CITY OF ROME



HAZARDOUS WASTE/CONTAMINATED MATERIALS SURVEY REPORT

FORMER ROME-TURNEY RADIATOR COMPANY
109 CANAL STREET ROME, NEW YORK 13440

Prepared for:
CITY OF ROME
198 NORTH WASHINGTON STREET
ROME, NY 13440

Bergmann Project No. 10118.00

July 8, 2016

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1.0 Introduction

As requested by the City of Rome, Bergmann Associates (Bergmann) performed a Hazardous Waste/Contaminated Materials (HW/CM) survey of the subject building known as the former Rome-Turney Radiator Company located at 109 Canal Street, Rome, NY (the Site). The building was vacant and accessible at the time of this survey.

The HW/CM Survey included a general walk-through and observation of the interior of one vacant former industrial building and the collection of bulk samples of suspect asbestos containing materials (ACM), lead-based paint (LBP) and polychlorinated biphenyls (PCBs) on November 3-4, 2015. At the time of this survey, the on-site structure was a block, brick and metal building with associated paved driveway and courtyard. Figure 1 – Building Plan shows a general floor plan of the former Rome-Turney Radiator Company operations.

Abridged Site History/Use of the Site:

The subject property formerly operated as the Rome-Turney Radiator Company – a manufacturer of radiators from 1905 until the early 1990s when the company went out of business. From 1992 through 1995, the property was operated by Lynch Realty, The Music Factory (an internet search indicated that this was an asphalt company), Rome-Turney Radiator Co. and Serway Brothers Inc. – Plastic Laminating Division (an internet search indicated that this was a cabinet making company). From 1999 through 2003, the property was operated by The Music Factory and the Rome-Turney Radiator Company. In 2008, the property was operated by Elegrace Casket, Inc. (an internet search indicated that this was a casket making company), Rofin LLC (an internet search indicated that this was a global supplier of industrial coolers who purchased all assets of Rome-Turney Radiator Company) and the Rome-Turney Radiator Company. In 2013, the property was operated by The Music Factory.

2.0 Asbestos Survey and Sampling Methodology

Bergmann conducted a site visit to collect bulk samples and to estimate quantities of suspect HW/CM on November 3-4, 2015. The site visit and bulk sampling were performed by Jim Marschner and Megan Borruso, New York State Department of Labor (NYS DOL) certified Asbestos Inspectors. Samples were collected throughout accessible portions of the building and roof. Sample locations are shown on Figure 2 – Sample Location Plan.

Bergmann personnel conducted the Asbestos Survey in accordance with applicable Federal and State regulations. These regulations include:

- National Emission Standards for Hazardous Air Pollutants (NESHAPS).
- New York State Department of Labor Industrial Code Rule 56 (ICR-56)
- New York State Department of Health Environmental Laboratory Approval Program (NYSDOH-ELAP)
- National Voluntary Laboratory Accreditation Program (NVLAP)
- Occupational and Health Administration (OSHA) Regulation 29 CFR 1910.1101 and 29 CFR 1910.134.

Samples were collected in a manner to minimize damage to the surrounding area, to minimize potential release of material and in a fashion to ensure the safety of the collection personnel, building occupants and any building visitors. A sample location plan is attached under the Figures Section of this report. The Bergmann Asbestos License, laboratory certifications and certifications of the person(s) that conducted the bulk sampling are provided in Appendix A – Bergmann Associates Asbestos License Worker Certifications Laboratory Certifications.

Procedures for bulk sampling and measurements included:

- Sample collection area was cleaned of any debris or non-ACM material and was wetted with amended water as needed.
- A minimal amount of material was collected and placed into discrete plastic sample bags.
- Sample containers were labeled with a site-specific code that reflected location and sample number.

Representative bulk samples of suspect materials were collected for laboratory analysis. The samples were transported via Chain-of-Custody protocol to Paradigm Environmental Services, a NYSDOH-ELAP and NVLAP certified asbestos testing laboratory. Copies of the Chain-of-Custody forms are provided in Appendix B – Asbestos Chain-of-Custody Forms and Laboratory Analytical Reports.

3.0 Asbestos Laboratory Analysis and Results

All samples, including both friable and non-friable, were initially analyzed for the presence of asbestos via Polarized Light Microscopy (PLM). For friable material and material determined by gravimetric analysis to be greater than 1% asbestos, no further analysis was required. PLM analysis is typically sufficient on samples of friable insulation, pipe wrap, spray-on fire proofing, drywall and plaster.

Some samples were determined to be non-friable organically bound (NOB) material.

The results on representative samples of NOB material that were determined to be non-ACM via initial PLM analysis were confirmed via Transmission Electron Microscopy (TEM). The TEM analysis was performed in accordance with NYSDOH-ELAP regulations to confirm the presence or absence of asbestos from NOB material. TEM confirmation is typical of materials such as electrical wiring, vinyl floor tile, adhesive mastics and roofing materials including flashing, caulk, roofing tar and asphalt shingles.

All laboratory analysis was performed in accordance with NVLAP and NYSDOH-ELAP regulations. A copy of the laboratory analysis on the bulk samples is provided in Appendix B of this report.

4.0 Materials Sampled & Analyzed

4.1 *Asbestos Containing Materials (ACM)*

Bergmann identified ACM during the November 2015 inspection, sampling and analysis activities. The following table summarizes the findings from the survey:

Table 1
Asbestos Containing Material Results

Location	Sample ID	Materials	Asbestos Result	Condition	Estimated Quantity
Roof	RC-5	Roof Core – Black/Brown Roofing	1.2% Chrysotile	Fair	~20,000 SF Roofing
	RC-5	Roof Core – Black Roofing	9.2% Chrysotile	Fair	
	RC-6	Roof Core – Black/Brown Fibrous Roofing	8.7% Chrysotile	Fair	
Production Shop Lower Roof	FS-043	Black Flashing Sealant	2.7% Chrysotile	Fair	
Shop Foreman Office – Roof	RPS-042	Black Roof Sealant	7.0% Chrysotile	Fair	
Warehouse Flashing	PACM	Black Roof Sealant/Flashing Remains	PACM	Fair	
Administrative Office – Roof	RS=038	Black Roof Sealant	3.5% Chrysotile	Fair	~4,200 SF
	IRS-039	Green/Red Inner Roof Shingle – 2nd Lower Layer	1.7% Chrysotile	Fair	
	RTP-040	Black Roof Tar Paper	3.1% Chrysotile	Good	
Administrative Office – 2nd Floor	*WC-016*	White Window Glaze	2.1% Chrysotile	Fair/Poor	~171 Windows of various sizes
Machine Shop – 2nd Floor	WG-022	Gray Window Glaze	1.3% Chrysotile	Good	
Administrative Office – 1st Floor	WG-028	Gray Window Glaze	29% Chrysotile	Good	
Administrative Office – 1st Floor	WC-029A	Gray/Silver Window Caulk	2.4% Chrysotile	Good	
Warehouse	WG-049	Gray Window Glaze	4.3% Chrysotile	Fair/Poor	
Production Shop – 1st Floor	TB-048	Skylights - Gray Fibrous Transite Board	36% Chrysotile	Fair	~18 Skylights = 500 SF
Administrative Office – 2nd Floor	FT-009A	Brown Flooring	2.3% Chrysotile	Fair	~1,400 SF
	FT-009B	Brown Flooring	4.2% Chrysotile	Fair	
	PACM	Vermiculite Ceiling Insulation	PACM	Poor	~310 SF + Room Debris 240 SF
Machine Shop – 2nd Floor	JC-020	White Joint Compound	4.1% Chrysotile	Poor Damaged	~1500 SF floor area includes all walls and debris on Floor surface
Machine Shop – 3rd Floor Interior	TS-024A	Black Tar Sealant	5.9% Chrysotile	Good	~160 LF
Administrative Office – 1st Floor	PW-027	White Fibrous Pipe Wrap	44% Chrysotile	Poor	~12 LF
AO1 Floor Tile	FT-033	Gray Floor Tile	1.9% Chrysotile	Fair	~85 SF
Shipping and Receiving – 1st Floor	DC-50	Gray Door Caulk Exterior Door	1.4% Chrysotile	Good	~40 LF
Shipping and Receiving – 1st Floor	RT2-051	Black Fibrous Tar Arch on Wall	14% Chrysotile	Good	~8” wide and 20’ long
Warehouse – 1st Floor	W1	Gray Pipe	67% Chrysotile	Fair	~1.5 LF to unknown Underground
Elevator Workings	PACM	Brakes & Components	PACM	Unknown	Unknown

*Estimated Quantities are subject to abatement contractor verification.

The following materials were sampled by Bergmann and resulted in a non-detect for asbestos:

- Roof Insulation
- Wall Panel Adhesive
- Ceiling Tiles
- Carpet Mastic
- Wall Joint Compound
- Drywall Tape
- Drywall
- Floor Tile Mastic
- Electrical Wire Wrap
- Paper Wallboard
- Ceiling Insulation
- Filing Cabinet Insulation
- Floor Tile Mastic
- Roof Shingles
- Fire Riser Baskets
- Roof Paint
- Stucco

4.2 *Lead and Lead-Based Paint (LBP)*

Concurrent with the bulk sampling of suspect ACM, bulk samples of the accessible suspect painted surfaces were collected for laboratory analysis to determine the presence or absence of lead-based paint. The laboratory analysis and chain-of-custody form for lead are provided in Appendix B. Locations of representative bulk paint chip samples are depicted on the sample location plan.

The sample was transported via Chain-of-Custody protocol to Paradigm Environmental, a New York State Department of Health – Environmental Laboratory Approval Program (NYSDOH-ELAP) certified lead testing laboratory for analysis.

The Federal Department of Housing and Urban Development (HUD) has established guidelines for the identification of lead based paint. Paint containing a concentration equal to or greater than 0.5% by weight (5,000 parts per million or 5,000 ppm) is to be considered lead-based paint.

Determination of lead in solid wastes at a hazardous waste level is dependent upon concentrations in a Toxicity Characteristic Leaching Procedure (TCLP) liquid extract. A TCLP Lead concentration at or exceeding 5.0 milligrams per liter (5.0 mg/L) is considered to be a hazardous waste under Federal and State hazardous waste regulations.

Bergmann identified LBP during the November 2015 inspection, sampling and analysis activities. The following table summarizes the findings from the survey:

Table 2
Lead Based Paint Material Results

Sample #	*Location & Material*	*Lead (% by weight)*	*Condition*
LBP-001	AO2 – Gray Windowsill Paint	6.62	Poor
LBP-005	MS2 – Gray ceiling paint	1.31	Poor
LBP-006	SF1 – Blue/Brown Wall/Frame Paint	0.103	Poor
LBP-007	PA1 – Beige Wall Paint	0.147	Poor

The following materials were sampled by Bergmann and resulted in a non-detect for LBP:

- Brown Brick/Stone Paint
- White Brick/Stone Paint
- White Wall Paint

Lead may also be present as coatings in vent and drain flashings as well and pipe seals and solders.

4.3 *Polychlorinated Biphenyls (PCBs)*

Concurrent with sampling for suspect ACM and lead, 2 samples of suspect caulk were collected for PCB analysis.

The representative bulk samples of caulks were collected using a pre-cleaned razor knife. The samples were placed in sealed plastic bags, labeled and transported via chain-of-custody protocol to Paradigm Environmental for laboratory analysis via EPA Method 8082. The locations of the caulk samples are depicted on the sample location plan.

Samples collected were below the reporting limits for PCBs. Copies of the laboratory analysis on collected caulk samples are provided in Appendix B of this report.

