Limited Asbestos and Lead-Based Paint Survey

Ronald N. Davies Federal Building and U.S. Courthouse
102 North 4th Street
Grand Forks, North Dakota 58203

February 9, 2018

Terracon Project No. M1177147

Prepared for:
Design Edge, PC
Colorado Springs, Colorado

Prepared by:
Terracon Consultants, Inc.
West Fargo, North Dakota

February 9, 2018

Design Edge, PC
711 North Cascade Avenue, Suite 100
Colorado Springs, Colorado 80903

Attn: Ms. Swagata Guha
E: swagata@de-arch.com

Re: Limited (Renovation-Specific) Asbestos and Lead-Based Paint Survey
Ronald N. Davies Federal Building and U.S. Courthouse
102 North 4th Street
Grand Forks, North Dakota 58203
Terracon Project No. M1177147

Dear Ms. Guha:

Terracon Consultants, Inc. (Terracon) is pleased to submit the attached report for the above-referenced site to Design Edge, PC. The purpose of this report is to present the results of a limited (renovation-specific) asbestos and lead-based paint survey performed on January 19, 2018 and January 22, 2018, respectively. The surveys were conducted in general accordance with Terracon Proposal No. PM1177147 dated November 14, 2017. We understand that these surveys were requested to identify and locate asbestos-containing materials (ACM) and lead-based paint (LBP) in the client defined survey area, which is scheduled for renovation. We further understand that the client defined survey area did not include building corridors, the building exterior, attic spaces above the offices, or the building roof.

Terracon appreciates the opportunity to provide this service to Design Edge, PC. If you have any questions regarding this report please contact the undersigned at 701-282-9633.

Sincerely,
Terracon Consultants, Inc.

Rhonda L. Olson
Staff Geologist

Kevin M. Troyer
Senior Industrial Hygienist

TABLE OF CONTENTS

1.0 INTRODUCTION 1
1.1 Project Objective 1
1.2 Reliance 2
2.0 BUILDING DESCRIPTION 2
3.0 FIELD ACTIVITIES 2
3.1 Asbestos Survey 2
3.1.1 Visual Assessment 2
3.1.2 Physical Assessment 3
3.1.3 Sample Collection 3
3.2 Painted Surface Coating Assessment 3
3.3 Sample Analysis 4
4.0 REGULATORY OVERVIEW 4
4.1 Asbestos 4
4.2 Lead-Based Paint (LBP) 5
5.0 FINDINGS AND RECOMMENDATIONS 5
5.1 Asbestos Survey 6
5.2 Painted Surface Findings 7
6.0 LIMITATIONS/GENERAL COMMENTS 8

APPENDIX A IDENTIFIED ASBESTOS-CONTAINING MATERIALS BY HOMOGENEOUS AREA (HA)

APPENDIX B ASBESTOS SURVEY SAMPLE LOCATION SUMMARY

APPENDIX C IDENTIFIED LEAD-BASED PAINT LOCATIONS

APPENDIX D INDENTIFIED LEAD-BASED PAINT SCREENING SAMPLE LOCATION SUMMARY

APPENDIX E ANALYTICAL LABORATORY DATA

APPENDIX F LICENSES AND CERTIFICATIONS

APPENDIX G SAMPLE LOCATION DRAWING

LIMITED ASBESTOS AND LEAD-BASED PAINT SURVEY
Ronald N. Davies Federal Building and U.S. Courthouse
102 North 4th Street
Grand Forks, North Dakota 58203

Terracon Project No. M1177147
February 9, 2018

1.0 INTRODUCTION

Terracon conducted a limited (renovation-specific) asbestos and lead-based paint survey for Design Edge, PC of the Ronald N. Davies Federal Building and U.S. Courthouse at 102 North 4th Street, Grand Forks, North Dakota.

The limited asbestos survey was conducted on January 19, 2018, by AHERA[1] accredited and State of North Dakota certified asbestos and lead-based paint inspectors in general accordance with Terracon Proposal No. PM1177147 dated November 14, 2017.

Interior building components were surveyed and homogeneous areas[2] (HA) of suspect asbestos-containing materials (ACM) were visually identified and documented. Although reasonable effort was made to survey accessible suspect materials, additional suspect but unsampled materials could be located in walls, in voids, or in other concealed areas. Suspect ACM samples were collected in general accordance with the sampling protocols outlined in United States Environmental Protection Agency (USEPA) 40 Code of Federal Regulations (CFR) 763.86, Sampling. Samples were delivered to an accredited laboratory for analysis by polarized light microscopy (PLM).

Paint samples were collected from accessible painted surfaces. The paint samples were submitted to an accredited laboratory for analysis of lead by USEPA method 6010C.

1.1 Project Objective

We understand that the project services were requested due to planned renovation of the building. USEPA regulation 40 CFR 61-National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart M-National Emission Standard for Asbestos, prohibits the release of asbestos fibers to the atmosphere during demolition or renovation activities. The asbestos NESHAP requires that potentially regulated asbestos-containing building materials be identified, classified, and quantified prior to planned disturbances.

---

[1] AHERA = Asbestos Hazard Emergency Response Act
[2] A homogeneous area (HA) consists of building materials that appear similar throughout in terms of color and texture with consideration given to the date of application.

Paint sampling was completed to identify lead containing paints on painted components so that proper worker protection, environmental protection, and disposal can be completed.

1.2 Reliance

This report is for the exclusive use of Design Edge, PC for the project being discussed. Reliance by any other party on this report is prohibited without written authorization of Terracon and Design Edge, PC. Reliance on this report by Design Edge, PC and all authorized parties will be subject to the terms, conditions, and limitations stated in the proposal, this report, and Terracon's Agreement for Services. The limitations of liability defined in Terracon's Agreement for Services is the aggregate limit of Terracon's liability to Design Edge, PC.

2.0 BUILDING DESCRIPTION

Terracon understands the subject building consists of a three-story structure originally completed in 1906, with a large renovation in 1964. The building is currently utilized as offices and courthouses.

The client-defined survey area is approximately 9,000 square-feet (sf) located on the third floor. Interior walls are primarily plaster and gypsum wallboard (GWB). Flooring consists of carpet tiles and floor tile. Ceilings consist of plaster and drop-in ceilings with interlocking, steel, and/or acoustical ceiling tiles. Ducting connected to air handling units in the plenum space above the drop ceiling are covered in insulation.

3.0 FIELD ACTIVITIES

3.1 Asbestos Survey

The survey was conducted by Mr. Leif Schonteich and Ms. Rhonda Olson, AHERA accredited North Dakota Department of Health (NDDH) licensed asbestos inspectors. Copies of Mr. Schonteich's and Ms. Olson's asbestos inspector certifications are attached as Appendix D. The survey was conducted in general accordance with the sample collection protocols established in USEPA 40 CFR 763.86, Sampling. A summary of survey activities is provided in the following subsections.

3.1.1 Visual Assessment

Survey activities were initiated with visual observation of the interior and exterior of the building to identify homogeneous areas of suspect ACM. A homogeneous area (HA) consists of building materials that appear similar throughout in terms of color and texture with consideration given to the date of application. Interior assessment was conducted in visually accessible areas of the

building proposed for demolition. It should be noted that additional suspect but unsampled materials could be located inside walls, voids, or other concealed areas.

Terracon typically investigated for flooring beneath carpeting by lifting small corner sections of carpet. If tiles were seen, they have been identified in the report. If tiles were not seen at corners under the carpet, it does not imply that there are no tiles beneath the carpets. Terracon sampled accessible flooring materials but did not conduct destructive investigation on floors to identify multi-layered tile/underlayment systems, concealed paper, vapor barriers, or floor tiles/mastics under wood floor systems due to the historical nature of the building.

3.1.2 Physical Assessment

A physical assessment of each HA of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the USEPA as a material which can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

3.1.3 Sample Collection

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with USEPA sampling protocols. Samples of suspect materials were collected from randomly selected locations in each homogeneous area. Bulk samples were collected using wet methods as applicable to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker.

The selection of sample locations and frequency of sampling were based on Terracon's observations and the assumption that like materials in the same area are homogeneous in content. Terracon collected 39 bulk samples from 11 HAs. A summary of suspect ACM samples collected during the survey is included as Appendix B. A sample location drawing is included as Appendix E.

Terracon did not identify HAs assumed as ACM materials. Wood flooring was identified beneath layers of carpet, tile, and mastic. Terracon did not identify additional layers beneath the wood flooring in the areas accessible for inspection.

