

Limited Asbestos Survey

At

Exterior  
920 Exchange Street  
Rochester, New York 14608

February 11, 2020

**PARADIGM**  
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester  
New York 14608 (585) 647-2530

Prepared for:  
Rocterra  
124 Woodstock Road  
Rochester, New York 14609  
Job Number: 20-0120

**EXTERIOR  
920 EXCHANGE STREET  
ROCHESTER, NEW YORK**

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## **INTRODUCTION**

Paradigm Environmental Services, Inc. was retained by **Rocterra** on **February 11, 2020** to conduct an inspection for the detection of asbestos containing materials located on the **Exterior of 920 Exchange Street, Rochester, New York.**

The objective of this inspection was to identify and assess with due diligence the locations, quantities, friability and condition of all types of asbestos containing materials at the above referenced location. Paradigm Environmental performed all sample analysis and analytical reports for this project. Field services and survey reports were generated by Envoy Environmental Consultants as a subcontractor to Paradigm. Envoy Environmental Consultants inspector Kiel Liddell (AH#11-13464) conducted this inspection with the procedures and guidelines dictated by state and federal regulatory agencies. The inspector of Envoy Environmental Consultants, Inc. selected materials for inclusion in this report through an understanding of the scope of the renovation as indicated by the building owner and the historical uses of asbestos in general. Generally, if a building material within a structure could contain asbestos the material was included in the survey.

Samples were collected from locations within each homogeneous sampling area. Samples consist of a small amount of the subject material. Sampling points were recorded and cross-referenced to prepared sketches. Individual samples were also recorded on a chain of custody document. Samples were then transported to the Paradigm analytical laboratory for asbestos analysis.

The Paradigm laboratory is accredited through NYSDOH/ELAP (Lab ID# 10958) for Solid and Hazardous Waste and Air and Emissions for Bulk Asbestos Fiber Analysis. The chain of custody record accompanies all samples from the point collected until they reach the laboratory. Samples are stored at the laboratory for 90 days then disposed of according to authoritative regulations.

The analysis methodology used is as follows:

### Asbestos Bulk Samples:

New York State Department of Health, ELAP Method 198.1 and 198.6 (“Polarized Light Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.”).

New York State Department of Health, ELAP Method 198.4 (“Transmission Electron Microscope Method for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples”).

## **LIMITATIONS**

The information provided in this report was compiled from field and laboratory data and was prepared for **Rocterra** and referenced to the **Exterior of 920 Exchange Street, Rochester, New York**. Materials noted and recorded are intended to represent subject site at the time and date that the observations were made. Conclusions and recommendations provided in this report are based on the assumption that materials identified are homogenous throughout their application. Determinations of suspect asbestos containing materials within the building were subject to the accessibility of each individual area or space. Determinations of asbestos containing materials were made by means of bulk sampling, physical assessment or visual assessment if the materials were not accessible. Envoy Environmental Consultants Inc. and Paradigm Environmental Services, Inc. accepts no responsibility for the content of building materials within areas or spaces that were unknown to us, not reasonably accessible, or not part of the scope of the project as defined by the client. Envoy Environmental Consultants Inc. and Paradigm Environmental Services, Inc. assumes no liability for any buildings that were not identified by the client that may fall under state or federal regulation. All conclusions provided in this report are based on the bulks sampling that was performed at the above mentioned site on the above mentioned dates.

**As per the direction of the client, Rocterra, this survey was limited to suspect asbestos containing materials as listed in the materials tested table; if additional materials will be impacted by the renovation these materials should be considered asbestos containing until tested.**

All quantities are approximations and must be field verified by the contractor prior to the submittal of bids. Contractor bids are expected to be based on their own determination of quantities and not the quantities stated in this report.

This asbestos survey report is not intended to be a bid document for a scope of work for the asbestos abatement contractor. The survey report only identifies and assesses the location, quantity and condition of ACM, PACM or asbestos materials at the subject site. The asbestos survey report is intended to be used as a tool in the development of an asbestos abatement project design or work scope. Under the Code Rule regulation this task can only be performed by a Certified Project Designer.