5.0 Limitations

This HW/CM survey investigated the presence of accessible and/or exposed suspect HW/CM. Bergmann did not perform testing within interior cavities and spaces that may exist in inaccessible spaces. Additional suspect materials may remain hidden within columns, chases, hidden wall cavities or within under-slab and underground utilities. Should suspect material be identified, the material should be sampled and analyzed to confirm or deny the presence of HW/CM.

6.0 Asbestos Containing Materials Report Notification Requirements

In accordance with New York State Asbestos Regulations under 12 NYCRR Part 56 (Industrial Code Rule 56) Subpart 56-5.1(g), one copy of the results of the building/structure asbestos survey shall be **immediately** transmitted by the building/structure owner as follows:

- 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 bureau office for this project is the Buffalo District office: 65 Court Street, Buffalo, NY 14202, phone: (716) 847-7601 fax: (716) 847-7138.

- One copy of the completed HW/CM survey shall be sent by the owner or their agent to the local government entity charged with issuing a permit for demolition, renovation, remodeling or repair work under applicable State or local laws.

- The completed asbestos survey shall be kept at the construction site throughout the duration of the demolition, renovation, remodeling or repair work.

FIGURES

Phase I ESA - Former Rome-Turney Radiator Company: 109 Canal Street Rome, NY

FIGURE 1 - Building Plan

Bergmann associates
architects // engineers // planners

N

0 25 50 100
Feet

Hazardous Waste/Contaminated Materials Survey
Former Rome-Turney Radiator Company: 109 Canal Street Rome, NY

FIGURE 2 - Sample Location Plan

Bergmann associates
architects // engineers // planners

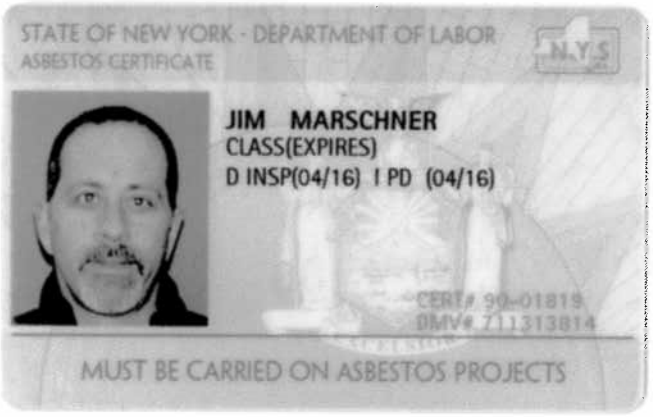
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APPENDIX A

BERGMANN ASSOCIATES
ASBESTOS LICENSE
WORKER CERTIFICATIONS
LABORATORY CERTIFICATIONS


STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE
N.Y.S.
JIM MARSCHNER
CLASS(EXPIRES)
D INSP(04/16) I PD (04/16)
CERT# 90-01819
DMV# 711313814
MUST BE CARRIED ON ASBESTOS PROJECTS


STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE
N.Y.S.
MEGAN E BORRUSO
CLASS(EXPIRES)
D INSP(09/16)
CERT# 12000492
DMV# 801180220
MUST BE CARRIED ON ASBESTOS PROJECTS

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2017
Issued April 01, 2016
Revised May 20, 2016

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 in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Acrylates	
Acrylonitrile	EPA 8260C
Amines	
1,2-Diphenylhydrazine	EPA 8270D
2-Nitroaniline	EPA 8270D
3-Nitroaniline	EPA 8270D
4-Chloroaniline	EPA 8270D
4-Nitroaniline	EPA 8270D
Aniline	EPA 625
	EPA 8270D
Carbazole	EPA 8270D
Pyridine	EPA 625
	EPA 8270D
Benzidines	
3,3'-Dichlorobenzidine	EPA 625
	EPA 8270D
Benzidine	EPA 625
	EPA 8270D
Chlorinated Hydrocarbon Pesticides	
4,4'-DDD	EPA 8081B
	EPA 608
4,4'-DDE	EPA 8081B
	EPA 608
4,4'-DDT	EPA 8081B
	EPA 608

Chlorinated Hydrocarbon Pesticides	
Aldrin	EPA 8081B
	EPA 608
alpha-BHC	EPA 8081B
	EPA 608
alpha-Chlordane	EPA 8081B
beta-BHC	EPA 8081B
	EPA 608
Chlordane Total	EPA 8081B
	EPA 608
delta-BHC	EPA 8081B
	EPA 608
Dieldrin	EPA 8081B
	EPA 608
Endosulfan I	EPA 8081B
	EPA 608
Endosulfan II	EPA 8081B
	EPA 608
Endosulfan sulfate	EPA 8081B
	EPA 608
Endrin	EPA 8081B
	EPA 608
Endrin aldehyde	EPA 8081B
	EPA 608
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B

Serial No.: 54805

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.

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Chlorinated Hydrocarbon Pesticides	
Heptachlor	EPA 608
Heptachlor epoxide	EPA 8081B
	EPA 608
Lindane	EPA 8081B
	EPA 608
Methoxychlor	EPA 8081B
	EPA 608
Toxaphene	EPA 8081B
	EPA 608
Chlorinated Hydrocarbons	
1,2,3-Trichlorobenzene	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
1,2,4-Trichlorobenzene	EPA 625
	EPA 8270D
2-Chloronaphthalene	EPA 625
	EPA 8270D
Hexachlorobenzene	EPA 625
	EPA 8270D
Hexachlorobutadiene	EPA 625
	EPA 8270D
Hexachlorocyclopentadiene	EPA 625
	EPA 8270D
Hexachloroethane	EPA 625
	EPA 8270D
Fuel Oxygenates	
Methyl tert-butyl ether	EPA 8260C
tert-butyl alcohol	EPA 8260C
Haloethers	
2,2'-Oxybis(1-chloropropane)	EPA 625
	EPA 8270D
4-Bromophenylphenyl ether	EPA 625
	EPA 8270D
4-Chlorophenylphenyl ether	EPA 625
	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 625
	EPA 8270D
Bis(2-chloroethyl)ether	EPA 625
	EPA 8270D
Metals I	
Barium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Calcium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Copper, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Iron, Total	EPA 200.7 Rev. 4.4

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All approved analytes are listed below:

Metals I	
Iron, Total	EPA 6010C
Lead, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Magnesium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Manganese, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Potassium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Silver, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Sodium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Metals II	
Aluminum, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Antimony, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Arsenic, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Mercury, Total	EPA 245.1 Rev. 3.0

Metals II	
Mercury, Total	EPA 7470A
Selenium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Vanadium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Metals III	
Cobalt, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Molybdenum, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Thallium, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Mineral	
Hardness, Total	EPA 200.7 Rev. 4.4
Miscellaneous	
Boron, Total	EPA 200.7 Rev. 4.4
	EPA 6010C
Cyanide, Total	EPA 9014
	SM 4500-CN E-99,-11
Oil and Grease Total Recoverable (HEM)	EPA 1664B
Specific Conductance	SM 2510B-97,-11
Total Petroleum Hydrocarbons	EPA 1664B

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Nitroaromatics and Isophorone	
2,4-Dinitrotoluene	EPA 625
	EPA 8270D
2,6-Dinitrotoluene	EPA 625
	EPA 8270D
Isophorone	EPA 625
	EPA 8270D
Nitrobenzene	EPA 625
	EPA 8270D
Nitrosoamines	
N-Nitrosodimethylamine	EPA 625
	EPA 8270D
N-Nitrosodi-n-propylamine	EPA 625
	EPA 8270D
N-Nitrosodiphenylamine	EPA 625
	EPA 8270D
Organophosphate Pesticides	
Atrazine	EPA 8270D
Petroleum Hydrocarbons	
Diesel Range Organics	EPA 8015D
Phthalate Esters	
Benzyl butyl phthalate	EPA 625
	EPA 8270D
Bis(2-ethylhexyl) phthalate	EPA 625
	EPA 8270D
Phthalate Esters	
Diethyl phthalate	EPA 625
	EPA 8270D
Dimethyl phthalate	EPA 625
	EPA 8270D
Di-n-butyl phthalate	EPA 625
	EPA 8270D
Di-n-octyl phthalate	EPA 625
	EPA 8270D
Polychlorinated Biphenyls	
PCB-1016	EPA 8082A
	EPA 608
PCB-1221	EPA 8082A
	EPA 608
PCB-1232	EPA 8082A
	EPA 608
PCB-1242	EPA 8082A
	EPA 608
PCB-1248	EPA 8082A
	EPA 608
PCB-1254	EPA 8082A
	EPA 608
PCB-1260	EPA 8082A
	EPA 608
PCB-1262	EPA 8082A
PCB-1268	EPA 8082A

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Polynuclear Aromatics	
Acenaphthene	EPA 625
	EPA 8270D
Acenaphthylene	EPA 625
	EPA 8270D
Anthracene	EPA 625
	EPA 8270D
Benzo(a)anthracene	EPA 625
	EPA 8270D
Benzo(a)pyrene	EPA 625
	EPA 8270D
Benzo(b)fluoranthene	EPA 625
	EPA 8270D
Benzo(ghi)perylene	EPA 625
	EPA 8270D
Benzo(k)fluoranthene	EPA 625
	EPA 8270D
Chrysene	EPA 625
	EPA 8270D
Dibenzo(a,h)anthracene	EPA 625
	EPA 8270D
Fluoranthene	EPA 625
	EPA 8270D
Fluorene	EPA 625
	EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 625
	EPA 8270D
Polynuclear Aromatics	
Naphthalene	EPA 625
	EPA 8270D
Phenanthrene	EPA 625
	EPA 8270D
Pyrene	EPA 625
	EPA 8270D
Priority Pollutant Phenols	
2,3,4,6 Tetrachlorophenol	EPA 8270D
2,4,5-Trichlorophenol	EPA 8270D
2,4,6-Trichlorophenol	EPA 625
	EPA 8270D
2,4-Dichlorophenol	EPA 625
	EPA 8270D
2,4-Dimethylphenol	EPA 625
	EPA 8270D
2,4-Dinitrophenol	EPA 625
	EPA 8270D
2,6-Dichlorophenol	EPA 8270D
2-Chlorophenol	EPA 625
	EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 625
	EPA 8270D
2-Methylphenol	EPA 625
	EPA 8270D
2-Nitrophenol	EPA 625

Serial No.: 54805

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2017
Issued April 01, 2016
Revised May 20, 2016

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 in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Priority Pollutant Phenols	
2-Nitrophenol	EPA 8270D
4-Chloro-3-methylphenol	EPA 625
	EPA 8270D
4-Methylphenol	EPA 625
	EPA 8270D
4-Nitrophenol	EPA 625
	EPA 8270D
Cresols, Total	EPA 8270D
Pentachlorophenol	EPA 625
	EPA 8270D
Phenol	EPA 625
	EPA 8270D
Residue	
Settleable Solids	SM 2540 F-97,-11
Semi-Volatile Organics	
1,1'-Biphenyl	EPA 8270D
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 8270D
Acetophenone	EPA 8270D
Benzaldehyde	EPA 8270D
Benzoic Acid	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D