3.2 Painted Surface Coating Assessment

Terracon collected paint chip samples from painted components utilizing a chisel and sample bags. Terracon collected paint chip samples from the walls, chair rails, plaster ceiling, heat registers, door frames, and window frames and sills. A summary of paint types/colors sampled and locations where samples were collected during the survey are included as Appendix C and D, respectively.

3.3 Sample Analysis

Bulk samples were submitted under chain of custody to International Asbestos Testing Laboratories (IATL) of Mt. Laurel, New Jersey for analysis by PLM with dispersion staining techniques per USEPA's *Method for the Determination of Asbestos in Bulk Building Materials* (600/R-93/116). The percentage of asbestos, if present, was determined by microscopic visual estimation. IATL is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) Accreditation No. 101165-0.

The paint chip samples were submitted under chain of custody to International Asbestos Testing Laboratories (IATL) of Mt. Laurel, New Jersey for analysis of lead by USEPA method 6010C on a 5-day turnaround time (TAT). IATL is accredited under the American Industrial Hygiene Association (AIHA) Laboratory Accreditation Program (AIHA-LAP) (ID No. 100188) which is recognized by the National Lead Laboratory Accreditation Program.

4.0 REGULATORY OVERVIEW

4.1 Asbestos

The North Dakota Division of Air Quality under the NDDH enforces the asbestos NESHAP as adopted by reference in North Dakota Administrative Code Chapter 33-15-13. The owner or operator must provide NDDH with written notification at least 10 working days prior to the commencement of asbestos abatement activities that will disturb regulated ACM (RACM) in amounts greater than or equal to 160 square feet, 260 linear feet, or 35 cubic feet.

The asbestos NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. The asbestos NESHAP regulation also requires the identification and classification of existing ACM according to friability prior to demolition or renovation activity. Friable ACM is a material containing more than 1% asbestos that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. All friable ACM is considered RACM.

The asbestos NESHAP regulation classifies ACM as RACM, Category I nonfriable ACM, or Category II nonfriable ACM. RACM includes all friable ACM, along with Category I and Category II nonfriable ACMs that have become friable; will be or have been subjected to sanding, grinding, cutting or abrading; or that have a high probability of becoming or have become crumbled, pulverized, or reduced to powder in the course of renovation or demolition activity. Category I nonfriable ACMs are exclusively asbestos-containing packings, gaskets, resilient floor coverings, resilient floor covering mastics, and asphalt roofing products that contain more than 1% asbestos. Category II nonfriable ACMs are all other nonfriable materials other than Category I nonfriable

ACMs that contain more than 1% asbestos. Category II nonfriable ACMs generally include but are not limited to cementitious material such as cement pipes, cement siding, cement panels, glazing, mortar, and grouts.

The Occupational Safety and Health Administration (OSHA) asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard requires that employee exposure to airborne asbestos fibers be maintained below the permissible exposure limits (PELs) of 0.1 asbestos fiber per cubic centimeter of air (0.1 f/cc) as an 8-hour time-weighted average (TWA) or 1.0 f/cc as a 30-minute excursion limit. The OSHA standard classifies construction and maintenance activities that could disturb ACM and specifies work practices and precautions that employers must follow when engaging in each class of regulated work.

4.2 Lead-Based Paint (LBP)

Lead is regulated by the USEPA and OSHA. USEPA regulates lead use, removal, and disposal, and OSHA regulates worker exposure to lead. USEPA defines LBP as paint, varnish, stain or other applied coating that contains lead equal to or greater than 1.0 milligram per square centimeter (mg/cm^2), 5,000 milligrams per kilogram (mg/kg), or 0.5% by dry weight as determined by laboratory analysis. For the purpose of the OSHA lead standard, lead includes metallic lead, all inorganic lead compounds, and organic lead soaps. The OSHA standard does not define the amount of lead in paint that constitutes lead-containing paint.

USEPA regulates disposal of hazardous materials. The USEPA has stated that components removed with intact LBP that is not delaminating from the substrate may be disposed as general demolition debris. If the LBP is stripped from components, or if it is delaminating from the substrate, the waste may be subject to hazardous waste rules [i.e., Toxicity Characteristics Leaching Procedure (TCLP)].

USEPA issued the Renovation, Repair, and Painting (RRP) rule (40 CFR Part 745) requiring the use of lead-safe practices and other actions aimed at preventing lead poisoning. Under the rule, beginning in April 2010, contractors performing renovation, repair, and painting projects that disturb LBP in homes, childcare facilities, and schools built before 1978 must be certified and must follow specific work practices to prevent lead contamination. The NDDH has adopted similar regulations.

The OSHA Lead Standard for Construction (29 CFR 1926.62) applies to all construction work where an employee may be occupationally exposed to lead. All work related to construction, alteration or repair (including painting and decorating) is included. The lead-in-construction standard applies to any detectable concentration of lead in paint, as even small concentrations of lead can result in unacceptable employee exposures depending upon on the method of removal and other workplace conditions. Under this standard, construction includes, but is not limited to, the following:

- Demolition or salvage of structures where lead or materials containing lead are present
- Removal or encapsulation of materials containing lead
- New construction, alteration, repair, or renovation of structures, substrates, or portions containing lead, or materials containing lead
- Installation of products containing lead
- Lead contamination/emergency clean-up
- Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed
- Maintenance operations associated with construction activities described above

Employers must assure that no employee will be exposed to lead at concentrations greater than the PEL of 50 micrograms per cubic meter ($\mu g/m^3$) averaged over an eight-hour period without adequate protection. The OSHA standard also establishes an action level of 30 $\mu g/m^3$, which if exceeded, triggers certain requirements, including periodic exposure monitoring and medical monitoring.

5.0 FINDINGS AND RECOMMENDATIONS

5.1 Asbestos Survey

The following ACMs were identified as a result of laboratory analysis or assumed asbestos-containing:

Material Description	Material Location	NESHAP Classification	Estimated Quantity[3]
9" x 9" white floor tile	318, 320, 322, 322A, 322B, 324, 324B	Category I	1,750 SF
White joint compound	322, 322B, 324, 324A, 324B, 324C, 328, 330, 330A, 330B	RACM	260 Joints
Gypsum with joint compound composite	322, 322B, 324, 324A, 324B, 324C, 328, 330, 330A, 330B	RACM	1900 SF

The above listed RACM must be removed by a state of North Dakota licensed abatement contractor prior to any demolition activities that may disturb these materials in accordance with applicable federal, state, and local regulations.

The above listed Category I and Category II nonfriable ACMs that are damaged or could be damaged to the extent that they could be crumbled, pulverized or reduced to powder when dry,

[3] Estimated quantities are based on a cursory field evaluation, and actual quantities may vary significantly, especially if ACMs are present in hidden and/or inaccessible areas not evaluated as part of this survey. SF = square feet, LF = linear feet

making it friable, must be removed in accordance with applicable federal, state, and local regulations prior to any activities (renovation and/or demolition) that may disturb these materials.

Intentionally running over Category I and Category II nonfriable ACMs with tracked vehicles as a means of segregation or compaction, is considered grinding the material, making then friable RACM and subject to the asbestos NESHAP.

USEPA states that waste consolidation efforts that involve the use of jack hammers or other mechanical devices such as grinders to break up asbestos-containing concrete or other materials covered or coated with Category I nonfriable ACM, are subject to the regulation. If such materials adhering to the concrete are removed before waste consolidation, the waste consolidation is not subject to NESHAP. USEPA's interpretation is that when manual methods such as axes, hatchets, knives, spud bars, pry bars, and shovels, but not saws or methods that slice, shear, or punch such as a power slicer or power plow to remove roofing materials, are used, assuming the roof material is not friable, that the removal operation is not subject to the asbestos NEHSAP regulation.

Summaries of the classification, condition, and approximate quantity of identified and assumed ACMs are presented in Appendix A. The summary of sample locations is presented in Appendix B. Laboratory analytical reports are included in Appendix C.

Terracon can provide Design Edge, PC with a proposal for developing asbestos abatement specifications (project design) and for performing abatement oversight and air monitoring upon request.

5.2 Limited Lead-Based Paint Screening

The painting history of any given location often will vary from point to point due to many factors including variability in paints used, paint film thickness, variable retention of older paint layers before repainting, demolition/installation of walls during renovations, and unknown historic non-homogenous painting schemes. As such, a given color and building component combination that is currently apparent often will not provide consistent testing results for lead.