Energized mechanical or electrical systems were not sampled as part of the survey, and were visually assessed as ACM (Asbestos Containing Material). Suspect materials that are visually assessed by the inspector as ACM shall be treated as ACM, unless bulk sampling is conducted consistent with EPA and OSHA accepted methods, and the analysis meets the requirements of Code Rule 56 and the suspect material is found not to be asbestos containing. These systems may contain one or more of the following components, but are not limited to these components: brakes, clutches, gaskets, insulating panels, blocks or backer boards, wire insulation, explosion proof lighting gaskets and fitting packings, insulating papers, pipe sleeve packings, fire stops, caulks, paints and coatings.

## **CONCLUSIONS**

Paradigm Environmental Services, Inc. was retained to perform a limited asbestos survey from the **Exterior of 920 Exchange Street, Rochester, New York on February 11, 2020**. A New York State certified inspector sampled suspect asbestos containing materials from the above mentioned site. Sample locations and custody information were recorded and the samples were transported to the Paradigm laboratory for analysis.

**Transmittal of Building/Structure Asbestos Survey Information** – As required by New York State Industrial Code Rule 56, one (1) copy of the results of the building/structure asbestos survey shall be immediately transmitted by the building/structure owner as follows:

- One (1) copy of the completed asbestos survey shall be sent by the owner or their agent to the local entity charged with issuing a permit for such demolition, renovation, remodeling or repair work under State or local laws.
- The completed asbestos survey for controlled demolition (as per Subpart 56-11.5) or pre-demolition asbestos projects shall be submitted to the appropriate Asbestos Control Bureau district office.
- The completed asbestos survey shall be kept on the construction site with the asbestos notification and variance, if required, throughout the duration of the asbestos project and any associated demolition, renovation, remodeling or repair project.

The following is a brief description of the space by space survey.

<i>Col. 1</i>	<i>Col. 2</i>	<i>Col. 3</i>	<i>Col. 4</i>	<i>Col. 5</i>	<i>Col. 6</i>	<i>Col. 7</i>	<i>Col. 8</i>	<i>Col. 9</i>	<i>Col. 10</i>	<i>Col. 11</i>
<i>Room #</i>	<i>Sample #'s taken in Room</i>	<i>Positive Sample ID #</i>	<i>Positive Material Description</i>	<i>Location of Material</i>	<i>Condition</i>	<i>Friable Non-Friable NOB</i>	<i>Type of Material</i>	<i>SQ FT</i>	<i>Lin FT</i>	<i>Units</i>

1. Column 1: indicates the Room number, room description and estimated square footage of the room referenced to the attached map/drawing.
2. Column 2: indicates the bulk sample numbers that were taken in the Room indicated in column 1. i.e. 001-007 means samples one through seven were sampled in the room, none would indicate that no samples were taken in the room. You will not see the first three letters of the sample in this column. If you would like to know the materials that were tested in the room please refer to the analytical results which are documented in numerical order.
3. Column 3: indicates the sample number that proves the material is positive for asbestos content. This sample may have taken in the space in column 1 or determined a homogeneous area (material) by the inspector to a sample that was taken in another space. For the purpose of this report all samples are assigned a six digit alphanumeric sample identification number. The first three letters/numbers indicate the material, found in column 4. The last three numbers indicate the sample number in the sequence in which they were taken. If there is a letter after the last three numbers, this indicates that the laboratory or the inspector determines that there were multiple layers within the sample, requiring additional sampling under EPA protocols.
4. Column 4: gives a brief description of the asbestos containing material or the material that is to be treated as asbestos containing as determined by the inspector. At times non-asbestos materials are contaminated with asbestos, therefore must be treated as asbestos.
5. Column 5: indicates a brief description of the location of the material in the room and not the location where the sample was taken from. You will find locations of where each sample was taken from on the analytical sampling results.
6. Column 6: indicates the physical condition of the material as assessed by the inspector in the space indicated in column 1, according to the condition description described below. For the purpose of this report, the condition of the ACM will be reported in good, fair or poor condition. Conditions will be listed in column 6 of the survey report will be as follows;
  - a. **Good:** means material is intact with no visible damage.
  - b. **Fair:** means material contains fewer than 10% distributed damage or 25% localized damage.
  - c. **Poor:** means material contains over 10% distributed damage or 25% localized damage.
 Conditions listed in column 6 of the space by space survey report are only related to the specific material for the specific space.
7. Column 7: indicates the friability of the material in that space as determined by the inspector and the analytical laboratory consistent with Code Rule 56 and EPA regulations.
8. Column 8: indicates the type of material in that space as determined by the inspector and the analytical laboratory consistent with Code Rule 56 and EPA regulations.
9. Column 9: indicates the square footage of ACM material found in the space.
10. Column 10: indicates the linear footage of ACM material found in the space. Pipe insulation that is two feet or greater in diameter is required to be reported in square feet according to code Rule 56.
11. Column 11: indicates the units of ACM material found in the space.

