EPA/600/R-93 | Worcester<br>be - Ramage Paper<br>5/116          | Mill            |                                   |       |        |             |   | 10000 (karen en e |   | No. 6 Martin Composition of a second | <b>Batch</b><br>Date S<br>Date R<br>Date A<br>Date of | ampled:<br>eceived:<br>nalyzed:<br>Report: | B1<br>4/<br>4/<br>5                      | <b>00619</b><br>N/A<br>27/2016<br>29/2016<br>5/2/2016 |
|--|---|--|-----------------|-----------------------------------|-------|--------|-------------|---|--|---|--------------------------------------|---|--|--|---|
| periodise data data sense can sense any constantion of the sense of the sense of the sense of the sense of the |   |  |                 | -<br>Multisky                     | Asbe  | stos % |             |   |  |   | Non                                  | I-Asbest  | tos %                                      |  |   |
|  | Sample ID   | Color  | CHR             | AMO                               | CRO   | ACT    | TRE         | ANT   | FBG  | MNW                                     | CEL                                  | HAR   | SYN  | OTH                                      | NON   |
|  | A-19  | Black  | 0               | 0                                 | 0     | 0      | 0           | 0   | 0  | 0                                       | 45                                   | 0   | 0  | 0  | 55  |
| Description:<br>Location:<br>Comments:   | Tar Paper<br>N/A  |  |                 |                                   |       |        |             |   |  | Is asbe                                 | stos pre                             | esent? N  | o. A                                       | nalyzed                                  | Yes   |
| nan mangana marakalanga ta mininga ti mininga kana dinaking kasa ana an  |   |  | l - and - and - |                                   | ∆she  | etne % |             |   | 1  |   | Non                                  | Achaef  | ·~~ %                                      | an a | nali soland i no fan fan mula san d                   |
|  | Sample ID   | Color  | CHR             |                                   | CRO   |        |             |   | FBG  |   |                                      |   | 05 70                                      |  |   |
|  | A-20  | Black  | 0               | 0                                 |       | 0      |             |   | 0  | 0                                       | 45                                   |   | 0  |  | 55  |
| Description:<br>Location:<br>Comments:   | Tar Paper<br>N/A  |  |                 |                                   | I     | I      | I           |   | 1  | Is asbes                                | stos pre                             | sent? No  | р. А                                       | nalyzed:                                 | Yes   |
|  |   | an a         |                 |                                   | Ashe  | stos % |             |   |  | na de Martilla (novembri avecarientes)  | Non                                  | Achaet  | 06 %                                       |  | -   |
|  | Sample ID   | Color  | CHR             |                                   | CRO   |        | TRF         |   | FBG  | MNW                                     |                                      | HAR   | SYN  | ОТН                                      |   |
|  | A-21  | Black  | 0               | 0                                 | 0     | 0      | 0           | 0   | 0  | 0                                       | 45                                   |   |  |  | 55  |
| Description:<br>Location:<br>Comments:   | Tar Paper<br>N/A  | sent? No   | o. A            | nalyzed:                          | Yes   |        |             |   |  |   |                                      |   |  |  |   |
|  |   | <u>ى بەر بەر بەر بەر بەر بەر بەر بەر بەر بەر</u> |                 |                                   | Asbes | stos % |             | -<br>Sectors of the sector of the |  | Card Carroll Concerning Concerning      | Non                                  | -Ashest   | <u>~e %</u>                                |  | ntelääntö tuono auroon                                |
|  | Sample ID   | Color  | CHR             | AMO                               | CRO   | ACT    | TRE         |   | FBG  | MNW                                     | CEL                                  | HAR   |  | отн                                      | NON   |
|  | A-22  | Multi  | 15              | 0                                 | 0     | 0      | 0           | 0   | 0  | 0                                       | 0                                    | 0   | 0  | 0  | 85  |
| Description:<br>Location:<br>Comments:   | Debris<br>N/A   |  |                 | al <del>e frances source</del> an |       |        |             |   |  | Is asbes                                | stos pre                             | sent? Ye  | es. A                                      | nalyzed:                                 | Yes   |
| en der sänder stade i sännen och det äver forst som forstadet att att sände                                    |   |  | \$50,323,023    |                                   | Asbes | stos % | contractory |   | ang sasa daga na manarang na                       |   | Non                                  | -Asbest   | os %                                       |  |   |
|  | Sample ID   | Color  | CHR             | AMO                               | CRO   | ACT    | TRE         | ANT   | FBG  | MNW                                     | CEL                                  | HAR   | SYN  | OTH                                      | NON   |
|  | A-23  |  | 0               | 0                                 | 0     | 0      | 0           | 0   | 0  | 0                                       | 0                                    | 0   | 0  | 0  | 0   |
| Description:<br>Location:<br>Comments:   | Debris<br>N/A   |  |                 |                                   |       |        |             |   |  | 105000000000000000000000000000000000000 | 726633469648553059679679679          |   | A  | nalyzed:                                 | No  |
|  |   |  |                 |                                   | Achor | too 0/ |             | erre docardo  |  |   | NI                                   | A _ I 4   | 0/   |  |   |
|  | Sample ID   | Color  | СНР             |                                   | ASDes |        | TDE         | ANIT  | ERC  | 6/1513A/                                | Non                                  | -Aspest   | OS %                                       | ATU                                      | NON   |
| · .  | A-24  | Multi  | 0               | 0                                 | 0     | 0      |             |   | 0  | 0                                       | 45                                   |   | 0  |  | 55  |
| Description:<br>Location:<br>Comments:   | Gasket<br>N/A   |  |                 | <u> </u>                          |       |        |             | L   |  | ls asbes                                | stos pre                             | sent? No  | <u> </u>                                   | nalyzed:                                 | Yes   |