Semi-Volatile Organics	
Dibenzofuran	EPA 8270D
Volatile Aromatics	
1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C
	EPA 624
1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C
	EPA 624
1,4-Dichlorobenzene	EPA 8260C
	EPA 624
2-Chlorotoluene	EPA 8260C
4-Chlorotoluene	EPA 8260C
Benzene	EPA 8260C
	EPA 624
Bromobenzene	EPA 8260C
Chlorobenzene	EPA 8260C
	EPA 624
Ethyl benzene	EPA 8260C
	EPA 624
Isopropylbenzene	EPA 8260C
m/p-Xylenes	EPA 8260C
	EPA 624
Naphthalene, Volatile	EPA 8260C
n-Butylbenzene	EPA 8260C

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Volatile Aromatics

n-Propylbenzene	EPA 8260C
o-Xylene	EPA 8260C
	EPA 624
p-Isopropyltoluene (P-Cymene)	EPA 8260C
sec-Butylbenzene	EPA 8260C
Styrene	EPA 8260C
tert-Butylbenzene	EPA 8260C
Toluene	EPA 8260C
	EPA 624
Total Xylenes	EPA 8260C
	EPA 624

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C
	EPA 624
1,1,2,2-Tetrachloroethane	EPA 8260C
	EPA 624
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
1,1,2-Trichloroethane	EPA 8260C
	EPA 624
1,1-Dichloroethane	EPA 8260C
	EPA 624
1,1-Dichloroethene	EPA 8260C
	EPA 624
1,1-Dichloropropene	EPA 8260C

Volatile Halocarbons

1,2,3-Trichloropropane	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260C
1,2-Dibromoethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C
	EPA 624
1,2-Dichloropropane	EPA 8260C
	EPA 624
1,3-Dichloropropane	EPA 8260C
2,2-Dichloropropane	EPA 8260C
2-Chloroethylvinyl ether	EPA 624
Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 8260C
	EPA 624
Bromoform	EPA 8260C
	EPA 624
Bromomethane	EPA 8260C
	EPA 624
Carbon tetrachloride	EPA 8260C
	EPA 624
Chloroethane	EPA 8260C
	EPA 624
Chloroform	EPA 8260C
	EPA 624
Chloromethane	EPA 8260C
	EPA 624
cis-1,2-Dichloroethene	EPA 8260C

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All approved analytes are listed below:

Volatile Halocarbons

cis-1,2-Dichloroethene	EPA 624
cis-1,3-Dichloropropene	EPA 8260C
	EPA 624
Dibromochloromethane	EPA 8260C
	EPA 624
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 8260C
	EPA 624
Hexachlorobutadiene, Volatile	EPA 8260C
Methylene chloride	EPA 8260C
	EPA 624
Tetrachloroethene	EPA 8260C
	EPA 624
trans-1,2-Dichloroethene	EPA 8260C
	EPA 624
trans-1,3-Dichloropropene	EPA 8260C
	EPA 624
Trichloroethene	EPA 8260C
	EPA 624
Trichlorofluoromethane	EPA 8260C
	EPA 624
Vinyl chloride	EPA 8260C
	EPA 624

Volatiles Organics

1,4-Dioxane	EPA 8260C

Volatiles Organics

2-Butanone (Methylethyl ketone)	EPA 8260C
2-Hexanone	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C
Acetone	EPA 8260C
Carbon Disulfide	EPA 8260C
Cyclohexane	EPA 8260C
Isopropanol	EPA 8260C
Methyl acetate	EPA 8260C
Methyl cyclohexane	EPA 8260C
Vinyl acetate	EPA 8260C

Sample Preparation Methods

EPA 5030C
SM 4500-CN B or C-99,-11
EPA 3005A
EPA 3510C
EPA 9010C

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All approved analytes are listed below:

Acrylates	
Acrylonitrile	EPA 8260C
Amines	
1,2-Diphenylhydrazine	EPA 8270D
2-Nitroaniline	EPA 8270D
3-Nitroaniline	EPA 8270D
4-Chloroaniline	EPA 8270D
4-Nitroaniline	EPA 8270D
Aniline	EPA 8270D
Carbazole	EPA 8270D
Benzidines	
3,3'-Dichlorobenzidine	EPA 8270D
Benzidine	EPA 8270D
Characteristic Testing	
Corrosivity	EPA 9040C
	EPA 9045D
Free Liquids	EPA 9095B
Ignitability	EPA 1030
	EPA 1010A
Synthetic Precipitation Leaching Proc.	EPA 1312
TCLP	EPA 1311
Chlorinated Hydrocarbon Pesticides	
4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Chlorinated Hydrocarbon Pesticides	
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
Atrazine	EPA 8270D
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
delta-BHC	EPA 8081B
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Toxaphene	EPA 8081B
Chlorinated Hydrocarbons	
1,2,3-Trichlorobenzene	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
1,2,4-Trichlorobenzene	EPA 8270D
2-Chloronaphthalene	EPA 8270D

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All approved analytes are listed below:

Chlorinated Hydrocarbons	
Hexachlorobenzene	EPA 8270D
Hexachlorobutadiene	EPA 8270D
Hexachlorocyclopentadiene	EPA 8270D
Hexachloroethane	EPA 8270D
Haloethers	
2,2'-Oxybis(1-chloropropane)	EPA 8270D
4-Bromophenylphenyl ether	EPA 8270D
4-Chlorophenylphenyl ether	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 8270D
Bis(2-chloroethyl)ether	EPA 8270D
Metals I	
Barium, Total	EPA 6010C
Cadmium, Total	EPA 6010C
Calcium, Total	EPA 6010C
Chromium, Total	EPA 6010C
Copper, Total	EPA 6010C
Iron, Total	EPA 6010C
Lead, Total	EPA 6010C
Magnesium, Total	EPA 6010C
Manganese, Total	EPA 6010C
Nickel, Total	EPA 6010C
Potassium, Total	EPA 6010C
Silver, Total	EPA 6010C
Sodium, Total	EPA 6010C
Metals II	
Aluminum, Total	EPA 6010C
Antimony, Total	EPA 6010C
Arsenic, Total	EPA 6010C
Beryllium, Total	EPA 6010C
Mercury, Total	EPA 7471B
Selenium, Total	EPA 6010C
Vanadium, Total	EPA 6010C
Zinc, Total	EPA 6010C
Metals III	
Cobalt, Total	EPA 6010C
Molybdenum, Total	EPA 6010C
Thallium, Total	EPA 6010C
Miscellaneous	
Boron, Total	EPA 6010C
Cyanide, Total	EPA 9014
Nitroaromatics and Isophorone	
2,4-Dinitrotoluene	EPA 8270D
2,6-Dinitrotoluene	EPA 8270D
Isophorone	EPA 8270D
Nitrobenzene	EPA 8270D
Pyridine	EPA 8270D
Nitrosoamines	
N-Nitrosodimethylamine	EPA 8270D
N-Nitrosodi-n-propylamine	EPA 8270D

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Nitrosoamines	
N-Nitrosodiphenylamine	EPA 8270D
Petroleum Hydrocarbons	
Diesel Range Organics	EPA 8015D
Phthalate Esters	
Benzyl butyl phthalate	EPA 8270D
Bis(2-ethylhexyl) phthalate	EPA 8270D
Diethyl phthalate	EPA 8270D
Dimethyl phthalate	EPA 8270D
Di-n-butyl phthalate	EPA 8270D
Di-n-octyl phthalate	EPA 8270D
Polychlorinated Biphenyls	
PCB-1016	EPA 8082A
PCB-1221	EPA 8082A
PCB-1232	EPA 8082A
PCB-1242	EPA 8082A
PCB-1248	EPA 8082A
PCB-1254	EPA 8082A
PCB-1260	EPA 8082A
PCB-1262	EPA 8082A
PCB-1268	EPA 8082A
PCBs in Oil	EPA 8082A
Polynuclear Aromatic Hydrocarbons	
Acenaphthene	EPA 8270D
Acenaphthylene	EPA 8270D

Polynuclear Aromatic Hydrocarbons	
Anthracene	EPA 8270D
Benzo(a)anthracene	EPA 8270D
Benzo(a)pyrene	EPA 8270D
Benzo(b)fluoranthene	EPA 8270D
Benzo(ghi)perylene	EPA 8270D
Benzo(k)fluoranthene	EPA 8270D
Chrysene	EPA 8270D
Dibenzo(a,h)anthracene	EPA 8270D
Fluoranthene	EPA 8270D
Fluorene	EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 8270D
Naphthalene	EPA 8270D
Phenanthrene	EPA 8270D
Pyrene	EPA 8270D
Priority Pollutant Phenols	
2,3,4,6 Tetrachlorophenol	EPA 8270D
2,4,5-Trichlorophenol	EPA 8270D
2,4,6-Trichlorophenol	EPA 8270D
2,4-Dichlorophenol	EPA 8270D
2,4-Dimethylphenol	EPA 8270D
2,4-Dinitrophenol	EPA 8270D
2,6-Dichlorophenol	EPA 8270D
2-Chlorophenol	EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 8270D
2-Methylphenol	EPA 8270D

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All approved analytes are listed below:

Priority Pollutant Phenols

2-Nitrophenol	EPA 8270D
4-Chloro-3-methylphenol	EPA 8270D
4-Methylphenol	EPA 8270D
4-Nitrophenol	EPA 8270D
Pentachlorophenol	EPA 8270D
Phenol	EPA 8270D

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 8270D
Acetophenone	EPA 8270D
Benzaldehyde	EPA 8270D
Benzoic Acid	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D
Dibenzofuran	EPA 8270D

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C
1,4-Dichlorobenzene	EPA 8260C

Volatile Aromatics

2-Chlorotoluene	EPA 8260C
4-Chlorotoluene	EPA 8260C
Benzene	EPA 8260C
Bromobenzene	EPA 8260C
Chlorobenzene	EPA 8260C
Ethyl benzene	EPA 8260C
Isopropylbenzene	EPA 8260C
m/p-Xylenes	EPA 8260C
Naphthalene, Volatile	EPA 8260C
n-Butylbenzene	EPA 8260C
n-Propylbenzene	EPA 8260C
o-Xylene	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260C
sec-Butylbenzene	EPA 8260C
Styrene	EPA 8260C
tert-Butylbenzene	EPA 8260C
Toluene	EPA 8260C
Total Xylenes	EPA 8260C

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C
1,1,2,2-Tetrachloroethane	EPA 8260C
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
1,1,2-Trichloroethane	EPA 8260C
1,1-Dichloroethane	EPA 8260C

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All approved analytes are listed below:

Volatile Halocarbons	
1,1-Dichloroethene	EPA 8260C
1,1-Dichloropropene	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260C
1,2-Dibromoethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C
1,2-Dichloropropane	EPA 8260C
1,3-Dichloropropane	EPA 8260C
2,2-Dichloropropane	EPA 8260C
Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 8260C
Bromoform	EPA 8260C
Bromomethane	EPA 8260C
Carbon tetrachloride	EPA 8260C
Chloroethane	EPA 8260C
Chloroform	EPA 8260C
Chloromethane	EPA 8260C
cis-1,2-Dichloroethene	EPA 8260C
cis-1,3-Dichloropropene	EPA 8260C
Dibromochloromethane	EPA 8260C
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 8260C
Methylene chloride	EPA 8260C
Tetrachloroethene	EPA 8260C
trans-1,2-Dichloroethene	EPA 8260C
trans-1,3-Dichloropropene	EPA 8260C
Volatile Halocarbons	
Trichloroethene	EPA 8260C
Trichlorofluoromethane	EPA 8260C
Vinyl chloride	EPA 8260C
Volatile Organics	
1,4-Dioxane	EPA 8260C
2-Butanone (Methylethyl ketone)	EPA 8260C
2-Hexanone	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C
Acetone	EPA 8260C
Carbon Disulfide	EPA 8260C
Cyclohexane	EPA 8260C
Isopropanol	EPA 8260C
Methyl acetate	EPA 8260C
Methyl cyclohexane	EPA 8260C
Methyl tert-butyl ether	EPA 8260C
tert-butyl alcohol	EPA 8260C
Vinyl acetate	EPA 8260C
Sample Preparation Methods	
	EPA 5035A-L
	EPA 5035A-H
	EPA 3580A
	EPA 3050B
	EPA 3550C
	EPA 9010C

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NY Lab Id No: 10958

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All approved analytes are listed below:

Metals II

Beryllium, Total	NIOSH 7303

Metals III

Chromium, Total	NIOSH 7303

NEW YORK STATE | Department of Health

Serial No.: 54683

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NELAP RECOGNIZED TNI ACCREDITATION BODY

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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

NEW YORK STATE Department of Health

Serial No.: 54682

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Issued April 01, 2016

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 AIR AND EMISSIONS
All approved subcategories and/or analytes are listed below:

Metals I	
Lead, Total	NIOSH 7303
Miscellaneous	
Asbestos	40 CFR 763 APX A No. III
	NIOSH 7402
Fibers	NIOSH 7400 A RULES

NEW YORK STATE | Department of Health

Serial No.: 54684

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.