**MATERIALS TESTED**

Exterior  
920 Exchange Street  
Rochester, New York

Sample ID	Description of Material	PLM Asbestos Fibers Type & Percentage	TEM Asbestos Fibers Type & Percentage	Friable Non-Friable NOB
WIP-001	White Wipe	Chrysotile Present	N/A	N/A
WIP-002	White Wipe	None Detected	Not Required	N/A
DEB-003	Black Fibrous Debris	Chrysotile 2.0%	Not Required	Non-Friable
DEB-004	Black Fibrous Debris	None Detected	Not Required	Non-Friable
DEB-005	Black Fibrous Debris	None Detected	Not Required	Non-Friable
DEB-006	Black Fibrous Debris	None Detected	Not Required	Non-Friable
DEB-007	Black Debris	None Detected	Not Required	Non-Friable
DEB-008	Black Debris	None Detected	Not Required	Non-Friable

**ASBESTOS CONTAINING MATERIALS**  
**SPACE BY SPACE SUMMARY**

Exterior  
920 Exchange Street  
Rochester, New York

Area	Sample #'s taken in Area	Positive Sample ID #	Positive Material Description	Location of Material	Condition	Friable** Non-Friable NOB	Type of Material	SQ FT	Lin FT	Unit
Exterior	001-008	WIP-001	White Wipe	Loading Dock	N/A	N/A	MISC	U		
		DEB-003	Black Fibrous Debris	East Drainage Basin	N/A	Non-Friable	MISC	U		

<b>Totals</b>	<b>U</b>	<b>0</b>	<b>0</b>
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**Assume** - Indicates materials assumed positive for asbestos containing materials by inspector; inaccessible area.

**U**- Quantity is unknown

\* Reflects quantifiable locations only; additional material maybe present, but not quantifiable per table.

**\*\* Materials are categorized as friable or non-friable based on their intact condition. For designer abatement purposes materials labeled as non-friable may become friable, based on methods of handling.**

**All layers of multi-layered systems are analyzed, quantified and reported separately, as specified by NYS DOL and NYS DOH. In some cases, multi-layered systems may be combined for design and abatement purposes, with effective quantities adjusted accordingly.**

**All quantities in this report are approximations and must be field verified by the Abatement contractor. Contractor bids are expected to be based on their own determinations of quantities and not the approximate quantities stated in this report.**

This asbestos survey is a multi-page document which must be viewed in its entirety; see limitations.

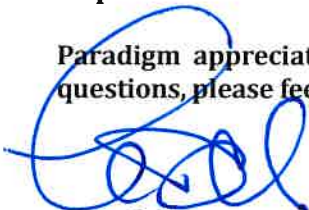
Paradigm Job Number 20-0120

Paradigm certifies that this report regarding the Exterior of 920 Exchange Street, Rochester, New York based on the observations of the inspector and believes it to be an accurate representation of the conditions as they existed on February 11, 2020.