| Client Name:<br>PO #:<br>Client Project :<br>Client Referen<br>Method:    | Tighe & Bond, Worcest<br>F-137-2<br>#: F-137-2<br>ce: Town of Monroe - Ram<br>EPA/600/R-93/116  | ter<br>age Paper                                | Mill                             |                                       |   |                          |                         | and a second |                           |  |                            | Batch<br>Date Sa<br>Date Ro<br>Date Ar<br>Date of | i:<br>ampled:<br>eceived:<br>nalyzed:<br>Report: | B1<br>4/<br>4/           | 100619<br>N/A<br>/27/2016<br>/29/2016<br>5/2/2016 |
|---|---|---|----------------------------------|---------------------------------------|---|--------------------------|-------------------------|--|---------------------------|--|----------------------------|---|--|--------------------------|---|
|   |   |   | Contract Association             |                                       | Asbes   | stos %                   |                         |  |                           |  | Non                        | -Asbest   | os %   |                          |   |
|   | Sample ID   | Color   | CHR                              | AMO                                   | CRO   | ACT                      | TRE                     | ANT  | FBG                       | MNW  | CEL                        | HAR   | SYN  | OTH                      | NON   |
|   | A-25  | Multi   | 0                                | 0                                     | 0   | 0                        | 0                       | 0  | 0                         | 0  | 45                         | 0   | 0  | 0                        | 55  |
| Description:<br>Location:<br>Comments:                                    | Gasket<br>N/A   |   |                                  | 500-contractor                        |   |                          |                         |  |                           | Is asbe  | stos pre                   | sent? No  | b. A   | nalyzed                  | : Yes   |
|   | n de la companya de<br>La companya de la comp | an dan Sangaran aya aya a                       |                                  |                                       | Achor   | ton 9/                   |                         |  | T                         |  |                            | A = I 4   | 0/   |                          |   |
|   | Sample ID   | Color   | CHR                              |                                       |   |                          | TRE                     |  | FRG                       | MNNAZ  |                            |   | OS %   | ΟΤΗ                      |   |
|   | A-26  | Tan   | 2                                | 0                                     | 0   | 0                        | 0                       | 0  |                           | 0  |                            |   | 0  |                          | 98  |
| Description:<br>Location:<br>Comments:                                    | Glazing<br>N/A  | 201010102000010200100                           | 1. Second and the second         | 1912/2014/00/00/00/00/00/00/00/00/00/ | <b>F</b> antana ang ang ang ang ang ang ang ang ang | vine schwarz (Varger     | асказиочного сонтастац  | ingenous an annan  |                           | ls asbes   | stos pre:                  | sent? Ye  | es. A  | nalyzed                  | : Yes   |
|   | Comments: Is asbestos present? Yes. Analyzed: Yes Asbestos % Non-Asbestos %   |   |                                  |                                       |   |                          |                         |  |                           |  |                            |   |  |                          | Berlind // Statistics and adding                  |
|   | Sample ID   | Color   | CHR                              | AMO                                   | CRO   | ACT                      | TRE                     | ANT  | FBG                       | MNW  | CEL                        | HAR   | SYN  | OTH                      | NON   |
|   | A-27  |   | 0                                | 0                                     | 0   | 0                        | 0                       | 0  | 0                         | 0  | 0                          | 0   | 0  | 0                        | 0   |
| Description:<br>Location:<br>Comments:                                    | Glazing<br>N/A  |   |                                  |                                       |   |                          |                         |  |                           |  |                            | ;   | A  | nalyzed:                 | No  |
|   | kan da manan manana manana mangang ng paganang sanang sanang sanang sanang sanang sanang sanang sanang sanang s   |   |                                  |                                       | Ashes   | tos %                    |                         |  |                           | and a state of the | Non.                       | Ashast  | 0e %   | an Maring and a solution |   |
|   | Sample (D   | Color   | CHR                              |                                       |   | ACT                      | TRE                     | ANT  | FBG                       | MNW  | CEL                        | HAR   | SYN  | отн                      | NON   |
|   | A-28  |   | 0                                | 0                                     | 0   | 0                        | 0                       | 0  | 0                         | 0  | 0                          | 0   | 0  | 0                        | 0   |
| Description:<br>Location:<br>Comments:                                    | Glazing<br>N/A  |   | I                                | L                                     |   |                          | L                       | I  | L                         | I <u></u>  |                            |   | A  | nalyzed:                 | No  |
| Asbestos Codes:<br>Non-Asbestos Codes<br>Note: To create a<br>Analyst: Pa | CHR = Chrysotile AN<br>FBG = Fiberglass MN<br>unique lab sample ID, dise the Batch<br>utricia Weakley   | 10 = Amosite<br>IW = Mineral W<br>r# and the Sa | <sup>7</sup> ool<br>Imele ID (e. | CRO = Cr<br>CEL = Ce<br>xample/ [Ba   | rocidolite<br>Ilulose<br>alch #] - [Sa              | AC<br>HAR<br>Imple ID]). | T = Actinolit<br>= Hair | e SYN  | TRE = Tren<br>= Synthetic | nolite<br>OʻT  | ANT = A<br>'H = Other<br>* | nthophyllite<br>NOI<br>All resi                   | v≕Non-Fib<br>llts are                            | rous Minera<br>in perc   | ds<br>entage.                                     |