APPENDIX B

ASBESTOS CHAIN-OF-CUSTODY FORMS AND LABORATORY ANALYTICAL REPORTS

PARADIGM

Analytical Report For

Bergmann Associates

For Lab Project ID

154721

Referencing

Rome Turney

Prepared

Friday, November 13, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154721

Client: **Bergmann Associates**

Project Reference: Rome Turney

Sample Identifier:	LBP-001 Gray AO2, Window Sill		
Lab Sample ID:	154721-01	**Date Sampled:**	11/3/2015
Matrix:	Paint	**Date Received:**	11/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**6.62**	%		11/12/2015 12:18

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 11/10/2015
Data File: 111215a

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154721

Client: **Bergmann Associates**

Project Reference: Rome Turney

Sample Identifier:	LBP-002 Brown MS2, Brick/Stone Paint		
Lab Sample ID:	154721-02	**Date Sampled:**	11/3/2015
Matrix:	Paint	**Date Received:**	11/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.204**	%		11/11/2015 19:37

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 11/10/2015
Data File: 111115b

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154721

Client: **Bergmann Associates**

Project Reference: Rome Turney

Sample Identifier:	LBP-003 White MS2, Brick/Stone Paint		
Lab Sample ID:	154721-03	**Date Sampled:**	11/3/2015
Matrix:	Paint	**Date Received:**	11/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.199**	%		11/11/2015 19:41

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 11/10/2015
Data File: 111115b

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154721

Client: **Bergmann Associates**

Project Reference: Rome Turney

Sample Identifier:	LBP-004 White MS2, Wall Paint		
Lab Sample ID:	154721-04	**Date Sampled:**	11/3/2015
Matrix:	Paint	**Date Received:**	11/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.224**	%		11/11/2015 19:54

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 11/10/2015
Data File: 111115b

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154721

Client: **Bergmann Associates**

Project Reference: Rome Turney

Sample Identifier:	LBP-005 Gray MS2, Ceiling Paint		
Lab Sample ID:	154721-05	**Date Sampled:**	11/3/2015
Matrix:	Paint	**Date Received:**	11/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**1.31**	%		11/11/2015 19:58

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 11/10/2015
Data File: 111115b

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154721

Client: **Bergmann Associates**

Project Reference: Rome Turney

Sample Identifier:	LBP-006 Blue/Brown SF1, Wall/Frame Paint		
Lab Sample ID:	154721-06	**Date Sampled:**	11/4/2015
Matrix:	Paint	**Date Received:**	11/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.103**	%		11/11/2015 20:11

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 11/10/2015
Data File: 111115b

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154721

Client: **Bergmann Associates**

Project Reference: Rome Turney

Sample Identifier:	LBP-007 Beige PA1, Wall Paint		
Lab Sample ID:	154721-07	**Date Sampled:**	11/4/2015
Matrix:	Paint	**Date Received:**	11/6/2015

Lead

Analyte	Result	Units	Qualifier	Date Analyzed
Lead	**0.147**	%		11/11/2015 20:15

Method Reference(s): EPA 6010C
EPA 3050
Preparation Date: 11/10/2015
Data File: 111115b

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154721

Client: **Bergmann Associates**

Project Reference: Rome Turney

Sample Identifier:	PCB-001 Gray AO1, Window Sealant		
Lab Sample ID:	154721-08	**Date Sampled:**	11/3/2015
Matrix:	Solid	**Date Received:**	11/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 4.88	mg/Kg		11/11/2015 20:49
PCB-1221	< 4.88	mg/Kg		11/11/2015 20:49
PCB-1232	< 4.88	mg/Kg		11/11/2015 20:49
PCB-1242	< 4.88	mg/Kg		11/11/2015 20:49
PCB-1248	< 4.88	mg/Kg		11/11/2015 20:49
PCB-1254	< 4.88	mg/Kg		11/11/2015 20:49
PCB-1260	< 4.88	mg/Kg		11/11/2015 20:49
PCB-1262	< 4.88	mg/Kg		11/11/2015 20:49
PCB-1268	< 4.88	mg/Kg		11/11/2015 20:49

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**98.0**	19.4 - 148		11/11/2015 20:49
Tetrachloro-m-xylene	**64.9**	0 - 156		11/11/2015 20:49

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 11/11/2015

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Report Prepared Friday, November 13, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 154721

Client: **Bergmann Associates**

Project Reference: Rome Turney

Sample Identifier:	PCB-002 Multi Color SR1, Door Caulk		
Lab Sample ID:	154721-09	**Date Sampled:**	11/4/2015
Matrix:	Caulk	**Date Received:**	11/6/2015

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 4.95	mg/Kg		11/11/2015 21:12
PCB-1221	< 4.95	mg/Kg		11/11/2015 21:12
PCB-1232	< 4.95	mg/Kg		11/11/2015 21:12
PCB-1242	< 4.95	mg/Kg		11/11/2015 21:12
PCB-1248	< 4.95	mg/Kg		11/11/2015 21:12
PCB-1254	< 4.95	mg/Kg		11/11/2015 21:12
PCB-1260	< 4.95	mg/Kg		11/11/2015 21:12
PCB-1262	< 4.95	mg/Kg		11/11/2015 21:12
PCB-1268	< 4.95	mg/Kg		11/11/2015 21:12

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl	**89.5**	19.4 - 148		11/11/2015 21:12
Tetrachloro-m-xylene	**68.1**	0 - 156		11/11/2015 21:12

Method Reference(s): EPA 8082A
EPA 3550C

Preparation Date: 11/11/2015

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Friday, November 13, 2015

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 * (800) 724-1997

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
COMPANY:	Bergmann Associates	COMPANY:	Same
ADDRESS:	28 East Main Street	ADDRESS:	
CITY:	Rochester STATE: NY ZIP: 14614	CITY: STATE: ZIP:	
PHONE:	232-5135 FAX: 232-4652	PHONE: FAX:	
ATTN:	jmarschner@bergmannpc.com	ATTN:	
COMMENTS:			

LAB PROJECT #: 154721
CLIENT PROJECT #:
TURNAROUND TIME: (WORKING DAYS) STD: [X] 5 OTHER: [ ] 1 [ ] 2 [ ] 3
Quotation #

PROJECT NAME/SITE NAME: Rome Turney

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REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TOTAL LEAD	PCB									REMARKS	PARADIGM LAB SAMPLE NUMBER
1	11/3/2015	1025		X	LBP-001 GRAY AOR	Paint	1	X										WINDOW SILL	01
2	11/3/2015	1105		X	LBP-002 BROWN MS2	Paint	1	X										BRICK/STONE PAINT	02
3	11/3/2015	1135		X	LBP-003 WHITE MS2	Paint	1	X										BRICK/STONE PAINT	03
4	11/3/2015	1200		X	LBP-004 WHITE MS2	Paint	1	X										WALL PAINT	04
5	11/3/2015	1315		X	LBP-005 GRAY MS2	Paint	1	X										CEILING PAINT	05
6	11/4/2015	1310		X	LBP-006 BLUE/BROWN SF1	Paint	1	X										WALL/FRAME PAINT	06
7	11/4/2015	1400		X	LBP-007 BEIGE PA1	Paint	1	X										WALL PAINT	07
8	11/3/2015	1055		X	PCB-001 GRAY AO1	Solid	1		X									WINDOW SEALANT	08
9	11/4/2015	1330		X	PCB-002 MULTI COLOR SR1	Caulk	1		X									DOOR CAULK	09
10						per 3rd	1 or remarks												

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y [ ]	N [ ]
Comments:		
Preservation:	Y [ ]	N [ ]
Comments:		
Holding Time:	Y [ ]	N [ ]
Comments:		
Temperature:	Y [ ]	N [ ]
Comments: 21°C 11/6/15 16:31		

Sampled By	AS ABOVE	
Relinquished By	Date/Time 11/6/2015 @ 1600	
Megan E. Bergmann	Date/Time 11/6/2015 16:00	
Received By Megan E. Bergmann	Date/Time 11/6/2015 16:00	
Relinquished By	Date/Time 11/6/2015 16:25	
Received @ Lab By	Date/Time	
11/6/15 16:58		

Total Cost:

P.I.F.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Chain of Custody Supplement

Client: Bergmann Associates **Completed by:** Glenn Pezzulo

Lab Project ID: 154721 **Date:** 11/6/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature			X (melts)
Comments	21° C		
Sufficient Sample Quantity	X		
Comments			

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PARADIGM ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

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

Client: Bergmann Associates
Location: Rome Turney
Job No: 14915-15

Sample Date: 11/3/2015

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 %
PA-001A	105451	A-02 Panel Adhesive	Tan Adhesive	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
PA-001B	105452	A-02 Panel Adhesive	Tan Adhesive	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
CT-002A	105453	A-02 Fissure Ceiling Tile (1x1)	Tan Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	None Detected	100%
CT-002B	105454	A-02 Fissure Ceiling Tile (1x1)	White Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	None Detected	100%
CT-002C	105455	A-02 Fissure Ceiling Tile (1x1)	Tan Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	None Detected	100%
CT-003A	105456	A-02 Textured Ceiling Tile (1x1)	White Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	None Detected	100%
CT-003B	105457	A-02 Textured Ceiling Tile (1x1)	White Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	None Detected	100%
CT-003C	105458	A-02 Textured Ceiling Tile (1x1)	White Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	None Detected	100%
CT-004A	105459	A-02 Textured Ceiling Tile Type 2 (1x1)	White /Gray Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	None Detected	100%
CT-004B	105460	A-02 Textured Ceiling Tile Type 2 (1x1)	White /Gray Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	None Detected	100%

NVLAP Lab Code 200530-0 for PLM Analysis

ELAP ID No.: 10958

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

√ NOB (non-friable organically bound)denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).

V̈ 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).