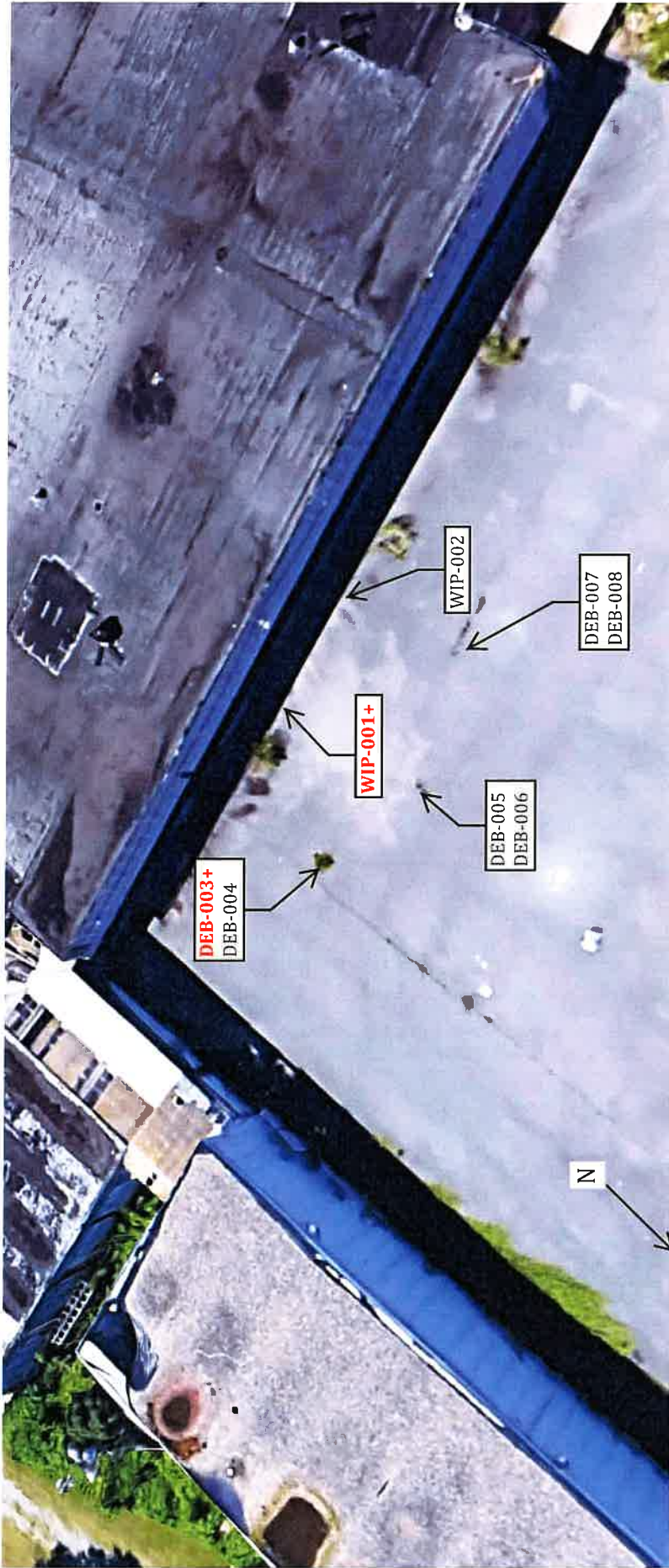
Kiel Liddell  
Envoy Environmental Consultants, Inc.  
Inspector #AH 11-13464

Paradigm appreciates this opportunity to provide you with our professional services. If you have any questions, please feel free to contact me at (585) 647-2530.



Mary Dohr  
Vice President, Asbestos Operations  
Paradigm Environmental Services, Inc.  
mdohr@paradigmenv.com





Client: Rocterra  
Location: 920 Exchange Street, Rochester, New York  
Area: Exterior  
Date: February 11, 2020  
Job Number: 20-0120