| ProSc<br>22 Cummings P | cience /<br>ark, Woburn, MA 018 | Analytical Serv<br>301 T: 781-935-3212 F: 78 | rices, Inc. www.prosciend<br>1-932-4857 general@proscience.net | ce.net |        |             | T<br>(cir          | A<br>cle or   | <b>F</b><br>ne) | 3  <br>2  <br>TA  | Hours<br>Days | s 6 Ho<br>3 Day | ours Sa<br>/s 4-5 i | ame Da<br>Days (<br>roval requ | y N<br>Othe          | ext C                                 | )ay<br>h ana | vsis          | -<br>-     |            | <u></u>      | ₽4<br>3 /          | .si<br>00 | Bate           | sh #<br>1 9      |                      |            |
|------------------------|---------------------------------|--|--|--------|--------|-------------|--------------------|---|-----------------|---|---------------|-----------------|---------------------|--------------------------------|----------------------|---------------------------------------|--------------|---------------|------------|------------|--------------|--------------------|-----------|----------------|------------------|----------------------|------------|
| Client:                | Tighe & B                       | Bond, Inc.                                   |  |        |        |             |                    |   |                 | F   | Relin         | quishe          | ed By:              |                                |                      |                                       |              |               | $\rangle$  |            | <u> </u>     | Date               | : 4]      | $\overline{a}$ | Τ <sub>ε</sub> , | ,<br>ca              | -          |
| Address:               | 446 Main St                     | treet, Worcester                             | , MA   |        |        |             |                    |   |                 | F   | Rece          | ived E          | 3y:                 |                                | 7                    | th                                    | Ũ            | D             | 47         | 6          | 10           | Date               | : 4       | 12             | 7-11             | 60                   | 2          |
| Project #:             | F-137-2                         |  | PO: F-137-2  |        |        | P           | L]                 | M   |                 | #   | of S          | Sampl           | es                  | Re                             | cei                  | ved                                   | 1            | 27            | R          |            | Ana          | lyzed              | :         |                | 10               | 1745                 | 5AM        |
| Project Site:          | Town of Mc                      | onroe - Ramage                               | Paper Mill   | _ (    | Cha    | ain c       | of C               |   | ody             | R   | esul          | ts: em          | ail fax             | verba                          | al                   | Ву                                    | :            | »«            |            |            |              | Date               |           |                |                  | <u> </u>             | _          |
| Contact:               | Dan Dragon                      |  |  |        |        | 1.2 0       | puatua             | ,,  |                 | S   | top           | on firs         | st posi             | ive:                           | $\boldsymbol{\zeta}$ | Yes                                   | 5/           | No            |            |            |              |                    |           |                | <u></u>          |                      |            |
| Tel. / Fax #:          | 413-626-3833                    |  |  | _      |        |             | /                  | $\overline{)}$  |                 | , s   | pec           | ial Insi        | tructio             | ns:                            |                      |                                       |              |               |            |            | ~            |                    | 1         |                | <u></u>          |                      | -          |
| Email:                 | djdragon@tighe                  | ebond.com                                    |  | Ana    | alyst  | t/D         | ate:               | Ĥ   | tata            | D   | Ż             | Ver             | <u>e kli</u>        | 4. AR                          | 29                   |                                       | Cb           | y/C           | Date       | »://       | 1/1          | he                 | He        | .IL            | lea              | Kk .                 | -4246<br>1 |
|                        |                                 | Γ  |  |        |        |             |                    |   | tical I         | Proper  | ties          |                 |                     | Asb                            |                      | s Per                                 | centa        | ge (%         | )          | /          | Non          | Asbes              | tos Pe    | rcenta         | ge (%)           | $\overrightarrow{T}$ | 4          |
| Sample ID              | Date<br>Sampled                 | Descri                                       | ption / Location   | SSAPE  | Color  | Homogeneity | Texture<br>Friable | Morphology  | Extinction      | Sign of Elongat   | Pleochroism   |                 |                     | Chrysotile                     |                      | Arnosite<br>Crocidolite               | Tremolite    | Anthophyllite | Actinolite | Fiberglass | Mineral Wool | Cellulose          | Hair      | Synthetic      | Other            | Non Fibrous          |            |
| A-01.                  |                                 | TAR PA                                       | P∉R<br>Application # \   | Ø      | M      |             |                    |   |                 |   |               |                 |                     |                                |                      |                                       |              |               |            |            |              | 4 <i>1</i> :<br>15 |           |                |                  | R                    |            |
| A-02                   |                                 | 61   | *( Application #   | Ø      | M<br>C |             | NN                 | and the second se |                 |   |               |                 |                     |                                |                      | i i i i i i i i i i i i i i i i i i i |              |               |            |            | į            | HB<br>15           |           |                |                  | 25                   | -          |
| A.03                   |                                 | sį.  | •. Application #   | Ø      | M      | N           | n<br>F             |   |                 |   |               |                 |                     |                                |                      |                                       |              |               |            |            |              | 4£<br>15           |           |                |                  | -<br>\$0             | /          |
| A-04                   |                                 | TAR + GRE<br>ROSP                            | Application # こ  | Ø      | BK     | NY          |                    | Ŵ   | P               | and the second se | N             | ISB<br>         | 1500                | 25                             | ><br>                |                                       |              |               |            |            |              |                    |           |                |                  | ß                    | -          |
| A-05                   |                                 | ł¢   | y DNA<br>Application # 2                                       |        |        |             |                    |   |                 |   |               |                 |                     |                                |                      |                                       |              |               |            |            |              |                    |           |                |                  |                      | -          |
| A.06                   |                                 | H  | ·· DNA<br>Application # Z                                      |        |        |             |                    |   |                 |   |               |                 |                     |                                |                      |                                       |              |               |            |            |              |                    |           |                |                  |                      | -          |

Comments: Birefringence L= less than .010, M= .011-.029, H= greater than .03: Microscope Olympus BH-2, Serial # circle 1- 242277, 229027, 235000, 230663 Lab uses the EPA or ELAP point count method as appropriate. SSAPE = Stereo Scope Asb. % Est.

Lab Sample IDs: To form a lab sample id use Batch # - Sample ID.

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| Client                 |                                 |  |       |       |                          | (cir    | cle oi                | ne)        | TA.                               | [ in bu    | is. days | lab appr | oval req       | uired        | for rush | analy      | /sis                      |           |              | C     | l(            | ) ()   | <u>61</u>  | 9                  |
|                        |                                 | sond, Inc.   | _     |       |                          |         |                       |            | F                                 | Relin      | quishe   | ed By:   | 4              | 6            | ź        |            | _                         | )<br>2    |              | Dat   | e: •          | ile    | <u>e/1</u> | 4                  |
| Address:               | 446 Main S                      | treet, Worcester, MA   |       |       |                          |         | a Ann                 |            | F                                 | Rece       | ived E   | iy:      |                |              |          |            |                           |           |              | Dat   | e: (          |        |            |                    |
| Project #:             | F-13/-2                         | PO: F-137-2  |       |       | ۲1                       |         | <u>AI</u>             |            | #                                 | of S       | Sampl    | es       | R              | ecei         | ved:     | <u></u>    |                           |           | An           | alyze | d:            |        |            |                    |
| Project Site:          | Town of Mo                      | onroe - Ramage Paper Mill  | - (   | Chai  | i <b>n ol</b><br>1.2 Upd | f CI    | <b>usto</b><br>8/10/* | dy<br>1    | R                                 | esult      | ts: em   | ail fax  | verba          | al           | By:      |            |                           |           |              | Da    | te:           |        |            |                    |
| Contact:               | Dan Dragon                      |  | _     |       |                          |         |                       |            | s                                 | top        | on firs  | t posit  | ive:           | $\langle$    | Yes      | )/         | No                        |           |              |       |               |        |            |                    |
| Tel. / Fax #:          | 413-626-3833                    |  |       |       |                          |         |                       |            | s                                 | peci       | ial Inst | ructior  | าร:            |              |          |            |                           |           |              |       |               |        |            |                    |
| Email:                 | djdragon@tigh                   | ebond.com  | Ana   | lyst  | / Da                     | te:     | 4                     | R          | $\sum$                            | 4          | 129      | 116      |                |              | Q        | C by       | / / Di                    | ate: )    | VV.          | Ù     | $\mathcal{C}$ | 1.20   | 2,10       | о<br>О             |
|                        |                                 |  | s     | tereo | Scope                    | ,<br>Т  | Op                    | ical F     | Propert                           | ties       |          | २।<br>T  | Ast            | estos        | s Perc   | entag      | ie (%)                    | Ľ         | Ńo           | n Asb | estoś         | Percen | tage (%    | 6)<br>I            |
| Sample ID              | Date<br>Sampled                 | Description / Location   | SSAPE | Color | Homogeneity<br>Texture   | Friable | Morphology            | Extinction | Sign of Elongati<br>Birefringence | leochroism |          |          | Chrysotile     |              |          | remolite @ | nthophyllite<br>ctinolite | iberglass | linoral Mool |       | ellulose      | air    | ynthetic   | ther<br>on Fibrous |
| A-07.                  |                                 | GRATING<br>Application # 3   | Ø     | Th    | J4                       | N       | Ŵ                     | P          | <u>+</u><br>+                     |            | /.553    | 1550     | 2              |              |          | <u>1</u>   | <u>a   a</u>              |           |              | 2     |               |        |            | > z<br>            |
| A.08                   |                                 | Application # 3  |       |       |                          |         |                       |            |                                   |            |          |          |                |              |          |            |                           |           |              |       |               |        |            |                    |
| A-09                   |                                 | DNA<br>Application # 3   |       |       |                          |         |                       |            |                                   |            |          |          |                |              |          |            |                           | <br>      |              |       |               | -      | +          |                    |
| A.10                   |                                 | GLAZING Application # 4  | Ø     | Th    | JH                       | N       |                       |            |                                   |            |          |          |                |              |          |            |                           |           |              |       |               | +      |            | 100                |
| A-II                   |                                 | Application # 4  | Ø     | 办     | ĴĤ                       | N       |                       |            |                                   |            |          |          |                |              | -        |            |                           |           | · · · · · ·  |       |               |        |            | 100                |
| A-12                   |                                 | د ،<br>Application # لے  | Ø     | -/    | t.                       | N       |                       |            |                                   |            |          |          |                |              |          |            |                           |           |              |       |               | +      |            | 100                |