**** 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 and/or EPA 600/R-93/116 (NVLAP Lab Code 2000530-0),

PLM Date Analyzed: 11/10/2015
TEM Date Analyzed: 11/10/2015
Microscope: Olympus BH-2 #232953
TEM Analyst: F. Weinman
Analyst: *T. Bush*

Laboratory Results Approved By:
Asbestos Operations Manager or Designee Mary Dohr

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PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

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

Client: Bergmann Associates **Job No:** 14915-15
Location: Rome Turney

Sample Date: 11/3/2015

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 %
CT-004C	105461	A-02 Textured Ceiling Tile Type 2 (1x1)	White /Gray Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	None Detected	100%
CG-005A	105462	A-02 Carpet Glue	Tan Carpet Mastic Floor	Inconclusive No Asbestos Detected	0%	√	Trace Chrysotile <1.0%	<1.0%	None Detected	100%
CG-005B	105463	A-02 Carpet Glue	Tan Carpet Mastic Floor	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
JC-006A	105464	A-02 Joint Compound	White Joint Compound	None Detected	0%		Not Required	N/A	None Detected	100%
JC-006B	105465	A-02 Joint Compound	White Joint Compound	None Detected	0%		Not Required	N/A	None Detected	100%
JC-006C	105466	A-02 Joint Compound	White Joint Compound	None Detected	0%		Not Required	N/A	None Detected	100%
DWT-008A	105467	A-02 Drywall Tape	White Fibrous Drywall Tape	None Detected	0%		Not Required	N/A	Cellulose 99%	1%
DWT-008B	105468	A-02 Drywall Tape	White Fibrous Drywall Tape	None Detected	0%		Not Required	N/A	Cellulose 99%	1%
DWT-008C	105469	A-02 Drywall Tape	White Fibrous Drywall Tape	None Detected	0%		Not Required	N/A	Cellulose 99%	1%
DW-007A	105470	A-02 Drywall	White Drywall	None Detected	0%		Not Required	N/A	Fiberglass 3% Cellulose 2%	95%

NVLAP Lab Code 200530-0 for PLM Analysis **ELAP ID No.: 10958**

KEY TO NOB COLUMN SYMBOLS
No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).
√ NOB (non-friable organically bound)denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).
V̈ 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).
** 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 and/or EPA 600/R-93/116 (NVLAP Lab Code 2000530-0),

PLM Date Analyzed: 11/10/2015 **TEM Date Analyzed:** 11/10/2015
Microscope: Olympus BH-2 #232953 **TEM Analyst:** F. Weinman
Analyst: *T. Bush*

Laboratory Results Approved By:
Asbestos Operations Manager or Designee Mary Dohr

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 laboratory and analysts' and precision) is available upon request.

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

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

Client: Bergmann Associates
Location: Rome Turney

Job No: 14915-15

Sample Date: 11/3/2015

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 %
DW-007B	105471	A-02 Drywall	White Drywall	None Detected	0%		Not Required	N/A	Fiberglass 3% Cellulose 2%	95%
DW-007C	105472	A-02 Drywall	White Drywall	None Detected	0%		Not Required	N/A	Fiberglass 3% Cellulose 2%	95%
FT-009A	105473	A-02 Floor Tile	Brown Floor Tile	Chrysotile 2.3%	2.3%	√	Not Required	N/A	None Detected	97.7%
FT-009B	105474	A-02 Floor Tile	Brown Floor Tile	Chrysotile 4.2%	4.2%	√	Not Required	N/A	None Detected	95.8%
FTM-010A	105475	A-02 Floor Tile Mastic	Orange Floor Tile Mastic	Inconclusive No Asbestos Detected	0%	√	Trace Chrysotile <1.0%	<1.0%	None Detected	100%
FTM-010B	105476	A-02 Floor Tile Mastic	Orange Floor Tile Mastic	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%

NVLAP Lab Code 200530-0 for PLM Analysis

ELAP ID No.: 10958

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

√ NOB (non-friable organically bound)denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).

Ṽ 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).

**** 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 and/or EPA 600/R-93/116 (NVLAP Lab Code 2000530-0),

PLM Date Analyzed: 11/10/2015
Microscope: Olympus BH-2 #232953
Analyst: *T. Bush*

TEM Date Analyzed: 11/10/2015
TEM Analyst: F. Weinman

Laboratory Results Approved By:
Asbestos Operations Manager or Designee Mary Dohr

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179 Lake Avenue, Rochester, NY 14608 Office: 585-647-2530 Fax: 585-647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY FOR PLM/TEM BULK ASBESTOS ANALYSIS

Client: **Bergmann Associates**	Contact: **Jim Marschner/Megan Borruso**	**OFFICE USE ONLY**
Phone Number: **585.232.5135**	Fax Number: **585.232.4652**	Job #: 14915-15
Client Mailing Address: **28 East Main Street**	Results To: **jmarschner@bergmannpc.com**	Turn Around Time: 1 ☐ 2 ☐ 3 ☐ 5 ☒ Other ☐	Page 3 of 4
200 First Federal Plaza	Date Sampled: 11/3/15	Material Type/Quantity: Friable ___ NOB ___ TEM ___	Date Logged In: 11/9
Rochester, NY 14614	Project Location: **Rome Turney**		Logged In By: KS
			1 of 6

	Client ID	Lab ID	Sampling Location	Color	Material Size	Type of Material
1	PA-001 A,B	105451, 452	QC AO2 - PANEL ADHESIVE	TAN		
2	CT-002 A,B,C	453,454,455	AO2 - FISSURE CEILING TILE (1x1)	WHITE		
3	CT-003 A,B,C	456,457,458	AO2 - TEXTURED CEILING TILE (1x1)	WHITE		
4	CT-004 A,B,C	459, 460, 461,	AO2 - TEXTURED CEILING TILE, TYPE 2 (1x1)	WHITE		
5	CG-005 A,B	462, 463	AO2 - CARPET GLUE	TAN		
6	JC-006 A,B,C	464, 465, 466	AO2 - JOINT COMPOUND	WHITE		
7	DWT-008 A,B,C	467, 468, 469	AO2 - DRYWALL TAPE	WHITE		
8	DW-007 A,B,C	470, 471, 472	AO2 - DRYWALL	WHITE		
9	FT-009 A,B	473, 474	AO2 - FLOOR TILE	BROWN		
10	FTM-010 A,B	475, 476	AO2 - FLOOR TILE MASTIC	ORANGE		

Sampled By: Megan E Borruso	**Date:** 11/3/15
Transported to Paradigm By: Megan E. Borruso	**Date:** 11/6/15
Received By: Kristen Cavanaugh	**Date:** 11/6/15

All samples will be analyzed by the appropriate New York State Department of Health methods (198.1,198.4 and 198.6) unless other methods are requested.

CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS X
or provide TEM contact name: ***Stop first positive each sample set.***

TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY:

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

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

Client: Bergmann Associates
Location: Rome Turney

Job No: 14916-15

Sample Date: 11/4/2015

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 %
EWJ-011A	105477	A02 Electrical Wire Jacket	Multi-Colored Electrical Wire Jacket	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
EWJ-011B	105478	A02 Electrical Wire Jacket	Multi-Colored Electrical Wire Jacket	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
EWJ-011C	105479	A02 Electrical Wire Jacket	Multi-Colored Electrical Wire Jacket	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
PW-012A	105480	A02 Paper Wallboard	Black/Beige Paper Wall Board	Inconclusive Trace Chrysotile Detected	<1.0%	√	None Detected	<1.0%	None Detected	100%
PW-012B	105481	A02 Paper Wallboard	Black/Beige Paper Wall Board	Inconclusive Trace Chrysotile Detected	<1.0%	√	Trace Chrysotile <1.0%	<1.0%	None Detected	100%
CT-013A	105482	A02 Ceiling Tile (2'x4)	White Fibrous Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	Mineral Wool 10%	90%
CT-013B	105483	A02 Ceiling Tile (2'x4)	White Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	Mineral Wool 5%	95%
CT-013C	105484	A02 Ceiling Tile (2'x4)	White Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	Mineral Wool 5%	95%
CI-014A	105485	A02 Ceiling Insulation	Whit Fibrous Ceiling Insulation	None Detected	0%		Not Required	N/A	Mineral Wool 100%	0%
CI-014B	105486	A02 Ceiling Insulation	Whit Fibrous Ceiling Insulation	None Detected	0%		Not Required	N/A	Mineral Wool 100%	0%

NVLAP Lab Code 200530-0 for PLM Analysis

ELAP ID No.: 10958

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

√ NOB (non-friable organically bound)denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).

V̌ 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).

**** 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 and/or EPA 600/R-93/116 (NVLAP Lab Code 2000530-0),

PLM Date Analyzed: 11/10/2015
Microscope: Olympus BH-2 #232953
Analyst: *T. Bush*

TEM Date Analyzed: 11/12/2015
TEM Analyst: M. Lochner

Laboratory Results Approved By:
Asbestos Operations Manager or Designee Mary Dohr

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

Client: Bergmann Associates **Job No:** 14916-15
Location: Rome Turney

Sample Date: 11/4/2015

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 %
CI-014C	105487	A02 Ceiling Insulation	Whit Fibrous Ceiling Insulation	None Detected	0%		Not Required	N/A	Mineral Wool 100%	0%
WG-016A	105488	A02 Window Glaze	White Window Glaze	Inconclusive Trace Chrysotile Detected	<1.0%	#	Chrysotile 2.1%	2.1%	None Detected	97.9%
WG-016B	105489	A02 Window Glaze	White Window Glaze	Inconclusive Trace Chrysotile Detected	<1.0%	#	Trace Chrysotile <1.0%	<1.0%	None Detected	100%
WG-016C	105490	A02 Window Glaze	White Window Glaze	Inconclusive Trace Chrysotile Detected	<1.0%	#	Trace Chrysotile <1.0%	<1.0%	None Detected	100%
VI-015A	105491	A02 Vermiculite Ceiling Insulation	Gray Fibrous Vermiculite Insulation	Treat as Asbestos Containing Material	**	V̈	Not Required	N/A	Vermiculite 100%	0%
VI-015B	105492	A02 Vermiculite Ceiling Insulation	Gray Fibrous Vermiculite Insulation	Treat as Asbestos Containing Material	**	V̈	Not Required	N/A	Vermiculite 100%	0%
VI-015C	105493	A02 Vermiculite Ceiling Insulation	Gray Fibrous Vermiculite Insulation	Treat as Asbestos Containing Material	**	V̈	Not Required	N/A	Vermiculite 100%	0%
WC-017A	105494	A02 Window Caulk	White Window Caulk	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	None Detected	100%
WC-017B	105495	A02 Window Caulk	White Window Caulk	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	None Detected	100%
CP-018A	105496	MS2 Wall Plaster	White Wall Plaster	None Detected	0%		Not Required	N/A	None Detected	100%

NVLAP Lab Code 200530-0 for PLM Analysis **ELAP ID No.: 10958**

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).
V̈ 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).
**** 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 and/or EPA 600/R-93/116 (NVLAP Lab Code 2000530-0),

PLM Date Analyzed: 11/10/2015 **TEM Date Analyzed:** 11/12/2015
Microscope: Olympus BH-2 #232953 **TEM Analyst:** M. Lochner
Analyst: *T. Bush*

Laboratory Results Approved By:
Asbestos Operations Manager or Designee Mary Dohr

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

Client: Bergmann Associates
Location: Rome Turney

Job No: 14916-15

Sample Date: 11/4/2015

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 %
CP-018B	105497	MS2 Wall Plaster	White Ceiling Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
CP-018C	105498	MS2 Wall Plaster	White Ceiling Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
DWT-019A	105499	MS2 Drywall Tape	White Fibrous Drywall Tape	None Detected	0%		Not Required	N/A	Cellulose 99%	1%
DWT-019B	105500	MS2 Drywall Tape	White Fibrous Drywall Tape	None Detected	0%		Not Required	N/A	Cellulose 99%	1%
DWT-019C	105501	MS2 Drywall Tape	White Fibrous Drywall Tape	None Detected	0%		Not Required	N/A	Cellulose 99%	1%
JC-020A	105502	MS2 Joint Compound	White Joint Compound	Chrysotile 4.1%	4.1%		Not Required	N/A	None Detected	95.9%
JC-020B	105503	MS2 Joint Compound	White Joint Compound	STOP	POSITIVE		SAMPLE	NOT	ANALYZED	N/A
JC-020C	105504	MS2 Joint Compound	White Joint Compound	STOP	POSITIVE		SAMPLE	NOT	ANALYZED	N/A

NVLAP Lab Code 200530-0 for PLM Analysis

ELAP ID No.: 10958

KEY TO NOB COLUMN SYMBOLS

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√ NOB (non-friable organically bound)denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).