**PLM & TEM BULK ASBESTOS ANALYSIS REPORT**  
**via NYSDOH ELAP Method 198.1, 198.4 and 198.6**

**Client:** Rocterra  
**Location:** 920 Exchange Street  
Rochester, New York

**Job No:** 1223-20  
**Page:** 1 of 2

**Sample Date:** 2/11/2020

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non-Fibrous Matrix Material %
WIP-001	10052	Loading Dock	White Wipe	Chrysotile Present	N/A	#	N/A	N/A	N/A	N/A
WIP-002	10053	Loading Dock	White Wipe	None Detected	0%	#	Not Required	N/A	None Detected	100%
DEB-003	10054	East Drainage Basin	Black Fibrous Debris	Chrysotile 2.0%	2.0%		Not Required	N/A	Cellulose 12%	86%
DEB-004	10055	East Drainage Basin	Black Fibrous Debris	None Detected	0%		Not Required	N/A	Cellulose 12% Fiberglass 13%	75%
DEB-005	10056	North Drainage Basin	Black Fibrous Debris	None Detected	0%		Not Required	N/A	Cellulose 11% Fiberglass 10%	79%
DEB-006	10057	North Drainage Basin	Black Fibrous Debris	None Detected	0%		Not Required	N/A	Cellulose 15% Fiberglass 3%	82%
DEB-007	10058	West Drainage Basin	Black Debris	None Detected	0%		Not Required	N/A	None Detected	100%
DEB-008	10059	West Drainage Basin	Black Debris	None Detected	0%		Not Required	N/A	Cellulose 5%	95%

**KEY TO NOB COLUMN SYMBOLS**  
 No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).  
 v NOB (non-friable organically bound) denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.  
 V denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.  
 # denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.  
 X denotes sample prepped only by ELAP Method 198.6.  
 \*\* Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.  
 Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.") or EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200530-0).



Lab Code 200530-0 for PLM Analysis

**Microscope:** Olympus BH-2 #233173

**PLM Analyst:** S. Johnston

**PLM Date Analyzed:** 2/17/2020

**Microscope:** JEOL-100CX-II #EM-156094-87

**TEM Analyst:** N/A

**TEM Date Analyzed:** N/A

**ELAP ID No.: 10958**

**Laboratory Results Approved By:**  
**Asbestos Technical Director or Designee**

Fernanda Weinman

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and/or laboratory and analysts' precision) is available upon request.

# CHAIN OF CUSTODY FOR PLM ASBESTOS ANALYSIS

**OFFICE USE ONLY**

**ENVOY**  
*environmental consultants, inc.*  
 57 Ambrose St, Rochester, NY 14608  
 585-454-1060 \* Fax 585-454-1062

Client: <b>Rocterra</b>	Contact: <b>Alex Wirth</b>		
Phone Number:	SEND ANALYTICAL DATA TO CLIENT: YES <input type="checkbox"/> No <input type="checkbox"/>		
Results To: <b>CALL</b> <input checked="" type="checkbox"/> Tech <input type="checkbox"/> Client <input type="checkbox"/>	Turn Around Time: <b>2/19</b>		
Email: <b>kliddell@envoyenvironmental.com</b>	<b>1</b>	<b>2</b>	<b>3</b> <input checked="" type="checkbox"/> <b>5</b> <input checked="" type="checkbox"/> <b>Immed</b> <input type="checkbox"/>
Date Sampled: <b>2/11/20</b>	Material Type/Quantity: _____ NOIB _____ TEM _____		
Project Address: <b>920 Exchange Street, Rochester, NY</b>	Project Number: <b>20-0120</b>		

Job #: <b>1223-20</b>
Page: <b>2</b> of <b>2</b>
Date Logged In: <b>2/12/2020</b>
Logged In By: <b>[Signature]</b>

**General Location:**

Client ID	Lab ID	Sampling Location	Do not Analyze	Color	Size	Material	Friability
1	wip-001	Loading Dock		White		Wipe	na
2	wip-002	"		White		Wipe	na
3	deb-003	East Drainage Basin		Black		Debris	n
4	deb-004	"		Black		Debris	n
5	deb-005	North Drainage Basin		Black		Debris	n
6	deb-006	"		Black		Debris	n
7	deb-007	West Drainage Basin		Black		Debris	n
8	deb-008	"		Black		Debris	n
9							
10							

Sampled by: <b>[Signature]</b>	Date: <b>2/11/20</b>	<b>CHECK ONE:</b> <b>SURVEY</b> <input checked="" type="checkbox"/> <b>BULKS ONLY</b> <input type="checkbox"/>
Transported to Paradigm By: <b>[Signature]</b>	Date: <b>2/12/20</b>	CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS or provide TEM contact name: _____
Received By: <b>[Signature]</b>	Date: <b>2/12/2020</b>	TOTAL NUMBER OF SAMPLES IN SURVEY: _____ Estimated at <b>8</b>