Comments: Birefringence L= less than .010, M= .011-.029, H= greater than .03: Microscope Olympus BH-2, Serial # circle 1- 242277, 229027, 235000, 230663 Lab uses the EPA or ELAP point count method as appropriate. SSAPE = Stereo Scope Asb. % Est. Lab Sample IDs: To form a lab sample id use Batch # - Sample ID.

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|------------------------|----------------------------------|--|--------|---|-------------|---------|-----------------------|------------|------------------|------------------------|-------------|---------------------------|-----------------|-----------------|---------------|-------------|-------------|-----------------------------|------------|-----------|--------------|---------------|-------------|-----------|----------|-------------|
| Client:                | Tighe & E                        | Bond, Inc.   |        |   |             |         |                       |            |                  | Re                     | linq        | uishe                     | d-By:           |                 | $\sum$        | 5           |             | 2                           | )<br>2_    | _         | Da           | te:           | -<br>4/z    | 76/       | 16       |             |
| Address:               | 446 Main S                       | treet, Worcester, MA   |        |   |             |         |                       |            |                  | Re                     | ceiv        | /ed B                     | /:              |                 |               |             |             |                             |            |           | Da           | te:           | <i>†</i>    | 7         |          |             |
| Project #:             | F-137-2                          | PO: F-137-2  |        | 1   | P           |         | M                     |            |                  | # o                    | of Sa       | ample                     | s               | Re              | ceiv          | ed:         |             |                             |            | An        | alvze        | ed:           | <u>,</u>    |           |          |             |
| Project Site:          | Town of Mo                       | onroe - Ramage Paper Mill  | (      | Cha   | in (        | of C    |                       | ody        | ,                | Res                    | sults       | : ema                     | il fax          | verba           | I             | By:         |             |                             |            |           | Da           | ate:          |             |           | <i></i>  |             |
| Contact:               | Dan Dragon                       |  |        |   |             | puut    |                       |            |                  | Sto                    | ро          | n firsi                   | positi          | ve:             | 0             | (es         | )/          | No                          |            |           |              |               |             |           |          |             |
| Tel. / Fax #:          | 413-626-3833                     |  |        |   |             |         |                       |            | -                | Spe                    | ecia        | ıl inşti                  | uction          | IS:             |               |             | <u> </u>    |                             |            |           |              |               |             |           |          |             |
| Email:                 | djdragon@tight                   | ebond.com  | Ana    | lyst  | / D         | ate     | :                     | f          | D                | )                      | 4           | 1/29                      | 116             | •               |               | Q           | C by        | /Da                         | ate:       | 11        | 11           | )             | 9           | .29       |          | <br>>       |
|                        |                                  |  | s      | stereo  | Sco         | pe      | 0                     | ptical     | Prop             | pertie                 | s /         | F                         | 21              | Asbe            | estos         | Perce       | entag       | e (%)                       |            | N         | on Ast       | estos         | Perc        | entage    | : (%)    |             |
| Sample ID              | Date<br>Sampled                  | Description / Location   | SSAPE  | Color   | Homogeneity | Texture | Friabie<br>Moroholoav | Extinction | Sign of Elongati | Birefringence          | Pleochroism | 11                        | <u></u>         | Chrysotile      | Amosite       | Crocidolite | Tremolite a | Anthophyllite<br>Actinolite | Tiharalass | Incidiase | Mineral Wool | Cellulose     | lair        | Synthetic | Other    | Jon Fibrous |
| A.13                   |                                  | SHEETROCK<br>Application #5  | Ø      | io<br>H   | Ň           | ny      |                       |            |                  |                        |             |                           |                 |                 |               |             |             | -1                          |            |           | J-1<br>Č     |               |             |           |          | 25          |
| Ariy                   |                                  | Application # 5  | Ø      | ω<br>Η  |             | n<br>T  |                       |            |                  |                        |             |                           |                 |                 |               |             |             |                             |            |           | H)<br>E      | 8             | +           | +         |          | 75          |
| A.15                   |                                  | Application # 5  | Ø      | W<br>H  | 2           |         |                       |            |                  |                        |             |                           |                 |                 |               |             |             |                             |            |           | 14<br>15     | 6             | _           |           | - í      | 5           |
| R.lle                  |                                  | PLASTER Application # 6  | Ø      | (-20)<br>1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1- | υĊ          | e k     |                       |            |                  |                        |             |                           |                 |                 |               |             |             |                             |            |           |              |               | +           |           |          | 100         |
| A.J                    |                                  | // Application # 🌾   | Ø      | Ģ   | JC          | X       |                       |            |                  |                        |             |                           |                 |                 |               |             |             |                             |            |           |              |               |             |           |          | 00          |
| A-18                   |                                  | '/ Application #   | Ø      | r n   | JC          |         |                       |            |                  |                        |             |                           |                 |                 |               |             |             |                             |            |           |              |               |             |           | /        | 00          |

| Birefingence L= less than .010, M= .011029, H= greater than .03: Microscope Olympus BH-2, Serial # circle 1- 242277, 229027, 235000, 230663 | Lab uses the EPA or ELAP point count method as appropriate. SSAPE = Stereo Scope Asb. % Est. |
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| Lab Sample IDs: To form a lab sample id use Batch # - Sample ID.  | Page 3 Of 5  |
|   | • )  |

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|-------------------------------|----------------------------------|--|----------|---------|-------------|------------------|-----------|---------------------------|--------------------------------|---------------|--------------|---------|------------------|---------------|------------|-----------------|--------------|--------|----------------|------------|--------------|-----------------|--------------------|-----------------|----------------------|------------|
| Client:                       | Tighe & E                        | Bond, Inc.   |          |         |             |                  |           |                           |                                | <u>`</u> A    | Relin        | auish   |                  | orovar re     | quire      |                 |              | nalysi | $\sum$         | The second |              |                 | <u> </u>           | ,<br>La         | 7.7                  | <u> </u>   |
| Address:                      | 446 Main St                      | treet, Worcester, MA   | _        |         |             |                  |           |                           |                                | R             | Rece         | eived   | Bv: 🗸            | <u> </u>      |            |                 |              | -      | and the second | <u></u>    |              | Date            | <u>~</u>           | 4               |                      |            |
| Project #:                    | F-137-2                          | PO: F-137-2  |          | -       | P           | <b>Ľ</b>         | W         |                           |                                | #             | of           | Samp    | les              |               | lec        | eive            | d.           |        |                |            |              | alvzor          | • <b></b> -        |                 |                      |            |
| Project Site:                 | Town of Mo                       | onroe - Ramage Paper Mill  | _        | Cha     | ain         | of               | Cus       | tod                       | iy                             | R             | esul         | ts: en  | nail fa:         | vert          | nal        | F               |              |        |                |            |              | Dat             | · <u>·</u>         |                 |                      |            |
| Contact:                      | Dan Dragon                       |  | _        | ver     | r 4.2       | Opdai            | (ed 8/    | 10/11                     |                                | s             | top          | on fir  | st nosi          | tive:         |            |                 | <u>ه</u>     | / N    |                |            |              |                 | <u>s.</u>          |                 |                      |            |
| Tel. / Fax #:                 | 413-626-3833                     |  |          |         |             |                  |           |                           | •                              | s             | pec          | ial/Ins | structio         | ns:           |            |                 |              |        | <u> </u>       |            |              |                 |                    |                 |                      |            |
| Email:                        | djdragon@tighe                   | ebond.com  | —<br>Ana | alyst   | t/C         | Date             | ):        | R                         | 5                              |               | 41           | 29      | ho               |               |            | (               | 20           | bv     | /Da            | te:        | M            | 117             | а.                 | 20              |                      |            |
|                               |                                  |  |          | Stere   | o Sc        | ope              | $\square$ | Optic                     | al Pr                          | opert         | ties         | 17      | RI               | As            | best       | os Pe           | rcen         | tage   | (%)            | Ĺ          | No           | n Asbe          | stos Pe            | ✓ /<br>srcentar | ge (%)               |            |
| Sample ID                     | Date<br>Sampled                  | Description / Location   | SSAPE    | Color   | Homogeneity | Texture          | Friable   | Murpriotogy<br>Extination | EXUICTION<br>Sign of Flongatio | Birefringence | Pleochroism  |         |                  | Chrysotila    |            | Amosite         |              |        | Actinolite     | iberglass  | Ainaral Mooi | altılose        | lair               | ynthetic        | ther                 | on Fibrous |
| A-19                          |                                  | TAR PAPER<br>Application # >   | Ø        | R B     | N           | M                | Ň         |                           |                                |               |              |         |                  |               |            | <u>&gt;   :</u> | <u>- 1 -</u> |        | 1~             |            |              | <u>HB</u><br>45 |                    |                 |                      | 5.5        |
| A.20                          |                                  | Application # 7  | Ø        | .B<br>K | N           | M<br>            | Ň         |                           |                                |               |              |         |                  |               |            |                 | 60 V         |        |                |            |              | HI-<br>45       |                    |                 |                      | 55         |
| AN                            |                                  | Application #  | Ø        | BK      | N           | M.               | 3         |                           |                                |               |              |         |                  |               |            |                 |              |        |                |            |              | <u>45</u>       | <u></u>            |                 |                      | 55         |
| A.22                          | ,                                | DEERIS<br>Application # 8  | Ø        | m<br>C  | N           | Sur June         |           | 16                        | 77                             |               | N            | 158     | 50               | 15            |            |                 |              | i.     |                |            |              |                 |                    |                 |                      | <b>7</b> 5 |
| K-23                          |                                  | UNA<br>Application # 8   |          |         |             |                  |           |                           |                                |               |              |         |                  |               |            |                 |              |        |                |            |              |                 |                    |                 |                      |            |
|                               |                                  | ,  |          | m       |             | n                |           |                           | $\uparrow$                     |               |              |         |                  | generation of |            |                 |              |        |                |            |              | 4P              | ┝──┦               |                 |                      |            |
| A.24                          |                                  | GASKET<br>Application # 9  | Ø        | ď       | N.          | n and the second |           |                           |                                |               |              |         |                  |               |            |                 |              |        |                |            |              | 45              |                    |                 |                      | <u>5</u> 5 |

Comments: Birefringence L= less than .010, M= .011-.029, H= greater than .03: Microscope Olympus BH-2, Serial # circle 1- 242277, 229027, 235000, 230663 Lab uses the EPA or ELAP point count method as appropriate. SSAPE = Stereo Scope Asb. % Est. Lab Sample IDs: To form a lab sample id use Batch # - Sample ID.

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|------------------------|---|---|--------------------|-------|-------------|----------|---------------------------|---------------------------|-------------------|---------------|-------------|---------------|---------------------|-------------------|---------|---------------|--------------|------------|---------------|--------------|--------------|------------|----------------------|----------|-------------|------------|------------------|
| Client:                | Tighe & E   | Bond, Inc.  |                    |       |             | <u> </u> |                           |                           |                   | R             | elinc       | uishe         |                     | oval requ         |         | r rush        | analy        |            | )             |              |              | <u></u>    | <u>al</u>            |          | Tt.         |            |                  |
| Address:               | 446 Main S  | treet, Worcester, MA  |                    |       |             |          |                           |                           |                   | R             | ecei        | ved B         | su by:              | Ż                 |         | _             | -            | dia a      | 2             | Date:        |              |            |                      |          | -           |            |                  |
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| Project Site:          | Town of Monroe - Ramage Paper Mill  |   |                    | Cha   | ain         | of C     | Cus                       | tody                      | 1                 | Re            | sults       | s: em         | ail fax             | verhal            |         | Bv:           |              |            |               |              |              | 4.<br>to:  | <u> </u>             |          | <b></b>     |            | -                |
| Contact:               | Dan Dragon  |   | -                  | ver   | 14.21       | Jpdate   | ea 8/1                    | 10/11                     |                   | St            | op c        | on firs       | t posit             | ive:              | ~       |               | <br>ז/ ף     |            |               |              |              |            |                      | <u> </u> |             |            | -                |
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| Email:                 | djdragon@tigh   | ebond.com   | _<br>Ana           | alys  | t/D         | )ate     | :                         | Ĥ                         | D                 |               |             | 46            | 29/1                | 0                 |         | QC            | ; bv         | /Da        | ate:/         | n.           | i ho         | 16         | . 11                 | 2.       | . bl.       | .9         | <u>.</u><br>29., |
|                        | · · · · · · · · · · · · · · · · · · ·   |   |                    | Stere | o Sco       | ope      |                           | Optica                    | Prop              | pertio        | es          | 7             | RÍ                  | Asbe              | stos    | Perce         | ntage        | e (%)      | Ľ             | Ńo           | n Asbe       | stos       | Perce                | entage   | e (%)       | 4          | ]                |
| Sample ID              | Date<br>Sampled   | Description / Location  | SSAPE              | Color | Homogeneity | Texture  | Friable                   | morpriology<br>Extinction | Sign of Elongatio | Birefringence | Pleochroism | []            |                     | Chrysotile        | Amosite | Crocidolite a | Tremolite    | Actinolite | liberalass    | dinoral Mool | Allitica WOU | Alluloac   | lair                 | ynthetic | ther        | on Fibrous |                  |
| A.25                   |   | GASFET<br>Application # 7   | Ø                  | MO    | N.          | M<br>T   | )-                        |                           |                   |               |             |               |                     |                   | -       | 161           | <u>- 1</u> - |            |               |              | 41           |            | <u>-</u>             | <u></u>  |             | <br>55     | ŗ                |
| A.26                   |   | GARZING<br>Application # 10   | Ø                  | T     | Ň           | H٨       | <u> </u>                  | <u>9</u> P                | j.                | 2             |             | \$33          | 1550                | 2                 |         |               |              |            |               |              |              |            | +                    | -+       |             | 78         |                  |
| p.27                   |   | Y DNA<br>Application # 10   |                    |       |             |          |                           |                           |                   |               |             |               |                     |                   |         |               |              |            |               |              |              |            |                      |          |             |            |                  |
| p.78                   |   | L, DNA<br>Application # 10  |                    |       |             |          |                           |                           |                   |               |             |               |                     |                   |         |               |              |            |               |              |              |            | -                    | +        |             |            |                  |
| -                      | Stan National State and a state of the Stat | Application #   | - Constant allowed |       |             |          |                           |                           |                   |               |             |               |                     |                   |         |               |              |            |               |              |              |            | +                    |          |             |            |                  |
|                        |   | Application #   |                    |       |             |          |                           |                           |                   | Raidheydar a  |             |               |                     |                   |         |               |              |            |               |              |              |            |                      |          |             |            |                  |

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# **APPENDIX C**



|                                   | Appendix C<br>Hazardous Materials Inventory |                         |                       |          |  |  |  |  |  |  |  |
|-----------------------------------|---|-------------------------|-----------------------|----------|--|--|--|--|--|--|--|
| Project:<br>Location:             | Ramage Paper Mill<br>Monroe, MA             | 111241 (104             | s materials inventory |          |  |  |  |  |  |  |  |
| Location                          | Waste Type                                  | Container Type          | Volume of Contents    | Quantity | Comments   |  |  |  |  |  |  |
| Wooden Section, ground<br>floor   | РСВ   | Ballast                 | -                     | 4        | Ballasts stored on the ground in a pile.                               |  |  |  |  |  |  |
| Wooden Section, ground<br>floor   | Universal Waste                             | Plastic bucket          | 5 Gals                | 2        | Buckets of partially used paint buckets stored on the floor.           |  |  |  |  |  |  |
| Wooden Section, ground<br>floor   | Oils  | Plastic bucket          | 5 Gals                | 1        | Hydraulic oil stored on the floor.                                     |  |  |  |  |  |  |
| Wooden Section, ground<br>floor   | Oils  | Plastic bucket          | 5 Gals                | 2        | Waste oil stored on the floor.   |  |  |  |  |  |  |
| Wooden Section, ground<br>floor   | Oils  | Plastic                 | Pint                  | 5        | Vehicle oil containers stored on floor.                                |  |  |  |  |  |  |
| Wooden Section, basement<br>floor | Mercury                                     | Fluorescent light tubes | -                     | 20       | Fluorescent light tubes in 4' length in place throughout the basement. |  |  |  |  |  |  |
| Wooden Section, basement<br>floor | РСВ   | Ballast                 | -                     | 10       | Ballasts associated with light units described above.                  |  |  |  |  |  |  |
| Wooden Section, basement<br>floor | Universal Waste                             | Tires                   | -                     | 12       | Used vehicle tires stored on basement floor.                           |  |  |  |  |  |  |

# **APPENDIX D**



| The last |
|----------|
| 2        |

**ProScience Analytical Services, Inc.** 22 Cummings Park, Woburn, MA 01801

Telephone: 781-935-3212 Facsimile: 781-932-4857 Email: <u>chemistry@proscience.net</u>

### Laboratory Report

Contact:Dan DragonClient:Tighe & BondAddress:446 Main StWorcester, MA 01608

Batch #: C 287986 Date received: 4/27/2016 Date analyzed: 4/27/2016 Date of report: 4/27/2016

AIHA-LAP, LLC Lab ID 102754

Project # F-137-2 P.O.# F-137-2 Project Site: Town of Monroe Ramage Paper Mill

### Lead Analysis In Paint Using SOP Based on SW846-7420/3051

Results in weight percent on an "as received" weight basis

|          |           | Sample |                |        | Reporting |          |
|----------|-----------|--------|----------------|--------|-----------|----------|
| Lab ID   | Client ID | date   | Description    | Result | Limit     | Comments |
| C 547849 | LBP-01    |        | Exterior Paint | 30     | 0.012     |          |
|          |           |        |                |        |           |          |
|          |           |        |                |        |           |          |
|          |           |        |                |        |           |          |
|          |           |        |                |        |           |          |
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|          |           |        |                |        |           |          |

Page

Simona Peavey, Tech. Manager Chemistry Aimee Cormier, Lab Director

1 of

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Unless otherwise indicated, all samples were received in acceptable condition. All result apply only to the samples as received and are accurate to no more than two significant figures. Unless otherwise indicated, all the quality control criteria for the method above have been met.

RL-Reporting Limit(%by weight)

Note on units: mg/Kg is the same as ppm by weight.

| Chemistry (                         | hemistry Chain of Custody Record   |  |  |                        |                |              | Rush/<6 Hours Turn Around Time Requested |  |             |                         |             |               |             |          |        |         |            |  |
|-------------------------------------|--|--|--|------------------------|----------------|--------------|--|--|-------------|-------------------------|-------------|---------------|-------------|----------|--------|---------|------------|--|
| LABORATORY/                         | HEADQUAR   | TERS   | www.j  | proscience.r           | net            |              |  | Same D   | ay          | Ne                      | xt Day      | 1             | 2 Day 3 Day |          |        |         | 5 Days     |  |
| 2 Cummings Parl<br>:781-935-3212 F: | k, Woburn, MA<br>781-932-4857  | 01801  | general  | general@proscience.net |                |              |  |  |             |                         |             |               |             |          |        |         |            |  |
| lient Ì/C                           | SHE \$   | BOND   |  |                        |                |              | NELAC                                    | ) analys   | is          |                         | Eleme       | nt            | gravi       | metric   |        |         |            |  |
| ddress Street                       | 446 1  | LAIN St.   |  |                        | -              | TYPE C       |  | S (circle)   |             |                         | Ph)         | Cd            | Cr          | As       |        |         |            |  |
| Town                                | 11/2000  |  | State/Zip  | 1 Λ                    | -              | DUST         | PAINT                                    | SOIL   | ]           | $\langle \zeta \rangle$ |             | 0             | 0,          | F.       | -      |         |            |  |
| roject Site Line 1-                 | T  |  | Project  | A                      | -              | WIPES        | ((0.1 g)                                 | (1 g)<br>TCLP  | 4           |                         | Se          | Ag            | ва          | re       | F      | or Labo | ratory Use |  |
| Line 2                              | 10WN OF  | Manroe   | Number + -   | -13/-6                 | -              |              | 135                                      | (100g)   | 4           |                         | Other (ple  | ase specify u | nder Co     | omments) | 3      | BATCH   | NUMBER     |  |
|                                     | KAMP   | NOE PAPER  | Mill F-  | -137-2                 |                | (min)        | PM10                                     | Other  |             |                         | 1           | [             |             |          | C      | 28-     | 1986       |  |
| ontact                              |  | 1  | Phone 4/3  | 3 626 383              | SPlease        | use a sepa   | arate form f                             | for each m   | atrix.      |                         |             | L             |             |          |        | 00      |            |  |
| <u>IDAN</u>                         | JA4  | SUN  | Alt/Pager  |                        | -              |              |  |  |             | ASTM                    | E1792       | FC            | R           | LABORA   | TORY   | USE     | ONLY       |  |
| Date and Time                       | Field  | Sample Des   | scription/Location   | Start                  | Air Sam<br>End | pling Inform | nation<br>End                            | Volume   | V<br>lenath | /iped a<br>width        | rea<br>Area | Weight        | AN<br>1     | ALYSIS   | 1      | 4       | Lab        |  |
| Sampled                             | I.D.   | · · · · · · · · · · · · · · · · · · ·  | <b>I</b>   | Time                   | Time           | Flowrate     | Flowrate                                 | (liters)   | (inch)      | (inch)                  | (sq in)     | (grams)       | Dil'n       | Reading  | RESULT |         | I.D.       |  |
|                                     | LBP-   | EXTERIOR   | PAINT  |                        |                |              |  |  |             |                         |             |               |             | 1        |        | 64      | 1-2849     |  |
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|                                     |  |  | 4848   |                        |                |              |  |  |             |                         |             |               |             |          |        |         |            |  |
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| elinquished By:                     | 1  | Tig  |  | Date:                  | 4/2            | 26/16        | 1 <i>i j</i>                             | 1  | uJ          | L                       | I           |               | :           | Time:    | 12     | 10      | 3          |  |
| eceived By:                         | 10000000000000000000000000000000000000   | ATTHIL C   | Istano   | Date:                  | e<br>10-10-10  | ,            | 4  | <u>-27-16</u>  | 2           |                         |             |               |             | Time:    |        | 10.     | :45 AT     |  |
| comments:                           |  |  |  |                        |                |              |  |  |             |                         |             |               |             |          |        |         |            |  |
| er 5.3                              |  |  |  |                        |                |              |  |  |             |                         |             | . 1           | PAGE        | 1        | OF     |         | 1          |  |
| Field blanks are                    | a required fo  | r aire and wines no  | w the compling metho   |                        |                |              |  |  |             |                         |             |               |             | •        |        |         | 8          |  |

Field blanks are required for airs and wipes per the sampling method.

Proscience Analytical Services reserves the right to subcontract samples to an appropriately accredited laboratory when we are unable to perform the analysis in house.



| <b>Tighe&amp;Bond</b>                              |             | PHOTOGRAPHIC LOG         |         |  |  |  |  |
|--|-------------|--------------------------|---------|--|--|--|--|
| Client Name:                                       | Site Locati | Site Location: Project N |         |  |  |  |  |
| Town of Monroe                                     | Depot Stree | et, Monroe, MA           | F-137   |  |  |  |  |
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|  |             | Star / 19 Article        |         |  |  |  |  |
| Description:                                       |             |                          |         |  |  |  |  |
| Southeast side of<br>Former Ramage<br>Paper Mill   |             |                          |         |  |  |  |  |
|  |             |                          |         |  |  |  |  |

| <b>Tighe&amp;Bond</b>                              |             | P              | PHOTOGRAPHIC LOG   |
|--|-------------|----------------|--|
| Client Name:                                       | Site Locati | on:            | Project No.:   |
| Town of Monroe                                     | Depot Stree | et, Monroe, MA | F-137  |
| Photo No.         Date:           2         4/6/16 |             |                |  |
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| West   |             |                |  |
| Description:                                       |             |                |  |
| Southeast side of                                  |             |                |  |
| Former Ramage                                      |             |                |  |
| Paper Mill   | L.          |                |  |
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|  |             |                |  |
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| <b>Tighe&amp;Bond</b>                                |             | PHOTOGRAPHIC LOG |              |  |  |  |  |
|--|-------------|------------------|--------------|--|--|--|--|
| Client Name:   | Site Locati | on:              | Project No.: |  |  |  |  |
| Town of Monroe                                       | Depot Stree | et, Monroe, MA   | F-137        |  |  |  |  |
| Photo No.         Date:           3         4/6/16   | 1 M         |                  |              |  |  |  |  |
| Direction Photo                                      | The second  |                  |              |  |  |  |  |
| Taken:   |             |                  |              |  |  |  |  |
| East   |             |                  |              |  |  |  |  |
| Description:   | 1           |                  |              |  |  |  |  |
| Stored windows with<br>asbestos glazing<br>compounds |             |                  |              |  |  |  |  |
|  |             |                  |              |  |  |  |  |