√̃ 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).

**** 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 and/or EPA 600/R-93/116 (NVLAP Lab Code 2000530-0),

PLM Date Analyzed: 11/10/2015
Microscope: Olympus BH-2 #232953
Analyst: *T. Bush*

TEM Date Analyzed: 11/12/2015
TEM Analyst: M. Lochner

Laboratory Results Approved By:
Asbestos Operations Manager or Designee Mary Dohr

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PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY FOR PLM/TEM BULK ASBESTOS ANALYSIS

Client: **Bergmann Associates**	Contact: **Jim Marschner/Megan Borruso**	**OFFICE USE ONLY**
Phone Number: **585.232.5135**	Fax Number: **585.232.4652**	Job #: 14916-15
Client Mailing Address: **28 East Main Street**	Results To: **jmarschner@bergmannpc.com**	Turn Around Time: 1 ☐ 2 ☐ 3 ☐ 5 ☒ Other ☐
	Date Sampled: 11/3/15	Material Type/Quantity: Friable ___ NOB ___ TEM ___
200 First Federal Plaza		Page 2 of 4
Rochester, NY 14614	Project Location: **Rome Turney**	Date Logged In: 11/9/15
		Logged In By: JCS
		2 of 5 COC

	Client ID	Lab ID	Sampling Location	Color	Material Size	Type of Material
1	EWJ-011 A, B, C	105477, 478, 479	A02 – ELECTRICAL WIRE JACKET	MULTI		
2	PW-012 A, B	480, 481	A02 – PAPER WALLBOARD	BEIGE		
3	CT-013 A, B, C	482, 483, 484	A02 – CEILING TILE (2x4)	WHITE		
4	CI-014 A, B, C	485, 486, 487	A02 – CEILING INSULATION	WHITE		
5	WG-016 A, B, C	488, 489, 490	A02 – WINDOW GLAZE	OFF-WHITE		
6	VI-015 A, B, C	491, 492, 493	A02 – VERMICULITE CEILING INSULATION	MULTI		
7	WC-017 A, B	494, 495	A02 – WINDOW CAULK	WHITE		
8	CP-018 A, B, C	496, 497, 498	MS2 – WALL PLASTER	WHITE		
9	DWT-019 A, B, C	499, 500, 501	MS2 – DRY WALL TAPE	WHITE		
10	JC-020 A, B, C	502, 503, 504	MS2 – JOINT COMPOUND	WHITE		

Sampled By: Megan E. Borruso	**Date:** 11/3/15
Transported to Paradigm By: Megan E. Borruso	**Date:** 11/6/15
Received By: Kristen Cavanaugh	**Date:** 11/6/15

All samples will be analyzed by the appropriate New York State Department of Health methods (198.1,198.4 and 198.6) unless other methods are requested.

CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS X
or provide TEM contact name: ***Stop first positive each sample set.***

TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY:

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

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

Client: Bergmann Associates **Job No:** 14917-15
Location: Rome Turney

Sample Date: 11/3/2015

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 %
DW-021A	105505	MS2 Drywall	White Drywall	None Detected	0%		Not Required	N/A	Cellulose 2%	98%
DW-021B	105506	MS2 Drywall	White Drywall	None Detected	0%		Not Required	N/A	Cellulose 2%	98%
DW-021C	105507	MS2 Drywall	White Drywall	None Detected	0%		Not Required	N/A	Cellulose 2%	98%
WG-022A	105508	MS2 Window Glaze	Gray Window Glaze	Chrysotile 1.3%	1.3%		Not Required	N/A	None Detected	98.7%
WG-022B	105509	MS2 Window Glaze	Gray Window Glaze	STOP	POSITIVE		SAMPLE	NOT	ANALYZED	N/A
WG-022C	105510	MS2 Window Glaze	Gray Window Glaze	STOP	POSITIVE		SAMPLE	NOT	ANALYZED	N/A
WG-022D	105511	MS2 Window Glaze	Gray Window Glaze	STOP	POSITIVE		SAMPLE	NOT	ANALYZED	N/A
WG-022E	105512	MS2 Window Glaze	Gray Window Glaze	STOP	POSITIVE		SAMPLE	NOT	ANALYZED	N/A
FCI-023A	105513	MS2 Filing Cabinet Insulation	Gray Insulation	None Detected	0%		Not Required	N/A	None Detected	100%
FCI-023B	105514	MS2 Filing Cabinet Insulation	Gray Insulation	None Detected	0%		Not Required	N/A	None Detected	100%

NVLAP Lab Code 200530-0 for PLM Analysis **ELAP ID No.: 10958**

KEY TO NOB COLUMN SYMBOLS
No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).
√ NOB (non-friable organically bound)denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).
V̌ 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.
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PLM Date Analyzed: 11/11/2015 **TEM Date Analyzed:** 11/12/2015
Microscope: Olympus BH-2 #235757 **TEM Analyst:** M. Lochner
Analyst: *B. Weinman*

Laboratory Results Approved By:
Asbestos Operations Manager or Designee Mary Dohr

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PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

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

Client: Bergmann Associates **Job No:** 14917-15
Location: Rome Turney

Sample Date: 11/3/2015

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 %
TS-024A	105515	MS3 Tar Sealant	Black Tar	Chrysotile 5.9%	5.9%	√	Not Required	N/A	None Detected	94.1%
TS-024B	105516	MS3 Tar Sealant	Black Tar	STOP	POSITIVE	√	SAMPLE	NOT	ANALYZED	N/A
FR-025A	105517	MS3 Floor Roofing	Black Roofing	Inconclusive No Asbestos Detected	0%	√	Trace Chrysotile <1.0%	<1.0%	None Detected	100%
FR-025B	105518	MS3 Floor Roofing	Black Roofing	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
TP-026A	105519	MS3 Tar Paper	Black Tar Paper	<1.0% Residue Remaining. PLM and TEM Not Required.	N/A	√	N/A	N/A	N/A	N/A
TP-026B	105520	MS3 Tar Paper	Black Tar Paper	<1.0% Residue Remaining. PLM and TEM Not Required.	N/A	√	N/A	N/A	N/A	N/A
PW-027A	105521	A01 Pipe Wrap	White Fibrous Pipe Wrap	Chrysotile 44%	44%		Not Required	N/A	Cellulose 15%	41%
PW-027B	105522	A01 Pipe Wrap	White Fibrous Pipe Wrap	STOP	POSITIVE	√	SAMPLE	NOT	ANALYZED	N/A
PW-027C	105523	A01 Pipe Wrap	White Fibrous Pipe Wrap	STOP	POSITIVE	√	SAMPLE	NOT	ANALYZED	N/A
WG-028A	105524	A01 Window Glaze	Gray Window Glaze	Chrysotile 29%	29%		Not Required	N/A	None Detected	71%

NVLAP

ELAP ID No.: 10958

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

√ NOB (non-friable organically bound)denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).

V̈ 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).

**** 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 and/or EPA 600/R-93/116 (NVLAP Lab Code 2000530-0),

PLM Date Analyzed: 11/11/2015 **TEM Date Analyzed:** 11/12/2015
Microscope: Olympus BH-2 #235757 **TEM Analyst:** M. Lochner
Analyst: *B. Weinman*

Laboratory Results Approved By:
Asbestos Operations Manager or Designee Mary Dohr

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

Client: Bergmann Associates
Location: Rome Turney

Job No: 14917-15

Sample Date: 11/3/2015

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 %
WG-028B	105525	A01 Window Glaze	Gray Window Glaze	STOP	POSITIVE	√	SAMPLE	NOT	ANALYZED	N/A
WC-029A	105526	A01 Window Caulk	Gray/Silver Window Caulk	Chrysotile 2.4%	2.4%	√	Not Required	N/A	None Detected	97.6%
WC-029B	105527	A01 Window Caulk	Gray/Silver Window Caulk	STOP	POSITIVE	√	SAMPLE	NOT	ANALYZED	N/A
FCI-030A	105528	A01 Filing Cabinet Insulation	Gray Insulation	None Detected	0%		Not Required	N/A	None Detected	100%
FCI-030B	105529	A01 Filing Cabinet Insulation	Gray Insulation	None Detected	0%		Not Required	N/A	None Detected	100%

NVLAP Lab Code 200530-0 for PLM Analysis

ELAP ID No.: 10958

KEY TO NOB COLUMN SYMBOLS

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V̈ 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).

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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 and/or EPA 600/R-93/116 (NVLAP Lab Code 2000530-0),

PLM Date Analyzed: 11/11/2015
Microscope: Olympus BH-2 #235757
Analyst: *B. Weinman*

TEM Date Analyzed: 11/12/2015
TEM Analyst: M. Lochner

Laboratory Results Approved By:
Asbestos Operations Manager or Designee Mary Dohr

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179 Lake Avenue, Rochester, NY 14608 Office: 585-647-2530 Fax: 585-647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY FOR PLM/TEM BULK ASBESTOS ANALYSIS

Client: **Bergmann Associates**	Contact: **Jim Marschner/Megan Borruso**	**OFFICE USE ONLY**
Phone Number: **585.232.5135**	Fax Number: **585.232.4652**	Job #: 14917-15
Client Mailing Address: **28 East Main Street**	Results To: **jmarschner@bergmannpc.com**	Turn Around Time: 1 ☐ 2 ☐ 3 ☐ 5 ☒ Other ☐
	Date Sampled: 11/3/15	Material Type/Quantity: Friable ___ NOB ___ TEM ___
200 First Federal Plaza		Page 3 of 4 (3 of 5)
Rochester, NY 14614	Project Location: **Rome Turney**	Date Logged In: 11/9/15
		Logged In By: KS
		3 of 5 COC

	Client ID	Lab ID	Sampling Location	Color	Material Size	Type of Material
1	DW-021 A,B,C	105505,506,507	MS2 - DRYWALL	OFF-WHITE		
2	WG-022 A,B,C,D,E	QC 508,509,510,511 512	MS2 - WINDOW GLAZE	GRAY		
3	FCI-023 A,B	513,514	MS2 - FILING CABINET INSULATION	GRAY		
4	TS-024 A,B	515,516	MS3 - TAR SEALANT	BLACK		
5	FR-025 A,B	517,518	MS3 - FLOOR ROOFING	BLACK		
6	TP-026 A,B	QC 519,520	MS3 - TAR PAPER	BLACK		
7	PW-027 A,B,C	521,522,523	A01 - PIPE WRAP	WHITE		
8	WG-028 A,B	524,525	A01 - WINDOW GLAZE	GRAY		
9	WC-029 A,B	526,527	A01 - WINDOW CAULK	GRAY		
10	FCI-030 A,B	528,529	A01 - FILING CABINET INSULATION	GRAY		

Sampled By: Megan E. Borruso	**Date:** 11/3/15
Transported to Paradigm By: Megan E. Borruso	**Date:** 11/6/15
Received By: Kristen Cavanaugh	**Date:** 11/6/15

All samples will be analyzed by the appropriate New York State Department of Health methods (198.1,198.4 and 198.6) unless other methods are requested.

CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS X
or provide TEM contact name: *Stop first positive each sample set.*

TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY:

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

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

Client: Bergmann Associates **Job No:** 14918-15
Location: Rome Turney

Sample Date: 11/3/2015

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 %
WG-031A	105506	A01 Window Glaze	Multi-Colored Window Glaze	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	None Detected	100%
WG-031B	105507	A01 Window Glaze	Multi-Colored Window Glaze	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	None Detected	100%
DFC-032A	105508	A01 Door Frame Caulk	Gray Door Frame Caulk	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
DFC-032B	105509	A01 Door Frame Caulk	Gray Door Frame Caulk	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FT-033A	105510	A01 Floor Tile	Gray Floor Tile	Inconclusive No Asbestos Detected	0%	√	Chrysotile 1.9%	1.9%	None Detected	98.1%
FT-033B	105511	A01 Floor Tile	Gray Floor Tile	Inconclusive No Asbestos Detected	0%	√	Chrysotile 1.2%	1.2%	None Detected	98.8%
FTM-034A	105512	A01 Floor Tile Mastic	Tan Floor Tile Mastic	Inconclusive No Asbestos Detected	0%	√	Trace Chrysotile <1.0%	<1.0%	None Detected	100%
FTM-034B	105514	A01 Floor Tile Mastic	Tan Floor Tile Mastic	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
CG-035A	105515	A01 Carpet Glue	Tan Carpet Glue	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
CG-035B	105516	A01 Carpet Glue	Tan Carpet Glue	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%

NVLAP Lab Code 200530-0 for PLM Analysis

ELAP ID No.: 10958

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

√ NOB (non-friable organically bound)denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).

V̌ 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).

**** 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 and/or EPA 600/R-93/116 (NVLAP Lab Code 2000530-0),

PLM Date Analyzed: 11/11/2015 **TEM Date Analyzed:** 11/12/2015
Microscope: Olympus BH-2 #232953 **TEM Analyst:** M. Lochner
Analyst: *T. Bush*

Laboratory Results Approved By:
Asbestos Operations Manager or Designee Mary Dohr

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

Client: Bergmann Associates
Location: Rome Turney

Job No: 14918-15

Sample Date: 11/3/2015

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 %
FGC-036A	105517	A01 Fire Riser Basket Caulk	Gray Fire Riser Basket	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
FGC-036B	105518	A01 Fire Riser Basket Caulk	Gray Fire Riser Basket	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
ORS-037A	105519	AOR Outer Roof Shingle	Red Fibrous Outer Roof Shingle	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	Fiberglass 25%	75%
ORS-037B	105520	AOR Outer Roof Shingle	Brown/Red Fibrous Outer Roof Shingle	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	Fiberglass 20%	80%
RS-038A	105521	AOR Roof Sealant	Black Roof Sealant	STOP	POSITIVE	√	SAMPLE	NOT	ANALYZEDO	N/A
RS-038B	105522	AOR Roof Sealant	Black Roof Sealant	Chrysotile 3.5%	3.5%	√	Not Required	N/A	None Detected	96.5%
IRS-039A	105523	AOR Inner Roof Shingle	Green/Red Inner Roof Shingle	Inconclusive No Asbestos Detected	0%	√	Chrysotile 1.7%	1.7%	None Detected	98.3%
IRS-039B	105524	AOR Inner Roof Shingle	Green/Red Inner Roof Shingle	Inconclusive No Asbestos Detected	0%	√	Trace Chrysotile <1.0%	<1.0%	None Detected	100%
RTP-040A	105525	AOR Roof Tar Paper	Black Tar Paper	STOP	POSITIVE	√	SAMPLE	NOT	ANALYZED	N/A
RTP-040B	105526	AOR Roof Tar Paper	Black Tar Paper	Chrysotile 3.1%	3.1%	√	Not Required	N/A	None Detected	96.9%

NVLAP

ELAP ID No.: 10958

KEY TO NOB COLUMN SYMBOLS

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V̌ 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.

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PLM Date Analyzed: 11/11/2015
Microscope: Olympus BH-2 #232953
Analyst: *T. Bush*

TEM Date Analyzed: 11/12/2015
TEM Analyst: M. Lochner

Laboratory Results Approved By:
Asbestos Operations Manager or Designee Mary Dohr

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PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY FOR PLM/TEM BULK ASBESTOS ANALYSIS

Client: **Bergmann Associates**	Contact: **Jim Marschner/Megan Borruso**	**OFFICE USE ONLY**
Phone Number: **585.232.5135**	Fax Number: **585.232.4652**	Job #: 14918-15
Client Mailing Address: **28 East Main Street**	Results To: **jmarschner@bergmannpc.com**	Turn Around Time: 1 ☐ 2 ☐ 3 ☐ 5 ☒ Other ☐
	Date Sampled: 11/4/15	Material Type/Quantity: Friable ___ NOB ___ TEM ___
200 First Federal Plaza		Page 9 of 16
Rochester, NY 14614	Project Location: **Rome Turney**	Date Logged In: 11/9/15
		Logged In By: KS
		4 of 6 COC

	Client ID	Lab ID	Sampling Location	Color	Material Size	Type of Material
1	WG-031 A, B	505506, 507	A01 - WINDOW GLAZE	MULTI		
2	DFC-032A, B	508, 509	A01 - DOOR FRAME CAULK	GRAY		
3	FT-033A, B	510, 511	A01 - FLOOR TILE	GRAY		
4	FTM-034A, B	512, 513	A01 - FLOOR TILE MASTIC	TAN		
5	CG-035A, B	515, 516 QC	A01 - CARPET GLUE	TAN		
6	FGC-036A, B ~~EXCO~~	517, 518	A01 - FIRE RISER GASKET CAULK	GRAY		
7	ORS-037A, B	519, 520	AOR - OUTER ROOF SHINGLE	RED-BROWN		
8	RS-038A, B	521, 522	AOR - ROOF SEALANT	BLACK		
9	IRS-039 A, B	523, 524	AOR - INNER ROOF SHINGLE	GREEN		
10	RTP-040 A, B	525, 526	AOR - ROOF TAR PAPER	BLACK		

Sampled By: Megan E. Borruso	**Date:** 11/4/15
Transported to Paradigm By: Megan E. Borruso	**Date:** 11/6/15
Received By: Kristen Cavanaugh	**Date:** 11/6/15

All samples will be analyzed by the appropriate New York State Department of Health methods (198.1,198.4 and 198.6) unless other methods are requested.

CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS X

or provide TEM contact name: ***Stop first positive each sample set.***

TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY:

PARADIGM ENVIRONMENTAL SERVICES, INC.

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

Client: Bergmann Associates **Job No:** 14919-15

Location: Rome Turney

Sample Date: 11/4/2015

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 %
JRTP-041A	105527	AOR Inner Roof Tar Paper	Black Fibrous Tar Paper	Inconclusive No Asbestos Detected	0%	√	Trace Chrysotile <1.0%	<1.0%	Fiberglass 20%	80%
JRTP-041B	105528	AOR Inner Roof Tar Paper	Black Tar Paper	Inconclusive Trace Chrysotile Detected	<1.0%	√	Trace Chrysotile <1.0%	<1.0%	Synthetic 3%	97%
RPS-042A	105529	SFOR Roof Penetration Sealant	Black Sealant	Chrysotile 7.0%	7.0%	√	Not Required	N/A	None Detected	93%
RPS-042B	105530	SFOR Roof Penetration Sealant	Black Sealant	STOP	POSITIVE	√	SAMPLE	NOT	ANALYZED	N/A
FS-043A	105531	PSLR Flashing Sealant	Black Sealant	Chrysotile 2.7%	2.7%	√	Not Required	N/A	None Detected	97.3%
FS-043B	105532	PSLR Flashing Sealant	Black Sealant	STOP	POSITIVE	√	SAMPLE	NOT	ANALYZED	N/A
RP-044A	105533	WR Roof Paint	Silver Roof Paint	Inconclusive Trace Chrysotile Detected	<1.0%	√	Trace Chrysotile <1.0%	<1.0%	Fiberglass 5%	95%
RP-044B	105534	WR Roof Paint	Silver Roof Paint	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
RES-045A	105535	PSLR Roof Edge Sealant	Silver Roof Paint	Inconclusive No Asbestos Detected	0%	√	Trace Chrysotile <1.0%	<1.0%	None Detected	100%
RES-045B	105536	PSLR Roof Edge Sealant	Black Sealant	Inconclusive Trace Chrysotile Detected	<1.0%	√	None Detected	<1.0%	None Detected	100%

NVLAP Lab Code 200530-0 for PLM Analysis

ELAP ID No.: 10958

KEY TO NOB COLUMN SYMBOLS

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denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).

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PLM Date Analyzed: 11/11/2015 **TEM Date Analyzed:** 11/12/2015

Microscope: Olympus BH-2 #232953 **TEM Analyst:** M. Lochner

Analyst: *T. Bush*

Laboratory Results Approved By:

Asbestos Operations Manager or Designee Mary Dohr

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

Client: Bergmann Associates
Location: Rome Turney

Job No: 14919-15

Sample Date: 11/4/2015

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 %
SF-046A	105537	PSLR Stucco Finish	Gray Stucco	None Detected	0%		Not Required	N/A	None Detected	100%
SF-046B	105538	PSLR Stucco Finish	Gray Stucco	None Detected	0%		Not Required	N/A	None Detected	100%
PM-047A	105539	SF01 Panel Mastic	Tan Panel Mastic	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
PM-047B	105540	SF01 Panel Mastic	Tan Panel Mastic	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
TB-048A	105541	PS1 Transite Board	Gray Fibrous Transite Board	Chrysotile 36%	36%		Not Required	N/A	None Detected	64%
TB-048B	105542	PS1 Transite Board	Gray Transite Board	STOP	POSITIVE		SAMPLE	NOT	ANALYZED	N/A
WG-049A	105543	W1 Window Glaze	Gray Window Glaze	Inconclusive Trace Chrysotile Detected	<1.0%	√	None Detected	<1.0%	None Detected	100%
WG-049B	105544	W1 Window Glaze	Gray Window Glaze	Inconclusive Trace Chrysotile Detected	<1.0%	√	Chrysotile 4.3%	4.3%	None Detected	95.7%
DC-050A	105545	SR1 Door Caulk	Gray Caulk	Chrysotile 1.4%	1.4%	√	Not Required	N/A	None Detected	98.6%
DC-050B	105546 A	SR1 Door Caulk	Gray Caulk	STOP	POSITIVE	√	SAMPLE	NOT	ANALYZED	N/A

NVLAP Lab Code 200530-0 for PLM Analysis

ELAP ID No.: 10958

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

√ NOB (non-friable organically bound)denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).

V̈ 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).