Terracon attempted to perform lead paint testing in sufficient quantity to establish trends in lead content based on distinguishable characteristics such as color or building component, subject to time and budget constraints. Based on the testing results presented in Appendix E, in Terracon's opinion the following components are known to contain lead:

- Tan/Green/White on gypsum wallboard above the chair rail.
- Tan/White/Green on plaster above drop ceiling.
- White/White/Grey on plaster below the chair rail.

The above list is not intended to be an all-inclusive list of all locations where LBP is present throughout the building. Terracon recommends that the contractor(s) involved in the stripping operation be notified of the presence of lead on painted components. OSHA's lead standards for construction (29 CFR 1926.62) apply regardless of the concentrations and contractor(s) will need to provide appropriate personal protective equipment and conduct personal exposure monitoring, at a minimum. Terracon recommends the contractor(s) review the specified work tasks and methods involved in the demolition process and prepare a detailed lead management plan. The management plan should identify the work procedures and health and safety measures to be used in the lead material removal. It should also be noted that any wastes derived during renovation/demolition activities that contain paints known to contain lead must be characterized for proper waste disposal.

6.0 LIMITATIONS/GENERAL COMMENTS

Terracon did not perform sampling which required demolition or destructive activities such as knocking holes in walls, dismantling of equipment or removal of protective coverings. Reasonable efforts to access suspect materials within known areas of restricted access (e.g., crawl spaces) were made; however, confined spaces or areas which may pose a health or safety risk to Terracon personnel were not sampled. Sampling did not include suspect materials which could not be safely reached with available ladders/man-lifts.

This asbestos survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions, and recommendations expressed in this report are based on conditions observed during our survey of the building. The information contained in this report is relevant to the date on which this survey was performed, and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by Design Edge, PC for specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories, or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.

It should be understood that our services may not have identified all ACMs present in inaccessible areas of the buildings. Additional assessment of hidden areas may be necessary during demolition/renovation activities in the event that suspect materials are uncovered.

APPENDIX A

Limited Asbestos Survey
Ronald N. Davies Federal Building and U.S. Courthouse
102 North 4th Street
Grand Forks, North Dakota

IDENTIFIED ASBESTOS-CONTAINING MATERIALS BY HOMOGENEOUS AREA (HA)

The materials listed in this table have been sampled and determined to contain asbestos in concentrations greater than 1%. When disturbed, various federal, state, and local regulations may apply. Removal may be necessary before renovations and in most cases before a demolition. See Appendix B for a summary of samples collected. See Appendix C for detailed analytical results.

HA No.	Material Description	Material Location	% and Type Asbestos[1]	NESHAP Classification	Condition	Estimated Quantity[2]
3	9" x 9" white floor tile	318, 320, 322, 322A, 322B, 324, 324B	PC[3] 2.1% Chrysotile	Category I	Good	1732 SF
15	White joint compound	322, 322B, 324, 324A, 324B, 324C, 328, 330, 330A, 330B	PC 9.2% Chrysotile	RACM	Good	260 Joints
15	Gypsum with joint compound composite	322, 322B, 324, 324A, 324B, 324C, 328, 330, 330A, 330B	PC 2.0% Chrysotile	RACM	Good	1900 SF

[1] % & Type Asbestos - this column contains both the analytical result of the sample with the highest concentration of asbestos detected in the samples that make up the HA and the types of asbestos identified.
[2] Estimated quantities are based on a cursory field evaluation, and actual quantities may vary significantly, especially if ACMs are present in hidden and/or inaccessible areas not evaluated as part of this survey. SF = square feet, LF = linear feet
[3] Point count

APPENDIX B

Limited Asbestos Survey
Ronald N. Davies Federal Building and U.S. Courthouse
102 North 4th Street
Grand Forks, North Dakota

ASBESTOS SURVEY SAMPLE LOCATION SUMMARY

HA No.	Material Description	Sample Number	Sample Location	Lab Results
1	Grey floor tile	1-FT2-01	Doorway of Room 324C	None detected
1	Yellow mastic	1-FT2-01	Doorway of Room 324C	None detected
1	Brown mastic	1-FT2-01	Doorway of Room 324C	None detected
1	Grey floor tile	1-FT2-02	Doorway of Room 324C	None detected
1	Yellow mastic	1-FT2-02	Doorway of Room 324C	None detected
1	Brown mastic	1-FT2-02	Doorway of Room 324C	None detected
1	Grey floor tile	1-FT2-03	Doorway of Room 324A	None detected
1	Yellow mastic	1-FT2-03	Doorway of Room 324A	None detected
1	Brown mastic	1-FT2-03	Doorway of Room 324A	None detected
2	Green mastic	2-MG6-04	East Wall of Room 328	None detected
2	Grey mastic	2-MG6-04	East Wall of Room 328	None detected
2	Green mastic	2-MG6-05	SW corner of Room 328	None detected
2	Grey mastic	2-MG6-05	SW corner of Room 328	None detected
2	Green mastic	2-MG6-06	N doorway of Room 328	None detected
3	**White floor tile**	**3-FT3-07**	**SE corner of Room 322**	**PC 2.1% Chrysotile**
3	Yellow mastic	3-FT3-07	SE corner of Room 322	None detected
3	White mastic	3-FT3-07	SE corner of Room 322	None detected
3	Black mastic	3-FT3-07	SE corner of Room 322	None detected
3	Light brown floor tile	3-FT3-08	SE corner of Room 322B	None detected
3	White mastic	3-FT3-08	SE corner of Room 322B	None detected
3	Yellow mastic	3-FT3-08	SE corner of Room 322B	None detected
3	Black mastic	3-FT3-08	SE corner of Room 322B	None detected

HA No.	Material Description	Sample Number	Sample Location	Lab Results
3	**Grey floor tile**	**3-FT3-09**	**SE corner of Room 320**	**PC 0.25% Chrysotile**
3	Yellow mastic	3-FT3-09	SE corner of Room 320	None detected
3	Black mastic	3-FT3-09	SE corner of Room 320	None detected
4	Light brown mastic	4-MG5-10	SE corner of Room 330A	None detected
4	Red carpet	4-MG5-10	SE corner of Room 330A	None detected
4	Light brown mastic	4-MG5-11	NE corner of Room 330B	None detected
4	Light brown mastic	4-MG5-12	SW corner of Room 330	None detected
4	Dark yellow mastic	4-MG5-12	SW corner of Room 330	None detected
4	Brown mastic	4-MG5-12	SW corner of Room 330	None detected
5	Red cove base	5-FC3-13	N wall of Room 330A	None detected
5	White joint compound	5-FC3-13	N wall of Room 330A	None detected
5	Brown mastic	5-FC3-13	N wall of Room 330A	None detected
5	Dark yellow mastic	5-FC3-13	N wall of Room 330A	None detected
5	Red cove base	5-FC3-14	SE corner of Room 330B	None detected
5	White joint compound	5-FC3-14	SE corner of Room 330B	None detected
5	Brown mastic	5-FC3-14	SE corner of Room 330B	None detected
5	Red cove base	5-FC3-15	N wall of Room 330B	None detected
5	Yellow mastic	5-FC3-15	N wall of Room 330B	None detected
6	Grey cove base	6-FC3-16	NW corner of Room 324A	None detected
6	Yellow mastic	6-FC3-16	NW corner of Room 324A	None detected
6	Grey cove base	6-FC3-17	NW corner of Room 324C	None detected
6	Yellow mastic	6-FC3-17	NW corner of Room 324C	None detected
6	Grey cove base	6-FC3-18	SW corner of Room 324A	None detected
6	Yellow mastic	6-FC3-18	SW corner of Room 324A	None detected
6	Brown mastic	6-FC3-18	SW corner of Room 324A	None detected
6	White leveling compound	6-FC3-18	SW corner of Room 324A	None detected
7	Red cove base	7-FC3-19	Room 324	None detected
7	Light yellow mastic	7-FC3-19	Room 324	None detected
7	Dark yellow mastic	7-FC3-19	Room 324	None detected
7	Red cove base	7-FC3-20	Room 324	None detected
7	Light yellow/dark yellow mastic	7-FC3-20	Room 324	None detected
7	Red cove base	7-FC3-21	Room 324	None detected
7	Light yellow/dark yellow mastic	7-FC3-21	Room 324	None detected

HA No.	Material Description	Sample Number	Sample Location	Lab Results
7	Brown mastic	7-FC3-21	Room 324	None detected
8	Light brown cove base	8-FC3-22	Room 324B	None detected
8	Brown mastic	8-FC3-22	Room 324B	None detected
8	Yellow mastic	8-FC3-22	Room 324B	None detected
8	Light brown cove base	8-FC3-23	Room 324B	None detected
8	Brown mastic	8-FC3-23	Room 324B	None detected
8	Yellow mastic	8-FC3-23	Room 324B	None detected
8	Light brown cove base	8-FC3-24	Room 324B	None detected
8	Brown mastic	8-FC3-24	Room 324B	None detected
8	Yellow mastic	8-FC3-24	Room 324B	None detected
8	White mastic	8-FC3-24	Room 324B	None detected
9	Beige ceiling tile	9-CT4-25	Room 324	None detected
9	Beige ceiling tile	9-CT4-26	Room 328	None detected
9	Beige ceiling tile	9-CT4-27	Room 330	None detected
10	Off-white drywall	10-WB1-28	Room 330	None detected
10	White joint compound	10-WB1-28	Room 330	None detected
10	Composite	10-WB1-28	Room 330	None detected
10	White woven material	10-WB1-28	Room 330	None detected
10	Off-white drywall	10-WB1-29	Room 330	None detected
10	White joint compound	10-WB1-29	Room 330	None detected
10	Composite	10-WB1-29	Room 330	None detected
10	White woven material	10-WB1-29	Room 330	None detected
10	Off-white drywall	10-WB1-30	Room 328	None detected
10	White joint compound	10-WB1-30	Room 328	None detected
10	Composite	10-WB1-30	Room 328	None detected
10	Off-white drywall	10-WB1-31	Room 324	None detected
10	Off-white drywall	10-WB1-32	Room 324A	None detected
10	**White joint compound**	**10-WB1-32**	**Room 324A**	**PC 9.2% Chrysotile**
10	**Composite**	**10-WB1-32**	**Room 324A**	**PC 2.0% Chrysotile**
11	Beige plaster	11-HP2-33	Room 330 ceiling	None detected
11	White plaster	11-HP2-33	Room 330 ceiling	None detected
11	Beige plaster	11-HP2-34	Room 330 wall	None detected
11	White plaster	11-HP2-34	Room 330 wall	None detected

HA No.	Material Description	Sample Number	Sample Location	Lab Results
11	Beige plaster	11-HP2-35	Room 328 wall	None detected
11	White plaster	11-HP2-35	Room 328 wall	None detected
11	Beige plaster	11-HP2-36	Room 324 wall	None detected
11	White plaster	11-HP2-36	Room 324 wall	None detected
11	Beige plaster	11-HP2-37	Room 324 ceiling	None detected
11	White plaster	11-HP2-37	Room 324 ceiling	None detected
11	Beige plaster	11-HP2-38	Room 320 wall	None detected
11	White plaster	11-HP2-38	Room 320 wall	None detected
11	Beige plaster	11-HP2-39	Room 320 ceiling	None detected
11	White plaster	11-HP2-39	Room 320 ceiling	None detected

APPENDIX C

Limited Lead-Based Paint Screening
Ronald N. Davies Federal Building and U.S. Courthouse
102 North 4th Street
Grand Forks, North Dakota

IDENTIFIED LEAD-BASED PAINT LOCATIONS

Paint Color	Location	Substrate	Analytical Result (% by weight)
Tan/green/ white	Upper wall (above chair rail)	GWB	8.0
Tan/white	Upper wall/ceiling above drop ceiling	Cement board	4.9
White/white /grey	Lower wall (below chair rail)	Cement board	12

GWB = gypsum wall board

APPENDIX D

Limited Lead-Based Paint Screening
Ronald N. Davies Federal Building and U.S. Courthouse
102 North 4th Street
Grand Forks, North Dakota

LEAD-BASED PAINT SCREENING SAMPLE LOCATION SUMMARY

Room	Color	Substrate	Condition	Lead Content[1]	Notes
1	**Tan/green/white**	**GWB**	**Intact**	**8.0**	**Upper wall (above chair rail)**
2	Tan/white/green	Wood	Intact	0.10	Chair rail
3	**Tan/white**	**Cement board**	**Intact**	**4.9**	**Upper wall/ceiling above drop ceiling**
4	White/white	Metal	Intact	0.0059	Heat registers
5	**White/white/grey**	**Cement board**	**Poor**	**12**	**Lower wall (below chair rail)**
6	Brown/tan/green	Wood	Intact	0.33	Door frames
7	Tan/green	Wood	Intact	0.18	Window frames/sills

GWB = gypsum wall board
1 = Percent by weight

APPENDIX E

ANALYTICAL LABORATORY DATA

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018	
	860 9th Street NE, Unit K	Report No.:	555894 - PLM	Rev #2, 1/30/2018
	West Fargo ND 58078	Project:	Ronald Davies	
		Project No.:	M1177147	
Client:	TER932			

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6429597
Client No.: 1-FT2-01
Analyst Observation: Grey Floor Tile
Client Description: 12x12 Grey Floor Tile
Location: Doorway Of Room 324C
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6429597(L2)
Client No.: 1-FT2-01
Analyst Observation: Yellow Mastic
Client Description: 12x12 Grey Floor Tile
Location: Doorway Of Room 324C
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6429597(L3)
Client No.: 1-FT2-01
Analyst Observation: Brown Mastic
Client Description: 12x12 Grey Floor Tile
Location: Doorway Of Room 324C
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
8 Cellulose
3 Synthetic

Percent Non-Fibrous Material:
89

Lab No.: 6429598
Client No.: 1-FT2-02
Analyst Observation: Grey Floor Tile
Client Description: 12x12 Grey Floor Tile
Location: Doorway Of Room 324C
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6429598(L2)
Client No.: 1-FT2-02
Analyst Observation: Yellow Mastic
Client Description: 12x12 Grey Floor Tile
Location: Doorway Of Room 324C
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
5 Cellulose

Percent Non-Fibrous Material:
95

Lab No.: 6429598(L3)
Client No.: 1-FT2-02
Analyst Observation: Brown Mastic
Client Description: 12x12 Grey Floor Tile
Location: Doorway Of Room 324C
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
5 Cellulose

Percent Non-Fibrous Material:
95

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/23/2018
Date Analyzed: 01/30/2018
Signature:
Analyst: Brittney Crisera

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018	
	860 9th Street NE, Unit K	Report No.:	555894 - PLM	Rev #2, 1/30/2018
	West Fargo ND 58078	Project:	Ronald Davies	
		Project No.:	M1177147	
Client:	TER932			

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6429599
Client No.: 1-FT2-03
Analyst Observation: Grey Floor Tile
Client Description: 12x12 Grey Floor Tile
Location: Doorway Of Room 324A
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429599(L2)
Client No.: 1-FT2-03
Analyst Observation: Yellow Mastic
Client Description: 12x12 Grey Floor Tile
Location: Doorway Of Room 324A
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 5 Cellulose
Percent Non-Fibrous Material: 95

Lab No.: 6429599(L3)
Client No.: 1-FT2-03
Analyst Observation: Brown Mastic
Client Description: 12x12 Grey Floor Tile
Location: Doorway Of Room 324A
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429600
Client No.: 2-MG6-04
Analyst Observation: Green Mastic
Client Description: Green Carpet Glue
Location: East Wall Of Room 328
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429600(L2)
Client No.: 2-MG6-04
Analyst Observation: Grey Mastic
Client Description: Green Carpet Glue
Location: East Wall Of Room 328
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429601
Client No.: 2-MG6-05
Analyst Observation: Green Mastic
Client Description: Green Carpet Glue
Location: SW Corner Of Room 328
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/23/2018
Date Analyzed: 01/30/2018
Signature:
Analyst: Brittney Crisera

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018	
	860 9th Street NE, Unit K	Report No.:	555894 - PLM	Rev #2, 1/30/2018
	West Fargo ND 58078	Project:	Ronald Davies	
		Project No.:	M1177147	
Client:	TER932			

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6429601(L2) **Analyst Observation:** Grey Mastic **Location:** SW Corner Of Room 328
Client No.: 2-MG6-05 **Client Description:** Green Carpet Glue **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: None Detected Percent Non-Fibrous Material: 100

Lab No.: 6429602 **Analyst Observation:** Green Mastic **Location:** N Doorway Of Room 328
Client No.: 2-MG6-06 **Client Description:** Green Carpet Glue **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: 5 Cellulose Percent Non-Fibrous Material: 95

Lab No.: 6429603 **Analyst Observation:** White Floor Tile **Location:** SE Corner Of Room 322
Client No.: 3-FT3-07 **Client Description:** Carpet Glue & Mastic On Floor Tile **Facility:**
Percent Asbestos: ***PC 2.1*** *Chrysotile* Percent Non-Asbestos Fibrous Material: None Detected Percent Non-Fibrous Material: 97.9

Lab No.: 6429603(L2) **Analyst Observation:** Yellow Mastic **Location:** SE Corner Of Room 322
Client No.: 3-FT3-07 **Client Description:** Carpet Glue & Mastic On Floor Tile **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: None Detected Percent Non-Fibrous Material: 100

Lab No.: 6429603(L3) **Analyst Observation:** White Mastic **Location:** SE Corner Of Room 322
Client No.: 3-FT3-07 **Client Description:** Carpet Glue & Mastic On Floor Tile **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: None Detected Percent Non-Fibrous Material: 100

Lab No.: 6429603(L4) **Analyst Observation:** Black Mastic **Location:** SE Corner Of Room 322
Client No.: 3-FT3-07 **Client Description:** Carpet Glue & Mastic On Floor Tile **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: None Detected Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/23/2018
Date Analyzed: 01/30/2018
Signature:
Analyst: Brittney Crisera

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018	
	860 9th Street NE, Unit K	Report No.:	555894 - PLM	Rev #2, 1/30/2018
	West Fargo ND 58078	Project:	Ronald Davies	
		Project No.:	M1177147	
Client:	TER932			

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6429604
Client No.: 3-FT3-08
Analyst Observation: Lt Brown Floor Tile
Client Description: Carpet Glue & Mastic On Floor Tile
Location: SE Corner Of Room 322B
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429604(L2)
Client No.: 3-FT3-08
Analyst Observation: White Mastic
Client Description: Carpet Glue & Mastic On Floor Tile
Location: SE Corner Of Room 322B
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429604(L3)
Client No.: 3-FT3-08
Analyst Observation: Yellow Mastic
Client Description: Carpet Glue & Mastic On Floor Tile
Location: SE Corner Of Room 322B
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429604(L4)
Client No.: 3-FT3-08
Analyst Observation: Black Mastic
Client Description: Carpet Glue & Mastic On Floor Tile
Location: SE Corner Of Room 322B
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 8 Cellulose
Percent Non-Fibrous Material: 92

Lab No.: 6429605
Client No.: 3-FT3-09
Analyst Observation: Grey Floor Tile
Client Description: Carpet Glue & Mastic On Floor Tile
Location: SE Corner Of Room 320
Facility:

Percent Asbestos: ***PC 0.25*** *Chrysotile*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 99.75

Note: Analyzed by R.Hargrove 1-30-18

Lab No.: 6429605(L2)
Client No.: 3-FT3-09
Analyst Observation: Yellow Mastic
Client Description: Carpet Glue & Mastic On Floor Tile
Location: SE Corner Of Room 320
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/23/2018
Date Analyzed: 01/30/2018
Signature:
Analyst: Brittney Crisera

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018	
	860 9th Street NE, Unit K	Report No.:	555894 - PLM	Rev #2, 1/30/2018
	West Fargo ND 58078	Project:	Ronald Davies	
		Project No.:	M1177147	
Client:	TER932			

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6429605(L3) **Analyst Observation:** Black Mastic **Location:** SE Corner Of Room 320
Client No.: 3-FT3-09 **Client Description:** Carpet Glue & Mastic On Floor Tile **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: None Detected Percent Non-Fibrous Material: 100

Lab No.: 6429606 **Analyst Observation:** Lt Brown Mastic **Location:** SE Corner Of Room 330A
Client No.: 4-MG5-10 **Client Description:** Green/Grey Mastic **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: 4 Cellulose Percent Non-Fibrous Material: 96

Lab No.: 6429606(L2) **Analyst Observation:** Red Carpet **Location:** SE Corner Of Room 330A
Client No.: 4-MG5-10 **Client Description:** Green/Grey Mastic **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: 98 Synthetic Percent Non-Fibrous Material: 2

Lab No.: 6429607 **Analyst Observation:** Lt Brown Mastic **Location:** NE Corner Of Room 330B
Client No.: 4-MG5-11 **Client Description:** Green/Grey Mastic **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: None Detected Percent Non-Fibrous Material: 100

Lab No.: 6429608 **Analyst Observation:** Lt Brown Mastic **Location:** SW Corner Of Room 330
Client No.: 4-MG5-12 **Client Description:** Green/Grey Mastic **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: 2 Cellulose Percent Non-Fibrous Material: 98

Lab No.: 6429608(L2) **Analyst Observation:** Dk Yellow Mastic **Location:** SW Corner Of Room 330
Client No.: 4-MG5-12 **Client Description:** Green/Grey Mastic **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: 4 Cellulose Percent Non-Fibrous Material: 96

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/23/2018
Date Analyzed: 01/30/2018
Signature:
Analyst: Brittney Crisera

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018	
	860 9th Street NE, Unit K	Report No.:	555894 - PLM	Rev #2, 1/30/2018
	West Fargo ND 58078	Project:	Ronald Davies	
		Project No.:	M1177147	
Client:	TER932			

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6429608(L3) **Analyst Observation:** Brown Mastic **Location:** SW Corner Of Room 330
Client No.: 4-MG5-12 **Client Description:** Green/Grey Mastic **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: None Detected Percent Non-Fibrous Material: 100

Lab No.: 6429609 **Analyst Observation:** Red Cove Base **Location:** N Wall Of Room 330A
Client No.: 5-FC3-13 **Client Description:** Red 4" Base Cove And Mastic **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: None Detected Percent Non-Fibrous Material: 100

Lab No.: 6429609(L2) **Analyst Observation:** White Joint Compound **Location:** N Wall Of Room 330A
Client No.: 5-FC3-13 **Client Description:** Red 4" Base Cove And Mastic **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: None Detected Percent Non-Fibrous Material: 100

Lab No.: 6429609(L3) **Analyst Observation:** Brown Mastic **Location:** N Wall Of Room 330A
Client No.: 5-FC3-13 **Client Description:** Red 4" Base Cove And Mastic **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: None Detected Percent Non-Fibrous Material: 100

Lab No.: 6429609(L4) **Analyst Observation:** Dk Yellow Mastic **Location:** N Wall Of Room 330A
Client No.: 5-FC3-13 **Client Description:** Red 4" Base Cove And Mastic **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: None Detected Percent Non-Fibrous Material: 100

Lab No.: 6429610 **Analyst Observation:** Red Cove Base **Location:** SE Corner Of Room 330B
Client No.: 5-FC3-14 **Client Description:** Red 4" Base Cove And Mastic **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: None Detected Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/23/2018
Date Analyzed: 01/30/2018
Signature:
Analyst: Brittney Crisera

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018	
	860 9th Street NE, Unit K	Report No.:	555894 - PLM	Rev #2, 1/30/2018
	West Fargo ND 58078	Project:	Ronald Davies	
		Project No.:	M1177147	
Client:	TER932			

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6429610(L2)
Client No.: 5-FC3-14
Analyst Observation: White Joint Compound
Client Description: Red 4" Base Cove And Mastic
Location: SE Corner Of Room 330B
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429610(L3)
Client No.: 5-FC3-14
Analyst Observation: Brown Mastic
Client Description: Red 4" Base Cove And Mastic
Location: SE Corner Of Room 330B
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429611
Client No.: 5-FC3-15
Analyst Observation: Red Cove Base
Client Description: Red 4" Base Cove And Mastic
Location: N Wall Of Room 330B
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429611(L2)
Client No.: 5-FC3-15
Analyst Observation: Yellow Mastic
Client Description: Red 4" Base Cove And Mastic
Location: N Wall Of Room 330B
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429612
Client No.: 6-FC3-16
Analyst Observation: Grey Cove Base
Client Description: Brown 4" Base Cove And Mastic
Location: NW Corner Of Room 324A
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429612(L2)
Client No.: 6-FC3-16
Analyst Observation: Yellow Mastic
Client Description: Brown 4" Base Cove And Mastic
Location: NW Corner Of Room 324A
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/23/2018
Date Analyzed: 01/30/2018
Signature:
Analyst: Brittney Crisera

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018	
	860 9th Street NE, Unit K	Report No.:	555894 - PLM	Rev #2, 1/30/2018
	West Fargo ND 58078	Project:	Ronald Davies	
		Project No.:	M1177147	
Client:	TER932			

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6429613
Client No.: 6-FC3-17
Analyst Observation: Grey Cove Base
Client Description: Brown 4" Base Cove And Mastic
Location: NW Corner Of Room 324C
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429613(L2)
Client No.: 6-FC3-17
Analyst Observation: Yellow Mastic
Client Description: Brown 4" Base Cove And Mastic
Location: NW Corner Of Room 324C
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429614
Client No.: 6-FC3-18
Analyst Observation: Grey Cove Base
Client Description: Brown 4" Base Cove And Mastic
Location: SW Corner Of Room 324A
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429614(L2)
Client No.: 6-FC3-18
Analyst Observation: Yellow Mastic
Client Description: Brown 4" Base Cove And Mastic
Location: SW Corner Of Room 324A
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429614(L3)
Client No.: 6-FC3-18
Analyst Observation: Brown Mastic
Client Description: Brown 4" Base Cove And Mastic
Location: SW Corner Of Room 324A
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429614(L4)
Client No.: 6-FC3-18
Analyst Observation: White Leveling Compound
Client Description: Brown 4" Base Cove And Mastic
Location: SW Corner Of Room 324A
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/23/2018
Date Analyzed: 01/30/2018
Signature:
Analyst: Brittney Crisera

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018	
	860 9th Street NE, Unit K	Report No.:	555894 - PLM	Rev #2, 1/30/2018
	West Fargo ND 58078	Project:	Ronald Davies	
		Project No.:	M1177147	
Client:	TER932			

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6429615 **Analyst Observation:** Red Cove Base **Location:** Room 324
Client No.: 7-FC3-19 **Client Description:** Maroon 4" Base Cove And Mastic **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429615(L2) **Analyst Observation:** Lt Yellow Mastic **Location:** Room 324
Client No.: 7-FC3-19 **Client Description:** Maroon 4" Base Cove And Mastic **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429615(L3) **Analyst Observation:** Dk Yellow Mastic **Location:** Room 324
Client No.: 7-FC3-19 **Client Description:** Maroon 4" Base Cove And Mastic **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429616 **Analyst Observation:** Red Cove Base **Location:** Room 324
Client No.: 7-FC3-20 **Client Description:** Maroon 4" Base Cove And Mastic **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429616(L2) **Analyst Observation:** Lt Yellow/Dk Yellow Mastic **Location:** Room 324
Client No.: 7-FC3-20 **Client Description:** Maroon 4" Base Cove And Mastic **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429617 **Analyst Observation:** Red Cove Base **Location:** Room 324
Client No.: 7-FC3-21 **Client Description:** Maroon 4" Base Cove And Mastic **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/23/2018
Date Analyzed: 01/30/2018
Signature:
Analyst: Brittney Crisera

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018	
	860 9th Street NE, Unit K	Report No.:	555894 - PLM	Rev #2, 1/30/2018
	West Fargo ND 58078	Project:	Ronald Davies	
		Project No.:	M1177147	
Client:	TER932			

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6429617(L2) **Analyst Observation:** Lt Yellow/Dk Yellow Mastic **Location:** Room 324
Client No.: 7-FC3-21 **Client Description:** Maroon 4" Base Cove And Mastic **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429617(L3) **Analyst Observation:** Brown Mastic **Location:** Room 324
Client No.: 7-FC3-21 **Client Description:** Maroon 4" Base Cove And Mastic **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429618 **Analyst Observation:** Lt Brown Cove Base **Location:** Room 324B
Client No.: 8-FC3-22 **Client Description:** Tan 4" Base Cove And Mastic **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429618(L2) **Analyst Observation:** Brown Mastic **Location:** Room 324B
Client No.: 8-FC3-22 **Client Description:** Tan 4" Base Cove And Mastic **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429618(L3) **Analyst Observation:** Yellow Mastic **Location:** Room 324B
Client No.: 8-FC3-22 **Client Description:** Tan 4" Base Cove And Mastic **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429619 **Analyst Observation:** Lt Brown Cove Base **Location:** Room 324B
Client No.: 8-FC3-23 **Client Description:** Tan 4" Base Cove And Mastic **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/23/2018
Date Analyzed: 01/30/2018
Signature:
Analyst: Brittney Crisera

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018	
	860 9th Street NE, Unit K	Report No.:	555894 - PLM	Rev #2, 1/30/2018
	West Fargo ND 58078	Project:	Ronald Davies	
		Project No.:	M1177147	
Client:	TER932			

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6429619(L2) **Analyst Observation:** Brown Mastic **Location:** Room 324B
Client No.: 8-FC3-23 **Client Description:** Tan 4" Base Cove And Mastic **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429619(L3) **Analyst Observation:** Yellow Mastic **Location:** Room 324B
Client No.: 8-FC3-23 **Client Description:** Tan 4" Base Cove And Mastic **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429620 **Analyst Observation:** Lt Brown Cove Base **Location:** Room 324B
Client No.: 8-FC3-24 **Client Description:** Tan 4" Base Cove And Mastic **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429620(L2) **Analyst Observation:** Brown Mastic **Location:** Room 324B
Client No.: 8-FC3-24 **Client Description:** Tan 4" Base Cove And Mastic **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429620(L3) **Analyst Observation:** Yellow Mastic **Location:** Room 324B
Client No.: 8-FC3-24 **Client Description:** Tan 4" Base Cove And Mastic **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429620(L4) **Analyst Observation:** White Mastic **Location:** Room 324B
Client No.: 8-FC3-24 **Client Description:** Tan 4" Base Cove And Mastic **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/23/2018
Date Analyzed: 01/30/2018
Signature:
Analyst: Brittney Crisera

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018	
	860 9th Street NE, Unit K	Report No.:	555894 - PLM	Rev #2, 1/30/2018
	West Fargo ND 58078	Project:	Ronald Davies	
		Project No.:	M1177147	
Client:	TER932			

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6429621
Client No.: 9-CT4-25
Analyst Observation: Beige Ceiling Tile
Client Description: 2x4 Ceiling Tile
Location: Room 324
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
50 Cellulose
40 Mineral Wool

Percent Non-Fibrous Material:
10

Lab No.: 6429622
Client No.: 9-CT4-26
Analyst Observation: Beige Ceiling Tile
Client Description: 2x4 Ceiling Tile
Location: Room 328
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
50 Cellulose
40 Mineral Wool

Percent Non-Fibrous Material:
10

Lab No.: 6429623
Client No.: 9-CT4-27
Analyst Observation: Beige Ceiling Tile
Client Description: 2x4 Ceiling Tile
Location: Room 330
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
40 Cellulose
50 Mineral Wool

Percent Non-Fibrous Material:
10

Lab No.: 6429624
Client No.: 10-WB1-28
Analyst Observation: Off-White Drywall
Client Description: Gypsum With Joint Compound
Location: Room 330
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
3 Cellulose
3 Fibrous Glass

Percent Non-Fibrous Material:
94

Lab No.: 6429624(L2)
Client No.: 10-WB1-28
Analyst Observation: White Joint Compound
Client Description: Gypsum With Joint Compound
Location: Room 330
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 6429624(L3)
Client No.: 10-WB1-28
Analyst Observation: Composite
Client Description: Gypsum With Joint Compound
Location: Room 330
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
3 Cellulose
3 Fibrous Glass

Percent Non-Fibrous Material:
94

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/23/2018
Date Analyzed: 01/30/2018
Signature:
Analyst: Brittney Crisera

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018	
	860 9th Street NE, Unit K	Report No.:	555894 - PLM	Rev #2, 1/30/2018
	West Fargo ND 58078	Project:	Ronald Davies	
		Project No.:	M1177147	
Client:	TER932			

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6429624(L4) **Analyst Observation:** White Woven Material **Location:** Room 330
Client No.: 10-WB1-28 **Client Description:** Gypsum With Joint Compound **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: 99 Fibrous Glass Percent Non-Fibrous Material: 1

Lab No.: 6429625 **Analyst Observation:** Off-White Drywall **Location:** Room 330
Client No.: 10-WB1-29 **Client Description:** Gypsum With Joint Compound **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: 3 Fibrous Glass Percent Non-Fibrous Material: 97

Lab No.: 6429625(L2) **Analyst Observation:** White Joint Compound **Location:** Room 330
Client No.: 10-WB1-29 **Client Description:** Gypsum With Joint Compound **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: None Detected Percent Non-Fibrous Material: 100

Lab No.: 6429625(L3) **Analyst Observation:** Composite **Location:** Room 330
Client No.: 10-WB1-29 **Client Description:** Gypsum With Joint Compound **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: 3 Fibrous Glass Percent Non-Fibrous Material: 97

Lab No.: 6429625(L4) **Analyst Observation:** White Woven Material **Location:** Room 330
Client No.: 10-WB1-29 **Client Description:** Gypsum With Joint Compound **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: 98 Fibrous Glass Percent Non-Fibrous Material: 2

Lab No.: 6429626 **Analyst Observation:** Off-White Drywall **Location:** Room 328
Client No.: 10-WB1-30 **Client Description:** Gypsum With Joint Compound **Facility:**
Percent Asbestos: *None Detected* Percent Non-Asbestos Fibrous Material: 2 Fibrous Glass Percent Non-Fibrous Material: 98

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/23/2018
Date Analyzed: 01/30/2018
Signature:
Analyst: Brittney Crisera

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018	
	860 9th Street NE, Unit K	Report No.:	555894 - PLM	Rev #2, 1/30/2018
	West Fargo ND 58078	Project:	Ronald Davies	
		Project No.:	M1177147	
Client:	TER932			

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6429626(L2) **Analyst Observation:** White Joint Compound **Location:** Room 328
Client No.: 10-WB1-30 **Client Description:** Gypsum With Joint Compound **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429626(L3) **Analyst Observation:** Composite **Location:** Room 328
Client No.: 10-WB1-30 **Client Description:** Gypsum With Joint Compound **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 2 Fibrous Glass
Percent Non-Fibrous Material: 98

Lab No.: 6429627 **Analyst Observation:** Off-White Drywall **Location:** Room 324
Client No.: 10-WB1-31 **Client Description:** Gypsum With Joint Compound **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 6 Cellulose
Percent Non-Fibrous Material: 94

Lab No.: 6429628 **Analyst Observation:** Off-White Drywall **Location:** Room 324A
Client No.: 10-WB1-32 **Client Description:** Gypsum With Joint Compound **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 3 Cellulose
Percent Non-Fibrous Material: 97

Lab No.: 6429628(L2) **Analyst Observation:** White Joint Compound **Location:** Room 324A
Client No.: 10-WB1-32 **Client Description:** Gypsum With Joint Compound **Facility:**

Percent Asbestos: ***PC 9.2*** *Chrysotile*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 90.8

Lab No.: 6429628(L3) **Analyst Observation:** Composite **Location:** Room 324A
Client No.: 10-WB1-32 **Client Description:** Gypsum With Joint Compound **Facility:**

Percent Asbestos: ***PC 2.0*** *Chrysotile*
Percent Non-Asbestos Fibrous Material: 3 Cellulose
Percent Non-Fibrous Material: 95

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/23/2018
Date Analyzed: 01/30/2018
Signature:
Analyst: Brittney Crisera

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018	
	860 9th Street NE, Unit K	Report No.:	555894 - PLM	Rev #2, 1/30/2018
	West Fargo ND 58078	Project:	Ronald Davies	
		Project No.:	M1177147	
Client:	TER932			

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6429629
Client No.: 11-HP2-33
Analyst Observation: Beige Plaster
Client Description: Original Plaster Surface
Location: Room 330 Ceiling
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429629(L2)
Client No.: 11-HP2-33
Analyst Observation: White Plaster
Client Description: Original Plaster Surface
Location: Room 330 Ceiling
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429630
Client No.: 11-HP2-34
Analyst Observation: Beige Plaster
Client Description: Original Plaster Surface
Location: Room 330 Wall
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429630(L2)
Client No.: 11-HP2-34
Analyst Observation: White Plaster
Client Description: Original Plaster Surface
Location: Room 330 Wall
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429631
Client No.: 11-HP2-35
Analyst Observation: Beige Plaster
Client Description: Original Plaster Surface
Location: Room 328 Wall
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429631(L2)
Client No.: 11-HP2-35
Analyst Observation: White Plaster
Client Description: Original Plaster Surface
Location: Room 328 Wall
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/23/2018
Date Analyzed: 01/30/2018
Signature:
Analyst: Brittney Crisera

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018	
	860 9th Street NE, Unit K	Report No.:	555894 - PLM	Rev #2, 1/30/2018
	West Fargo ND 58078	Project:	Ronald Davies	
		Project No.:	M1177147	
Client:	TER932			

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6429632
Client No.: 11-HP2-36
Analyst Observation: Beige Plaster
Client Description: Original Plaster Surface
Location: Room 324 Wall
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 2 Cellulose
Percent Non-Fibrous Material: 98

Lab No.: 6429632(L2)
Client No.: 11-HP2-36
Analyst Observation: White Plaster
Client Description: Original Plaster Surface
Location: Room 324 Wall
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429633
Client No.: 11-HP2-37
Analyst Observation: Beige Plaster
Client Description: Original Plaster Surface
Location: Room 324 Ceiling
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 2 Cellulose
Percent Non-Fibrous Material: 98

Lab No.: 6429633(L2)
Client No.: 11-HP2-37
Analyst Observation: White Plaster
Client Description: Original Plaster Surface
Location: Room 324 Ceiling
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 6429634
Client No.: 11-HP2-38
Analyst Observation: Beige Plaster
Client Description: Original Plaster Surface
Location: Room 320 Wall
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 2 Cellulose
Percent Non-Fibrous Material: 98

Lab No.: 6429634(L2)
Client No.: 11-HP2-38
Analyst Observation: White Plaster
Client Description: Original Plaster Surface
Location: Room 320 Wall
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/23/2018
Date Analyzed: 01/30/2018
Signature:
Analyst: Brittney Crisera

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018	
	860 9th Street NE, Unit K	Report No.:	555894 - PLM	Rev #2, 1/30/2018
	West Fargo ND 58078	Project:	Ronald Davies	
		Project No.:	M1177147	
Client:	TER932			

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6429635
Client No.: 11-HP2-39
Analyst Observation: Beige Plaster
Client Description: Original Plaster Surface
Location: Room 320 Ceiling
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
2 Cellulose

Percent Non-Fibrous Material:
98

Lab No.: 6429635(L2)
Client No.: 11-HP2-39
Analyst Observation: White Plaster
Client Description: Original Plaster Surface
Location: Room 320 Ceiling
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/23/2018
Date Analyzed: 01/30/2018
Signature:
Analyst: Brittney Crisera

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018
	860 9th Street NE, Unit K	Report No.:	555894 - PLM
	West Fargo ND 58078	Project:	Ronald Davies
		Project No.:	M1177147
Client:	TER932		

Appendix to Analytical Report

Customer Contact:
Analysis: US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager: cdavis@iatl.com
iATL Account Representative: Cassie Doherty
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Bulk Building Materials
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018
	860 9th Street NE, Unit K	Report No.:	555894 - PLM
	West Fargo ND 58078	Project:	Ronald Davies
		Project No.:	M1177147
Client:	TER932		

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

1) Note: No mastic provided for analysis.
2) Note: Insufficient mastic provided for analysis.
3) Note: Insufficient material provided for analysis.
4) Note: Insufficient sample provided for QC reanalysis.
5) Note: Different material than indicated on Sample Log / Description.
6) Note: Sample not submitted.
7) Note: Attached to asbestos containing material.
8) Note: Received wet.
9) Note: Possible surface contamination.
10) Note: Not building material. 1% threshold may not apply.
11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
12) Note: Asbestos detected but not quantifiable.
13) Note: Multiple identical samples submitted, only one analyzed.
14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites).Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018
	860 9th Street NE, Unit K	Report No.:	555894 - PLM
	West Fargo ND 58078	Project:	Ronald Davies
		Project No.:	M1177147
Client:	TER932		

Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.

LOQ, Limit of Quantitation estimates for mass and volume analyses.
*With advance notice and confirmation by the laboratory.
**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Terracon
860 9th Street NE, Unit K
West Fargo ND 58078

Client: TER932

Report Date: 1/30/2018
Report No.: 555851 - Lead Paint
Project: Ronald Davies Federal Building
Project No.: M1177147

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 6429175 **Description:** Tan/Green/White Paint On GWB **Result (% by Weight):** 8.0
Client No.: 01 **Location:** Upper Wall (Above Chair Rail) **Result (ppm):** 80000
Comments:

Lab No.: 6429176 **Description:** Tan/White/Green Paint On Wood **Result (% by Weight):** 0.10
Client No.: 02 **Location:** Chair Rail **Result (ppm):** 1000
Comments:

Lab No.: 6429177 **Description:** Tan/White Paint On Cement Board **Result (% by Weight):** 4.9
Client No.: 03 **Location:** Upper Wall/Ceiling Above Drop Ceiling **Result (ppm):** 49000
Comments:

Lab No.: 6429178 **Description:** White/White Paint On Metal **Result (% by Weight):** 0.0059
Client No.: 04 **Location:** Heat Registers **Result (ppm):** 59
Comments:

Lab No.: 6429179 **Description:** White/White/Grey Paint On Cement Board **Result (% by Weight):** 12
Client No.: 05 **Location:** Lower Wall (Below Chair Rail) **Result (ppm):** 120000
Comments:

Lab No.: 6429180 **Description:** Brown/Tan/Green Paint On Wood **Result (% by Weight):** 0.33
Client No.: 06 **Location:** Door Frames **Result (ppm):** 3300
Comments:

Lab No.: 6429181 **Description:** Tan/Green Paint On Wood **Result (% by Weight):** 0.18
Client No.: 07 **Location:** Window Frames/Sills **Result (ppm):** 1800
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/23/2018
Date Analyzed: 01/30/2018
Signature: Chad Shaffer
Analyst: Chad Shaffer

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	1/30/2018
	860 9th Street NE, Unit K	Report No.:	555851 - Lead Paint
	West Fargo ND 58078	Project:	Ronald Davies Federal Building
		Project No.:	M1177147
Client:	TER932		

Appendix to Analytical Report:

Customer Contact:
Analysis: ASTM D3335-85a

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager: cdavis@iatl.com
iATL Account Representative: Cassie Doherty
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Paint
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by ASTM D3335-85a by AAS

Certification:
- National Lead Laboratory Program (NLLAP): AIHA-LAP, LLC No. 100188
- NYSDOH-ELAP No. 11021

Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation.
All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.
Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Apendix B.
Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies.
LSD=0.2 ppm MDL=0.005% by weight. RL= 0.010% by weight (based upon 100 mg sampled).

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com.**

* Insufficient sample provided to perform QC reanalysis (<200 mg)
** Not enough sample provided to analyze (<50 mg)
*** Matrix / substrate interference possible.

APPENDIX F

LICENSES AND CERTIFICATIONS

North Dakota Department of Health

Certificate

of No. 3789

Asbestos Abatement

This is to certify that Leif Hans Schonteich has met the requirements of Chapter 33-15-13 of the North Dakota Air Pollution Control Rules for certification in the following asbestos abatement discipline(s):

	Supervisor		
	Worker		
x	Inspector	Exp: 6/19/2018	
	Management Planner		
x	Project Designer	Exp: 11/2/2018	Asbestos Control Program
	Project Monitor		

North Dakota Department of Health

Certificate

of No. 5986

Asbestos Abatement

This is to certify that Rhonda Lyn Olson has met the requirements of Chapter 33-15-13 of the North Dakota Air Pollution Control Rules for certification in the following asbestos abatement discipline(s):

Supervisor

Worker

x Inspector Exp: 11/3/2018

Management Planner

Project Designer

Project Monitor

Asbestos Control Program

February 17, 2015

Terracon
6701 Fourth St SW
Minot, ND 58701

Ladies and Gentlemen:

Enclosed you will find a lead-based paint certification card issued by the North Dakota Department of Health for Stephen Maliszeski.

This card identifies the discipline for which the individual is certified. The State of North Dakota grants certification following proof of successful completion of an EPA or Department approved course. Individuals are allowed to perform only those duties in which they are certified and proof of certification must be available at the work site. Certification is for a period of three years from the date of completion of the last training course. Individuals who intend to continue performing lead-based paint work must be recertified prior to that time. To be recertified, an individual must have attended an EPA or State approved refresher course in the specific discipline for which they are applying for recertification within the previous three year period.

If you have any questions concerning the certification, please feel free to contact me at 701-328-5188.

Sincerely,

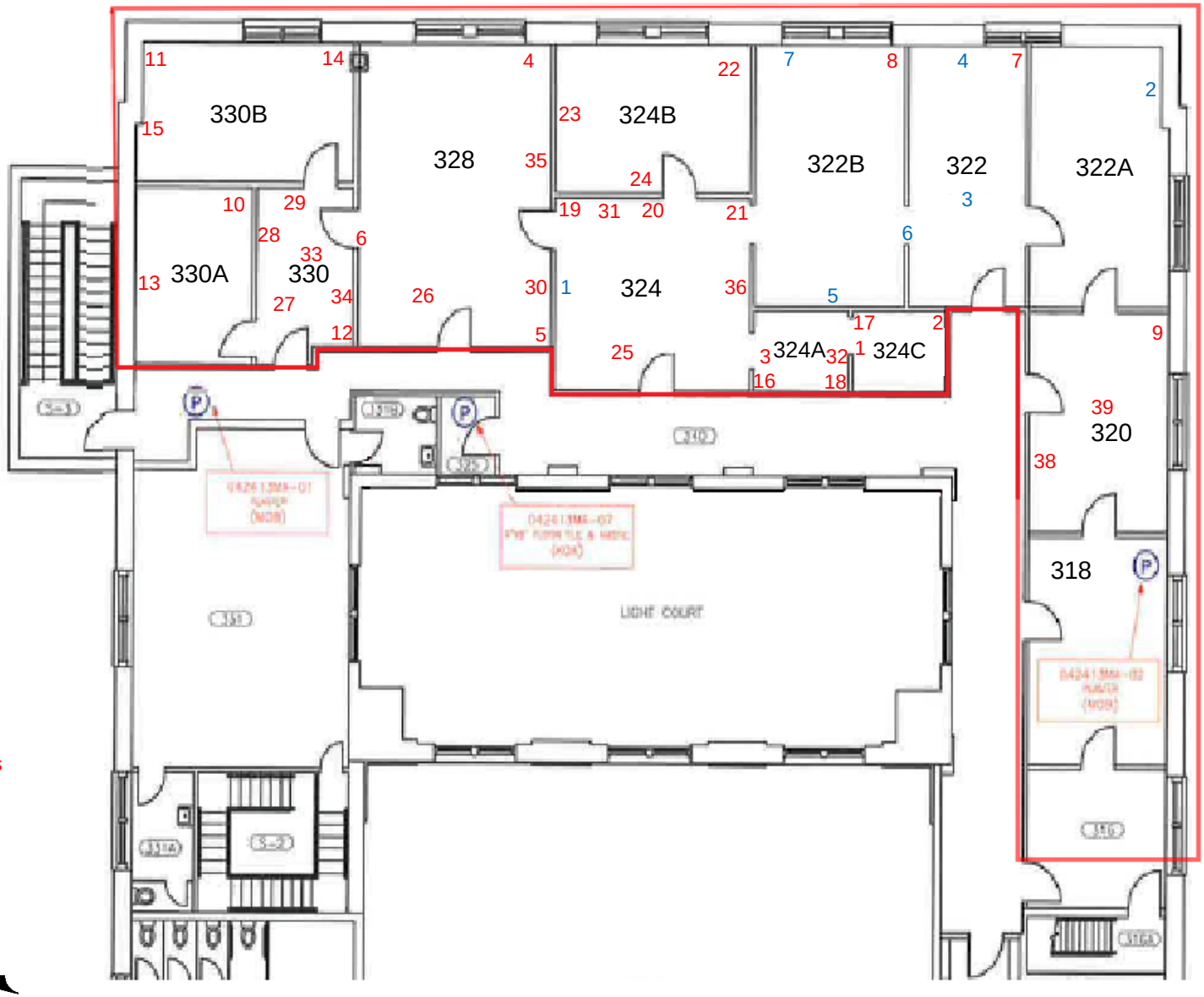
Sandi Washek
Environmental Scientist
Lead-Based Paint Program

SW:csc
Enc:

North Dakota Department of Health
Certificate
of
Lead-Based Paint Abatement
No. 315
This is to certify that Stephen T. Maliszeski has met the requirements of Chapter 33-15-24 of the North Dakota Air Pollution Control Rules for certification in the following lead-based paint abatement discipline(s):
Supervisor
Worker
Inspector
x Risk Assessor
Project Designer
Exp: 1/23/2018
LBP Control Program

APPENDIX G

SAMPLE LOCATION DRAWING



1 Asbestos Samples

1 Paint Samples

Project Manager: RLO	Project No. M1177147	Terracon 860 9th Street NE, Unit K West Fargo, North Dakota 58078	Sample Location Drawing Ronald N. Davies Federal Building and U.S. Courthouse 102 North 4th Street Grand Forks, North Dakota 58203
Drawn by: RLO	Scale: AS SHOWN		
Checked by: LHS	File Name:		
Approved by: KMT	Date: 02/02/2018		

Exhibit 1