Containerized materials attached to this Chain of Custody may contain Asbestos. Asbestos is a known carcinogen and should only be handled by trained and authorized personnel under regulated conditions. **(Danger; May Contain Asbestos Fibers, Cancer and Lung Disease Hazard)**

*OC 2/17/2020*  
*S.N.A.C.*

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## Certifications

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**New York State – Department of Labor**

Division of Safety and Health  
License and Certificate Unit  
State Campus, Building 12  
Albany, NY 12240

**ASBESTOS HANDLING LICENSE**

Envoy Environmental Consultants Inc.  
57 Ambrose Street  
Rochester, NY 14608

FILE NUMBER: 02-0527  
LICENSE NUMBER: 28454  
LICENSE CLASS: RESTRICTED  
DATE OF ISSUE: 06/13/2019  
EXPIRATION DATE: 06/30/2020

Duly Authorized Representative – Paul Mahoney:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.



Eileen M. Franko, Director  
For the Commissioner of Labor

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER



Expires 12:01 AM April 01, 2020  
Issued April 01, 2019

**CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE**

*Issued in accordance with and pursuant to section 502 Public Health Law of New York State*

MR. STEVE DEVITO  
PARADIGM ENVIRONMENTAL SERVICES INC  
179 LAKE AVENUE  
ROCHESTER, NY 14608

NY Lab Id No: 10958

*is hereby APPROVED as an Environmental Laboratory for the category  
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE  
All approved subcategories and/or analytes are listed below:*

**Miscellaneous**

Asbestos in Friable Material	Item 198.1 of Manual EPA 600/M4/82/020
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	Item 198.4 of Manual
Lead in Dust Wipes	EPA 6010C
Lead in Paint	EPA 6010C

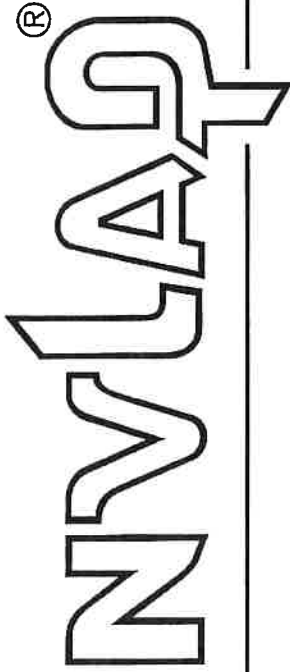
**Sample Preparation Methods**

EPA 3050B

Serial No.: 59505

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

United States Department of Commerce  
National Institute of Standards and Technology



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## Certificate of Accreditation to ISO/IEC 17025:2005

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NVLAP LAB CODE: 200530-0

**Paradigm Environmental Services, Inc.**  
Rochester, NY

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:

### **Asbestos Fiber Analysis**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

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2019-07-01 through 2020-06-30  
Effective Dates

A handwritten signature in black ink, appearing to read "Peter S. Lumb".

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For the National Voluntary Laboratory Accreditation Program



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**Paradigm Environmental Services, Inc.**

179 Lake Avenue  
Rochester, NY 14608  
Ms. Rebecca Roztocil  
Phone: 585-647-2530 Fax: 585-647-3311  
Email: rroztocil@paradigmenv.com  
<http://www.paradigmenv.com>

**ASBESTOS FIBER ANALYSIS**

**NVLAP LAB CODE 200530-0**

**Bulk Asbestos Analysis**

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

**Airborne Asbestos Analysis**

<u>Code</u>	<u>Description</u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

A handwritten signature in black ink, appearing to read "Dana S. Laman".

For the National Voluntary Laboratory Accreditation Program



STATE OF NEW YORK - DEPARTMENT OF LABOR  
ASBESTOS CERTIFICATE

N.Y.S.



**KIEL D LIDDELL**

CLASS(EXPIRES)

C ATEC(01/20) D INSP(01/21)

H PM (01/20)

CERT# 11-13464  
DMV# 164689258

MUST BE CARRIED ON ASBESTOS PROJECTS

11/11/11 11:11:11 AM