| <b>Tighe</b> &Bond                                 |             | PHOTOGRAPHIC LOG |              |  |  |  |  |
|--|-------------|------------------|--------------|--|--|--|--|
| Client Name:                                       | Site Locati | on:              | Project No.: |  |  |  |  |
| Town of Monroe                                     | Depot Stree | et, Monroe, MA   | F-137        |  |  |  |  |
| Photo No.         Date:           4         4/6/16 |             |                  |              |  |  |  |  |
| Direction Photo                                    |             |                  | ALC: NO.     |  |  |  |  |
| Taken:<br>North                                    |             |                  |              |  |  |  |  |
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| Ashastas containing                                |             |                  |              |  |  |  |  |
| asphalt based multi-                               |             |                  | -            |  |  |  |  |
| layered roofing                                    |             |                  |              |  |  |  |  |
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|  |             |                  |              |  |  |  |  |
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| <b>Tighe&amp;Bond</b>                              |                          | PHOTOGRAPHIC LOG |
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| Client Name:                                       | Site Location:           | Project No.:     |
| Town of Monroe                                     | Depot Street, Monroe, MA | F-137            |
| Photo No.         Date:           5         4/6/16 |                          |                  |
| Direction Photo                                    |                          |                  |
| Taken:   | Manada Landa             |                  |
| North  |                          |                  |
| Description:                                       |                          |                  |
| Transite boards                                    |                          |                  |

|   | Bond                     | <u>1</u> .22               |                       | PHOTOGRAPHIC LC              |
|---|--------------------------|----------------------------|-----------------------|------------------------------|
| Client Nam<br>Town of Mo  | e:<br>phroe              | Site Locati<br>Depot Stree | on:<br>et, Monroe, MA | <b>Project No.:</b><br>F-137 |
| Photo No.<br>6<br>Direction P<br>Taken:<br>South<br>Description | Date:<br>4/6/16<br>Photo |                            |                       |                              |
| Transite bo   | ards                     |                            |                       |                              |

| <b>Tighe</b> &   | Bond                    |                               | PHOTOGRAPHIC LOG      |                       |  |  |  |  |  |
|--|-------------------------|-------------------------------|-----------------------|-----------------------|--|--|--|--|--|
| Client Name<br>Town of Mor                             | e:<br>nroe              | Site Location<br>Depot Street | on:<br>et, Monroe, MA | Project No.:<br>F-137 |  |  |  |  |  |
| Photo No.<br>7<br>Direction P<br>Taken:<br>South       | Date:<br>4/6/16<br>hoto |                               |                       |                       |  |  |  |  |  |
| Description:<br>Friable magnesium<br>insulation debris |                         |                               |                       |                       |  |  |  |  |  |
|  |                         |                               |                       |                       |  |  |  |  |  |

| <b>Tighe&amp;Bond</b>                              |             | F              | HOTOGRAPHIC LOG |
|--|-------------|----------------|-----------------|
| Client Name:                                       | Site Locati | on:            | Project No.:    |
| Town of Monroe                                     | Depot Stree | et, Monroe, MA | F-137           |
| Photo No.         Date:           8         4/6/16 | 1           | And the Co     |                 |
| Direction Photo                                    | · ····      |                | 1.              |
| Taken:   |             |                | 123             |
| South  |             |                |                 |
| Description:                                       |             | 31             |                 |
| Friable magnesium<br>insulation debris             |             |                |                 |

| <b>Tighe</b> &       | Bond    |           |                 | PHOTOGRAPHIC LOG |
|----------------------|---------|-----------|-----------------|------------------|
| Client Name          | e:      | Site Loca | ition:          | Project No.:     |
| Town of Mor          | nroe    | Depot Str | eet, Monroe, MA | F-137            |
| Photo No.            | Date:   |           |                 |                  |
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| Direction Pl         | noto    |           |                 |                  |
| Taken:               |         |           |                 |                  |
| North                |         |           |                 |                  |
| Description          | 12      |           |                 |                  |
| Containers of cement | of roof |           |                 |                  |
|                      |         |           |                 |                  |

| Tighe&   | Bond                          |             |                          | Р | HOTOGRAPHI   | C LOG |
|--|-------------------------------|-------------|--------------------------|---|--------------|-------|
| Client Nam   | e:                            | Site Locati | on:                      |   | Project No.: |       |
| Town of Mo   | nroe                          | Depot Stree | Depot Street, Monroe, MA |   | F-137        |       |
| Photo No.  | <b>Date:</b><br>4/6/16        |             | Kay                      |   |              |       |
| Direction P<br>Taken:<br>West                      | hoto                          |             |                          | P |              |       |
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| <b>Tighe&amp;Bond</b> |                           | P                    | HOTOGRAPHIC LOG  |
|-----------------------|---------------------------|----------------------|--|
| Client Name:          | Site Locati               | on:                  | Project No.:   |
| Town of Monroe        | Depot Stree               | et, Monroe, MA       | F-137  |
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| Tighe&Bond      |                              | PHOTOGRAPHIC LOG  |
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| Tighe&      | Bond      |             |                   | PHOTOGRAPHIC LOG   |
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| Client Name | 9:        | Site Locati | on:               | Project No.:   |
| Town of Mor | nroe      | Depot Stree | et, Monroe, MA    | F-137  |
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| <b>Tighe</b> &                     | Bond                   |               | Р              | HOTOGRAPHIC LOG |
|------------------------------------|------------------------|---------------|----------------|-----------------|
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|                                    | nioe                   | Depot Stree   | et, Monioe, MA | F-137           |
| Photo No.                          | <b>Date:</b><br>4/6/16 |               |                |                 |
| Direction P<br>Taken:<br>Southwest | hoto                   |               |                |                 |
| Western wa<br>building             | ll of                  |               |                |                 |

| <b>Tighe</b> & | Bond   |             |                      | PHOTOGRAPHIC LOG   |
|----------------|--------|-------------|----------------------|--------------------|
| Client Nam     | e:     | Site Locati | on:                  | Project No.:       |
| Town of Mo     | nroe   | Depot Stree | et, Monroe, MA       | F-137              |
| Photo No.      | Date:  | •           |                      | A                  |
| 15             | 4/6/16 |             |                      |                    |
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# **Lighe** & Bond

Offices are located throughout New England.

www.tighebond.com