**** 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 and/or EPA 600/R-93/116 (NVLAP Lab Code 2000530-0),

PLM Date Analyzed: 11/11/2015 **TEM Date Analyzed:** 11/12/2015

Microscope: Olympus BH-2 #232953 **TEM Analyst:** F. Weinman

Analyst: *T. Bush*

Laboratory Results Approved By: _____

Asbestos Operations Manager or Designee Mary Dohr

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179 Lake Avenue, Rochester, NY 14608 Office: 585-647-2530 Fax: 585-647-3311

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY FOR PLM/TEM BULK ASBESTOS ANALYSIS

Client: **Bergmann Associates**	Contact: **Jim Marschner/Megan Borrus**	**OFFICE USE ONLY**
Phone Number: **585.232.5135**	Fax Number: **585.232.4652**	Job #: 14919-15
Client Mailing Address: **28 East Main Street**	Results To: **jmarschner@bergmannpc.com**	Turn Around Time: 1 ☐ 2 ☐ 3 ☐ 5 ☒ Other ☐
	Date Sampled: 11/4/15	Material Type/Quantity: Friable ___ NOB ___ TEM ___
200 First Federal Plaza		Page 5 of 6
Rochester, NY 14614	Project Location: **Rome Turney**	Date Logged In: 11/9/15
		Logged In By: KS
		5 of 6 COC

	Client ID	Lab ID	Sampling Location	Color	Material Size	Type of Material
1	IRTP-041A,B	105527,528	AOR INNER ROOF TAR PAPER	BLACK		
2	RPS-042 A,B	529,530	ROOF PENETRATION SEALANT SFOR	BLACK		
3	FS-043 A,B	QC 531,532	FLASHING SEALANT PSLR	BLACK		
4	RP-044A,B	533,534	ROOF PAINT WR	SILVER		
5	RES-045A,B	535,536	ROOF EDGE SEALANT PSLR	BLACK		
6	SF-046A,B	537,538	STUCCO FINISH PSLR	GRAY		
7	PM-047A,B	539,540	PANEL MASTIC SF01	TAN		
8	TB-048 A,B	541,542	TRANSITE BOARD PS1	GRAY		
9	WG-049 A,B	543,544	WINDOW GLAZE W1	GRAY		
10	DC-050 A,B	545,546A	DOOR CAULK SR1	GRAY		

Sampled By: Megan E. Borruso	**Date:** 11/4/15
Transported to Paradigm By: Megan E. Borruso	**Date:** 11/6/15
Received By: Kristen Cavanaugh	**Date:** 11/6/15

All samples will be analyzed by the appropriate New York State Department of Health methods (198.1,198.4 and 198.6) unless other methods are requested.

CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS X
or provide TEM contact name: ***Stop first positive each sample set.***

TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY:

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

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

Client: Bergmann Associates **Job No:** 14920-15
Location: Rome Turney **Page:** 1 of 2

Sample Date: 11/4/2015

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 %
RT2-051A	105546 B	SR-1 Roof Tar on Wall	Black Fibrous Tar	Chrysotile 14%	14%	√	Not Required	N/A	None Detected	86%
RT2-051B	105547	SR-1 Roof Tar on Wall	Black Tar Paper	STOP	POSITIVE	√	SAMPLE	NOT	ANALYZED	N/A
P-052A	105548	W1 Pipe	Gray Pipe Wrap	Chrysotile 67%	67%		Not Required	N/A	Cellulose 2%	31%
P-052B	105549	W1 Pipe	Gray Pipe Wrap	STOP	POSITIVE	√	SAMPLE	NOT	ANALYZED	N/A
TP-053A	105550	AO1 Tar Paper	Black Sealant	Inconclusive Trace Chrysotile Detected	<1.0%	√	None Detected	<1.0%	None Detected	100%
TP-053B	105551	AO1 Tar Paper	Black Sealant	Inconclusive Trace Chrysotile Detected	<1.0%	√	None Detected	<1.0%	None Detected	100%

NVLAP Lab Code 200530-0 for PLM Analysis

ELAP ID No.: 10958

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

√ NOB (non-friable organically bound)denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM).

V̈ 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).

**** 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 and/or EPA 600/R-93/116 (NVLAP Lab Code 2000530-0),

PLM Date Analyzed: 11/11/2015 **TEM Date Analyzed:** 11/12/2015
Microscope: Olympus BH-2 #232953 **TEM Analyst:** M. Lochner
Analyst: *T. Bush*

Laboratory Results Approved By:
Asbestos Operations Manager or Designee Mary Dohr

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY FOR PLM/TEM BULK ASBESTOS ANALYSIS

Client: **Bergmann Associates**	Contact: **Jim Marschner/Megan Borrus**	**OFFICE USE ONLY**
Phone Number: **585.232.5135**	Fax Number: **585.232.4652**	**Job #:** 14920-15
Client Mailing Address: **28 East Main Street**	Results To: **jmarschner@bergmannpc.com**	Turn Around Time: 1 ☐ 2 ☐ 3 ☐ 5 ☒ Other ☐
	Date Sampled: 11/4/15	Material Type/Quantity: **Friable** ___ **NOB** ___ **TEM** ___
200 First Federal Plaza		**Page** 6 **of** ~~6~~ 6
Rochester, NY 14614	Project Location: **Rome Turney**	**Date Logged In:** 11/9/15
		Logged In By: KS
		6 of 6 COC

	Client ID	Lab ID	Sampling Location	Color	Material Size	Type of Material
1	RT2-051 A,B	10554B,547	SR-1 - ROOF TAR ON WALL	BLACK		
2	P-052 A,B	548,549	W1 - PIPE	GRAY		
3	TP-053A,B	550, 5501 QCR ERS 11/9	A01 - TAR PAPER	BLACK		
4						
5						
6						
7						
8						
9						
#						

Sampled By: Megan E Borruso **Date:** 11/4/15	**All samples will be analyzed by the appropriate New York State Department of Health methods (198.1,198.4 and 198.6) unless other methods are requested.**
Transported to Paradigm By: Megan E. Borruso **Date:** 11/6/15	**CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS or provide TEM contact name:** ***Stop first positive each sample set.*** X
Received By: Kristen Cavanaugh **Date:** 11/6/15	**TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY:**

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

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

Client: Bergmann Associates
Location: Rome Turney

Job No: 14883-15

Sample Date: 11/4/2015

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 %
RC-1	105106	Roof Core #1 Multi Layer	Black Roofing	Inconclusive Trace Chrysotile Detected	<1.0%	√	Trace Chrysotile <1.0%	<1.0%	None Detected	100%
RC-1	105107	Roof Core #1 Multi Layer	Black/Brown Fibrous Roofing	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	Fiberglass 10%	90%
RC-1	105108	Roof Core #1 Multi Layer	Brown Fibrous Roof Insulation	None Detected	0%		Not Required	N/A	Cellulose 75%	25%
RC-5	105109	Roof Core #5 Multi Layer	Black Tar Paper	Inconclusive Trace Chrysotile Detected	<1.0%	√	Trace Chrysotile <1.0%	<1.0%	None Detected	100%
RC-5	105110	Roof Core #5 Multi Layer	Black/Brown Roofing	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
RC-5	105111	Roof Core #5 Multi Layer	Black/Brown Roofing	Chrysotile 1.2%	1.2%	√	Not Required	N/A	None Detected	98.8%
RC-5	105112	Roof Core #5 Multi Layer	Black Roofing	Chrysotile 9.2%	9.2%	√	Not Required	N/A	None Detected	90.8%
RC-6	105113	Roof Core #6 Multi Layer	Black Fibrous Roof Insulation	None Detected	0%		Not Required	N/A	Cellulose 85%	15%
RC-6	105114	Roof Core #6 Multi Layer	Black Roofing	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%
RC-6	105115	Roof Core #6 Multi Layer	Black Tar	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	None Detected	100%

NVLAP Lab Code 200530-0 for PLM Analysis

ELAP ID No.: 10958

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

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V̌ 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).

**** 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 and/or EPA 600/R-93/116 (NVLAP Lab Code 2000530-0),

PLM Date Analyzed: 11/11/2015
Microscope: Olympus BH-2 #232953
Analyst: *T. Bush*

TEM Date Analyzed: 11/12/2015
TEM Analyst: M. Lochner

Laboratory Results Approved By:
Asbestos Operations Manager or Designee Mary Dohr

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PARADIGM ENVIRONMENTAL SERVICES, INC.

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

Client: Bergmann Associates
Location: Rome Turney

Job No: 14883-15

Sample Date: 11/4/2015

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 %
RC-6	105116	Roof Core #6 Multi Layer	Black/Brown Fibrous Roofing	Chrysotile 8.7%	8.7%	√	Not Required	N/A	Fiberglass 15%	76.3%
RC-2	105117	Roof Core #2 Multi Layer	Brown Fibrous Insulation	None Detected	0%		Not Required	N/A	Cellulose 85%	15%
RC-3	105118	Roof Core #3 Multi Layer	Black Roofing	Inconclusive No Asbestos Detected	0%	√	Trace Chrysotile <1.0%	<1.0%	Fiberglass 15%	85%
RC-7	105119	Roof Core #7 Multi Layer	Black Fibrous Roofing	Inconclusive No Asbestos Detected	0%	√	None Detected	<1.0%	Fiberglass 15%	85%
RC-7	105120	Roof Core #7 Multi Layer	Black Roofing	Inconclusive No Asbestos Detected	0%	√	Trace Chrysotile <1.0%	<1.0%	Fiberglass 6%	94%
RC-7	105121	Roof Core #7 Multi Layer	Brown Fibrous Insulation	None Detected	0%		Not Required	N/A	Cellulose 80%	20%

NVLAP Lab Code 200530-0 for PLM Analysis

ELAP ID No.: 10958

KEY TO NOB COLUMN SYMBOLS
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**** 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.**

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PLM Date Analyzed: 11/11/2015
TEM Date Analyzed: 11/12/2015
Microscope: Olympus BH-2 #232953
TEM Analyst: M. Lochner
Analyst: *T. Bush*

Laboratory Results Approved By: _____
Asbestos Operations Manager or Designee Mary Dohr

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PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY FOR PLM/TEM BULK ASBESTOS ANALYSIS

Client: Bergmann Associates	Contact: Jim Marschner/Megan Borrus	OFFICE USE ONLY
Phone Number: 585.232.5135	Fax Number: 585.232.4652	Job #: 1483-15
Client Mailing Address: 28 East Main Street	Results To: jmarschner@bergmannpc.com	Page 2 of 3
	Turn Around Time: 1 ☐ 2 ☐ 3 ☐ 5 ☒ Other ☐	Date Logged In: 11/7/15
200 First Federal Plaza	Date Sampled: 11/4/2015	Logged In By: MHL 11/6/15
	Material Type/Quantity: Friable ___ NOB ___ TEM ___	
Rochester, NY 14614	Project Location: Rome Turney	

	Client ID	Lab ID	Sampling Location	Color	Material Size	Type of Material
1	RC-1	105106, 107, 108, 109 (TO SEM ONLY)	ROOF CORE #1 MULTI LAYER	BLACK/BROWN		
2	RC-5	105110, 111, 112, 113 (105110 TO SEM ONLY)	ROOF CORE #5	↓		
3	RC-6	105114, 115, 116, 117 (105111 TO SEM ONLY)	ROOF CORE #6	↓		
4	RC-2	105118	ROOF CORE #2	BLACK		
5	RC-3	105119	ROOF CORE #3	BLACK		
6	RC-7	105120, 121	ROOF CORE #7	BLACK/BROWN		
7						
8			(LAB SEPERATE LAYERS)			
9						
#						

Sampled By: Megan E. Borruso	Date: 11/4/15
Transported to Paradigm By: Megan E. Borruso	Date: 11/6/15
Received By: Kristen Cavanaugh	Date: 11/6/15

All samples will be analyzed by the appropriate New York State Department of Health methods (198.1,198.4 and 198.6) unless other methods are requested.

CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS X

or provide TEM contact name: *Stop first positive each sample set.*

TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY: