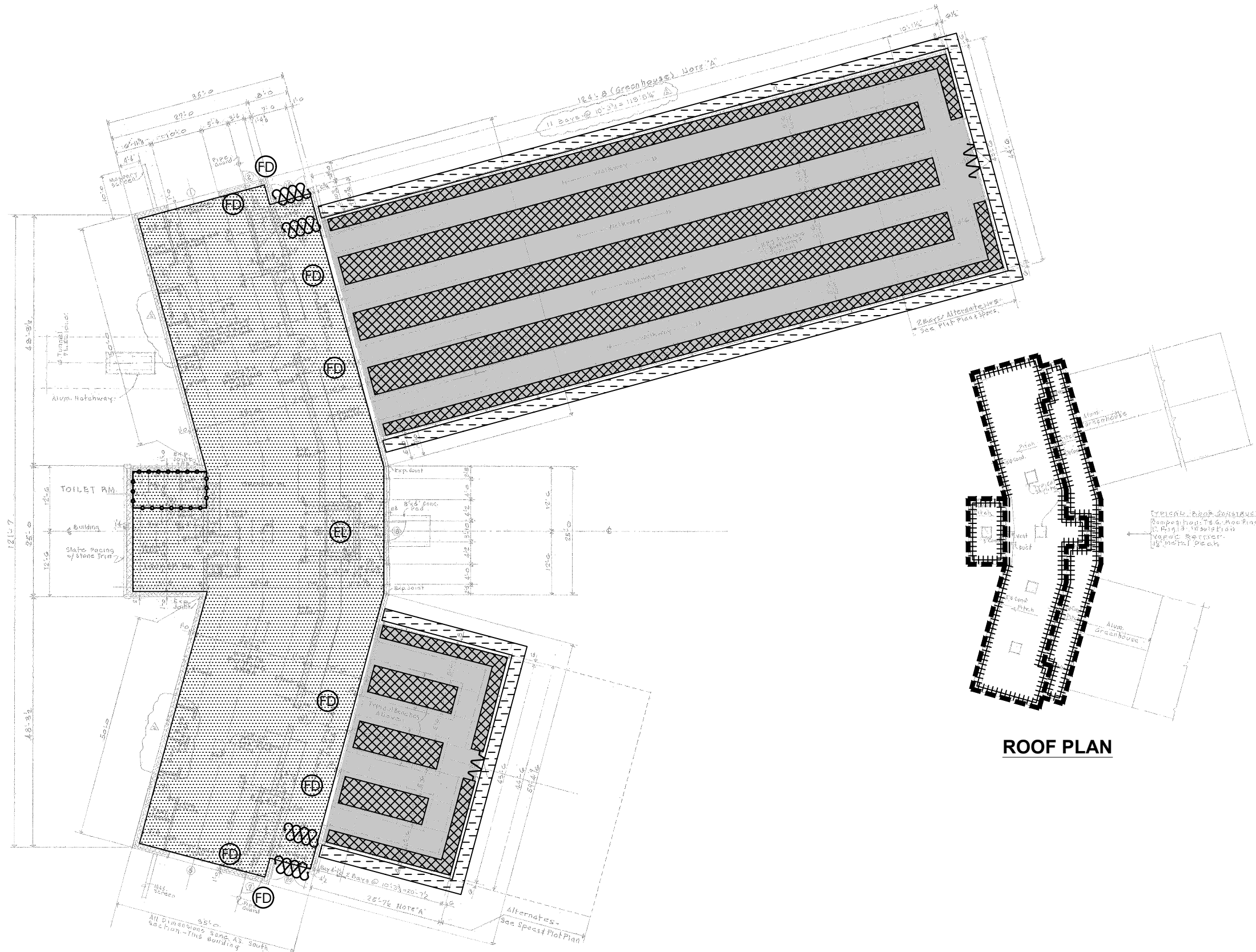




**APPENDIX F:
Hazardous Materials Location Drawings**



GROUND FLOOR PLAN

ROOF PLAN

LEGEND

ASBESTOS CONTAINING MATERIAL:

- CAULK, GRAY, DOUBLE DOORS (10 SF)
- CAULK, GRAY, BETWEEN GLASS AND CONCRETE (5 SF)
- CAULK, GRAY, AROUND MAN DOOR (3 SF)
- CAULK, GRAY, AROUND GLASS, UNDER METAL TRIM AND ASSOCIATED GLAZING (150 SF)
- TABLE TOP SURFACES (3,500 SF)
- MUD ELBOWS, JOINTS, AND HANGER FITTINGS (100 SF)
- SILVER SEAL AT ROOF FLASHING, SILVER (670 SF)
- CAULK, BLACK, PARAPET WALL PERIMETER (10 SF)
- FIRE DOOR (ASSUMED) (10 EACH)
- ELEVATOR BRAKES (ASSUMED) (1 PAIR)
- WATERPROOFING MEMBRANE (ASSUMED) (120 SF)



WARNING
 IT IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, OTHER THAN THOSE WHOSE SEAL APPEARS ON THIS DRAWING, TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NO.	DATE	DESCRIPTION
REVISIONS		



LiRo Engineers, Inc.
 890 Delaware Ave.
 Buffalo, New York

PROJ. ENG.:

DESIGNED BY:

CHECKED BY:

DRAWN BY:

CLIENT:



DATE:

APRIL 2024

SCALE:

AS SHOWN

JOB TITLE AND LOCATION:

BUFFALO & ERIE COUNTY BOTANICAL GARDENS
 GROW HOUSE

DRAWING TITLE:

ASBESTOS CONTAINING MATERIALS LOCATION PLAN
 GROUND FLOOR AND ROOF PLAN

LIRO JOB NO.:

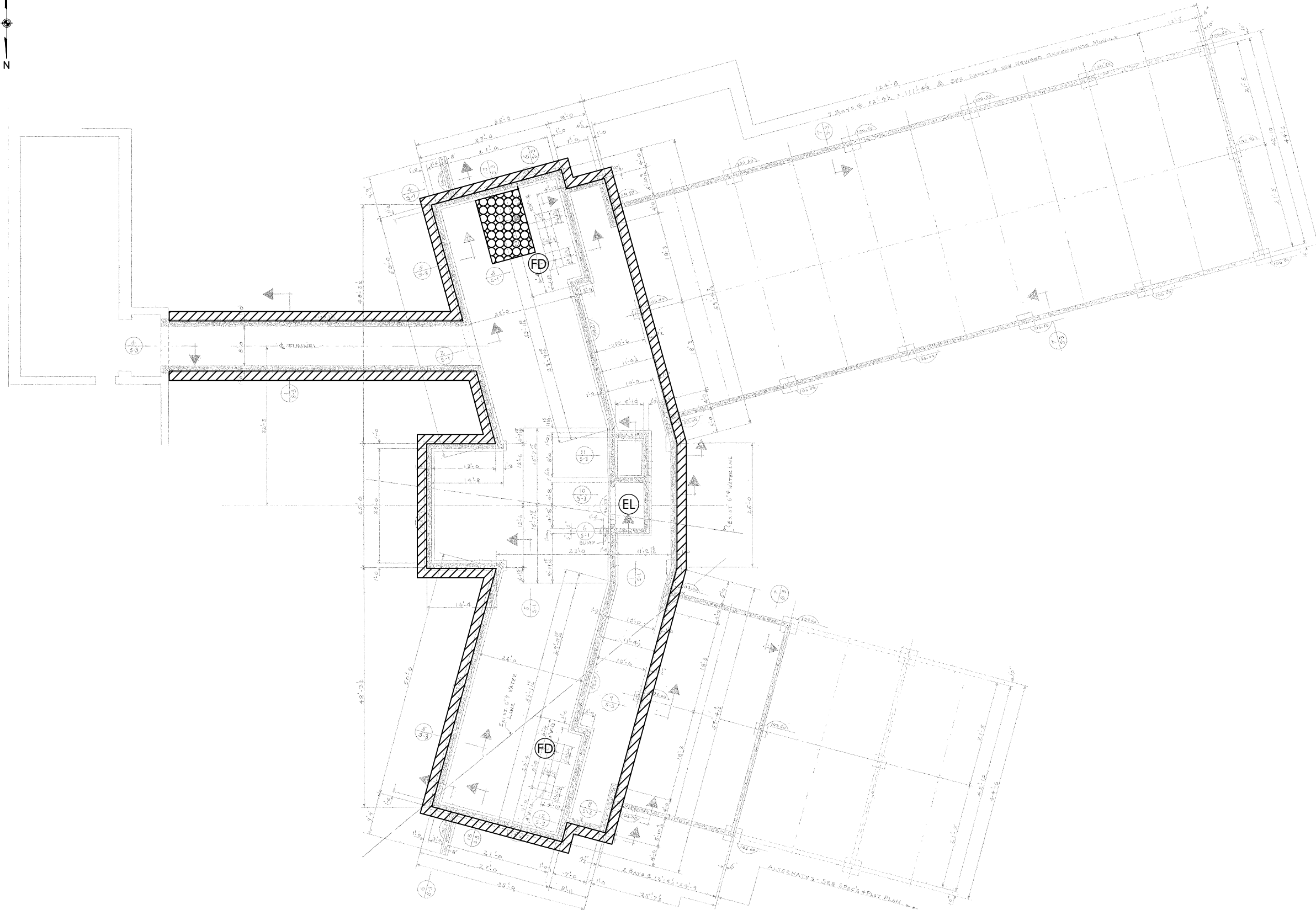
22-095-0127

SHEET OF

1 2

DRAWING NO.

ACM-1

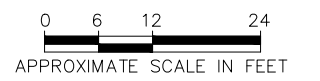


LEGEND

ASBESTOS CONTAINING MATERIAL:

- MOISTURE BARRIER TAR ON FOUNDATION, BLACK (3,700 SF)
- FIRE DOOR (ASSUMED) (10 EACH)
- 12x12 FLOOR TILE, GRAY (100 SF)
- ELEVATOR BRAKES (ASSUMED) (1 PAIR)

FOUNDATION PLAN



V:\Erie County\23-191-0134 - ECDPH-Foil Botanical Gardens\Design\ACM\BOTANICAL GARDENS ACM.dwg 4/29/2024 10:19 AM

WARNING
 IT IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, OTHER THAN THOSE WHOSE SEAL APPEARS ON THIS DRAWING, TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NO.	DATE	DESCRIPTION
REVISIONS		



LiRo Engineers, Inc.
 890 Delaware Ave.
 Buffalo, New York

PROJ. ENG.:	CLIENT:	
DESIGNED BY:	FoitAlbert ASSOCIATES Architecture. Engineering. Surveying. Environmental. <small>385 Main Street, Suite 200 / Buffalo, New York 14203 / 716.856.9933 / www.foit-albert.com</small>	
CHECKED BY:		
DRAWN BY:	DATE:	SCALE:
A.M.K.	APRIL 2024	AS SHOWN

JOB TITLE AND LOCATION:	LIRO JOB NO.:
BUFFALO & ERIE COUNTY BOTANICAL GARDENS GROW HOUSE	22-095-0127
DRAWING TITLE:	SHEET OF
ASBESTOS CONTAINING MATERIALS LOCATION PLAN FOUNDATION PLAN	2 OF 2
	DRAWING NO.
	ACM-2



**APPENDIX G:
Certifications and Accreditations**

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



SARAH A NORTHAN

CLASS(EXPIRES)

C ATEC(06/24) D INSP(06/24)

H PM (06/24)

CERT# 20-17407

DMV# 677814216

MUST BE CARRIED ON ASBESTOS PROJECTS



01213 006775847 48

EYES HAZ

HAIR BRO

HGT 5' 03"

IF FOUND RETURN TO:

NYS DOL - L&C UNIT

ROOM 161A BUILDING 12

STATE OFFICE CAMPUS

ALBANY NY 12240

United States Environmental Protection Agency

This is to certify that



Sarah A Northan

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires March 11, 2027

LBP-R-I219512-1

Certification #

February 25, 2024

Issued On



A handwritten signature in black ink that reads "Ben Conetta".

Ben Conetta, Chief

Chemicals and Multimedia Programs Branch



IF FOUND, RETURN TO:
NYS DOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12226

01213 007019917 94

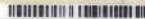
STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



RAYMOND J CICH
CLASS(EXPIRES)
C ATEC (08/24) D INSP (08/24)
H PM (08/24)

CERT# 23-6L6T3-SHAB
DMV# 986739677

MUST BE CARRIED ON ASBESTOS PROJECTS



United States Environmental Protection Agency

This is to certify that



Raymond J Cich Jr.

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

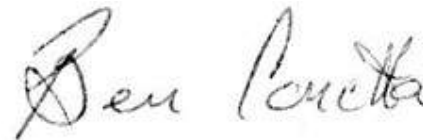
This certification is valid from the date of issuance and expires February 22, 2026

LBP-R-I211348-2

Certification #

October 26, 2022

Issued On

A handwritten signature in black ink that reads "Ben Conetta".

Ben Conetta, Chief

Chemicals and Multimedia Programs Branch

WE ARE YOUR DOL



**Department
of Labor**

DIVISION OF SAFETY & HEALTH LICENSE AND CERTIFICATE UNIT, STATE OFFICE CAMPUS, BLDG. 12, ALBANY, NY 12226

ASBESTOS HANDLING LICENSE

LiRo Engineers, Inc.

690 Delaware Avenue, Buffalo, NY, 14209

License Number: 28866

License Class: RESTRICTED

Date of Issue: 11/15/2023

Expiration Date: 12/31/2024

Duly Authorized Representative: Robert Kreuzer

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

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

A handwritten signature in black ink, appearing to read "Amy Phillips".

Amy Phillips, Director
For the Commissioner of Labor

EXCELSIOR



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Laboratory ID: LAP-100194

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

<input checked="" type="checkbox"/>	INDUSTRIAL HYGIENE	Accreditation Expires: January 01, 2025
<input checked="" type="checkbox"/>	ENVIRONMENTAL LEAD	Accreditation Expires: January 01, 2025
<input checked="" type="checkbox"/>	ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires: January 01, 2025
<input type="checkbox"/>	FOOD	Accreditation Expires:
<input type="checkbox"/>	UNIQUE SCOPES	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

A handwritten signature in cursive script that reads 'Cheryl O. Morton'.

Cheryl O Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC



AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Laboratory ID: LAP-100194

Issue Date: 01/01/2023

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

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

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 01/18/1995

Component, parameter or characteristic tested	Technology sub-type/Detector	Method	Method Description <i>(for internal methods only)</i>
Airborne Dust	AA	NIOSH 7082	N/A
Composited Wipes	AA	EPA SW-846 3050B	N/A
		EPA SW-846 7000B	N/A
Paint	AA	EPA SW-846 3050B	N/A
		EPA SW-846 7000B	N/A
Settled Dust by Wipe	AA	EPA SW-846 3050B	N/A
		EPA SW-846 7000B	N/A
Soil	AA	EPA SW-846 3050B	N/A
		EPA SW-846 7000B	N/A

A complete listing of currently accredited ELLAP laboratories is available on the AIHA LAP, LLC website at: <http://www.aihaaccreditedlabs.org>



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Laboratory ID: LAP-100194

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

<input checked="" type="checkbox"/>	INDUSTRIAL HYGIENE	Accreditation Expires: January 01, 2025
<input checked="" type="checkbox"/>	ENVIRONMENTAL LEAD	Accreditation Expires: January 01, 2025
<input checked="" type="checkbox"/>	ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires: January 01, 2025
<input type="checkbox"/>	FOOD	Accreditation Expires:
<input type="checkbox"/>	UNIQUE SCOPES	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

A handwritten signature in cursive script that reads 'Cheryl O. Morton'.

Cheryl O Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC



AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Laboratory ID: LAP-100194

Issue Date: 01/01/2023

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: 02/01/1989

IHLAP Scope Category	Field of Testing (FOT)	Technology sub-type/Detector	Published Reference Method/Title of In-house Method	Component, parameter or characteristic tested
Asbestos/Fiber Microscopy Core	Phase Contrast Microscopy (PCM)	-	NIOSH 7400	Asbestos/Fibers
Asbestos/Fiber Microscopy Core	Polarized Light Microscopy (PLM)	-	EPA 600/R-93/116	Asbestos & Other Fibers in Bulk
Asbestos/Fiber Microscopy Core	Transmission Electron Microscopy (TEM)	-	EPA AHERA - 40 CFR Part 763	Asbestos
Asbestos/Fiber Microscopy Core	Transmission Electron Microscopy (TEM)	-	NIOSH 7402	Asbestos/Fibers
Chromatography Core	GC/MS	-	EPA TO-15	Volatile Organic Compounds
Chromatography Core	Gas Chromatography	GC/ECD	NIOSH 5502 Modified	Aldrin & Lindane
Chromatography Core	Gas Chromatography	GC/ECD	NIOSH 5503 Modified	Polychlorinated biphenyls
Chromatography Core	Gas Chromatography	GC/ECD	NIOSH 5510 Modified	Chlordane
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 1003 Modified	Halogenated Hydrocarbons
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 1005 Modified	Methylene Chloride
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 1400 Modified	Alcohols
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 1500 Modified	Hydrocarbons
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 1501 Modified	Aromatic Hydrocarbons
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 1550 Modified	Total Petroleum Hydrocarbons
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 1603 Modified	Acetic Acid
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 2000 Modified	Methyl Alcohol
Chromatography Core	Gas Chromatography (Diffusive Samplers)	-	NIOSH 1501	Aromatic Hydrocarbons

Effective: 06/07/2022

Revision: 9.2

Page 1 of 2



IHLAP Scope Category	Field of Testing (FOT)	Technology sub-type/Detector	Published Reference Method/Title of In-house Method	Component, parameter or characteristic tested
Chromatography Core	Ion Chromatography (IC)	-	NIOSH 6004 Modified	Sulfur Dioxide/Sulfate
Chromatography Core	Ion Chromatography (IC)	-	NIOSH 6011	Chlorine & Bromine
Chromatography Core	Ion Chromatography (IC)	-	NIOSH 7903	Inorganic Acids
Chromatography Core	Ion Chromatography (IC)	-	OSHA ID-214	Ozone
Chromatography Core	Ion Chromatography (IC)	-	OSHA ID-215 (Version 2) Modified	Hexavalent Chromium
Chromatography Core	Liquid Chromatography	HPLC/FL	NIOSH 2016	Formaldehyde
Chromatography Core	Liquid Chromatography	HPLC/UV	NIOSH 5506 Modified	Polynuclear Aromatic Hydrocarbons (PAHs)
Chromatography Core	Liquid Chromatography	LC/MS	NIOSH 9111 Modified	Methamphetamines
Miscellaneous Core	Gravimetric	-	NIOSH 0500	Total Dust
Miscellaneous Core	Gravimetric	-	NIOSH 0600	Respirable Dust
Miscellaneous Core	Gravimetric	-	NIOSH 5524	Metal Working Fluids
Miscellaneous Core	Thermo-optical Analysis (TOA)	-	NIOSH 5040	Elemental Carbon
Spectrometry Core	Atomic Absorption	CVAA	NIOSH 6009 Modified	Mercury
Spectrometry Core	Atomic Absorption	CVAA	OSHA ID-140 Modified	Mercury vapor
Spectrometry Core	Atomic Absorption	CVAA	OSHA ID-145	Mercury particulate
Spectrometry Core	Atomic Absorption	FAA	NIOSH 7082	Lead
Spectrometry Core	Inductively-Coupled Plasma	ICP/AES	NIOSH 7300 Modified	Lead
Spectrometry Core	Inductively-Coupled Plasma	ICP/MS	NIOSH 7300 Modified	Lead
Spectrometry Core	UV/VIS (Colorimetric)	-	NIOSH 6010	Hydrogen Cyanide
Spectrometry Core	X-ray Diffraction (XRD)	-	NIOSH 7500	Silica
Spectrometry Core	X-ray Diffraction (XRD)	-	OSHA ID-142	Silica

A complete listing of currently accredited IHLAP laboratories is available on the AIHA LAP, LLC website at: <http://www.aihaaccreditedlabs.org>

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2024
Issued April 01, 2023
Revised April 26, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

*MS. RHONDA R. MCGEE
EMSL ANALYTICAL INC
490 ROWLEY ROAD
DEPEW, NY 14043*

NY Lab Id No: 11606

*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

Serial No.: 67800

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at <https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/>, by phone (518) 485-5570 or by email to elap@health.ny.gov.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2024
Issued April 01, 2023
Revised July 25, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. OWEN MCKENNA
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

*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
Asbestos-Vermiculite-Containing Mate	Item 198.8 of Manual
Lead in Dust Wipes	EPA 7000B
Lead in Paint	EPA 7000B

Sample Preparation Methods

EPA 3050B
EPA 3051A

Serial No.: 67932

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at <https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/>, by phone (518) 485-5570 or by email to elap@health.ny.gov.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2024
Issued April 01, 2023
Revised January 05, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. OWEN MCKENNA
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Acrylates

Acrolein (Propenal)	EPA 8260D
Acrylonitrile	EPA 8260D

Characteristic Testing

Corrosivity (pH)	EPA 9045D
Free Liquids	EPA 9095B
Synthetic Precipitation Leaching Proc.	EPA 1312
TCLP	EPA 1311

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D
Hexachloroethane	EPA 8260D

Metals I

Barium, Total	EPA 6010D
Cadmium, Total	EPA 6010D
Calcium, Total	EPA 6010D
Chromium, Total	EPA 6010D
Copper, Total	EPA 6010D
Iron, Total	EPA 6010D
Lead, Total	EPA 6010D EPA 7000B
Magnesium, Total	EPA 6010D
Manganese, Total	EPA 6010D
Nickel, Total	EPA 6010D
Potassium, Total	EPA 6010D
Silver, Total	EPA 6010D
Sodium, Total	EPA 6010D
Strontium, Total	EPA 6010D

Serial No.: 68188

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at <https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/>, by phone (518) 485-5570 or by email to elap@health.ny.gov.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2024
Issued April 01, 2023
Revised January 05, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. OWEN MCKENNA
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Metals II

Aluminum, Total	EPA 6010D
Antimony, Total	EPA 6010D
Arsenic, Total	EPA 6010D
Beryllium, Total	EPA 6010D
Lithium, Total	EPA 6010D
Mercury, Total	EPA 7471B
Selenium, Total	EPA 6010D
Vanadium, Total	EPA 6010D
Zinc, Total	EPA 6010D

Metals III

Cobalt, Total	EPA 6010D
Molybdenum, Total	EPA 6010D
Thallium, Total	EPA 6010D
Tin, Total	EPA 6010D
Titanium, Total	EPA 6010D

Minerals

Bromide	EPA 9056A
Chloride	EPA 9056A
Fluoride, Total	EPA 9056A
Sulfate (as SO4)	EPA 9056A

Miscellaneous

Boron, Total	EPA 6010D
	EPA 6020B

Nutrients

Nitrate (as N)	EPA 9056A
Nitrite (as N)	EPA 9056A

Serial No.: 68188

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2024
Issued April 01, 2023
Revised January 05, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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MR. OWEN MCKENNA
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Nutrients

Orthophosphate (as P) EPA 9056A

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016) EPA 8082A
Aroclor 1221 (PCB-1221) EPA 8082A
Aroclor 1232 (PCB-1232) EPA 8082A
Aroclor 1242 (PCB-1242) EPA 8082A
Aroclor 1248 (PCB-1248) EPA 8082A
Aroclor 1254 (PCB-1254) EPA 8082A
Aroclor 1260 (PCB-1260) EPA 8082A
Aroclor 1262 (PCB-1262) EPA 8082A
Aroclor 1268 (PCB-1268) EPA 8082A

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile EPA 8260D
1,2,4-Trimethylbenzene EPA 8260D
1,2-Dichlorobenzene EPA 8260D
1,3,5-Trimethylbenzene EPA 8260D
1,3-Dichlorobenzene EPA 8260D
1,4-Dichlorobenzene EPA 8260D
2-Chlorotoluene EPA 8260D
4-Chlorotoluene EPA 8260D
Benzene EPA 8260D
Bromobenzene EPA 8260D
Chlorobenzene EPA 8260D
Ethyl benzene EPA 8260D
Isopropylbenzene EPA 8260D
m/p-Xylenes EPA 8260D

Serial No.: 68188

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at <https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/>, by phone (518) 485-5570 or by email to elap@health.ny.gov.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2024
Issued April 01, 2023
Revised January 05, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. OWEN MCKENNA
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Volatile Aromatics

Naphthalene, Volatile	EPA 8260D
n-Butylbenzene	EPA 8260D
n-Propylbenzene	EPA 8260D
o-Xylene	EPA 8260D
p-Isopropyltoluene (P-Cymene)	EPA 8260D
sec-Butylbenzene	EPA 8260D
Styrene	EPA 8260D
tert-Butylbenzene	EPA 8260D
Toluene	EPA 8260D
Total Xylenes	EPA 8260D

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260D
1,1,1-Trichloroethane	EPA 8260D
1,1,2,2-Tetrachloroethane	EPA 8260D
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
1,1,2-Trichloroethane	EPA 8260D
1,1-Dichloroethane	EPA 8260D
1,1-Dichloroethene	EPA 8260D
1,1-Dichloropropene	EPA 8260D
1,2,3-Trichloropropane	EPA 8260D
1,2-Dibromo-3-chloropropane	EPA 8260D
1,2-Dibromoethane	EPA 8260D
1,2-Dichloroethane	EPA 8260D
1,2-Dichloropropane	EPA 8260D
1,3-Dichloropropane	EPA 8260D
2,2-Dichloropropane	EPA 8260D
2-Chloroethylvinyl ether	EPA 8260D

Serial No.: 68188

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at <https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/>, by phone (518) 485-5570 or by email to elap@health.ny.gov.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

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Volatile Halocarbons

Bromochloromethane	EPA 8260D
Bromodichloromethane	EPA 8260D
Bromoform	EPA 8260D
Bromomethane	EPA 8260D
Carbon tetrachloride	EPA 8260D
Chloroethane	EPA 8260D
Chloroform	EPA 8260D
Chloromethane	EPA 8260D
cis-1,2-Dichloroethene	EPA 8260D
cis-1,3-Dichloropropene	EPA 8260D
Dibromochloromethane	EPA 8260D
Dibromomethane	EPA 8260D
Dichlorodifluoromethane	EPA 8260D
Hexachlorobutadiene, Volatile	EPA 8260D
Methyl iodide	EPA 8260D
Methylene chloride	EPA 8260D
Tetrachloroethene	EPA 8260D
trans-1,2-Dichloroethene	EPA 8260D
trans-1,3-Dichloropropene	EPA 8260D
trans-1,4-Dichloro-2-butene	EPA 8260D
Trichloroethene	EPA 8260D
Trichlorofluoromethane	EPA 8260D
Vinyl chloride	EPA 8260D

Volatile Organics

2-Butanone (Methylethyl ketone)	EPA 8260D
2-Hexanone	EPA 8260D
4-Methyl-2-Pentanone	EPA 8260D

Serial No.: 68188

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WADSWORTH CENTER

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MR. OWEN MCKENNA
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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Volatile Organics

Acetone	EPA 8260D
Acetonitrile	EPA 8260D
Carbon Disulfide	EPA 8260D
Ethylene Glycol	EPA 8015C
Methyl acetate	EPA 8260D
Methyl tert-butyl ether	EPA 8260D
tert-butyl alcohol	EPA 8260D
Vinyl acetate	EPA 8260D

Sample Preparation Methods

EPA 5035A-L
EPA 5035A-H
EPA 9030B
EPA 3010A
EPA 3005A
EPA 3050B
EPA 3550C
EPA 3540C
EPA 3546
EPA 3585
EPA 3060A
EPA 3541
EPA 9010C

Serial No.: 68188

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United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200056-0

EMSL Analytical, Inc.
Depew, NY

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

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2023-07-01 through 2024-06-30

Effective Dates



A handwritten signature in blue ink, reading 'Dana S. Laman', positioned above a horizontal line.

For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EMSL Analytical, Inc.

490 Rowley Road

Depew, NY 14043

Ms. Rhonda McGee

Phone: (716) 651-0030 Fax: (716) 651-0394

Email: rmcgee@emsl.com

<http://www.emsl.com/>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200056-0

Bulk Asbestos Analysis

Code

Description

18/A01

EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

18/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

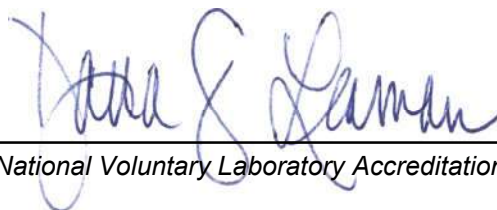
Airborne Asbestos Analysis

Code

Description

18/A02

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



For the National Voluntary Laboratory Accreditation Program



**APPENDIX H:
Photographic Log**

Photographic Log:



Caulk around Double doors, White – Asbestos Containing Material



Caulk, Gray, Greenhouse 1 and 2, between Glass and Concrete –Asbestos Containing Material



Caulking for Glass, Under Metal Trim - Asbestos Containing Material



Tabletop Surface Slabs - Asbestos Containing Material



**Mudded Joint Fitting associated with 504 -
Asbestos Containing Material**





**12x12" Floor Tile, Gray –
Asbestos Containing Material**




**Silver Seal, Silver - Asbestos Containing
Material**



**Silver Seal, Silver - Asbestos Containing
Material**

	
<p>Caulk, Parapet Wall, Black,- Asbestos Containing Material</p>	<p>Caulk, Expansion Joint Non-Asbestos Containing Material</p>

	
<p>Waterproof Membrane under ceramic floor tile, Assumed Asbestos Containing Material</p>	<p>2x4 Ceiling Tile, Non-Asbestos Containing Material</p>



23 Mechanic Street
Springville, NY 14141

295 Main Street
West Seneca, NY 14224

encorus.com
716.592.3980

September 18, 2024

Mark Mortenson
Buffalo and Erie County Botanical Gardens
2655 South Park Avenue
Buffalo, New York 14218

**Re: Pre-Renovation Asbestos-Containing Materials, Lead-Based Paint, and Exterior PCB-Containing Materials Inspection Report
Buffalo and Erie County Botanical Gardens Addition
2655 South Park Avenue
Buffalo, New York 14218
Project Number: 605802
EG# 24515**

Dear Mark Mortenson:

Enclosed please find a copy of the Asbestos-Containing Materials, Lead-Based Paint and Exterior PCB-Containing Materials Inspection Report for the Buffalo and Erie County Botanical Gardens Addition project located at 2655 South Park Avenue in Buffalo, New York. Should you have any questions please do not hesitate to contact our office at 716.592.3980. Thank you for the opportunity to be of service to Buffalo and Erie County Botanical Gardens.

Sincerely,

A handwritten signature in black ink that reads "Brian Jones".

Brian Jones
Senior Project Manager

Enclosures

**Pre-Renovation
Asbestos-Containing Materials,
Lead-Based Paint and
Exterior PCB-Containing Materials
Inspection Report**

OF THE:

**Buffalo and Erie County Botanical Gardens Addition
2655 South Park Avenue
Buffalo, New York 14218
Project Number: 605802
EG#24515**

PREPARED BY:



PREPARED FOR:

**Buffalo and Erie County Botanical Gardens
2655 South Park Avenue
Buffalo, New York 14218**

CONDITIONS AS OF:

September 11, 2024

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2 Asbestos-Containing Materials Inspection

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2.2 Executive Summary

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2.6 Summary Table of Asbestos-Containing Materials

3 Lead-Based Paint Inspection

4 PCB Inspection

Appendices

- A. General Conditions of Inspection
- B. Certifications and Licenses
- C. Chains of Custody and Laboratory Reports
- D. Sample Floor Plans
- E. Summary of Inspected Functional Spaces
- F. Historic Project Data

1 Introduction

Encorus Group Engineering, P.C. (Encorus Group) was retained by Mark Mortenson to perform an inspection of Buffalo and Erie County Botanical Gardens located at 2655 South Park Avenue in Buffalo, New York to determine the presence of asbestos-containing materials, lead-based painted/coated materials and exterior PCB-containing caulks, glazing and sealants prior to work associated with the Buffalo and Erie County Botanical Gardens Addition project.

The inspection was conducted on September 9, 10, and 11, 2024.

The scope of inspection work provided is as indicated in the proposal for Inspection Services dated September 5, 2024 and includes the following:

- The purpose of Encorus Group's work was to confirm field conditions as laid out in the historic pre-renovation report: "Asbestos Containing Materials and Hazardous Materials Inspection" prepared by LiRo Engineers, Inc. on April 26, 2024 (see appendix F). Encorus Group did a walkthrough of the original scope to confirm material presence and perform additional sampling of suspect materials as necessary.

Encorus Group's scope of inspection work was altered from the original scope per the following direction from client:

- Testing for Lead-based paint via X-Ray Florescence (XRF) and sampling of exterior caulks, glazing and sealants for PCB-containing materials was not performed. See the historic data contained in appendix F for these results.

Encorus Group was charged with conducting the following tasks for this project:

1. Conducting an asbestos inspection in accordance with all applicable regulations and,
2. Providing a summary report of findings.

This report is generated for the exclusive use of the client and is not designed to serve as a specification for abatement. The owner is strongly encouraged to contract with a consultant having a current Asbestos Project Designer Certificate as issued by New York State Department of Labor for the preparation of contract specifications, work plans, and/or drawings prior to requesting bids for the abatement or removal of the materials identified in this report.

2 Asbestos-Containing Materials Inspection

2.1 Methodology

All asbestos inspection work performed by Encorus Group was conducted in accordance with applicable regulations including New York State Department of Labor standards 12 NYCRR Part 56, National Emission Standards for Hazardous Air Pollutants (NESHAPS), the Asbestos Hazard Emergency Response Act, and Occupational Safety and Health Administration regulations. All Encorus Group's personnel assigned to conduct inspections have completed the Environmental Protection Agency (EPA) required training and New York State Department of Labor Division of Safety and Health certification program.

Based on the functional spaces and homogeneous areas (materials uniform in color or texture) identified by Encorus Group, samples of suspect materials were collected. Techniques used for sample collection were designed to minimize damage to suspected areas, reduce any potential for fiber release, and ensure the safety of the inspector and building occupants.

Samples were analyzed using Polarized Light Microscopy (PLM) in accordance with NYS DOH ELAP Item #198.1 or #198.6. For materials classified as non-friable organically bound materials (NOBs) that were analyzed as equal to or less than 1% asbestos by PLM, additional analysis was performed under Transmission Electron Microscopy (TEM) in accordance with NYS DOH ELAP Item #198.4. The results of this analysis confirmed whether or not a suspect material actually contained asbestos. The confirmed materials and all assumed materials are listed in **Section 2.3 Confirmed Asbestos-Containing Materials and Section 2.4 Assumed Asbestos-Containing Suspect Materials**.

Although the report is a comprehensive analysis of the asbestos inspection work performed, it would be helpful to review all applicable federal, state and local rules, laws and regulations regarding the handling and treatment of asbestos-containing materials (ACM). The following is a list of suggested reading and information sources relating to asbestos:

- New York State Department of Labor Industrial Code Rule 56
- Occupational Safety and Health Administration
- Environmental Protection Agency Rule CFR 763.86 Asbestos Hazard Emergency Response Act
- Environmental Protection Agency Rule 40 CFR, Chapter 61, Subpart M of the National Emission Standards for Hazardous Air Pollutants (NESHAPS)

2.2 Executive Summary

The asbestos inspection included identification, sampling, analysis, and quantification of suspect materials that may be disturbed by the project. By definition an Asbestos-Containing Material (ACM) is any material which contains greater than one percent (>1%) asbestos. Materials which contain asbestos in measurable concentrations less than or equal to one percent ($\leq 1\%$) are reported as containing "trace" amounts.

Copies of all laboratory analysis reports and chains of custody listing locations of sample collection are located in Appendix C. Refer to floor plans located in Appendix E for specific sample location points. Refer to Appendix F for a summary of all functional spaces which were included as part of this inspection service. For explanation of inspection notes, refer to Section 2.7 for note details and specific comments.

2.3 Confirmed Asbestos-Containing Materials

All sampled materials have been analyzed by current EPA AHERA and ELAP protocols. No identified suspect materials have been confirmed to be Asbestos-Containing Materials. Refer to Section 2.4 and 2.5.

2.4 Assumed Asbestos-Containing Suspect Materials

No suspect Asbestos-Containing Materials have been assumed to be Asbestos-Containing Materials. Refer to Sections 2.3 and 2.5.

2.5 Confirmed Non-Asbestos Containing Materials

These materials were sampled and analyzed by current EPA AHERA and ELAP protocols and were proven to contain one percent asbestos or less ($\leq 1\%$).

HAN Number	Material Description	Comments
FLOORS (300s)		
300.2	Mosaic Floor Tile Thinset	---
MISCELLANEOUS (600s)		
603	Valve Gasket	---

2.6 Summary Table of Asbestos-Containing Materials

All sampled materials have been analyzed by current EPA AHERA and ELAP protocols. No identified suspect materials have been confirmed to be Asbestos-Containing Materials, and none were assumed to be ACM.

Refer to Section 2.3, 2.4 and 2.5.

Refer to Appendix F for additional confirmed asbestos-containing materials, assumed asbestos-containing materials, and confirmed non-asbestos-containing materials identified in the historic pre-renovation report prepared by LiRo Engineers, Inc. on April 26, 2024.



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Springville, NY 14141 | West Seneca, NY 14224 | 716.592.3980

3 Lead-Based Paint Inspection

See Appendix F for Historic Data



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Springville, NY 14141 | West Seneca, NY 14224 | 716.592.3980

4 PCB Inspection

See Appendix F for Historic Data

Appendix A

General Conditions of Inspection

1. Encorus Group Engineering, P.C. LLC neither accepts nor implies any liability for the implementation of the recommendations found within this report.
2. This inspection was limited to areas accessible to the inspector. Encorus Group Engineering, P.C. neither accepts nor implies any liability for hazardous materials that may be present in other areas of the building.
3. The results of the laboratory analytical reports that may be contained herein are the product of the knowledge, experience and expertise of the laboratory retained to perform such services. Encorus Group neither accepts nor implies any liability for sample analysis reports compiled by others.
4. This report is based on the condition and contents present at the site on the day of the inspection. Encorus Group Engineering, P.C. is not liable for materials, chemicals or other substances of concern that may have been removed from the site, cleaned or disposed of prior to the inspection date or subsequent to that date.
5. An inspection for Asbestos-Containing Materials, Lead-Based Paint or PCB-Containing Materials relies heavily upon identification of homogeneous areas, with subsequent sampling and laboratory analysis determined by: the quantity of surfaces identified, generally accepted inspection protocols, regulatory requirements, and the inspector's judgment. Specific sample locations are determined with the objective of selecting representative samples. As with any type of sampling, the possibility of obtaining a false positive or false negative does exist, is inherent in the sampling process, and can at times result from the uneven distribution of target analytes within the suspect material. The comprehensive inspection protocol developed and utilized by Encorus Group Engineering, P.C. attempts to minimize the risk of a false positive or false negative result. However, the client is advised that the risk of false positives or false negatives cannot be completely eliminated.



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Appendix B

Certifications and Licenses

WE ARE YOUR DOL



Department
of Labor

DIVISION OF SAFETY & HEALTH LICENSE AND CERTIFICATE UNIT, STATE OFFICE CAMPUS, BLDG. 12, ALBANY, NY 12226

ASBESTOS HANDLING LICENSE

Encorus Group Engineering, P.C.
P.O. Box 344, Springville, NY, 14141

License Number: 421634

License Class: RESTRICTED

Date of Issue: 11/22/2023

Expiration Date: 11/30/2024

Duly Authorized Representative: Thomas Gilmartin

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

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

A handwritten signature in black ink, appearing to read "Amy Phillips".

Amy Phillips, Director
For the Commissioner of Labor

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



DAVID RICHARDSON

CLASS(EXPIRES)

C ATEC (09/25) D INSP (09/25)

H PM (09/25)

CERT# 24-6A865-SHAB
DMV# 888060765

MUST BE CARRIED ON ASBESTOS PROJECTS



IF FOUND, RETURN TO:

NYS DOL - L&C UNIT

ROOM 161A BUILDING 12

STATE OFFICE CAMPUS

ALBANY NY 12226



01213 007203047 14

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2025
Issued April 01, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

*MR. CORY M. PARNELL
AMERISCI RICHMOND
13635 GENITO RD
MIDLOTHIAN, VA 23112*

NY Lab Id No: 10984

*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
Asbestos-Vermiculite-Containing Mate	Item 198.8 of Manual

Serial No.: 68665

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Appendix C

Chains of Custody and Laboratory Reports



AmeriSci Richmond

13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: 8047631200 FAX: 8047631800

September 17, 2024

Encorus Group Engineering P.C.
Attn: Sean Fitzgerald
350 Elmwood Ave
Buffalo, NY 14222

RE: Encorus Group Engineering P.C.
Job Number 124091424
P.O. #24515
24515; Mark Mortenson; Buffalo And Erie County Botanical Gardens; 2655 South Park Ave, Buffalo,
NY 14218 (Report Amended 9/16/2024)

Dear Sean Fitzgerald:

Enclosed are the results of Asbestos Analysis - Bulk Protocol of the following Encorus Group Engineering P.C. samples, received at AmeriSci on Friday, September 13, 2024, for a 3 day turnaround:

20240911-24515-300.2-1, 20240911-24515-300.2-2, 20240911-24515-603-1, 20240911-24515-603-2

The 4 samples, placed in zip lock bag, were shipped to AmeriSci via Fed Ex 7301 7892 1612 B 1040. Encorus Group Engineering P.C. requested ELAP PLM/TEM analysis of these samples.

The results of the analyses which were performed under NYSDOH ELAP Lab Certification # 10984 following ELAP 198.4 TEM guidelines are presented within the Summary Table of this report. The presence of matrix reduction data in the Summary Table normally indicates an NOB sample. For NOB samples the individual matrix reduction and TEM analysis results are listed in Table I. Complete PLM results for individual samples analyzed by ELAP 198.1 (friable) and ELAP 198.6 (NOB) are presented in the PLM Bulk Asbestos Report. This combined report relates ONLY to sample analysis expressed as percent composition by weight and percent asbestos. This report must not be used to claim product endorsement or approval by these laboratories, NVLAP, ELAP or any other associated agency. The National Institute of Standards and Technology accreditation requirements, mandate that this report must not be reproduced, except in full without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations respectively, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Glenn F. Massey". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Glenn F. Massey
QA Manager | Authorized Signatory



AmeriSci Richmond

13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

Encorus Group Engineering P.C.
Attn: Sean Fitzgerald
350 Elmwood Ave

Buffalo, NY 14222

Date Received 09/13/24 **AmeriSci Job #** 124091424
Date Examined 09/16/24 **P.O. #**
ELAP # 10984 **Page** 1 of 2
RE: 24515; Mark Mortenson; Buffalo And Erie County Botanical
Gardens; 2655 South Park Ave, Buffalo, NY 14218 (Report
Amended 9/16/2024)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
20240911-24515-300.2-1 300.2 Location: Mosaic Floor Tile Thinset; 101A	124091424-01	No	NAD (by NYS ELAP 198.1) by C. David Mintz on 09/16/24
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100%			
20240911-24515-300.2-2 300.2 Location: Mosaic Floor Tile Thinset; 101A	124091424-02	No	NAD (by NYS ELAP 198.1) by C. David Mintz on 09/16/24
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100%			
20240911-24515-603-1 603 Location: Valve Gasket; 102	124091424-03	No	NAD (NOB by NYS ELAP 198.6) by C. David Mintz on 09/16/24
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 3.0%, Non-fibrous 47% Comment: Heat Sensitive (organic): 46.2%; Acid Soluble (inorganic): 3.8%; Inert (Non-asbestos): 50.1%			
20240911-24515-603-2 603 Location: Valve Gasket; 102	124091424-04	No	NAD (NOB by NYS ELAP 198.6) by C. David Mintz on 09/16/24
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 3.0%, Non-fibrous 46% Comment: Heat Sensitive (organic): 47.6%; Acid Soluble (inorganic): 2.9%; Inert (Non-asbestos): 49.5%			

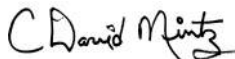
Client Name: Encorus Group Engineering P.C.

PLM Bulk Asbestos Report

24515; Mark Mortenson; Buffalo And Erie County Botanical
Gardens; 2655 South Park Ave, Buffalo, NY 14218 (Report
Amended 9/16/2024)

Reporting Notes:

Analyzed by: C. David Mintz
Date: 9/16/2024



Reviewed by: Glenn F. Massey



*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis using Olympus, Model BH-2 microscope, Serial #210972, by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST 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.

Client Name: Encorus Group Engineering P.C.

Table I
Summary of Bulk Asbestos Analysis Results by NYS ELAP 198.4

24515; Mark Mortenson; Buffalo And Erie County Botanical Gardens; 2655 South Park Ave, Buffalo, NY 14218 (Report Amended 9/16/2024)

AmeriSci Sample #	Client Sample#	HG Area	NOB Sample Weight (gram)	NOB Heat Sensitive Organic %	NOB Acid Soluble Inorganic %	NOB Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	20240911-24515-300.2-1	300.2	----	----	----	----	NAD	NA
	Location: Mosaic Floor Tile Thinset; 101A							
02	20240911-24515-300.2-2	300.2	----	----	----	----	NAD	NA
	Location: Mosaic Floor Tile Thinset; 101A							
03	20240911-24515-603-1	603	0.476	46.2	3.8	50.1	NAD	NAD
	Location: Valve Gasket; 102							
04	20240911-24515-603-2	603	0.353	47.6	2.9	49.5	NAD	NAD
	Location: Valve Gasket; 102							

Analyzed by: Cory M. Parnell

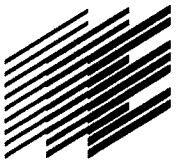
Date: 9/16/2024



Reviewed by: Glenn F. Massey



Semi-Quantitative Analysis: NAD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed due to positive stop; Trace = <1%; PLM analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) or NY ELAP 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NY ELAP Lab # 10984); TEM prep by EPA 600/R-93/116 Section 2.3 (analysis by Section 2.5, not covered by NVLAP Bulk accreditation); or NY ELAP 198.4 for New York NOB samples (NY ELAP Lab # 10984). Analysis using Jeol, Model JEM-100CX II microscope, Serial #156147-247. ** Warning Notes: Consider PLM fiber diameter limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris, soils or other heterogeneous materials for which a combination PLM/TEM evaluation is recommended; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only.



ENCORUS
GROUP

124-09-1424

23 Mechanic Street
Springville, NY 14141

295 Main Street
West Seneca, NY 14224

encorus.com
716.592.3980

Bulk Chain of Custody

Email Report to: labresults@encorus.com		Turn Around Time	
Client/Contact: Buffalo and Erie County Botanical Gardens		<input type="checkbox"/> RUSH	
Mark Mortenson		<input type="checkbox"/> 24 Hour	
Project/Location: Botanical Gardens Addition		<input type="checkbox"/> 48 Hour	
2655 South Park Ave Buffalo, NY 14218		<input checked="" type="checkbox"/> 72 Hour	
Project No.: 24515		<input type="checkbox"/> 5 Day	
		Other:	
Analysis Requested:		Protocol:	
PLM <input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> Negative PLM to TEM per ELAP protocols	
TEM <input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> Positive Stop by HAN-ID#	
PCB <input type="checkbox"/>		<input type="checkbox"/> Layered analysis requested for:	
Other:		4 Total # of Samples	
Notes:			

Sample Name				Description of Sample	Location of Sample
Date	Project	HAN	ID#		
20240911	24515	300.2	1	Mosaic Floor Tile Thinset	101A
20240911	24515	300.2	2	Mosaic Floor Tile Thinset	101A
20240911	24515	603	1	Valve Gasket	101
20240911	24515	603	2	Valve Gasket	102
			1		
			2		
			3		
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		

Sampled by: David Richardson
 Relinquished by: David Richardson
 Received by: T Martin 9/16/24 4:20p
 (Amended COC)

Date: 09/11/24
 Date + Time: 09/11/24 1600
 Date + Time:



23 Mechanic Street
Springville, NY 14141

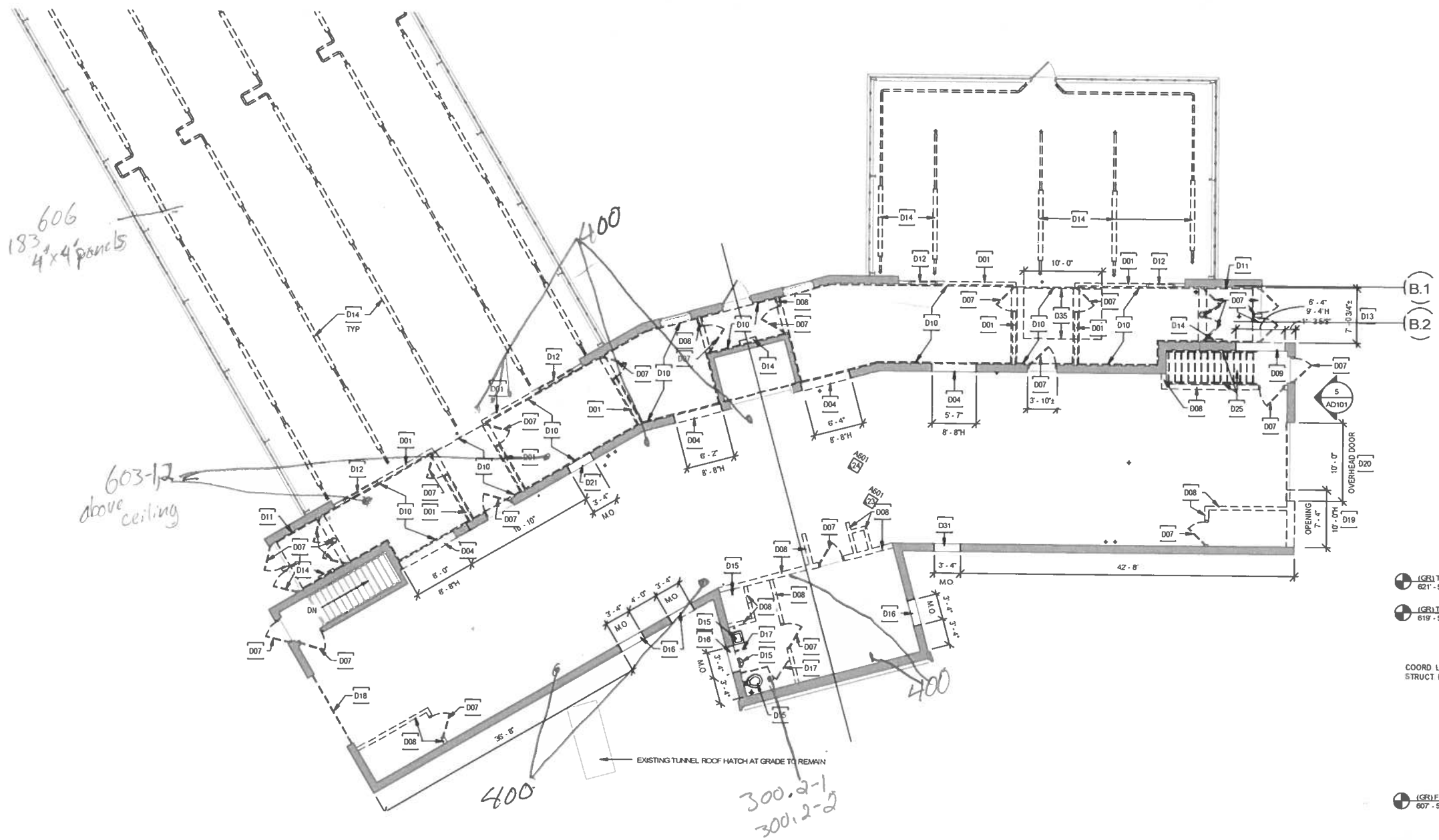
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Appendix D

Sample Floor Plans

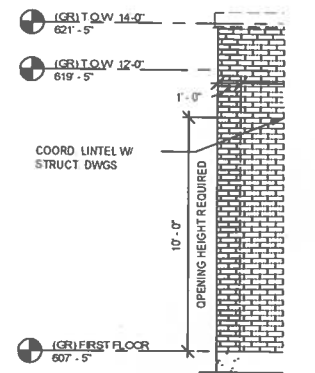
24515



3 CONSER
SCALE 1/8" = 1'

TYP A
BOILER ROOM
609'-3"

4 CONSER
SCALE 1/4" = 1'





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Appendix E

Summary of Inspected Functional Spaces



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- Encorus Group reinspected all functional spaces present in the historic report



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Appendix F

Historic Project Data

**Asbestos Containing Materials and Hazardous
Materials Inspection Report**

For

**Buffalo & Erie County Botanical Gardens
Grow House**

Prepared For:

**Foit-Albert Associates Architecture,
Engineering and Surveying, P.C.
295 Main Street, Suite 200
Buffalo, NY 14203**

Prepared By:



LiRo Engineers, Inc.
A LiRo Group Company

**690 Delaware Avenue
Buffalo, NY 14209**

April 26, 2024



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- Appendix E: Sample Location Drawings
- Appendix F: Hazardous Materials Location Drawings
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- Appendix H: Photographic Log

1.0 Executive Summary

At the request of Foit-Albert Associates Architecture (Foit), LiRo Engineers, Inc. (LiRo) has performed an inspection for the presence or absence of Asbestos Containing Materials (ACM), Lead-Based Paint (LBP), and polychlorinated biphenyl (PCB) containing building materials at the grow house at the Buffalo and Erie County Botanical Gardens located at 2655 South Park Ave, Buffalo, New York.

1.1 Asbestos Containing Materials

LiRo conducted asbestos bulk sampling at the site on March 5, 6, and 7, 2024.

The following materials have been identified as Asbestos Containing Material (ACM):

Exterior :

- **Caulk, Gray, Double doors - 10 SF - Intact/Non-Friable**
- **Moisture Barrier Tar on Foundation - 3700 SF- Intact/Non-Friable**
- **Caulk, Gray, Greenhouse 1 and 2, between Glass and Concrete - 5 SF - Intact/Non-Friable**
- **Caulk, Gray, Single Man door (Exterior and Interior)- 3 SF - Damaged/Non-Friable**
- **Caulk, Gray, and associated Glazing, Gray, Greenhouse 1 and 2 Caulking for Glass, Under Metal Trim - 150 SF Damaged/Non-Friable**

Interior:

Greenhouses 1 and 2

- **Table Tops Surfaces, Greenhouse 1 and 2, - 3500 SF - Intact/Non-Friable**

Throughout Building

- **Mud Elbows, Joints and Hanger Fittings - 100 SF - Intact/Friable**
- **Fire Doors*, 10 Each - Intact/Friable**

Basement:

- **12x12" Floor Tile, Gray - 100 SF - Intact/Friable**
- **Elevator Brake*, 1 pair - Intact/Friable**

Bathroom:

- **Waterproofing Membrane* - 120 SF - Intact/Friable**

Roof:

- **Caulk, Black, Parapet Wall, Perimeter - 10 SF - Intact/Non-Friable**
- **Silver Seal, Silver, Perimeter of Roofs - 670 SF - Intact/Non-Friable**

***Assumed ACM. Not sampled due to inaccessibility.**

Analytical results indicate that **all other materials sampled throughout the several buildings were NOT Asbestos Containing Materials.**

1.2 Lead Based Paint

In conjunction with the Asbestos Survey, LiRo conducted sampling of paint chips throughout the grow house from surfaces which may be impacted. Lead-Paint (LBP) sampling was conducted on March 5th and 6th, 2024. LBP was not identified in the sampled coatings, however, low levels of lead in paint below the regulatory threshold for determination as Lead-based paint (0.5% by weight) were detected in the following:

Exterior :

- **Overhead garage door, Paint on Frame, Bluish green**
- **Bollard in front of Man door, Paint on bollard, Safety Yellow**
- **Green houses, Paint on Planting Tables, Green**

Interior:

- Lintel and station, blueish green
- Paint on bottom of roof deck, off white
- Paint on Wall, Beige
- Paint on Concrete Floor, Brown
- Paint on Concrete Floor, Dark Gray
- Paint on Wall, Green

These levels are below federal guidelines for determination as lead-based paint materials, however, according to OSHA 29 CFR 1926.62, the lead in construction standard, as there are detectable levels of lead present, the potential for the creation of lead dust/contamination does exist. All paint dust, chips and other debris shall require cleaning utilizing wet methods. All work shall be performed in accordance with OSHA 29 CFR 1926.62 (the OSHA Lead Exposure in Construction Rule).

1.3 Polychlorinated biphenyls

Polychlorinated biphenyls (PCBs) were frequently used in the production of building products such as caulks and window glazing compounds used during building construction, renovation, and repair activities from the 1950s through 1978. The United States Environmental Protection Agency (EPA) regulates building materials containing PCBs at concentrations greater than or equal to 50 parts per million (ppm) as PCB bulk product waste. PCB bulk product wastes require disposal in accordance with 40 CFR 761.62.

On March 5th, 6th, and 7th, LiRo collected samples of suspect building materials identified across the grow house as potentially containing PCBs. **No materials were determined to contain PCBs at concentrations greater or equal to 50 ppm.** However, the following materials were determined to contain PCBs at concentrations <50 ppm. These materials do not meet the criteria of PCB bulk product waste and therefore do not require disposal as a regulated waste. However, due to the presence of low levels of PCBs in the material, all personnel handling these materials should be made aware of the presence of PCBs and be provided with appropriate personal protective equipment (PPE) to limit the risk of exposure.

- Caulk, Gray, Greenhouse 1 and 2 Caulking for Glass, Under Metal Trim
- Caulk, Black, Parapet Wall, Perimeter

2.0 Field Survey Procedures and Sample Analysis Methods

Guidelines used for the asbestos inspection were established by the Environmental Protection Agency (EPA) in the Guidance for Controlling Asbestos Containing Materials in Buildings, Office of Pesticides and Toxic Substances, Doc 560/5-85-024, and 40 CFR Part 763, Asbestos Hazard Emergency Response Act (AHERA).

Field information was organized in accordance with the AHERA methodology of homogenous area (HA). During the survey, reasonable effort was made to identify all locations and types of ACM materials associated with the scope of work. Sampling has included multiple samples of the same materials chosen at random. However, due to inconsistencies of a manufacturer's processes and the contractor's installation methods, materials of similar construction may contain various amounts of asbestos. Furthermore, some materials that were not originally specified to contain asbestos may in fact contain this mineral.

Bulk samples of suspect ACM were analyzed using polarized light microscopy (PLM) coupled with dispersion staining, as described in 40 CFR Part 763 and the National Emissions Standard for Hazardous Air Pollutants (NESHAPS). NESHAPS is the standard industry protocol for the determination of asbestos in building materials. A suspect material is immersed in a solution of known refractive index and subjected to illumination by polarized light. The color displays that result are compared to a standardized atlas whereby the specific variety of asbestos is determined. It should also be recognized that PLM is primarily a qualitative

identification method whereby asbestos percentage, if any, is estimated. While EPA and New York State regulations governing ACM consider materials containing greater than 1-percent as asbestos, accurately quantifying asbestos content below 5-percent has been shown to be unreliable.

The New York State Department of Health has revised the PLM Stratified Point Counting Method. The new method, "Polarized Light Microscopy Methods for Identifying and Quantifying Asbestos in Bulk Samples" can be found as item 198.1 in the Environmental Laboratory Approval program (ELAP) Certification manual. The method specifies a procedure of analysis for bulk samples that fall into the category of "Non-friable Organically Bound" (NOB). This category includes any sample in a flexible to rigid asphalt or vinyl matrix (floor tiles, mastic, roofing shingles, roofing felt, etc.). Additional materials that may fall into this category are textured paints and stucco, pipe valve and joint packing, and a variety of other applications. These samples must be "ashed" in a muffle furnace at 480-degrees Celsius (to remove organic matrix), treated with acid (to remove any mineral carbonate), and filtered through a 0.4-micron filter before being analyzed by PLM. The sample must be weighted between each of these steps to track the percent loss of organic matrix.

ELAP has determined that analysis of NOB materials is not reliably performed by PLM. Therefore, if PLM yields results of 1-percent asbestos or less, the result must be confirmed by TEM. Bulk samples that undergo TEM analysis use the sample reduction methodology stated above for NOB analysis by PLM. ELAP certified laboratories must include the following statement with their PLM analysis results for each "negative" (1-percent or less asbestos) NOB sample: "Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-ACM, confirmation must be made by quantitative transmission electron microscopy".

All asbestos bulk samples were initially analyzed by Polarized Light Microscopy. Samples which yielded a negative PLM result, and which are classified as a "non-friable" material were then re-analyzed utilizing Transmission Electron Microscopy methodology described above. Laboratory analysis of asbestos bulk samples was performed by EMSL Analytical, Inc. located at 490 Rowley Rd, Depew, NY 14043.

Lead Paint Samples were analyzed via EPA Method 7000B. PCB samples were analyzed via EPA Method 8082A. All Lead Paint and PCB samples were also analyzed by EMSL Analytical Inc. located at 200 Route 130 North, Cinnaminson, NJ 08077.

3.0 Inspection Scope and Material Assessment Results

The intent of this inspection was to locate and identify potential hazardous materials that may be impacted by the demolition or renovation of the grow house facility at the Buffalo and Erie County Botanical Gardens. A general site plan is included as Figure 1.

LiRo conducted sampling for Asbestos Containing Materials (ACM), Lead-Based Paint (LBP) and polychlorinated bi-phenyl (PCB) containing building materials. All sample locations are illustrated on Drawings included in Appendix E of this report. The approximate locations of identified ACM are shown on Drawings HM-1 through HM-2 included in Appendix F of this report.

3.1 Asbestos Containing Materials

Asbestos bulk sampling was conducted by Raymond Cich (certification #23-6L6T3-SHAB) and Sarah Northan (certification #20-17407) of LiRo on March 5th, 6th, and 7th, 2024. Based upon visual inspection and bulk sample analysis results, **the following materials have been identified as ACM (greater than 1% asbestos):**



Hazardous Materials Inspection Report

Exterior :

- Caulk, Gray, Double doors - 10 SF - Intact/Non-Friable
- Moisture Barrier Tar on Foundation - 3700 SF- Intact/Non-Friable
- Caulk, Gray, Greenhouse 1 and 2, between Glass and Concrete - 5 SF - Intact/Non-Friable
- Caulk, Gray, Single Man door (Exterior and Interior)- 3 SF - Damaged/Non-Friable
- Caulk, Gray, and associated Glazing, Gray, Greenhouse 1 and 2 Caulking for Glass, Under Metal Trim - 150 SF Damaged/Non-Friable

Interior:

Greenhouses 1 and 2

- Table Tops Surfaces, Greenhouse 1 and 2, - 3500 SF - Intact/Non-Friable

Throughout Building

- Mud Elbows, Joints and Hanger Fittings - 100 SF - Intact/Friable
- Fire Doors*, 10 Each - Intact/Friable

Basement:

- 12x12" Floor Tile, Gray - 100 SF - Intact/Friable
- Elevator Brake*, 1 pair - Intact/Friable

Bathroom:

- Waterproofing Membrane* - 120 SF - Intact/Friable

Roof:

- Caulk, Black, Parapet Wall, Perimeter - 10 SF - Intact/Non-Friable
- Silver Seal, Silver, Perimeter of Roofs - 670 SF - Intact/Non-Friable

*Assumed ACM. Not sampled due to inaccessibility.

A complete summary of all asbestos bulk samples collected, and their corresponding analytical results is provided in Appendix A. Laboratory report forms for the asbestos analysis are included in Appendix B. Photographs are included in Appendix H of this report.

3.2 Lead-Based Paint

In conjunction with the Asbestos Survey, LiRo conducted a sampling of paint chips throughout the grow house facility from surfaces which may be impacted. Lead-Based Paint (LBP) sampling was conducted on March 5th and 6th, 2024. LBP was not identified in the sampled coatings, however, low levels of lead in paint below the regulatory threshold for determination as Lead-based paint (0.5% by weight) were detected in the following:

Exterior :

- Overhead garage door, Paint on Frame, Bluish green
- Bollard in front of Man door, Paint on bollard, Safety Yellow
- Green houses, Paint on Planting Tables, Green

Interior:

- Greenhouse #1, Lintel and station, blueish green
- Room B, Paint on bottom of roof deck, off white
- Room B, Paint on Wall, Beige
- Room B, Paint on Concrete Floor, Brown
- Room E, Paint on Concrete Floor, Dark Gray
- Room G, Paint on Wall, Green

These levels are below federal guidelines for determination as lead-based paint materials, however, according to OSHA 29 CFR 1926.62, the lead in construction standard, as there are detectable levels of lead present, the potential for the creation of lead dust/contamination does exist. All paint dust, chips and other debris shall require cleaning utilizing wet methods. All work shall be performed in accordance with OSHA 29 CFR 1926.62 (the OSHA Lead Exposure in Construction Rule).

A summary of LBP sampling results is included in the table below. Laboratory reports of the paint chip analysis are provided in Appendix C.

Lead-Based Paint Analytical Results Summary				
Sample ID	Sample Location	Color	Substrate	Lead Concentration
BBG-LBP-1	Overhead Garage Door	Bluish Green	Steel	0.18%
BBG-LBP-2	South Man Door Bollard	Safety Yellow	Steel	0.035%
BBG-LBP-3	Planting Tables, Greenhouse Exterior	Green	Steel	0.015%
BBG-LBP-4	Greenhouse #1 Lintel & Station	Bluish Green	Steel	0.074%
BBG-LBP-5	Wall Paint, Room B	Off-White	Gypsum Board	<0.008%
BBG-LBP-6	Underside of Roof Deck, Room B	Off-White	Steel	0.18%
BBG-LBP-7	Wall Paint, Room B	Beige	CMU Block	0.025%
BBG-LBP-8	Floor Paint, Room B	Brown	Concrete	0.012%
BBG-LBP-9	Floor Paint, Room D	Gray	Concrete	<0.008%
BBG-LBP-10	Wall Paint, Room D	Green	Gypsum Board	<0.009%
BBG-LBP-11	Wall Paint, Room E	Blue	Gypsum Board	<0.008%
BBG-LBP-12	Floor Paint, Room E	Dark Gray	Concrete	0.024%
BBG-LBP-13	Wall Paint, Room G	Green	Gypsum Board	0.022
BBG-LBP-14	Wall Paint, Room G	Light Yellow	Gypsum Board	<0.008%
BBG-LBP-15	Wall Paint, Room G	Dark Yellow	Gypsum Board	<0.008%

3.3 Polychlorinated Biphenyls

On March 5th, 6th, and 7th, 2024, LiRo collected samples of suspect building materials identified throughout the Grow House facility. **No materials were determined to contain PCBs at concentrations greater or equal to 50 ppm. (The threshold for determination as PCB bulk product waste.)** However, the following materials were determined to contain PCBs at concentrations <50 ppm. These materials do not meet the criteria of PCB bulk product waste and therefore do not require disposal as regulated waste. However, due to

the presence of low levels of PCBs in the material, all personnel handling these materials should be made aware of the presence of PCBs and be provided with appropriate personal protective equipment (PPE) to limit the risk of exposure.

- Caulk, Gray, Greenhouse 1 and 2 Caulking for Glass, Under Metal Trim
- Caulk, Black, Parapet Wall, Perimeter

A summary of the PCB sampling results is included in the below table. PCB sampling laboratory report forms are included in Appendix D.

PCB in Building Material Analysis Summary			
Sample ID	Location	Material	PCB Result
400 PCB	Exterior, Garage Door	Caulk, Soft, White	ND
401 PCB	Exterior, Man Door	Caulk, Soft, Grey	ND
402 PCB	Exterior, Double Doors	Caulk , Brittle Grey	ND
404 PCB	Exterior, Greenhouse 1 and 2	Caulk , Flexible , Grey	ND
405 PCB	Exterior, Greenhouse 1 and 2	Caulk , Flexible, White around glass	ND
408 PCB	Greenhouses 1 & 2, under metal trim	Glass Windows Caulk	6.2 PPM
706 PCB	Roof Parapet Wall	Parapet Wall Caulk, Black	ND
707 PCB	Roof & Exterior Brick Walls	Caulk, Roof Flashing & Brick Expansion Seams	1.9 PPM
708 PCB	Roof	Silver Seal, Silver	ND

Notes:

- ppm: parts per million
- ND: Not Detected

- **BOLD: indicates EPA PCB Bulk product waste (greater than or equal to 50 ppm)**

4.0 Areas Not Accessible

During the inspection, the following areas were not accessible:

- Void Spaces within Walls: No destructive sampling was performed on concealed spaces in walls to access plenum, chases, etc. It should be assumed that asbestos-containing materials may exist in these areas. Any suspect materials encountered during work should be sampled for analysis before work continues.
- Under mortar of ceramic floor tile: Coring of the mortar bed associated with the ceramic floor was NOT performed. It should be assumed that an asbestos-containing waterproofing membrane may exist below the mortar bed. Any suspect materials encountered during work should be sampled for analysis before work continues.



- Elevator Shaft: No destructive sampling was performed on the elevator. It should be assumed that asbestos-containing materials may exist in this area. Any suspect materials encountered during work should be sampled for analysis before work continues.

5.0 Conclusions and Recommendations

5.1 Asbestos Containing Materials

The following ACM materials have been identified in our survey effort. Any of these materials impacted will require removal and disposal in accordance with all applicable federal, state, and local regulations including 40 CFR Part 61 (EPA National Emission Standard for Air Pollutants), 29 CFR Part 1910 (OSHA Asbestos), and OSHA Part 1926 (OSHA Construction).

The following materials have been identified as Asbestos Containing Material (ACM):

Exterior :

- Caulk, Gray, Double doors - 10 SF - Intact/Non-Friable
- Moisture Barrier Tar on Foundation - 3700 SF- Intact/Non-Friable
- Caulk, Gray, Greenhouse 1 and 2, between Glass and Concrete - 5 SF - Intact/Non-Friable
- Caulk, Gray, Single Man door (Exterior and Interior)- 3 SF - Damaged/Non-Friable
- Caulk, Gray, and associated Glazing, Gray, Greenhouse 1 and 2 Caulking for Glass, Under Metal Trim - 150 SF Damaged/Non-Friable

Interior:

Greenhouses 1 and 2

- Table Tops Surfaces, Greenhouse 1 and 2, - 3500 SF - Intact/Non-Friable

Throughout Building

- Mud Elbows, Joints and Hanger Fittings - 100 SF - Intact/Friable
- Fire Doors*, 10 Each - Intact/Friable

Basement:

- 12x12" Floor Tile, Gray - 100 SF - Intact/Friable
- Elevator Brake*, 1 pair - Intact/Friable

Bathroom:

- Waterproofing Membrane* - 120 SF - Intact/Friable
- Caulk, Black, Parapet Wall, Perimeter - 10 SF - Intact/Non-Friable
- Silver Seal, Silver, Perimeter of Roofs - 670 SF - Intact/Non-Friable
- Assumed ACM. Not sampled due to inaccessibility.

5.2 Lead Based Paint

No lead-based paint is expected to be disturbed by this project. However, low levels of lead below the threshold for determination as LBP (0.5% by weight) were detected in the following coatings.

Exterior :

- Overhead garage door, Paint on Frame, Bluish green
- Bollard in front of Man door, Paint on bollard, Safety Yellow
- Green houses, Paint on Planting Tables, Green



Interior:

- Greenhouse #1, Lintel and station, blueish green
- Room B, Paint on bottom of roof deck, off white
- Room B, Paint on Wall, Beige
- Room B, Paint on Concrete Floor, Brown
- Room E, Paint on Concrete Floor, Dark Gray
- Room G, Paint on Wall, Green

These levels are below federal guidelines for determination as lead-based paint materials, however, according to OSHA 29 CFR 1926.62, the lead in construction standard, as there are detectable levels of lead present, the potential for the creation of lead dust/contamination does exist. All paint dust, chips and other debris shall require cleaning utilizing wet methods. All work shall be performed in accordance with OSHA 29 CFR 1926.62 (the OSHA Lead Exposure in Construction Rule).



5.3 Polychlorinated biphenyls

Polychlorinated biphenyls (PCBs) were frequently used in the production of building products such as caulks and window glazing compounds used during building construction, renovation and repair activities from the 1950s through 1978. The United States Environmental Protection Agency (EPA) regulates building materials containing PCBs at concentrations greater than or equal to 50 parts per million (ppm) as PCB bulk product waste. PCB bulk product wastes require disposal in accordance with 40 CFR 761.62.

LiRo collected samples of suspect building materials identified throughout the grow house facility. **No materials were determined to contain PCBs at concentrations greater or equal to 50 ppm. (The threshold for determination as PCB bulk product waste.)** However, the following materials were determined to contain PCBs at concentrations <50 ppm. These materials do not meet the criteria of PCB bulk product waste and therefore do not require disposal as a regulated waste. However, due to the presence of low levels of PCBs in the material, all personnel handling these materials should be made aware of the presence of PCBs and be provided with appropriate personal protective equipment (PPE) to limit the risk of exposure.

- Caulk, Gray, Greenhouse 1 and 2 Caulking for Glass, Under Metal Trim
- Caulk, Black, Parapet Wall, Perimeter



**APPENDIX A:
Asbestos Sample Analysis Results
In Tabular Form**

Hazardous Materials Inspection Report

APPENDIX A SAMPLE ANALYSIS RESULTS IN TABULAR FORM Buffalo & Erie County Botanical Gardens - Grow House 2655 South Park Ave, Buffalo, New York

Homo. Material ID.	Sample No.	Location	Material	Quantity	PLM Result	TEM Result	Condition (I/D/SD)	Friable (Yes/No)
N/A	N/A	Throughout Building	Fire Doors	10 Each	Assumed		I	Y
N/A	N/A	Bathroom	Waterproof Membrane	120 SF	Assumed		I	N
N/A	N/A	Elevator	Brakes	1 pair	Assumed		I	N
A	100A / 101A	Greenhouse 1	Gypsum Board & Joint Compound, White	N/A	NAD	NA	N/A	N/A
	100B / 101B				NAD	NA		
B	201A	Room B	2x4' Ceiling Tile, divided to look like 2x2', Pockmarked, White	N/A	NAD	NAD	N/A	N/A
	201B	Room G			NAD	NAD		
C	300A / 304A	Greenhouse 1	4" Cove Base comingled with Mastic, Beige	N/A	NAD	NAD	N/A	N/A
	300B / 304B	Greenhouse 2			NAD	NAD		
D	301A / 305A	Basement	4" Cove Base comingled with Mastic, Black	N/A	NAD	NAD	N/A	N/A
	301B / 305B				NAD	NAD		
E	302A	Basement	12x12" Floor Tile, Gray	140 SF	1.80% Chrysotile	NA	I	N
	302B				NA/PS	NA/PS		
E	303A	Basement	Mastic associated with 12x12" Gray Floor Tile	N/A	NAD	NAD	N/A	N/A
	303B				NAD	NAD		
F	400A	Exterior Garage Door	Caulk, Soft, White	N/A	NAD	NAD	N/A	N/A
	400B				NAD	NAD		
G	401A	Exterior Man Door	Caulk, Soft, Gray	N/A	NAD	NAD	N/A	N/A
	401B				NAD	NAD		
VV	402A	Exterior Double Doors	Caulk, Brittle, Gray	10 SF	4.80% Chrysotile	NA	I	N
	402B				NA/PS	NA/PS		
H	403A	Foundation	Tar, Black	3700 SF	5.20% Chrysotile	NA	I	N
	403B				NA/PS	NA/PS		



Hazardous Materials Inspection Report

Homo. Material ID.	Sample No.	Location	Material	Quantity	PLM Result	TEM Result	Condition (I/D/SD)	Friable (Yes/No)
I	404A	Exterior, Greenhouses 1 & 2, between glass and concrete	Caulk, Flexible, Gray	5 SF	5.30% Chrysotile	NA	N/A	N/A
	404B				NA/PS	NA/PS		
J	405A	Exterior, Greenhouses 1 & 2	Caulk, Brittle, Gray	N/A	NAD	NAD	N/A	N/A
	405B				NAD	NAD		
K	406A	Single Man doors, Interior and exterior	Caulk, Brittle, Gray around man door	3.0 SF	5.30% Chrysotile	NA	D	N
	406B				NA/PS	NA/PS		
L	408A	Greenhouses 1 & 2	Caulking for Glass, Under Metal Trim	140 SF	33.00% Chrysotile	NA	D	N
	408B				NA/PS	NA/PS		
M	409A	Greenhouses 1 & 2	Glazing, Gray	10 SF	1.40% Chrysotile	NA	I	N
	409B				NA/PS	NA/PS		
N	501A	Greenhouses 1 & 2	Tabletop Surface Slabs	3500 SF	20.00% Chrysotile	NA	I	N
	501B				NA/PS	NA/PS		
O	502A	Greenhouse 1	Mudded Joint Wrap associated with 503	N/A	NAD	NAD	N/A	N/A
	502B				NAD	NAD		
	502C				NAD	NAD		
P	503A	Greenhouse 1	Mudded Joint Fitting associated with 504	100 SF	6.60% Chrysotile	NA	I	Y
	503B				NA/PS	NA		
	503C				NA/PS	NA		
Q	504A	Greenhouse 1	3" Pipe Insulation Jacketing with Fiberglass & Tar/Foil	N/A	NAD	NAD	N/A	N/A
	504B				NAD	NAD		
	504C				NAD	NAD		
R	505A	Greenhouse 1	3" Pipe Insulation Jacket with Fiberglass & Paper/Tar/Foil	N/A	NAD	NAD	N/A	N/A
	505B				NAD	NAD		
	505C				NAD	NAD		
S	506A	Room B	Insulation on Radiator Cover, Black	N/A	NAD	NAD	N/A	N/A
	506B				NAD	NAD		



Hazardous Materials Inspection Report

Homo. Material ID.	Sample No.	Location	Material	Quantity	PLM Result	TEM Result	Condition (I/D/SD)	Friable (Yes/No)
T	507A	Classrooms, Above Suspended Ceiling	12" Pipe Insulation for Roof Drains with Paper/Foil/Tar	N/A	NAD	NAD	N/A	N/A
	507B				NAD	NAD		
	507C				NAD	NAD		
U	508A	Classrooms, Above Suspended Ceiling	Mudded Joint with Jacket for 8" Pipe with Fiberglass for Roof Drains, Aqua & White	N/A	NAD	NAD	N/A	N/A
	508B				NAD	NAD		
	508C				NAD	NAD		
V	509A	Classrooms, Above Suspended Ceiling	End Sealant for 8" Pipe with Fiberglass for Roof Drains, Aqua & White	N/A	NAD	NAD	N/A	N/A
	509B				NAD	NAD		
	509C				NAD	NAD		
W	510A	Classrooms, Above Suspended Ceiling	Jacketing for 8" Pipe Fiberglass Insulation for Roof Drains, Aqua & White	N/A	NAD	NAD	N/A	N/A
	510B				NAD	NAD		
	510C				NAD	NAD		
X	511A	Classrooms	Duct Mastic, Tan-Brown	N/A	NAD	NAD	N/A	N/A
	511B				NAD	NAD		
Y	512A	Classrooms	Mastic associated with Cork Tiles on Wall	N/A	NAD	NAD	N/A	N/A
	512B				NAD	NAD		
Z	513A	Classrooms, Above Suspended Ceiling	3" Pipe Insulation Jacketing, Paper, White	N/A	NAD	NAD	N/A	N/A
	513B				NAD	NAD		
	513C				NAD	NAD		
AA	514A	Basement, New Hot Supply & Return Pipes	8" Pipe Insulation Jacketing, White	N/A	NAD	NAD	N/A	N/A
	514B				NAD	NAD		
	514C				NAD	NAD		
BB	515A	Basement	Paper Jacketing for 3" Pipe Fiberglass Insulation, Green	N/A	NAD	NAD	N/A	N/A
	515B				NAD	NAD		
	515C				NAD	NAD		



Hazardous Materials Inspection Report

Homo. Material ID.	Sample No.	Location	Material	Quantity	PLM Result	TEM Result	Condition (I/D/SD)	Friable (Yes/No)
CC	516A	Basement, Steam Lines	Paper Jacketing for 3" Pipe Fiberglass Insulation, Orange	N/A	NAD	NAD	N/A	N/A
	516B				NAD	NAD		
	516C				NAD	NAD		
DD	517A	Basement	Paper Jacketing for 3" through 8" Pipe Fiberglass Insulation, Paper/Foil/Tar, Tan-Brown	N/A	NAD	NAD	N/A	N/A
	517B				NAD	NAD		
	517C				NAD	NAD		
EE	518A	Basement	Mudded Fittings, 3" through 8" Pipes with Fiberglass Insulation, Tan-Brown	N/A	NAD	NAD	N/A	N/A
	518B				NAD	NAD		
	518C				NAD	NAD		
FF	519A	Basement, Hot Water Supply & Return Pipes Abandoned in Place	Paper Jacketing associated with 3" through 8" Pipes with Fiberglass Insulation, Paper/Tar/Foil, Red	N/A	NAD	NAD	N/A	N/A
	519B				NAD	NAD		
	519C				NAD	NAD		
GG	520A	Basement, Hot Water Supply & Return Pipes Abandoned in Place	Mudded Fittings associated with 3" through 8" Pipes with Fiberglass Insulation, Red	N/A	NAD	NAD	N/A	N/A
	520B				NAD	NAD		
	520C				NAD	NAD		
HH	521A	Basement, Cooler Room	Mastic associated with Wall Insulation, Yellow	N/A	NAD	NAD	N/A	N/A
	521B				NAD	NAD		
II	306A	Bathroom	Mortar associated with 1x1" Ceramic Floor Tile	N/A	NAD	NAD	N/A	N/A
	306B				NAD	NAD		
JJ	307A	Bathroom	Grout associated with 1x1" Ceramic Floor Tile, Gray	N/A	NAD	NAD	N/A	N/A
	307B				NAD	NAD		
KK	308A	Bathroom	Grout associated with 4x12" Ceramic Wall Tile, Gray	N/A	NAD	NAD	N/A	N/A
	308B				NAD	NAD		
LL	309A	Bathroom	Mortar associated with 4x12" Ceramic Wall Tile, Gray	N/A	NAD	NAD	N/A	N/A
	309B				NAD	NAD		
MM	701A / 702A	Lower Roof	Built-Up Roof, Black & Fiberboard, Brown	N/A	NAD	NAD	N/A	N/A
	701B	Upper Roof	Built-Up Roof, Black		NAD	NAD		



Hazardous Materials Inspection Report

Homo. Material ID.	Sample No.	Location	Material	Quantity	PLM Result	TEM Result	Condition (I/D/SD)	Friable (Yes/No)
NN	702B	Upper Roof	Fiberboard, Brown	N/A	NAD	NAD	N/A	N/A
OO	703A	Lower Roof	Felt, Above Foam Insulation, Black	N/A	NAD	NAD	N/A	N/A
	703B	Upper Roof			NAD	NAD		
PP	704A	Lower Roof	Felt, Below Foam Insulation, Black	N/A	NAD	NAD	N/A	N/A
	704B	Upper Roof			NAD	NAD		
QQ	705A	Lower Roof	Fiberboard, Brown	N/A	NAD	NAD	N/A	N/A
	705B	Upper Roof			NAD	NAD		
RR	706A	Roof, Parapet Wall, Perimeter	Caulk, Black	10 SF	12.00% Chrysotile	NA	I	N
	706B				NA/PS	NA/PS		
SS	707A	Roof Flashing & Brick Exterior Walls	Caulk, Gray	N/A	NAD	NAD	N/A	N/A
	707B				NAD	NAD		
TT	708A	Perimeter of Roofs	Silver Seal at roof flashing, Silver	670SF	3.50% Chrysotile	NA	D	N
	708B				NA/PS	NA/PS		
UU	522A	Basement, Hot Water Pipe	Pipe Jacketing against Fiberglass Insulation, White	N/A	NAD	NAD	N/A	N/A
	522B				NAD	NAD		
	522C				NAD	NAD		

Notes:

****Bold font is positive for ACM.***

NA: Not Analyzed

N/A: Not Applicable

D: Damaged <10% distributed/<25% local

NA/PS: Not Analyzed / Positive Stop

NAD: No Asbestos Detected

SD: Significantly Damaged >10% distributed/>25% local

Trace: Less Than 1% Asbestos

I: Intact – Little to No Damage



**APPENDIX B:
Asbestos Bulk Sample Chain of Custody
and Laboratory Results**



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Attention: Jason Colvin
The LiRo Group
690 Delaware Avenue
Buffalo, NY 14209

Phone: (716) 882-5476
Fax: (716) 882-9640
Received Date: 03/08/2024 5:00 PM
Analysis Date: 03/13/2024 - 03/15/2024
Collected Date: 03/08/2024

Project: 23-191-0134 / Buffalo Botanical Gardens / 2655 S Park Ave, Buffalo, NY 14218

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 100A 142400818-0001		Description Homogeneity	Green House 1 - Drywall, White Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 101A 142400818-0002		Description Homogeneity	Green House 1 - Joint Compound, White Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	White		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 100B 142400818-0003		Description Homogeneity	Green House 1 - Drywall, White Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	White		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 101B 142400818-0004		Description Homogeneity	Green House 1 - Joint Compound, White Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	White		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 201A 142400818-0005		Description Homogeneity	Room B - 2x4 Ceiling Tile to Look like 2x2, Pock Marked, White Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Gray		100.00% Other	None Detected

Initial report from: 03/15/2024 11:28:05



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<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 201B 142400818-0006		Description	Room G - 2x4 Ceiling Tile to Look like 2x2, Pock Marked, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Tan		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Tan		100.00% Other	None Detected
Sample ID 300A 142400818-0007		Description	Green House 1 - 4" Cove w/ Mastic, Beige		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Beige		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Beige		100.00% Other	None Detected
Sample ID 304A 142400818-0008		Description	Green House 1 - 4" Cove w/ Mastic, Beige		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Tan		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Tan		100.00% Other	None Detected
Sample ID 300B 142400818-0009		Description	Green House 2 - 4" Cove w/ Mastic, Beige		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Beige		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Beige		100.00% Other	None Detected
Sample ID 304B 142400818-0010		Description	Green House 2 - 4" Cove w/ Mastic, Beige		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Tan		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Tan		100.00% Other	None Detected
Sample ID 301A 142400818-0011		Description	Basement - 4" Cove w/ Mastic, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Black		100.00% Other	None Detected

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EMSL Analytical, Inc.

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<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 305A 142400818-0012		Description	Basement - 4" Cove w/ Mastic, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Brown		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Brown		100.00% Other	None Detected
Sample ID 301B 142400818-0013		Description	Basement - 4" Cove w/ Mastic, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Black		100.00% Other	None Detected
Sample ID 305B 142400818-0014		Description	Basement - 4" Cove w/ Mastic, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Brown		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Brown		100.00% Other	None Detected
Sample ID 302A 142400818-0015		Description	Basement - 12x12 Floor Tile, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray	None	98.20% Other	1.80% Chrysotile
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 302B 142400818-0016		Description	Basement - 12x12 Floor Tile, Grey		
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 303A 142400818-0017		Description	Basement - Mastic for Sample 302A and 302B, Yellow		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Yellow		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Yellow		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 303B 142400818-0018		Description	Basement - Mastic for Sample 302A and 302B, Yellow		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Yellow		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Yellow		100.00% Other	None Detected
Sample ID 400A 142400818-0019		Description	Exterior, Garage Door - Caulk, Soft, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	White		100.00% Other	None Detected
Sample ID 400B 142400818-0020		Description	Exterior, Garage Door - Caulk, Soft, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	White		100.00% Other	None Detected
Sample ID 401A 142400818-0021		Description	Exterior, Man Door - Caulk, Soft, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray	None	100.00% Other	Inconclusive : <1% Chrysotile
TEM NYS 198.4 NOB	03/14/2024	Gray	None	100.00% Other	<1% Chrysotile
Sample ID 401B 142400818-0022		Description	Exterior, Man Door - Caulk, Soft, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Gray		100.00% Other	None Detected
Sample ID 402A 142400818-0023		Description	Exterior Double Doors - Caulk, Brittle Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray	None	95.20% Other	4.80% Chrysotile
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed

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EMSL Analytical, Inc.

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<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 402B 142400818-0024			Description Exterior Double Doors - Caulk, Brittle Grey		
			Homogeneity		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 403A 142400818-0025			Description Foundation - Tar, Black		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black	None	94.80% Other	5.20% Chrysotile
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 403B 142400818-0026			Description Foundation - Tar, Black		
			Homogeneity		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 404A 142400818-0027			Description Exterior, Green House 1 and 2 - Caulk, Flexible, Grey		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray	None	94.70% Other	5.30% Chrysotile
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 404B 142400818-0028			Description Exterior, Green House 1 and 2 - Caulk, Flexible, Grey		
			Homogeneity		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 405A 142400818-0029			Description Exterior, Green House 1 and 2 - Caulk, Flexible, White around Glass		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	White		100.00% Other	None Detected

Initial report from: 03/15/2024 11:28:05



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 405B <i>142400818-0030</i>		Description	Exterior, Green House 1 and 2 - Caulk, Flexible, White around Glass		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	White		100.00% Other	None Detected
Sample ID 406A <i>142400818-0031</i>		Description	Exterior, around Man Doors - Caulk, Brittle, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray	None	90.90% Other	9.10% Chrysotile
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 406B <i>142400818-0032</i>		Description	Exterior, around Man Doors - Caulk, Brittle, Grey		
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 408A <i>142400818-0033</i>		Description	Green House 1 and 2 - Caulk around Glass of Green House, underneath Metal Trim		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray	None	67.00% Other	33.00% Chrysotile
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 408B <i>142400818-0034</i>		Description	Green House 1 and 2 - Caulk around Glass of Green House, underneath Metal Trim		
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 409A <i>142400818-0035</i>		Description	Green House 1 and 2 - Glazing, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray	None	98.60% Other	1.40% Chrysotile
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 409B <i>142400818-0036</i>		Description	Green House 1 and 2 - Glazing, Grey		
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 501A <i>142400818-0037</i>		Description	Green House 1 and 2 - Table Tops		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray	None	80.00% Non-fibrous (other)	20.00% Chrysotile
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 501B <i>142400818-0038</i>		Description	Green House 1 and 2 - Table Tops		
		Homogeneity			
PLM NYS 198.1 Friable	03/13/2024				Positive Stop (Not Analyzed)
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 502A <i>142400818-0039</i>		Description	Green House 1 - Mud Elbows and Fittings, Wrap associated with 503		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Tan		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 502B <i>142400818-0040</i>		Description	Green House 1 - Mud Elbows and Fittings, Wrap associated with 503		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Tan		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 502C <i>142400818-0041</i>		Description	Green House 1 - Mud Elbows and Fittings, Wrap associated with 503		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 503A 142400818-0042		Description	Green House 1 - Mud Elbows and Fittings, associated with 504		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray	None	93.40% Non-fibrous (other)	6.60% Chrysotile
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 503B 142400818-0043		Description	Green House 1 - Mud Elbows and Fittings, associated with 504		
		Homogeneity			
PLM NYS 198.1 Friable	03/13/2024				Positive Stop (Not Analyzed)
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 503C 142400818-0044		Description	Green House 1 - Mud Elbows and Fittings, associated with 504		
		Homogeneity			
PLM NYS 198.1 Friable	03/13/2024				Positive Stop (Not Analyzed)
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 504A 142400818-0045		Description	Green House 1 - 3" Pipe Ins. Jacket, FG, Tar/Foil		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 504B 142400818-0046		Description	Green House 1 - 3" Pipe Ins. Jacket, FG, Tar/Foil		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 504C 142400818-0047		Description	Green House 1 - 3" Pipe Ins. Jacket, FG, Tar/Foil		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 505A 142400818-0048		Description	Green House 1 - 3" Pipe Ins. Jacket, FG, Paper/Foil/Tar		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 505B 142400818-0049		Description	Green House 1 - 3" Pipe Ins. Jacket, FG, Paper/Foil/Tar		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 505C 142400818-0050		Description	Green House 1 - 3" Pipe Ins. Jacket, FG, Paper/Foil/Tar		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 506A 142400818-0051		Description	Room B - Insulation on Rad Cover, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Black		100.00% Other	None Detected
Sample ID 506B 142400818-0052		Description	Room B - Insulation on Rad Cover, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Black		100.00% Other	None Detected
Sample ID 507A 142400818-0053		Description	Classrooms, above Ceiling - 12" Pipe Insulation for Roof Drains, Paper/Foil/Tar		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 507B 142400818-0054			Description Classrooms, above Ceiling - 12" Pipe Insulation for Roof Drains, Paper/Foil/Tar		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 507C 142400818-0055			Description Classrooms, above Ceiling - 12" Pipe Insulation for Roof Drains, Paper/Foil/Tar		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 508A 142400818-0056			Description Classrooms, above Ceiling - Mud Elbows and Fittings w/ Wrap for 8" Pipe Ins, FG, for Roof Drains, Aqua and White		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray	40.00% Glass	60.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 508B 142400818-0057			Description Classrooms, above Ceiling - Mud Elbows and Fittings w/ Wrap for 8" Pipe Ins, FG, for Roof Drains, Aqua and White		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray	40.00% Glass	60.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 508C 142400818-0058			Description Classrooms, above Ceiling - Mud Elbows and Fittings w/ Wrap for 8" Pipe Ins, FG, for Roof Drains, Aqua and White		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray	40.00% Glass	60.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 509A 142400818-0059			Description Classrooms, above Ceiling - End Cap, for 8" FG Pipe Insulation, for Roof Drains, Aqua and White		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Brown	50.00% Glass	50.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 509B <i>142400818-0060</i>		Description	Classrooms, above Ceiling - End Cap, for 8" FG Pipe Insulation, for Roof Drains, Aqua and White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray/ Green		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 509C <i>142400818-0061</i>		Description	Classrooms, above Ceiling - End Cap, for 8" FG Pipe Insulation, for Roof Drains, Aqua and White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 510A <i>142400818-0062</i>		Description	Classrooms, above Ceiling - Wrap for 8" FG Pipe Insulation, for Roof Drains, Paper/Foil/Tar Beige, Aqua, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 510B <i>142400818-0063</i>		Description	Classrooms, above Ceiling - Wrap for 8" FG Pipe Insulation, for Roof Drains, Paper/Foil/Tar Beige, Aqua, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 510C <i>142400818-0064</i>		Description	Classrooms, above Ceiling - Wrap for 8" FG Pipe Insulation, for Roof Drains, Paper/Foil/Tar Beige, Aqua, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 511A <i>142400818-0065</i>		Description	Classrooms - Duct Mastic, Tanish Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Gray		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 511B <i>142400818-0066</i>		Description	Classrooms - Duct Mastic, Tanish Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Gray		100.00% Other	None Detected
Sample ID 512A <i>142400818-0067</i>		Description	Classrooms - Mastic of Cork Tiles		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Tan		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Tan		100.00% Other	None Detected
Sample ID 512B <i>142400818-0068</i>		Description	Classrooms - Mastic of Cork Tiles		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Tan		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Tan		100.00% Other	None Detected
Sample ID 513A <i>142400818-0069</i>		Description	Classrooms, above Ceiling - 3" Pipe Insulation Wrap, Paper, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 513B <i>142400818-0070</i>		Description	Classrooms, above Ceiling - 3" Pipe Insulation Wrap, Paper, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 513C <i>142400818-0071</i>		Description	Classrooms, above Ceiling - 3" Pipe Insulation Wrap, Paper, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected

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Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 514A <i>142400818-0072</i>		Description	Basement - Paper Wrap, for New FG 8" FG Insulation, Supply and Return Hot Water Heat, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 514B <i>142400818-0073</i>		Description	Basement - Paper Wrap, for New FG 8" FG Insulation, Supply and Return Hot Water Heat, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 514C <i>142400818-0074</i>		Description	Basement - Paper Wrap, for New FG 8" FG Insulation, Supply and Return Hot Water Heat, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 515A <i>142400818-0075</i>		Description	Basement - Paper Wrap, 3" FG Insulation, Green		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 515B <i>142400818-0076</i>		Description	Basement - Paper Wrap, 3" FG Insulation, Green		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 515C <i>142400818-0077</i>		Description	Basement - Paper Wrap, 3" FG Insulation, Green		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected

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EMSL Analytical, Inc.

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 516A 142400818-0078		Description	Basement - Paper Wrap, Steam, 3" FG Insulation, Orange		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 516B 142400818-0079		Description	Basement - Paper Wrap, Steam, 3" FG Insulation, Orange		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 516C 142400818-0080		Description	Basement - Paper Wrap, Steam, 3" FG Insulation, Orange		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 517A 142400818-0081		Description	Basement - Paper Wrap, 3" thru 8" FG Insulation, Paper/Foil/Tar Tanish Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 517B 142400818-0082		Description	Basement - Paper Wrap, 3" thru 8" FG Insulation, Paper/Foil/Tar Tanish Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 517C 142400818-0083		Description	Basement - Paper Wrap, 3" thru 8" FG Insulation, Paper/Foil/Tar Tanish Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 518A <i>142400818-0084</i>			Description Basement - Mud Elbows and Fittings, 3" thru 8" FG Insulation, Tanish Brown		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 518B <i>142400818-0085</i>			Description Basement - Mud Elbows and Fittings, 3" thru 8" FG Insulation, Tanish Brown		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 518C <i>142400818-0086</i>			Description Basement - Mud Elbows and Fittings, 3" thru 8" FG Insulation, Tanish Brown		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 519A <i>142400818-0087</i>			Description Basement - Paper Wrap, 3" thru 8" FG Insulation, Abandoned in Place, HW Heat Supply and Return, Paper/Tar/Foil, Red		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 519B <i>142400818-0088</i>			Description Basement - Paper Wrap, 3" thru 8" FG Insulation, Abandoned in Place, HW Heat Supply and Return, Paper/Tar/Foil, Red		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 519C <i>142400818-0089</i>			Description Basement - Paper Wrap, 3" thru 8" FG Insulation, Abandoned in Place, HW Heat Supply and Return, Paper/Tar/Foil, Red		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 520A <i>142400818-0090</i>		Description	Basement - Mud Elbows and Fittings, 3" thru 8" FG Insulation, Abandoned in Place, HW Heat Supply and Return, Red		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 520B <i>142400818-0091</i>		Description	Basement - Mud Elbows and Fittings, 3" thru 8" FG Insulation, Abandoned in Place, HW Heat Supply and Return, Red		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 520C <i>142400818-0092</i>		Description	Basement - Mud Elbows and Fittings, 3" thru 8" FG Insulation, Abandoned in Place, HW Heat Supply and Return, Red		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 521A <i>142400818-0093</i>		Description	Basement - Mastic for Insulation on CB Walls, Cooler, Yellow		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Tan		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Tan		100.00% Other	None Detected
Sample ID 521B <i>142400818-0094</i>		Description	Basement - Mastic for Insulation on CB Walls, Cooler, Yellow		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Tan		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Tan		100.00% Other	None Detected
Sample ID 306A <i>142400818-0095</i>		Description	Bathroom - 1x1 Floor Tile Mortar		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 306B <i>142400818-0096</i>		Description	Bathroom - 1x1 Floor Tile Mortar		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 307A <i>142400818-0097</i>		Description	Bathroom - 1x1 Floor Tile Grout, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 307B <i>142400818-0098</i>		Description	Bathroom - 1x1 Floor Tile Grout, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 308A <i>142400818-0099</i>		Description	Bathroom - 4 x 12 Structured Glazed Tile, Grout, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 308B <i>142400818-0100</i>		Description	Bathroom - 4 x 12 Structured Glazed Tile, Grout, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 309A <i>142400818-0101</i>		Description	Bathroom - 4 x 12 Structured Glazed Tile, Mortar, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 309B <i>142400818-0102</i>		Description	Bathroom - 4 x 12 Structured Glazed Tile, Mortar, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 701A <i>142400818-0103</i>		Description	Lower Roof - Built-Up Roof, Black and Fiber Board, Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Black		100.00% Other	None Detected
Sample ID 702A <i>142400818-0104</i>		Description	Lower Roof - Built-Up Roof, Black and Fiber Board, Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Brown		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Brown		100.00% Other	None Detected
Sample ID 701B <i>142400818-0105</i>		Description	Upper Roof - Built-Up Roof, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Black		100.00% Other	None Detected
Sample ID 702B <i>142400818-0106</i>		Description	Upper Roof - Fiber Board, Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Brown		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Brown		100.00% Other	None Detected
Sample ID 703A <i>142400818-0107</i>		Description	Lower Roof - Felt, above Foam Insulation, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Black		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 703B 142400818-0108		Description	Upper Roof - Felt, above Foam Insulation, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Black		100.00% Other	None Detected
Sample ID 704A 142400818-0109		Description	Lower Roof - Felt, below Foam Insulation, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Brown/ Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Brown/ Black		100.00% Other	None Detected
Sample ID 704B 142400818-0110		Description	Upper Roof - Felt, below Foam Insulation, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Brown/ Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Brown/ Black		100.00% Other	None Detected
Sample ID 705A 142400818-0111		Description	Lower Roof - Fiber Board		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Brown		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Brown		100.00% Other	None Detected
Sample ID 705B 142400818-0112		Description	Upper Roof - Fiber Board		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Brown		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Brown		100.00% Other	None Detected
Sample ID 706A 142400818-0113		Description	Roof - Parapet Wall Caulk, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black	None	88.00% Other	12.00% Chrysotile
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 706B 142400818-0114		Description Roof - Parapet Wall Caulk, Black			
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 707A 142400818-0115		Description Roof - Caulk, Roof Flashing/Brick			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/15/2024	Gray		100.00% Other	None Detected
Sample ID 707B 142400818-0116		Description Roof - Caulk, Roof Flashing/Brick			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/15/2024	Gray		100.00% Other	None Detected
Sample ID 708A 142400818-0117		Description Roof - Silver Seal, Silver			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Silver	None	96.50% Other	3.50% Chrysotile
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 708B 142400818-0118		Description Roof - Silver Seal, Silver			
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 522A 142400818-0119		Description Basement - Hot Water Pipe Wrap, FG Ins. White			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	White/ Yellow		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/15/2024	White/ Yellow		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 522B 142400818-0120		Description	Basement - Hot Water Pipe Wrap, FG Ins. White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	White/ Yellow		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/15/2024	White/ Yellow		100.00% Other	None Detected
Sample ID 522C 142400818-0121		Description	Basement - Hot Water Pipe Wrap, FG Ins. White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	White/ Yellow		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/15/2024	White/ Yellow		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods . The reference number for these samples is the EMSL Order ID above . Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 3/8/2024
Analysis Completed Date: 3/13/2024

Sample Receipt Time: 5:00 PM
Analysis Completed Time: 1:30 PM

Analyst(s):

Jessica Kroczynski PLM NYS 198.1 Friable (29)

Jessica Kroczynski PLM NYS 198.6 NOB (80)

Jessica Kroczynski TEM NYS 198.4 NOB (71)

Samples reviewed and approved by:

Rhonda McGee, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis . Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos . Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government . 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. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

Initial report from: 03/15/2024 11:28:05



LiRo Engineers, Inc.

142400818

ENVIRONMENTAL & ENGINEERING SERVICES

690 Delaware Avenue
Buffalo, New York 14209
Tel. 716-882-5476 / Fax 716-882-9640

Bulk Sampling Chain of Custody Form

LiRo Job #: 23-191-0134
Job Name: Buffalo Botanical Gardens
Job Location: 2655 S Park Ave, Buffalo, NY 14218
Samples Taken by: R. Cich/ S.Norhan
Building /Site: Botanical Gardens

198.1
198.6
198.4

email results to: Colvini@liro.com
CICHR@LIRO.COM

Turn-Around-Time: ~~5 days~~ 1 Week
B6 3/8/24

ACM CODE	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	NOTES	QUANTITY
A	100A/101A	Green house 1	Drywall and joint compound, white	Analyze each layer separately	
	100B/101B			Analyze each layer separately	
B	201A	Room B	2X4 ceiling tile to look like 2x2, pock marked, white	Analyze each layer separately	
	201B	Room G		Analyze each layer separately	
C	300A/304A	Green house 1	4" cove w/mastic, Beige	Analyze each layer separately	
	300B/304B	Green house 2		Analyze each layer separately	
D	301A/305A	Basement	4" cove w/mastic, Black	Analyze each layer separately	
	301B/305B	Basement		Analyze each layer separately	
E	302A	Basement	12x12 floor tile, grey	Analyze floor tile only	
	302B	Basement		Analyze floor tile only	
E	303A	Basement	Mastic for sample 302A and 302B, Yellow	Positive stop	
	303B	Basement			

Comments: **First positive stop for each "ACM Code" Group.**

Analyze NYS friables via PLM only. Analyze NYS NOB via PLM to TEM.

Relinquished By (Signature) <i>[Signature]</i>	Date/Time 3/8/24 1700	Received By (Signature) <i>[Signature]</i>	Date/Time 3/8/24 5:00 PM
			WF

142400818



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ENVIRONMENTAL & ENGINEERING SERVICES

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 Buffalo, New York 14209
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 Turn-Around-Time: 5-day 1 Week
 B6 3/8/24

ACM CODE	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	NOTES	QUANTITY
F	400A	Exterior, Garage Door	Caulk, Soft, White		
	400B				
G	401A	Exterior, Man Door	Caulk, Soft, Grey		
	401B	Exterior, Man Door			
VV	402A	Exterior double doors	Caulk, Brittle Grey		
	402B				
H	403A	Foundation	Tar, black		
	403B	Foundation			
I	404A	exterior, green house 1 and 2	Caulk, Flexible, Grey		
	404B	exterior, green house 1 and 2			
J	405A	exterior, green house 1 and 2	Caulk, Flexible, White around glass		
	405B	exterior, green house 1 and 2			
K	406A	exterior, around man doors	Caulk, brittle, grey		
	406B	exterior, around man doors			

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BY: *[Signature]* S.DD
 WF

Comments: First positive stop for each "ACM Code" Group.

Analyze NYS friables via PLM only. Analyze NYS NOB via PLM to TEM.

Relinquished By: (Signature) <i>[Signature]</i>	Date / Time: 3/8/24 1700	Received By: (Signature)	Date / Time
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198.1
 198.4
 198.4

email results to: Colvin@liro.com
 CICH@LIRO.COM
 Turn-Around-Time: 5 days | Week

B6 018124

ACM CODE	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	NOTES	QUANTITY
L	408A	Green house 1 and 2	Caulk around glass of green house, underneath metal trim		
	408B				
M	409A	Green house 1 and 2	Glazing, grey		
	409B				
N	501A	Green house 1 and 2	Table tops		
	501B				
O	502A	Green house 1	Mud elbows and fittings, wrap associated with 503		
	502B				
	502C				
P	503A	Green house 1	Mud elbows and fittings, associated with 504		
	503B				
	503C				
Q	504A	Green house 1	3" pipe ins jacket, fg. Tar/foil		
	504B				
	504C				

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BY: [Signature] 5:00
 WF

Comments: First positive stop for each "ACM Code" Group.
 Analyze NYS friables via PLM only. Analyze NYS NOB via PLM to TEM.

Relinquished By (Signature): [Signature]	Date / Time: 3/8/24 1700
Received By (Signature):	Date / Time:



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 Building /Site: Botanical Gardens

email results to: Colvin@liro.com
 CICH@LIRO.COM
 Turn-Around-Time: 1 week
BG 3/8/24

142400818

198.1
 198.6
 198.4

ACM CODE	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	NOTES	QUANTITY
R	505A	Green house 1	3" pipe ins jacket, fg, paper /foil/ Tar		
	505B				
	505C				
S	506A	Room B	Insulation on Rad cover, Black		
	506B				
	507A				
T	507B	Class rooms , Above ceiling	12" Pipe insulation for roof drains, paper /foil/ Tar		
	507C				
	508A				
U	508B	Class rooms , Above ceiling	Mud elbows and fittings w/wrap for 8" pipe Ins, FG, for roof drains, aqua and white		
	508C				
	509A				
V	509B	Class rooms , Above ceiling	End cap, for 8" fg pipe insulation , for roof drains, aqua and white		
	509C				
	510A				
W	510B	Class rooms , Above ceiling	Wrap for 8" fg pipe insulation , for roof drains, paper /foil/ Tar beige, Aqua, white,		
	510C				

RECEIVED
 MAR 08 2024

BY: [Signature] 5:00
 --- WE

Comments: **First positive stop for each "ACM Code" Group.**
 Analyze NYS friables via PLM only. Analyze NYS NOB via PLM to TEM.

Relinquished By (Signature): <u>[Signature]</u>	Date / Time: <u>3/8/24 1700</u>	Received By (Signature):	Date / Time:
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CICHR@LIRO.COM

Turn-Around-Time: 5 days LNXX
BG 3/5/24

ACM CODE	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	NOTES	QUANTITY
X	511A	classrooms	Duct mastic, tannish brown		
	511B	classrooms	Mastic of cork tiles		
Y	512A	Class rooms , Above ceiling	3" Pipe insulation wrap, paper, white		
	512B				
	513A				
Z	513B	Basement	paper wrap, for new 8" fg Insulation, supply and return hot water heat, White		
	513C				
	514A				
AA	514B	Basement	paper wrap, 3" fg Insulation, Green		
	514C				
	515A				
BB	515B	Basement	paper wrap, steam, 3" fg Insulation, Orange		
	515C				
	516A				
CC	516B				
	516C				

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BY: [Signature] 5:00
WT

Comments: **First positive stop for each "ACM Code" Group.**

Analyze NYS friables via PLM only. Analyze NYS NOB via PLM to TEM.

Relinquished By (Signature) <u>[Signature]</u>	Date / Time <u>3/8/24 1700</u>	Received By (Signature)	Date / Time
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 Buffalo, New York 14209
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Bulk Sampling Chain of Custody Form



LiRo Job #: 23-191-0134
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 Building /Site: Botanical Gardens

198.1
 198.4
 198.4

email results to: colvini@liro.com
CICHR@LIRO.COM

Turn-Around-Time: 5 day - 1 week
By 3/8/24

ACM CODE	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	NOTES	QUANTITY
DD	517A	Basement	paper wrap, 3" thru 8" fg Insulation, paper/foil/ tar tannish brown		
	517B				
	517C				
EE	518A	Basement	Mud elbows and fittings, 3" thru 8" fg Insulation, tannish brown		
	518B				
	518C				
FF	519A	Basement	Paper wrap, 3" thru 8" fg Insulation, abandoned in place, HW heat supply and return, paper /tar/foil, red		
	519B				
	519C				
GG	520A	Basement	Mud elbows and fittings, 3" thru 8" fg Insulation, abandoned in place, HW heat supply and return, red		
	520B				
	520C				
HH	521A	Basement	Mastic for insulation on CB walls, cooler, yellow		
	521B				
II	306A	Bathroom	1x1 floor tile Motar		
	306B				

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BY: [Signature] S.W
 WE

Comments: **First positive stop for each "ACM Code" Group.**
 Analyze NYS friables via PLM only. Analyze NYS NOB via PLM to TEM.

Relinquished By (Signature) <u>[Signature]</u>	Date / Time <u>3/8/24 1700</u>	Received By (Signature)	Date / Time
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142400818

email results to: Colvin@liro.com
CICHR@LIRO.COM
 Turn-Around-Time: 5 day INCEK
B6 5/8/24

198.1
 198.6
 198.4

ACM CODE	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	NOTES	QUANTITY
JJ	307A	Bathroom	1x1 floor tile grout, Grey		
	307B				
KK	308A	Bathroom	4 x 12 Structured Glazed Tile , Grout, Grey		
	308B				
LL	309A	Bathroom	4 x 12 Structured Glazed Tile, Mortar, Grey		
	309B				
MM	701A/702A	Lower roof	Built up roof , Black and fiber board, Brown	I was unable to separate fiberboard from the built-up roof. Please analyze each layer separately.	
	701B	Upper roof	Built up roof, Black		
NN	702B	Upper roof	Fiber board, brown		
	703A	Lower roof	Felt, above foam insulation, Black		
OO	703B	Upper roof	Felt, above foam insulation, Black		
	704A	Lower roof	Felt, Below foam insulation, Black		
PP	704B	Upper roof	Felt, Below foam insulation, Black	Please analyze felt only	
	705A	Lower roof	Fiber board	Please analyze felt only	
QQ	705B	Upper roof	Fiber board		

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Comments: **First positive stop for each "ACM Code" Group.**

Analyze NYS finables via PLM only. Analyze NYS NOB via PLM to TEM.

Relinquished By (Signature)	Date / Time	Received By (Signature)	Date / Time
<i>[Signature]</i>	3/9/21 1700	<i>[Signature]</i>	MAR 08 2024
		BY: <i>[Signature]</i>	5:00 PM



**APPENDIX C:
Lead Paint Sample Chain of Custody
and Laboratory Results**

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410714
LIMS Reference ID: AC10714
EMSL Customer ID: LIRO50E

Attention: J Colvin
 Liro Engineers [LIRO50E]
 85 Allen Street
 Rochester, NY 14608
 (585) 322-3930

Project Name: 23-191-0134 / Buffalo Botanical Gardens 2655
 S. Park Ave., Buffalo, NY 14218 / Botanical
 Gardens

Customer PO:
EMSL Sales Rep: Jeromy Bish
Received: 03/12/2024 09:30
Reported: 03/18/2024 19:11

Analytical Results

Analyte	Results	RL	Weight(g)	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: BBG-LBP-01/Overhead Garage Door - Paint on Frame - Bluish Green - Steel							Date Sampled: 03/05/24		
Matrix: Chips							LIMS Reference ID: AC10714-01		
Lead	0.18 % wt	0.018 % wt	0.1139	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-02/Bollard in front of Mandoor - Paint on Bollard - Safety Yellow - Steel							Date Sampled: 03/05/24		
Matrix: Chips							LIMS Reference ID: AC10714-02		
Lead	0.035 % wt	0.008 % wt	0.2838	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-03/Exterior of Green House - Paint on Planting Tables, Green - Steel							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-03		
Lead	0.015 % wt	0.008 % wt	0.2712	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-04/GH#1 - Lintel and Station - Bluish Green							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-04		
Lead	0.074 % wt	0.011 % wt	0.18	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-05/Room B - Paint on Wall - Off-White - Gypsum Board							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-05		
Lead	<0.008 % wt	0.008 % wt	0.2538	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-06/Room B - Paint on Bottom of Roof Deck - Off-White - Steel							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-06		
Lead	0.18 % wt	0.008 % wt	0.2873	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-07/Room B - Paint on Wall - Beige - Concrete Block							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-07		
Lead	0.025 % wt	0.008 % wt	0.257	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-08/Room B - Paint on Conc Floor - Brown - Concrete							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-08		
Lead	0.012 % wt	0.008 % wt	0.2698	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-09/Room D - Paint on Conc Floor - Grey - Concrete							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-09		
Lead	<0.008 % wt	0.008 % wt	0.2876	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-10/Room D - Paint on Wall - Green - gypsum Board							Date Sampled: 03/06/24		

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 EMSL-CIN-01

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LIMS Reference ID: AC10714
EMSL Customer ID: LIRO50E

Attention: J Colvin
 Liro Engineers [LIRO50E]
 85 Allen Street
 Rochester, NY 14608
 (585) 322-3930

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 S. Park Ave., Buffalo, NY 14218 / Botanical
 Gardens

Customer PO:
EMSL Sales Rep: Jeromy Bish
Received: 03/12/2024 09:30
Reported: 03/18/2024 19:11

Analytical Results (Continued)

Analyte	Results	RL	Weight(g)	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: BBG-LBP-10/Room D - Paint on Wall - Green - gypsum Board							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-10		
Lead	<0.009 % wt	0.009 % wt	0.2288	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-11/Room E - Paint on Wall - Blue - Gypsum Board							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-11		
Lead	<0.008 % wt	0.008 % wt	0.2727	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-12/Room E - Paint on Conc Floor - DK Grey - Concrete							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-12		
Lead	0.024 % wt	0.008 % wt	0.2806	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-13/Room G - Paint on Wall - green - Gypsum Board							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-13		
Lead	0.022 % wt	0.008 % wt	0.2519	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-14/Room G - Paint on Wall - Lt Yellow - Gypsum Board							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-14		
Lead	<0.008 % wt	0.008 % wt	0.2761	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-15/Room G - Paint on Wall - Dk Yellow - Gypsum Board							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-15		
Lead	<0.008 % wt	0.008 % wt	0.2873	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									



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S. Park Ave., Buffalo, NY 14218 / Botanical
Gardens

Customer PO:
EMSL Sales Rep: Jeromy Bish
Received: 03/12/2024 09:30
Reported: 03/18/2024 19:11

Certified Analyses included in this Report

Analyte	Certifications
SW846-7000B in Chips	
Lead	AIHA LAP

List of Certifications

Code	Description	Number	Expires
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
NYSDOH	New York State Department of Health	10872	04/01/2024
California ELAP	California Water Boards	1877	06/30/2024
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024

Please see the specific Field of Testing (FOT) on www.emsl.com <<http://www.emsl.com>> for a complete listing of parameters for which EMSL is certified.



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EMSL-CIN-01

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S. Park Ave., Buffalo, NY 14218 / Botanical
Gardens

Customer PO:
EMSL Sales Rep: Jeromy Bish

Received: 03/12/2024 09:30

Reported: 03/18/2024 19:11

Notes and Definitions

Item	Definition
D	Analyte was reported from a dilution run.
Pb4	The QC sample duplicate RPD and MS recovery result for Lead was outside of the method control limits.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit For paint chips, the RL is 0.008% by wt. (equiv. to 80 mg/kg, or ppm) based upon a minimum sample weight of 0.25 grams. For soils, the RL is 40 mg/kg (ppm) based upon a minimum sample weight of 0.5 grams. For dust wipes, the RL is 10 µg/wipe; reporting units of µg/sq. ft. are not validated by the lab based upon data provided by non-lab personnel.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

Owen McKenna Laboratory Manager or other approved signatory

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Analysis following EMSL SOP for the Determination of Environmental Lead by FLAA. The laboratory has a reporting limit of 0.008% by wt., based upon a minimum sample weight of 0.25g submitted to the lab, and is not responsible for any result or reporting limit provided in mg/cm2 since it is dependent upon an area value provided by non-lab personnel. A "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty and definitions of modifications are available upon request. Results in this report are not blank corrected unless specified.



LiRo Engineers, Inc.
ENVIRONMENTAL & ENGINEERING SERVICES

690 Delaware Avenue
Buffalo, New York 14209
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Lead Sampling Chain of Custody Form

AC10714

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Samples Taken by: R. Cich/ S.Northan
Building /Site: Botanical Gardens

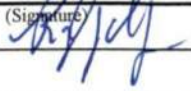
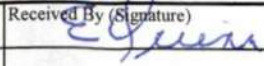
email results to: colvinj@liro.com
Cichr@liro.com

Turn-Around-Time: 1 week

SAMPLE NUMBER	SAMPLE TIME/DATE	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	COMPONENT	ANALYSIS
BBG-LBP-01	3/5/2024 1230	Overhead garage door	Paint on Frame, Bluish green	Steel	Lead Paint chip
BBG-LBP-02	3/5/2024 1300	Bollard in front of mandoor	Paint on bollard, safety yellow	Steel	Lead Paint chip
BBG-LBP-03	3/6/2024 0910	Exterior of Green house	Paint on Planting tables, green	Steel	Lead Paint chip
BBG-LBP-04	3/6/2024 1000	GH#1	Lintel and station , Blueish green	Steel	Lead Paint chip
BBG-LBP-05	3/6/2024 1100	Room B	Paint on Wall, Off white	Gypsum board	Lead Paint chip
BBG-LBP-06	3/6/2024 1130	Room B	Paint on bottom of roof deck, Off white	Steel	Lead Paint chip
BBG-LBP-07	3/6/2024 1230	Room B	Paint on Wall, Beige	Concrete block	Lead Paint chip
BBG-LBP-08	3/6/2024 1300	Room B	Paint on conc floor , brown	Concrete	Lead Paint chip
BBG-LBP-09	3/6/2024 1315	Room D	Paint on conc floor , Grey	Concrete	Lead Paint chip
BBG-LBP-10	3/6/2024 1330	Room D	Paint on Wall, Green	Gypsum board	Lead Paint chip
BBG-LBP-11	3/6/2024 1400	Room E	Paint on Wall, Blue	Gypsum board	Lead Paint chip
BBG-LBP-12	3/6/2024 1430	Room E	Paint on conc floor , DK Grey	Concrete	Lead Paint chip
BBG-LBP-13	3/6/2024 1445	Room G	Paint on Wall, Green	Gypsum board	Lead Paint chip
BBG-LBP-14	3/6/2024 1500	Room G	Paint on Wall, Lt. Yellow	Gypsum board	Lead Paint chip
BBG-LBP-15	3/6/2024 1530	Room G	Paint on Wall, Dk Yellow	Gypsum board	Lead Paint chip

Comments: **Please analyze for lead in paint via FLAA EPA Method SW-846-3050B or approved alternate method**

①5M

Relinquished By (Signature) 	Date / Time <u>3/11/24 1:50</u>	Received By (Signature)  FX	Date / Time <u>3-12-24 9:30</u>
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LiRo Engineers, Inc.
ENVIRONMENTAL & ENGINEERING SERVICES

690 Delaware Avenue
 Buffalo, New York 14209
 Tel. 716-882-5476 / Fax 716-882-9640

AC10714

Lead Sampling Chain of Custody Form

LiRo Job #: 23-191-0134
 Job Name: Buffalo Botanical Gardens
 Job Location: 2655 S Park Ave, Buffalo, NY 14218
 Samples Taken by: R. Cich/ S.Northan
 Building /Site: Botanical Gardens

email results to: colvinj@liro.com
Cichr@liro.com

Turn-Around-Time: 1 week

SAMPLE NUMBER	SAMPLE TIME/DATE	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	COMPONENT	ANALYSIS
BBG-LBP-01	3/5/2024 1230	Overhead garage door	Paint on Frame, Bluish green	Steel	Lead Paint chip
BBG-LBP-02	3/5/2024 1300	Bollard in front of mandoor	Paint on bollard, safety yellow	Steel	Lead Paint chip
BBG-LBP-03	3/6/2024 0910	Exterior of Green house	Paint on Planting tables, green	Steel	Lead Paint chip
BBG-LBP-04	3/6/2024 1000	GH#1	Lintel and station , Blueish green	Steel	Lead Paint chip
BBG-LBP-05	3/6/2024 1100	Room B	Paint on Wall, Off white	Gypsum board	Lead Paint chip
BBG-LBP-06	3/6/2024 1130	Room B	Paint on bottom of roof deck, Off white	Steel	Lead Paint chip
BBG-LBP-07	3/6/2024 1230	Room B	Paint on Wall, Beige	Concrete block	Lead Paint chip
BBG-LBP-08	3/6/2024 1300	Room B	Paint on conc floor , brown	Concrete	Lead Paint chip
BBG-LBP-09	3/6/2024 1315	Room D	Paint on conc floor , Grey	Concrete	Lead Paint chip
BBG-LBP-10	3/6/2024 1330	Room D	Paint on Wall, Green	Gypsum board	Lead Paint chip
BBG-LBP-11	3/6/2024 1400	Room E	Paint on Wall, Blue	Gypsum board	Lead Paint chip
BBG-LBP-12	3/6/2024 1430	Room E	Paint on conc floor , DK Grey	Concrete	Lead Paint chip
BBG-LBP-13	3/6/2024 1445	Room G	Paint on Wall, Green	Gypsum board	Lead Paint chip
BBG-LBP-14	3/6/2024 1500	Room G	Paint on Wall, Lt. Yellow	Gypsum board	Lead Paint chip
BBG-LBP-15	3/6/2024 1530	Room G	Paint on Wall, Dk Yellow	Gypsum board	Lead Paint chip

Comments: Please analyze for lead in paint via FLAA EPA Method SW-846-3050B or approved alternate method

15M

Relinquished By (Signature) <i>R. Cich</i>	Date / Time 3/11/24 1500	Received By (Signature) <i>E. Quinn FX</i>	Date / Time 3-12-24 9:30
---	-----------------------------	---	-----------------------------



**APPENDIX D:
PCB Sample Chain of Custody
and Laboratory Results**

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
EMSL-CIN-01

EMSL Order ID: 012410282**LIMS Reference ID:** AC10282**EMSL Customer ID:** LIRO50

March 19, 2024

Jason Colvin
The LiRo Group [LIRO50]
690 Delaware Avenue
Buffalo, NY 14209

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 3/12/2024. The results are tabulated on the attached pages for the following client designated project:

Buffalo Botanical Gardens - 23-191-0134

The reference number for these samples is EMSL Order #: AC10282 . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact the lab at 856-858-4800.

Owen McKenna Laboratory Manager or other approved signatory

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EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410282
LIMS Reference ID: AC10282
EMSL Customer ID: LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeromy Bish
Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature:** 21.1 °C

Custody Seals	Y
Containers Intact	Y
COC/Labels Agree	Y
Preservation Confirmed	Y

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410282**LIMS Reference ID:** AC10282**EMSL Customer ID:** LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish

Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AC10282-01	1-400 PCB	Solid	03/05/2024	03/12/2024
AC10282-02	2-401 PCB	Solid	03/05/2024	03/12/2024
AC10282-03	3-402 PCB	Solid	03/05/2024	03/12/2024
AC10282-04	4-404 PCB	Solid	03/05/2024	03/12/2024
AC10282-05	5-405 PCB	Solid	03/05/2024	03/12/2024
AC10282-06	6-408 PCB	Solid	03/05/2024	03/12/2024
AC10282-07	7-706 PCB	Solid	03/05/2024	03/12/2024
AC10282-08	8-707 PCB	Solid	03/05/2024	03/12/2024
AC10282-09	9-708 PCB	Solid	03/05/2024	03/12/2024

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410282**LIMS Reference ID:** AC10282**EMSL Customer ID:** LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish

Received: 03/12/2024 09:30**Reported:** 03/19/2024 16:58**Positive Hits Summary**

Lab ID	Client ID					Sampled
AC10282-06	6-408 PCB					03/05/24 12:00
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW846-8082A	Aroclor-1260	1.5		mg/kg	03/15/2024 17:56	
SW846-8082A	Aroclor-1254	4.7		mg/kg	03/15/2024 17:56	
Lab ID	Client ID					Sampled
AC10282-08	8-707 PCB					03/05/24 11:15
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW846-8082A	Aroclor-1254	1.9		mg/kg	03/15/2024 18:37	



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410282

LIMS Reference ID: AC10282

EMSL Customer ID: LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Sample Results

**Sample: 1-400 PCB/Exterior garage door soft white caulk
 AC10282-01 (Solid)**

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.45	mg/kg	03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.45	mg/kg	03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.45	mg/kg	03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.45	mg/kg	03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.45	mg/kg	03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.45	mg/kg	03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.45	mg/kg	03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.45	mg/kg	03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.45	mg/kg	03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>	38%			10-112		03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>	42%			10-123		03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted."



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410282

LIMS Reference ID: AC10282

EMSL Customer ID: LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Sample Results
 (Continued)

Sample: 2-401 PCB/Exterior Man Door Soft Grey Caulk
AC10282-02 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)		Recovery	Q	Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>		47%		10-112		03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>		48%		10-123		03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A

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**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410282

LIMS Reference ID: AC10282

EMSL Customer ID: LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Sample Results (Continued)

**Sample: 3-402 PCB/Exterior double doors Brittle grey caulk
 AC10282-03 (Solid)**

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)		Recovery	Q	Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>		64%		10-112		03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>		60%		10-123		03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410282

LIMS Reference ID: AC10282

EMSL Customer ID: LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Sample Results
 (Continued)

Sample: 4-404 PCB/Exterior green house 1 and 2 Flexible grey caulk
AC10282-04 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.34	mg/kg	03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.34	mg/kg	03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.34	mg/kg	03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.34	mg/kg	03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.34	mg/kg	03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.34	mg/kg	03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.34	mg/kg	03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.34	mg/kg	03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.34	mg/kg	03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)		Recovery	Q	Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>		46%		10-112		03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>		31%		10-123		03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A

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EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410282

LIMS Reference ID: AC10282

EMSL Customer ID: LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Sample Results
 (Continued)

Sample: 5-405 PCB/Exterior gree house 1 and 2 Flexible white around glass caulk
AC10282-05 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)		Recovery	Q	Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>		62%		10-112		03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>		60%		10-123		03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A

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EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410282

LIMS Reference ID: AC10282

EMSL Customer ID: LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Sample Results
 (Continued)

Sample: 6-408 PCB/Green house 1 and 2 Caulk
AC10282-06 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	4.7		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	1.5		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>	65%			10-112		03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>	72%			10-123		03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A

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 EMSL-CIN-01

EMSL Order ID: 012410282

LIMS Reference ID: AC10282

EMSL Customer ID: LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish

Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Sample Results
 (Continued)

Sample: 7-706 PCB/Exterior roof parapet wall caulk
AC10282-07 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.86	mg/kg	03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.86	mg/kg	03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.86	mg/kg	03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.86	mg/kg	03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.86	mg/kg	03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.86	mg/kg	03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.86	mg/kg	03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.86	mg/kg	03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.86	mg/kg	03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)		Recovery	Q	Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>		52%		10-112		03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>		46%		10-123		03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A

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 EMSL-CIN-01

EMSL Order ID: 012410282

LIMS Reference ID: AC10282

EMSL Customer ID: LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish

Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Sample Results
 (Continued)

Sample: 8-707 PCB/Roof caulk
AC10282-08 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	1.9		1	0.30	mg/kg	03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>	64%			10-112		03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>	57%			10-123		03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A

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 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410282

LIMS Reference ID: AC10282

EMSL Customer ID: LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Sample Results (Continued)

**Sample: 9-708 PCB/Roof silver seal
 AC10282-09 (Solid)**

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)		Recovery	Q	Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>		28%		10-112		03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>		26%		10-123		03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A

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 EMSL-CIN-01

EMSL Order ID: 012410282

LIMS Reference ID: AC10282

EMSL Customer ID: LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Quality Control**GC-SVOA**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	-------------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------

Batch: BCC0837 - SW846 3540C**Blank (BCC0837-BLK1)**

Prepared: 3/14/2024 Analyzed: 3/15/2024

Aroclor-1016	ND	0.25	mg/kg						
Aroclor-1221	ND	0.25	mg/kg						
Aroclor-1232	ND	0.25	mg/kg						
Aroclor-1242	ND	0.25	mg/kg						
Aroclor-1248	ND	0.25	mg/kg						
Aroclor-1254	ND	0.25	mg/kg						
Aroclor-1260	ND	0.25	mg/kg						
Aroclor-1262	ND	0.25	mg/kg						
Aroclor-1268	ND	0.25	mg/kg						

Surrogate(s)

Surrogate: Tetrachloro-m-xylene				0.5000		56	10-112		
Surrogate: Decachlorobiphenyl				0.5000		63	10-123		

LCS (BCC0837-BS1)

Prepared: 3/14/2024 Analyzed: 3/15/2024

Aroclor-1016	3.99	0.25	mg/kg	5.000		80	23-111		
Aroclor-1260	4.54	0.25	mg/kg	5.000		91	29-119		

Surrogate(s)

Surrogate: Tetrachloro-m-xylene				0.5000		77	10-112		
Surrogate: Decachlorobiphenyl				0.5000		87	10-123		

Matrix Spike (BCC0837-MS1)**Source: AC10288-02**

Prepared: 3/14/2024 Analyzed: 3/15/2024

Aroclor-1016	4.01	0.25	mg/kg	4.902	ND	82	10-111		
Aroclor-1260	6.88	0.25	mg/kg	4.902	2.96	80	10-132		

Surrogate(s)

Surrogate: Tetrachloro-m-xylene				0.4902		70	10-112		
Surrogate: Decachlorobiphenyl				0.4902		78	10-123		

Matrix Spike Dup (BCC0837-MSD1)**Source: AC10288-02**

Prepared: 3/14/2024 Analyzed: 3/15/2024

Aroclor-1016	3.59	0.24	mg/kg	4.854	ND	74	10-111	11	28
Aroclor-1260	6.46	0.24	mg/kg	4.854	2.96	72	10-132	6	28

Surrogate(s)

Surrogate: Tetrachloro-m-xylene				0.4854		60	10-112		
Surrogate: Decachlorobiphenyl				0.4854		72	10-123		

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 EMSL-CIN-01

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Attention: Jason Colvin
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 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Certified Analyses included in this Report

Analyte	CAS #	Certifications
<i>SW846-8082A in Solid</i>		
Aroclor-1016	12674-11-2	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1221	11104-28-2	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1232	11141-16-5	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1242	53469-21-9	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1248	12672-29-6	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1254	11097-69-1	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1254 [2C]	11097-69-1	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1260	11096-82-5	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1262	37324-23-5	NJDEP,NYSDOH,PADEP
Aroclor-1268	11100-14-4	NJDEP,NYSDOH,PADEP

List of Certifications

Code	Description	Number	Expires
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2024
NYSDOH	New York State Department of Health	10872	04/01/2024
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024
California ELAP	California Water Boards	1877	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024

Please see the specific Field of Testing (FOT) on www.emsl.com <<http://www.emsl.com>> for a complete listing of parameters for which EMSL is certified.

**EMSL Analytical, Inc.**

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Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Notes and Definitions

Item	Definition
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit
%REC	Percent Recovery
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

AC10282



LiRo Engineers, Inc.
ENVIRONMENTAL & ENGINEERING SERVICES

690 Delaware Avenue
 Buffalo, New York 14209
 Tel. 716-882-5476 / Fax 716-882-9640

Chain of Custody Form (PCB)

LiRo Job #: 23-191-0134
 Job Name: Buffalo Botanical Gardens
 Job Location: 2655 S Park Ave, Buffalo, NY 14218
 Samples Taken by: R. Cich/ S.Northan
 Building /Site: Botanical Gardens

email results to: colvinj@liro.com
cichr@liro.com

Turn-Around-Time: 1 week

1
2
3
4
5

HM#	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	DATE-TIME	QUANTITY
1	400 PCB	Exterior, Garage Door	Caulk, Soft, White	03/05/24 1215	
2	401 PCB	Exterior, Man Door	Caulk, Soft, Grey	03/05/24 1230	
3	402 PCB	Exterior double doors	Caulk , Brittle Grey	03/05/24 1245	
4	404 PCB	Exterior, green house 1 and 2	Caulk , Flexible , Grey	03/05/24 1300	
5	405 PCB	Exterior, green house 1 and 2	Caulk , Flexible, White around glass	03/05/24 1330	

Comments:

Analyze each of the composited samples for PCBs VIA EPA 8082.

Relinquished By (Signature) <i>[Signature]</i>	Date / Time <u>3/12/24 1500</u>	Received By (Signature) <i>[Signature]</i>	Date / Time <u>3/12/24 10:00</u>
--	---------------------------------	--	----------------------------------

Colleen Palladino
 9130
 21.10C rec'd in plastic

AC10282



LiRo Engineers, Inc.
ENVIRONMENTAL & ENGINEERING SERVICES

690 Delaware Avenue
 Buffalo, New York 14209
 Tel. 716-882-5476 / Fax 716-882-9640

Chain of Custody Form (PCB)

LiRo Job #: 23-191-0134
 Job Name: Buffalo Botanical Gardens
 Job Location: 2655 S Park Ave, Buffalo, NY 14218
 Samples Taken by: R. Cich/ S.Northan
 Building /Site: Botanical Gardens

email results to: colvinj@liro.com
cichr@liro.com

Turn-Around-Time: 1 week

6
7
8
9

HM#	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	DATE-TIME	QUANTITY
6	408 PCB	Green house 1 and 2	Caulk around glass of green house, underneath metal trim	03/05/24 1200	
7	706 PCB	Exterior, roof Parapet Wall	Parapet wall Caulk, Black	03/05/24 1100	
8	707 PCB	Roof	Caulk , roof flashing /brick	03/05/24 1115	
9	708 PCB	Roof	Silver Seal, Silver	03/05/24 1130	

Comments:

Analyze each of the composited samples for PCBs VIA EPA 8082.

Relinquished By (Signature) <i>[Signature]</i>	Date / Time 3/11/24 1500	Received By (Signature)	Date / Time

AC10282



LiRo Engineers, Inc.
ENVIRONMENTAL & ENGINEERING SERVICES

690 Delaware Avenue
 Buffalo, New York 14209
 Tel. 716-882-5476 / Fax 716-882-9640

Chain of Custody Form (PCB)

LiRo Job #: 23-191-0134
 Job Name: Buffalo Botanical Gardens
 Job Location: 2655 S Park Ave, Buffalo, NY 14218
 Samples Taken by: R. Cich/ S.Northan
 Building /Site: Botanical Gardens

email results to: colvinj@liro.com

cichr@liro.com

Turn-Around-Time: 1 week

HM#	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	DATE-TIME	QUANTITY
1	400 PCB	Exterior, Garage Door	Caulk, Soft, White	03/05/24 1215	
2	401 PCB	Exterior, Man Door	Caulk, Soft, Grey	03/05/24 1230	
3	402 PCB	Exterior double doors	Caulk , Brittle Grey	03/05/24 1245	
4	404 PCB	Exterior, green house 1 and 2	Caulk , Flexible , Grey	03/05/24 1300	
5	405 PCB	Exterior, green house 1 and 2	Caulk , Flexible, White around glass	03/05/24 1330	

Comments:

Analyze each of the composited samples for PCBs VIA EPA 8082.

Relinquished By (Signature) <i>[Signature]</i>	Date / Time 3/12/24 1500	Received By (Signature) <i>[Signature]</i>	Date / Time 3/12/24 10:00
---	-----------------------------	---	------------------------------

Colleen Palladino

9130

21.10C
 rec'd in
 plastic

[Signature]



AC10282

LiRo Engineers, Inc.
ENVIRONMENTAL & ENGINEERING SERVICES

690 Delaware Avenue
Buffalo, New York 14209
Tel. 716-882-5476 / Fax 716-882-9640

Chain of Custody Form (PCB)

LiRo Job #: 23-191-0134
Job Name: Buffalo Botanical Gardens
Job Location: 2655 S Park Ave, Buffalo, NY 14218
Samples Taken by: R. Cich/ S.Northan
Building /Site: Botanical Gardens

email results to: colvinj@liro.com
cichr@liro.com

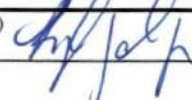
Turn-Around-Time: 1 week

6
7
8
9

HM#	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	DATE-TIME	QUANTITY
6	408 PCB	Green house 1 and 2	Caulk around glass of green house, underneath metal trim	03/05/24 1200	
7	706 PCB	Exterior, roof Parapet Wall	Parapet wall Caulk, Black	03/05/24 1100	
8	707 PCB	Roof	Caulk , roof flashing /brick	03/05/24 1115	
9	708 PCB	Roof	Silver Seal, Silver	03/05/24 1130	

Comments:

Analyze each of the composited samples for PCBs VIA EPA 8082.

Relinquished By (Signature) 	Date / Time 3/10/24 1500	Received By (Signature)	Date / Time

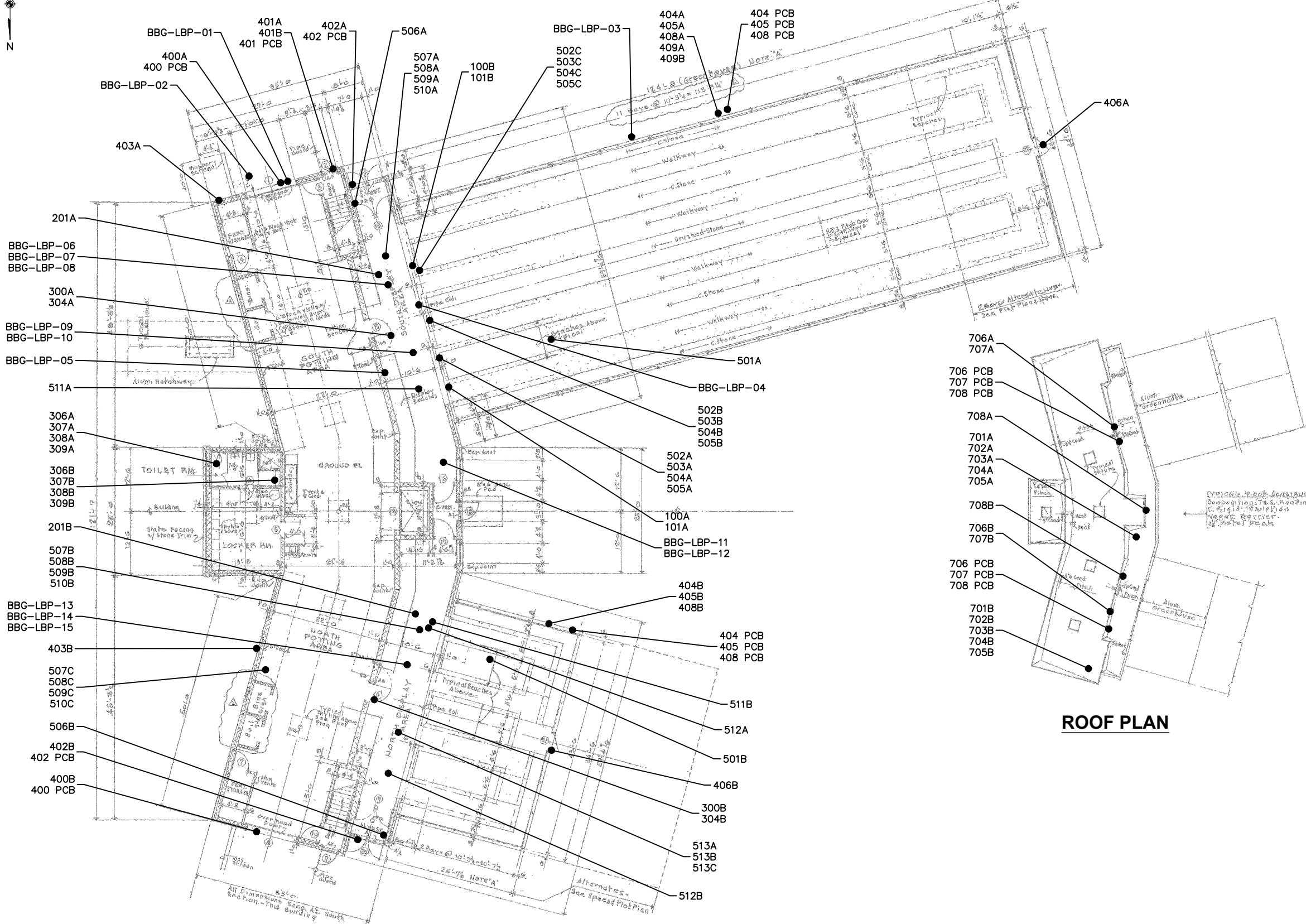


**APPENDIX E:
Sample Location Drawings**



LEGEND

XXX - BULK SAMPLE LOCATION



GROUND FLOOR PLAN

ROOF PLAN



W:\Erie County\23-191-0134 - ECDP\H-Foil Botanical Gardens\Design\BSL\BOTANICAL GARDENS BSL.dwg 3/22/2024 10:52 AM

WARNING
 IT IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, OTHER THAN THOSE WHOSE SEAL APPEARS ON THIS DRAWING, TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NO.	DATE	DESCRIPTION
REVISIONS		



PROJ. ENG.:	CLIENT:	
DESIGNED BY:	FoitAlbert ASSOCIATES Architecture, Engineering, Surveying, Environmental. <small>355 Main Street, Suite 200 / Buffalo, New York 14205 / 716.856.3533 / www.foit-albert.com</small>	
CHECKED BY:		
DRAWN BY:	DATE:	SCALE:
A.M.K.	MARCH 2024	AS SHOWN

JOB TITLE AND LOCATION:	LIRO JOB NO.:
BUFFALO & ERIE COUNTY BOTANICAL GARDENS GROW HOUSE	22-095-0127
DRAWING TITLE:	SHEET OF
BULK SAMPLE LOCATION PLAN GROUND FLOOR AND ROOF PLAN	1 OF 2
	DRAWING NO.:
	BSL-1



LEGEND

XXX - BULK SAMPLE LOCATION



FOUNDATION PLAN

0 6 12 24
APPROXIMATE SCALE IN FEET

W:\Erie County\23-191-0134 - ECDPPI-Foil Botanical Gardens\Design\BSL\BOTANICAL GARDENS BSL.dwg 3/22/2024 10:52 AM

WARNING
IT IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, OTHER THAN THOSE WHOSE SEAL APPEARS ON THIS DRAWING, TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NO.	DATE	DESCRIPTION
REVISIONS		



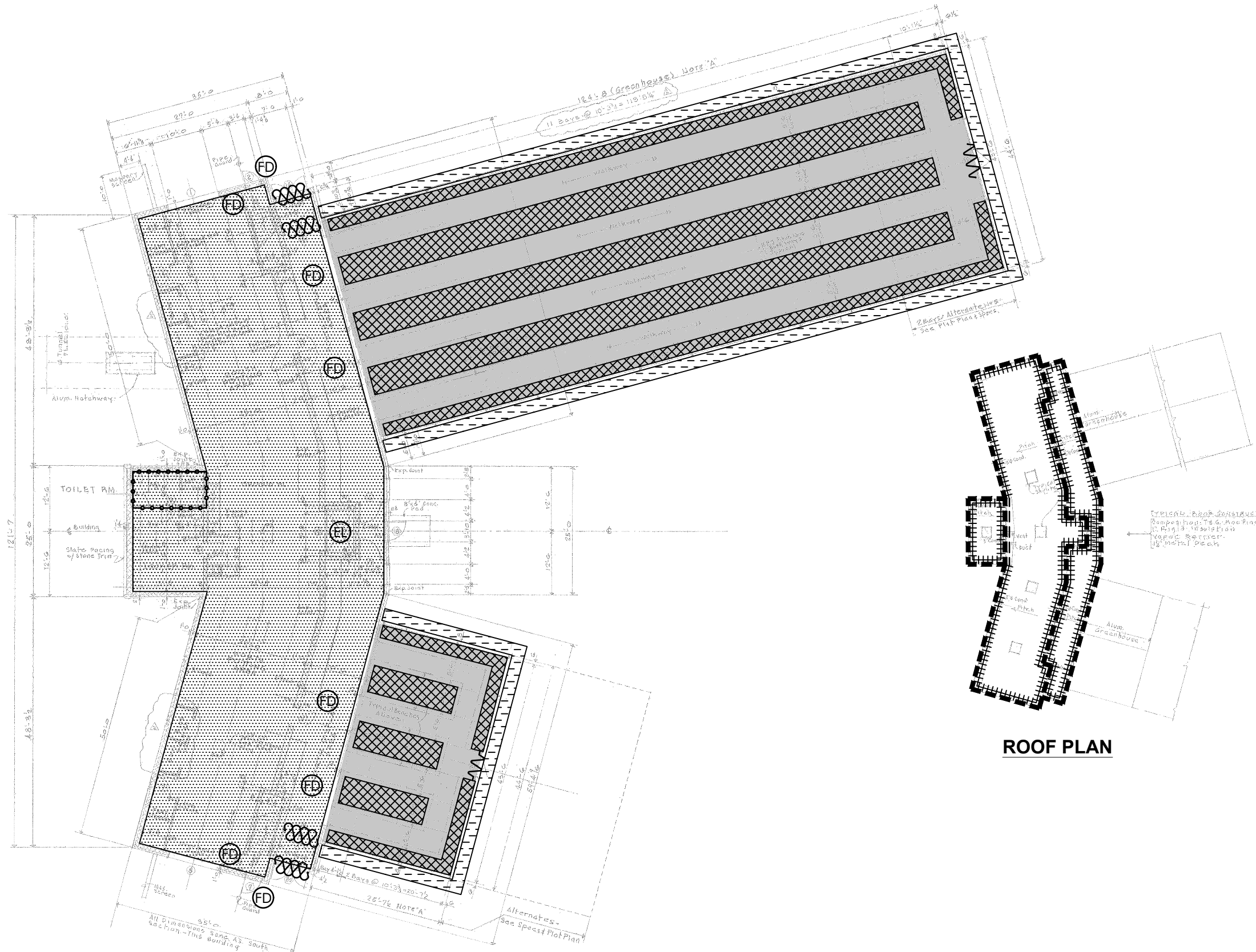
LiRo Engineers, Inc.
690 Delaware Ave.
Buffalo, New York

PROJ. ENG.:	CLIENT:	
DESIGNED BY:	FoitAlbert ASSOCIATES Architecture. Engineering. Surveying. Environmental. <small>355 Main Street, Suite 200 / Buffalo, New York 14205 / 716.856.3533 / www.foit-albert.com</small>	
CHECKED BY:		
DRAWN BY:	DATE:	SCALE:
A.M.K.	MARCH 2024	AS SHOWN

JOB TITLE AND LOCATION:	LIRO JOB NO.:
BUFFALO & ERIE COUNTY BOTANICAL GARDENS GROW HOUSE	22-095-0127
DRAWING TITLE:	SHEET OF
BULK SAMPLE LOCATION PLAN FOUNDATION PLAN	2 OF 2
	DRAWING NO.:
	BSL-2



**APPENDIX F:
Hazardous Materials Location Drawings**



GROUND FLOOR PLAN

ROOF PLAN

LEGEND

ASBESTOS CONTAINING MATERIAL:

- CAULK, GRAY, DOUBLE DOORS (10 SF)
- CAULK, GRAY, BETWEEN GLASS AND CONCRETE (5 SF)
- CAULK, GRAY, AROUND MAN DOOR (3 SF)
- CAULK, GRAY, AROUND GLASS, UNDER METAL TRIM AND ASSOCIATED GLAZING (150 SF)
- TABLE TOP SURFACES (3,500 SF)
- MUD ELBOWS, JOINTS, AND HANGER FITTINGS (100 SF)
- SILVER SEAL AT ROOF FLASHING, SILVER (670 SF)
- CAULK, BLACK, PARAPET WALL PERIMETER (10 SF)
- FIRE DOOR (ASSUMED) (10 EACH)
- ELEVATOR BRAKES (ASSUMED) (1 PAIR)
- WATERPROOFING MEMBRANE (ASSUMED) (120 SF)



WARNING
 IT IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, OTHER THAN THOSE WHOSE SEAL APPEARS ON THIS DRAWING, TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NO.	DATE	DESCRIPTION
REVISIONS		



LiRo Engineers, Inc.
 890 Delaware Ave.
 Buffalo, New York

PROJ. ENG.:

DESIGNED BY:

CHECKED BY:

DRAWN BY:
A.M.K.

CLIENT:



DATE:

APRIL 2024

SCALE:

AS SHOWN

JOB TITLE AND LOCATION:

BUFFALO & ERIE COUNTY BOTANICAL GARDENS
 GROW HOUSE

DRAWING TITLE:

ASBESTOS CONTAINING MATERIALS LOCATION PLAN
 GROUND FLOOR AND ROOF PLAN

LIRO JOB NO.:

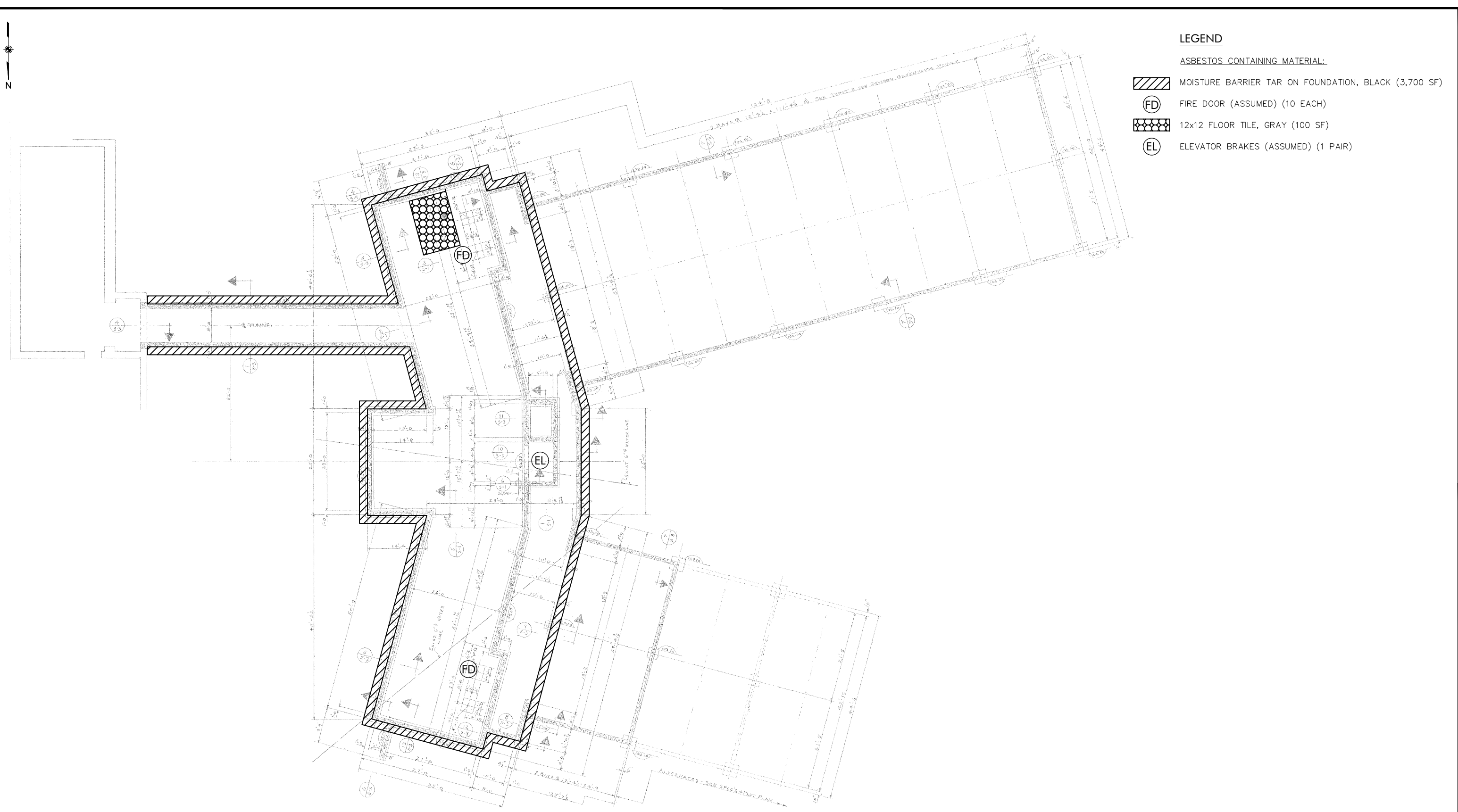
22-095-0127

SHEET OF

1 OF 2


DRAWING NO.


ACM-1




LEGEND

ASBESTOS CONTAINING MATERIAL:

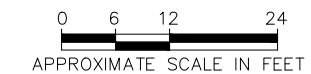
 MOISTURE BARRIER TAR ON FOUNDATION, BLACK (3,700 SF)

 FIRE DOOR (ASSUMED) (10 EACH)

 12x12 FLOOR TILE, GRAY (100 SF)

 ELEVATOR BRAKES (ASSUMED) (1 PAIR)

FOUNDATION PLAN



V:\Erie County\23-191-0134 - ECDPPH-Foil Botanical Gardens\Design\ACM\BOTANICAL GARDENS ACM.dwg 4/29/2024 10:19 AM

WARNING
IT IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, OTHER THAN THOSE WHOSE SEAL APPEARS ON THIS DRAWING, TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NO.	DATE	DESCRIPTION
REVISIONS		



LiRo Engineers, Inc.
890 Delaware Ave.
Buffalo, New York

PROJ. ENG.:	CLIENT:	
DESIGNED BY:	FoitAlbert ASSOCIATES Architecture. Engineering. Surveying. Environmental. <small>385 Main Street, Suite 200 / Buffalo, New York 14203 / 716.856.9933 / www.foit-albert.com</small>	
CHECKED BY:		
DRAWN BY:	DATE:	SCALE:
A.M.K.	APRIL 2024	AS SHOWN

JOB TITLE AND LOCATION:	LIRO JOB NO.:
BUFFALO & ERIE COUNTY BOTANICAL GARDENS GROW HOUSE	22-095-0127
DRAWING TITLE:	SHEET OF
ASBESTOS CONTAINING MATERIALS LOCATION PLAN FOUNDATION PLAN	2 OF 2
	DRAWING NO.:
	ACM-2



**APPENDIX G:
Certifications and Accreditations**

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



SARAH A NORTHAN

CLASS(EXPIRES)

C ATEC(06/24) D INSP(06/24)

H PM (06/24)

CERT# 20-17407

DMV# 677814216

MUST BE CARRIED ON ASBESTOS PROJECTS



01213 006775847 48

EYES HAZ

HAIR BRO

HGT 5' 03"

IF FOUND RETURN TO:

NYS DOL - L&C UNIT

ROOM 161A BUILDING 12

STATE OFFICE CAMPUS

ALBANY NY 12240

United States Environmental Protection Agency

This is to certify that



Sarah A Northan

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires March 11, 2027

LBP-R-I219512-1

Certification #

February 25, 2024

Issued On



A handwritten signature in black ink that reads "Ben Conetta".

Ben Conetta, Chief

Chemicals and Multimedia Programs Branch



IF FOUND, RETURN TO:
NYS DOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12226

01213 007019917 94

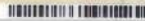
STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



RAYMOND J CICH
CLASS(EXPIRES)
C ATEC (08/24) D INSP (08/24)
H PM (08/24)

CERT# 23-6L6T3-SHAB
DMV# 986739677

MUST BE CARRIED ON ASBESTOS PROJECTS



United States Environmental Protection Agency

This is to certify that



Raymond J Cich Jr.

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires February 22, 2026

LBP-R-I211348-2

Certification #

October 26, 2022

Issued On



A handwritten signature in black ink that reads "Ben Conetta".

Ben Conetta, Chief

Chemicals and Multimedia Programs Branch

WE ARE YOUR DOL



Department
of Labor

DIVISION OF SAFETY & HEALTH LICENSE AND CERTIFICATE UNIT, STATE OFFICE CAMPUS, BLDG. 12, ALBANY, NY 12226

ASBESTOS HANDLING LICENSE

LiRo Engineers, Inc.

690 Delaware Avenue, Buffalo, NY, 14209

License Number: 28866

License Class: RESTRICTED

Date of Issue: 11/15/2023

Expiration Date: 12/31/2024

Duly Authorized Representative: Robert Kreuzer

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

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

A handwritten signature in black ink, appearing to read "Amy Phillips".

Amy Phillips, Director
For the Commissioner of Labor

EXCELSIOR



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Laboratory ID: LAP-100194

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

<input checked="" type="checkbox"/>	INDUSTRIAL HYGIENE	Accreditation Expires: January 01, 2025
<input checked="" type="checkbox"/>	ENVIRONMENTAL LEAD	Accreditation Expires: January 01, 2025
<input checked="" type="checkbox"/>	ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires: January 01, 2025
<input type="checkbox"/>	FOOD	Accreditation Expires:
<input type="checkbox"/>	UNIQUE SCOPES	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

A handwritten signature in cursive script that reads 'Cheryl O. Morton'.

Cheryl O Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC



AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Laboratory ID: LAP-100194

Issue Date: 01/01/2023

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

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

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 01/18/1995

Component, parameter or characteristic tested	Technology sub-type/Detector	Method	Method Description <i>(for internal methods only)</i>
Airborne Dust	AA	NIOSH 7082	N/A
Composited Wipes	AA	EPA SW-846 3050B	N/A
		EPA SW-846 7000B	N/A
Paint	AA	EPA SW-846 3050B	N/A
		EPA SW-846 7000B	N/A
Settled Dust by Wipe	AA	EPA SW-846 3050B	N/A
		EPA SW-846 7000B	N/A
Soil	AA	EPA SW-846 3050B	N/A
		EPA SW-846 7000B	N/A

A complete listing of currently accredited ELLAP laboratories is available on the AIHA LAP, LLC website at: <http://www.aihaaccreditedlabs.org>



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Laboratory ID: LAP-100194

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

<input checked="" type="checkbox"/>	INDUSTRIAL HYGIENE	Accreditation Expires: January 01, 2025
<input checked="" type="checkbox"/>	ENVIRONMENTAL LEAD	Accreditation Expires: January 01, 2025
<input checked="" type="checkbox"/>	ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires: January 01, 2025
<input type="checkbox"/>	FOOD	Accreditation Expires:
<input type="checkbox"/>	UNIQUE SCOPES	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

A handwritten signature in cursive script that reads 'Cheryl O. Morton'.

Cheryl O Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC



AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Laboratory ID: LAP-100194

Issue Date: 01/01/2023

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: 02/01/1989

IHLAP Scope Category	Field of Testing (FOT)	Technology sub-type/Detector	Published Reference Method/Title of In-house Method	Component, parameter or characteristic tested
Asbestos/Fiber Microscopy Core	Phase Contrast Microscopy (PCM)	-	NIOSH 7400	Asbestos/Fibers
Asbestos/Fiber Microscopy Core	Polarized Light Microscopy (PLM)	-	EPA 600/R-93/116	Asbestos & Other Fibers in Bulk
Asbestos/Fiber Microscopy Core	Transmission Electron Microscopy (TEM)	-	EPA AHERA - 40 CFR Part 763	Asbestos
Asbestos/Fiber Microscopy Core	Transmission Electron Microscopy (TEM)	-	NIOSH 7402	Asbestos/Fibers
Chromatography Core	GC/MS	-	EPA TO-15	Volatile Organic Compounds
Chromatography Core	Gas Chromatography	GC/ECD	NIOSH 5502 Modified	Aldrin & Lindane
Chromatography Core	Gas Chromatography	GC/ECD	NIOSH 5503 Modified	Polychlorinated biphenyls
Chromatography Core	Gas Chromatography	GC/ECD	NIOSH 5510 Modified	Chlordane
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 1003 Modified	Halogenated Hydrocarbons
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 1005 Modified	Methylene Chloride
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 1400 Modified	Alcohols
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 1500 Modified	Hydrocarbons
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 1501 Modified	Aromatic Hydrocarbons
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 1550 Modified	Total Petroleum Hydrocarbons
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 1603 Modified	Acetic Acid
Chromatography Core	Gas Chromatography	GC/FID	NIOSH 2000 Modified	Methyl Alcohol
Chromatography Core	Gas Chromatography (Diffusive Samplers)	-	NIOSH 1501	Aromatic Hydrocarbons

Effective: 06/07/2022

Revision: 9.2

Page 1 of 2



IHLAP Scope Category	Field of Testing (FOT)	Technology sub-type/Detector	Published Reference Method/Title of In-house Method	Component, parameter or characteristic tested
Chromatography Core	Ion Chromatography (IC)	-	NIOSH 6004 Modified	Sulfur Dioxide/Sulfate
Chromatography Core	Ion Chromatography (IC)	-	NIOSH 6011	Chlorine & Bromine
Chromatography Core	Ion Chromatography (IC)	-	NIOSH 7903	Inorganic Acids
Chromatography Core	Ion Chromatography (IC)	-	OSHA ID-214	Ozone
Chromatography Core	Ion Chromatography (IC)	-	OSHA ID-215 (Version 2) Modified	Hexavalent Chromium
Chromatography Core	Liquid Chromatography	HPLC/FL	NIOSH 2016	Formaldehyde
Chromatography Core	Liquid Chromatography	HPLC/UV	NIOSH 5506 Modified	Polynuclear Aromatic Hydrocarbons (PAHs)
Chromatography Core	Liquid Chromatography	LC/MS	NIOSH 9111 Modified	Methamphetamines
Miscellaneous Core	Gravimetric	-	NIOSH 0500	Total Dust
Miscellaneous Core	Gravimetric	-	NIOSH 0600	Respirable Dust
Miscellaneous Core	Gravimetric	-	NIOSH 5524	Metal Working Fluids
Miscellaneous Core	Thermo-optical Analysis (TOA)	-	NIOSH 5040	Elemental Carbon
Spectrometry Core	Atomic Absorption	CVAA	NIOSH 6009 Modified	Mercury
Spectrometry Core	Atomic Absorption	CVAA	OSHA ID-140 Modified	Mercury vapor
Spectrometry Core	Atomic Absorption	CVAA	OSHA ID-145	Mercury particulate
Spectrometry Core	Atomic Absorption	FAA	NIOSH 7082	Lead
Spectrometry Core	Inductively-Coupled Plasma	ICP/AES	NIOSH 7300 Modified	Lead
Spectrometry Core	Inductively-Coupled Plasma	ICP/MS	NIOSH 7300 Modified	Lead
Spectrometry Core	UV/VIS (Colorimetric)	-	NIOSH 6010	Hydrogen Cyanide
Spectrometry Core	X-ray Diffraction (XRD)	-	NIOSH 7500	Silica
Spectrometry Core	X-ray Diffraction (XRD)	-	OSHA ID-142	Silica

A complete listing of currently accredited IHLAP laboratories is available on the AIHA LAP, LLC website at: <http://www.aihaaccreditedlabs.org>

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2024
Issued April 01, 2023
Revised April 26, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

*MS. RHONDA R. MCGEE
EMSL ANALYTICAL INC
490 ROWLEY ROAD
DEPEW, NY 14043*

NY Lab Id No: 11606

*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

Serial No.: 67800

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at <https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/>, by phone (518) 485-5570 or by email to elap@health.ny.gov.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2024
Issued April 01, 2023
Revised July 25, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. OWEN MCKENNA
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

*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
Asbestos-Vermiculite-Containing Mate	Item 198.8 of Manual
Lead in Dust Wipes	EPA 7000B
Lead in Paint	EPA 7000B

Sample Preparation Methods

EPA 3050B
EPA 3051A

Serial No.: 67932

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at <https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/>, by phone (518) 485-5570 or by email to elap@health.ny.gov.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2024
Issued April 01, 2023
Revised January 05, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. OWEN MCKENNA
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Acrylates

Acrolein (Propenal)	EPA 8260D
Acrylonitrile	EPA 8260D

Characteristic Testing

Corrosivity (pH)	EPA 9045D
Free Liquids	EPA 9095B
Synthetic Precipitation Leaching Proc.	EPA 1312
TCLP	EPA 1311

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D
Hexachloroethane	EPA 8260D

Metals I

Barium, Total	EPA 6010D
Cadmium, Total	EPA 6010D
Calcium, Total	EPA 6010D
Chromium, Total	EPA 6010D
Copper, Total	EPA 6010D
Iron, Total	EPA 6010D
Lead, Total	EPA 6010D EPA 7000B
Magnesium, Total	EPA 6010D
Manganese, Total	EPA 6010D
Nickel, Total	EPA 6010D
Potassium, Total	EPA 6010D
Silver, Total	EPA 6010D
Sodium, Total	EPA 6010D
Strontium, Total	EPA 6010D

Serial No.: 68188

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2024
Issued April 01, 2023
Revised January 05, 2024

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. OWEN MCKENNA
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Metals II

Aluminum, Total	EPA 6010D
Antimony, Total	EPA 6010D
Arsenic, Total	EPA 6010D
Beryllium, Total	EPA 6010D
Lithium, Total	EPA 6010D
Mercury, Total	EPA 7471B
Selenium, Total	EPA 6010D
Vanadium, Total	EPA 6010D
Zinc, Total	EPA 6010D

Metals III

Cobalt, Total	EPA 6010D
Molybdenum, Total	EPA 6010D
Thallium, Total	EPA 6010D
Tin, Total	EPA 6010D
Titanium, Total	EPA 6010D

Minerals

Bromide	EPA 9056A
Chloride	EPA 9056A
Fluoride, Total	EPA 9056A
Sulfate (as SO4)	EPA 9056A

Miscellaneous

Boron, Total	EPA 6010D
	EPA 6020B

Nutrients

Nitrate (as N)	EPA 9056A
Nitrite (as N)	EPA 9056A

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Nutrients

Orthophosphate (as P) EPA 9056A

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016) EPA 8082A
Aroclor 1221 (PCB-1221) EPA 8082A
Aroclor 1232 (PCB-1232) EPA 8082A
Aroclor 1242 (PCB-1242) EPA 8082A
Aroclor 1248 (PCB-1248) EPA 8082A
Aroclor 1254 (PCB-1254) EPA 8082A
Aroclor 1260 (PCB-1260) EPA 8082A
Aroclor 1262 (PCB-1262) EPA 8082A
Aroclor 1268 (PCB-1268) EPA 8082A

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile EPA 8260D
1,2,4-Trimethylbenzene EPA 8260D
1,2-Dichlorobenzene EPA 8260D
1,3,5-Trimethylbenzene EPA 8260D
1,3-Dichlorobenzene EPA 8260D
1,4-Dichlorobenzene EPA 8260D
2-Chlorotoluene EPA 8260D
4-Chlorotoluene EPA 8260D
Benzene EPA 8260D
Bromobenzene EPA 8260D
Chlorobenzene EPA 8260D
Ethyl benzene EPA 8260D
Isopropylbenzene EPA 8260D
m/p-Xylenes EPA 8260D

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Volatile Aromatics

Naphthalene, Volatile	EPA 8260D
n-Butylbenzene	EPA 8260D
n-Propylbenzene	EPA 8260D
o-Xylene	EPA 8260D
p-Isopropyltoluene (P-Cymene)	EPA 8260D
sec-Butylbenzene	EPA 8260D
Styrene	EPA 8260D
tert-Butylbenzene	EPA 8260D
Toluene	EPA 8260D
Total Xylenes	EPA 8260D

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260D
1,1,1-Trichloroethane	EPA 8260D
1,1,2,2-Tetrachloroethane	EPA 8260D
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
1,1,2-Trichloroethane	EPA 8260D
1,1-Dichloroethane	EPA 8260D
1,1-Dichloroethene	EPA 8260D
1,1-Dichloropropene	EPA 8260D
1,2,3-Trichloropropane	EPA 8260D
1,2-Dibromo-3-chloropropane	EPA 8260D
1,2-Dibromoethane	EPA 8260D
1,2-Dichloroethane	EPA 8260D
1,2-Dichloropropane	EPA 8260D
1,3-Dichloropropane	EPA 8260D
2,2-Dichloropropane	EPA 8260D
2-Chloroethylvinyl ether	EPA 8260D

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All approved analytes are listed below:*

Volatile Halocarbons

Bromochloromethane	EPA 8260D
Bromodichloromethane	EPA 8260D
Bromoform	EPA 8260D
Bromomethane	EPA 8260D
Carbon tetrachloride	EPA 8260D
Chloroethane	EPA 8260D
Chloroform	EPA 8260D
Chloromethane	EPA 8260D
cis-1,2-Dichloroethene	EPA 8260D
cis-1,3-Dichloropropene	EPA 8260D
Dibromochloromethane	EPA 8260D
Dibromomethane	EPA 8260D
Dichlorodifluoromethane	EPA 8260D
Hexachlorobutadiene, Volatile	EPA 8260D
Methyl iodide	EPA 8260D
Methylene chloride	EPA 8260D
Tetrachloroethene	EPA 8260D
trans-1,2-Dichloroethene	EPA 8260D
trans-1,3-Dichloropropene	EPA 8260D
trans-1,4-Dichloro-2-butene	EPA 8260D
Trichloroethene	EPA 8260D
Trichlorofluoromethane	EPA 8260D
Vinyl chloride	EPA 8260D

Volatile Organics

2-Butanone (Methylethyl ketone)	EPA 8260D
2-Hexanone	EPA 8260D
4-Methyl-2-Pentanone	EPA 8260D

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Volatile Organics

Acetone	EPA 8260D
Acetonitrile	EPA 8260D
Carbon Disulfide	EPA 8260D
Ethylene Glycol	EPA 8015C
Methyl acetate	EPA 8260D
Methyl tert-butyl ether	EPA 8260D
tert-butyl alcohol	EPA 8260D
Vinyl acetate	EPA 8260D

Sample Preparation Methods

EPA 5035A-L
EPA 5035A-H
EPA 9030B
EPA 3010A
EPA 3005A
EPA 3050B
EPA 3550C
EPA 3540C
EPA 3546
EPA 3585
EPA 3060A
EPA 3541
EPA 9010C

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United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200056-0

EMSL Analytical, Inc.
Depew, NY

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

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2023-07-01 through 2024-06-30

Effective Dates

A handwritten signature in blue ink, appearing to read "Dana S. Haman".

For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EMSL Analytical, Inc.

490 Rowley Road

Depew, NY 14043

Ms. Rhonda McGee

Phone: (716) 651-0030 Fax: (716) 651-0394

Email: rmcgee@emsl.com

<http://www.emsl.com/>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200056-0

Bulk Asbestos Analysis

Code

Description

18/A01

EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

18/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

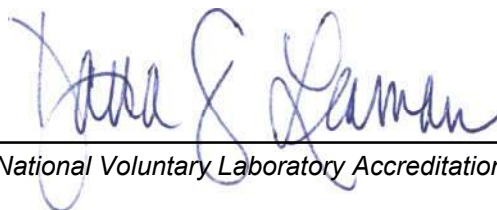
Airborne Asbestos Analysis

Code

Description

18/A02

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



For the National Voluntary Laboratory Accreditation Program



**APPENDIX H:
Photographic Log**

Photographic Log:



Caulk around Double doors, White – Asbestos Containing Material



Caulk, Gray, Greenhouse 1 and 2, between Glass and Concrete –Asbestos Containing Material



Caulking for Glass, Under Metal Trim - Asbestos Containing Material



Tabletop Surface Slabs - Asbestos Containing Material



**Mudded Joint Fitting associated with 504 -
Asbestos Containing Material**





**12x12" Floor Tile, Gray –
Asbestos Containing Material**




**Silver Seal, Silver - Asbestos Containing
Material**



**Silver Seal, Silver - Asbestos Containing
Material**

	
<p>Caulk, Parapet Wall, Black,- Asbestos Containing Material</p>	<p>Caulk, Expansion Joint Non-Asbestos Containing Material</p>

	
<p>Waterproof Membrane under ceramic floor tile, Assumed Asbestos Containing Material</p>	<p>2x4 Ceiling Tile, Non-Asbestos Containing Material</p>

**Asbestos Containing Materials and Hazardous
Materials Inspection Report**

For

**Buffalo & Erie County Botanical Gardens
Grow House**

Prepared For:

**Foit-Albert Associates Architecture,
Engineering and Surveying, P.C.
295 Main Street, Suite 200
Buffalo, NY 14203**

Prepared By:



LiRo Engineers, Inc.
A LiRo Group Company

**690 Delaware Avenue
Buffalo, NY 14209**

April 26, 2024



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- Appendix E: Sample Location Drawings
- Appendix F: Hazardous Materials Location Drawings
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1.0 Executive Summary

At the request of Foit-Albert Associates Architecture (Foit), LiRo Engineers, Inc. (LiRo) has performed an inspection for the presence or absence of Asbestos Containing Materials (ACM), Lead-Based Paint (LBP), and polychlorinated biphenyl (PCB) containing building materials at the grow house at the Buffalo and Erie County Botanical Gardens located at 2655 South Park Ave, Buffalo, New York.

1.1 Asbestos Containing Materials

LiRo conducted asbestos bulk sampling at the site on March 5, 6, and 7, 2024.

The following materials have been identified as Asbestos Containing Material (ACM):

Exterior :

- **Caulk, Gray, Double doors - 10 SF - Intact/Non-Friable**
- **Moisture Barrier Tar on Foundation - 3700 SF- Intact/Non-Friable**
- **Caulk, Gray, Greenhouse 1 and 2, between Glass and Concrete - 5 SF - Intact/Non-Friable**
- **Caulk, Gray, Single Man door (Exterior and Interior)- 3 SF - Damaged/Non-Friable**
- **Caulk, Gray, and associated Glazing, Gray, Greenhouse 1 and 2 Caulking for Glass, Under Metal Trim - 150 SF Damaged/Non-Friable**

Interior:

Greenhouses 1 and 2

- **Table Tops Surfaces, Greenhouse 1 and 2, - 3500 SF - Intact/Non-Friable**

Throughout Building

- **Mud Elbows, Joints and Hanger Fittings - 100 SF - Intact/Friable**
- **Fire Doors*, 10 Each - Intact/Friable**

Basement:

- **12x12" Floor Tile, Gray - 100 SF - Intact/Friable**
- **Elevator Brake*, 1 pair - Intact/Friable**

Bathroom:

- **Waterproofing Membrane* - 120 SF - Intact/Friable**

Roof:

- **Caulk, Black, Parapet Wall, Perimeter - 10 SF - Intact/Non-Friable**
- **Silver Seal, Silver, Perimeter of Roofs - 670 SF - Intact/Non-Friable**

***Assumed ACM. Not sampled due to inaccessibility.**

Analytical results indicate that **all other materials sampled throughout the several buildings were NOT Asbestos Containing Materials.**

1.2 Lead Based Paint

In conjunction with the Asbestos Survey, LiRo conducted sampling of paint chips throughout the grow house from surfaces which may be impacted. Lead-Paint (LBP) sampling was conducted on March 5th and 6th, 2024. LBP was not identified in the sampled coatings, however, low levels of lead in paint below the regulatory threshold for determination as Lead-based paint (0.5% by weight) were detected in the following:

Exterior :

- **Overhead garage door, Paint on Frame, Bluish green**
- **Bollard in front of Man door, Paint on bollard, Safety Yellow**
- **Green houses, Paint on Planting Tables, Green**

Interior:

- Lintel and station, blueish green
- Paint on bottom of roof deck, off white
- Paint on Wall, Beige
- Paint on Concrete Floor, Brown
- Paint on Concrete Floor, Dark Gray
- Paint on Wall, Green

These levels are below federal guidelines for determination as lead-based paint materials, however, according to OSHA 29 CFR 1926.62, the lead in construction standard, as there are detectable levels of lead present, the potential for the creation of lead dust/contamination does exist. All paint dust, chips and other debris shall require cleaning utilizing wet methods. All work shall be performed in accordance with OSHA 29 CFR 1926.62 (the OSHA Lead Exposure in Construction Rule).

1.3 Polychlorinated biphenyls

Polychlorinated biphenyls (PCBs) were frequently used in the production of building products such as caulks and window glazing compounds used during building construction, renovation, and repair activities from the 1950s through 1978. The United States Environmental Protection Agency (EPA) regulates building materials containing PCBs at concentrations greater than or equal to 50 parts per million (ppm) as PCB bulk product waste. PCB bulk product wastes require disposal in accordance with 40 CFR 761.62.

On March 5th, 6th, and 7th, LiRo collected samples of suspect building materials identified across the grow house as potentially containing PCBs. **No materials were determined to contain PCBs at concentrations greater or equal to 50 ppm.** However, the following materials were determined to contain PCBs at concentrations <50 ppm. These materials do not meet the criteria of PCB bulk product waste and therefore do not require disposal as a regulated waste. However, due to the presence of low levels of PCBs in the material, all personnel handling these materials should be made aware of the presence of PCBs and be provided with appropriate personal protective equipment (PPE) to limit the risk of exposure.

- Caulk, Gray, Greenhouse 1 and 2 Caulking for Glass, Under Metal Trim
- Caulk, Black, Parapet Wall, Perimeter

2.0 Field Survey Procedures and Sample Analysis Methods

Guidelines used for the asbestos inspection were established by the Environmental Protection Agency (EPA) in the Guidance for Controlling Asbestos Containing Materials in Buildings, Office of Pesticides and Toxic Substances, Doc 560/5-85-024, and 40 CFR Part 763, Asbestos Hazard Emergency Response Act (AHERA).

Field information was organized in accordance with the AHERA methodology of homogenous area (HA). During the survey, reasonable effort was made to identify all locations and types of ACM materials associated with the scope of work. Sampling has included multiple samples of the same materials chosen at random. However, due to inconsistencies of a manufacturer's processes and the contractor's installation methods, materials of similar construction may contain various amounts of asbestos. Furthermore, some materials that were not originally specified to contain asbestos may in fact contain this mineral.

Bulk samples of suspect ACM were analyzed using polarized light microscopy (PLM) coupled with dispersion staining, as described in 40 CFR Part 763 and the National Emissions Standard for Hazardous Air Pollutants (NESHAPS). NESHAPS is the standard industry protocol for the determination of asbestos in building materials. A suspect material is immersed in a solution of known refractive index and subjected to illumination by polarized light. The color displays that result are compared to a standardized atlas whereby the specific variety of asbestos is determined. It should also be recognized that PLM is primarily a qualitative

identification method whereby asbestos percentage, if any, is estimated. While EPA and New York State regulations governing ACM consider materials containing greater than 1-percent as asbestos, accurately quantifying asbestos content below 5-percent has been shown to be unreliable.

The New York State Department of Health has revised the PLM Stratified Point Counting Method. The new method, "Polarized Light Microscopy Methods for Identifying and Quantifying Asbestos in Bulk Samples" can be found as item 198.1 in the Environmental Laboratory Approval program (ELAP) Certification manual. The method specifies a procedure of analysis for bulk samples that fall into the category of "Non-friable Organically Bound" (NOB). This category includes any sample in a flexible to rigid asphalt or vinyl matrix (floor tiles, mastic, roofing shingles, roofing felt, etc.). Additional materials that may fall into this category are textured paints and stucco, pipe valve and joint packing, and a variety of other applications. These samples must be "ashed" in a muffle furnace at 480-degrees Celsius (to remove organic matrix), treated with acid (to remove any mineral carbonate), and filtered through a 0.4-micron filter before being analyzed by PLM. The sample must be weighted between each of these steps to track the percent loss of organic matrix.

ELAP has determined that analysis of NOB materials is not reliably performed by PLM. Therefore, if PLM yields results of 1-percent asbestos or less, the result must be confirmed by TEM. Bulk samples that undergo TEM analysis use the sample reduction methodology stated above for NOB analysis by PLM. ELAP certified laboratories must include the following statement with their PLM analysis results for each "negative" (1-percent or less asbestos) NOB sample: "Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-ACM, confirmation must be made by quantitative transmission electron microscopy".

All asbestos bulk samples were initially analyzed by Polarized Light Microscopy. Samples which yielded a negative PLM result, and which are classified as a "non-friable" material were then re-analyzed utilizing Transmission Electron Microscopy methodology described above. Laboratory analysis of asbestos bulk samples was performed by EMSL Analytical, Inc. located at 490 Rowley Rd, Depew, NY 14043.

Lead Paint Samples were analyzed via EPA Method 7000B. PCB samples were analyzed via EPA Method 8082A. All Lead Paint and PCB samples were also analyzed by EMSL Analytical Inc. located at 200 Route 130 North, Cinnaminson, NJ 08077.

3.0 Inspection Scope and Material Assessment Results

The intent of this inspection was to locate and identify potential hazardous materials that may be impacted by the demolition or renovation of the grow house facility at the Buffalo and Erie County Botanical Gardens. A general site plan is included as Figure 1.

LiRo conducted sampling for Asbestos Containing Materials (ACM), Lead-Based Paint (LBP) and polychlorinated bi-phenyl (PCB) containing building materials. All sample locations are illustrated on Drawings included in Appendix E of this report. The approximate locations of identified ACM are shown on Drawings HM-1 through HM-2 included in Appendix F of this report.

3.1 Asbestos Containing Materials

Asbestos bulk sampling was conducted by Raymond Cich (certification #23-6L6T3-SHAB) and Sarah Northan (certification #20-17407) of LiRo on March 5th, 6th, and 7th, 2024. Based upon visual inspection and bulk sample analysis results, **the following materials have been identified as ACM (greater than 1% asbestos):**



Hazardous Materials Inspection Report

Exterior :

- Caulk, Gray, Double doors - 10 SF - Intact/Non-Friable
- Moisture Barrier Tar on Foundation - 3700 SF- Intact/Non-Friable
- Caulk, Gray, Greenhouse 1 and 2, between Glass and Concrete - 5 SF - Intact/Non-Friable
- Caulk, Gray, Single Man door (Exterior and Interior)- 3 SF - Damaged/Non-Friable
- Caulk, Gray, and associated Glazing, Gray, Greenhouse 1 and 2 Caulking for Glass, Under Metal Trim - 150 SF Damaged/Non-Friable

Interior:

Greenhouses 1 and 2

- Table Tops Surfaces, Greenhouse 1 and 2, - 3500 SF - Intact/Non-Friable

Throughout Building

- Mud Elbows, Joints and Hanger Fittings - 100 SF - Intact/Friable
- Fire Doors*, 10 Each - Intact/Friable

Basement:

- 12x12" Floor Tile, Gray - 100 SF - Intact/Friable
- Elevator Brake*, 1 pair - Intact/Friable

Bathroom:

- Waterproofing Membrane* - 120 SF - Intact/Friable

Roof:

- Caulk, Black, Parapet Wall, Perimeter - 10 SF - Intact/Non-Friable
- Silver Seal, Silver, Perimeter of Roofs - 670 SF - Intact/Non-Friable

*Assumed ACM. Not sampled due to inaccessibility.

A complete summary of all asbestos bulk samples collected, and their corresponding analytical results is provided in Appendix A. Laboratory report forms for the asbestos analysis are included in Appendix B. Photographs are included in Appendix H of this report.

3.2 Lead-Based Paint

In conjunction with the Asbestos Survey, LiRo conducted a sampling of paint chips throughout the grow house facility from surfaces which may be impacted. Lead-Based Paint (LBP) sampling was conducted on March 5th and 6th, 2024. LBP was not identified in the sampled coatings, however, low levels of lead in paint below the regulatory threshold for determination as Lead-based paint (0.5% by weight) were detected in the following:

Exterior :

- Overhead garage door, Paint on Frame, Bluish green
- Bollard in front of Man door, Paint on bollard, Safety Yellow
- Green houses, Paint on Planting Tables, Green

Interior:

- Greenhouse #1, Lintel and station, blueish green
- Room B, Paint on bottom of roof deck, off white
- Room B, Paint on Wall, Beige
- Room B, Paint on Concrete Floor, Brown
- Room E, Paint on Concrete Floor, Dark Gray
- Room G, Paint on Wall, Green

These levels are below federal guidelines for determination as lead-based paint materials, however, according to OSHA 29 CFR 1926.62, the lead in construction standard, as there are detectable levels of lead present, the potential for the creation of lead dust/contamination does exist. All paint dust, chips and other debris shall require cleaning utilizing wet methods. All work shall be performed in accordance with OSHA 29 CFR 1926.62 (the OSHA Lead Exposure in Construction Rule).

A summary of LBP sampling results is included in the table below. Laboratory reports of the paint chip analysis are provided in Appendix C.

Lead-Based Paint Analytical Results Summary				
Sample ID	Sample Location	Color	Substrate	Lead Concentration
BBG-LBP-1	Overhead Garage Door	Bluish Green	Steel	0.18%
BBG-LBP-2	South Man Door Bollard	Safety Yellow	Steel	0.035%
BBG-LBP-3	Planting Tables, Greenhouse Exterior	Green	Steel	0.015%
BBG-LBP-4	Greenhouse #1 Lintel & Station	Bluish Green	Steel	0.074%
BBG-LBP-5	Wall Paint, Room B	Off-White	Gypsum Board	<0.008%
BBG-LBP-6	Underside of Roof Deck, Room B	Off-White	Steel	0.18%
BBG-LBP-7	Wall Paint, Room B	Beige	CMU Block	0.025%
BBG-LBP-8	Floor Paint, Room B	Brown	Concrete	0.012%
BBG-LBP-9	Floor Paint, Room D	Gray	Concrete	<0.008%
BBG-LBP-10	Wall Paint, Room D	Green	Gypsum Board	<0.009%
BBG-LBP-11	Wall Paint, Room E	Blue	Gypsum Board	<0.008%
BBG-LBP-12	Floor Paint, Room E	Dark Gray	Concrete	0.024%
BBG-LBP-13	Wall Paint, Room G	Green	Gypsum Board	0.022
BBG-LBP-14	Wall Paint, Room G	Light Yellow	Gypsum Board	<0.008%
BBG-LBP-15	Wall Paint, Room G	Dark Yellow	Gypsum Board	<0.008%

3.3 Polychlorinated Biphenyls

On March 5th, 6th, and 7th, 2024, LiRo collected samples of suspect building materials identified throughout the Grow House facility. **No materials were determined to contain PCBs at concentrations greater or equal to 50 ppm. (The threshold for determination as PCB bulk product waste.)** However, the following materials were determined to contain PCBs at concentrations <50 ppm. These materials do not meet the criteria of PCB bulk product waste and therefore do not require disposal as regulated waste. However, due to

the presence of low levels of PCBs in the material, all personnel handling these materials should be made aware of the presence of PCBs and be provided with appropriate personal protective equipment (PPE) to limit the risk of exposure.

- Caulk, Gray, Greenhouse 1 and 2 Caulking for Glass, Under Metal Trim
- Caulk, Black, Parapet Wall, Perimeter

A summary of the PCB sampling results is included in the below table. PCB sampling laboratory report forms are included in Appendix D.

PCB in Building Material Analysis Summary			
Sample ID	Location	Material	PCB Result
400 PCB	Exterior, Garage Door	Caulk, Soft, White	ND
401 PCB	Exterior, Man Door	Caulk, Soft, Grey	ND
402 PCB	Exterior, Double Doors	Caulk , Brittle Grey	ND
404 PCB	Exterior, Greenhouse 1 and 2	Caulk , Flexible , Grey	ND
405 PCB	Exterior, Greenhouse 1 and 2	Caulk , Flexible, White around glass	ND
408 PCB	Greenhouses 1 & 2, under metal trim	Glass Windows Caulk	6.2 PPM
706 PCB	Roof Parapet Wall	Parapet Wall Caulk, Black	ND
707 PCB	Roof & Exterior Brick Walls	Caulk, Roof Flashing & Brick Expansion Seams	1.9 PPM
708 PCB	Roof	Silver Seal, Silver	ND

Notes:

- ppm: parts per million
- ND: Not Detected

- **BOLD: indicates EPA PCB Bulk product waste (greater than or equal to 50 ppm)**

4.0 Areas Not Accessible

During the inspection, the following areas were not accessible:

- Void Spaces within Walls: No destructive sampling was performed on concealed spaces in walls to access plenum, chases, etc. It should be assumed that asbestos-containing materials may exist in these areas. Any suspect materials encountered during work should be sampled for analysis before work continues.
- Under mortar of ceramic floor tile: Coring of the mortar bed associated with the ceramic floor was NOT performed. It should be assumed that an asbestos-containing waterproofing membrane may exist below the mortar bed. Any suspect materials encountered during work should be sampled for analysis before work continues.



- Elevator Shaft: No destructive sampling was performed on the elevator. It should be assumed that asbestos-containing materials may exist in this area. Any suspect materials encountered during work should be sampled for analysis before work continues.

5.0 Conclusions and Recommendations

5.1 Asbestos Containing Materials

The following ACM materials have been identified in our survey effort. Any of these materials impacted will require removal and disposal in accordance with all applicable federal, state, and local regulations including 40 CFR Part 61 (EPA National Emission Standard for Air Pollutants), 29 CFR Part 1910 (OSHA Asbestos), and OSHA Part 1926 (OSHA Construction).

The following materials have been identified as Asbestos Containing Material (ACM):

Exterior :

- Caulk, Gray, Double doors - 10 SF - Intact/Non-Friable
- Moisture Barrier Tar on Foundation - 3700 SF- Intact/Non-Friable
- Caulk, Gray, Greenhouse 1 and 2, between Glass and Concrete - 5 SF - Intact/Non-Friable
- Caulk, Gray, Single Man door (Exterior and Interior)- 3 SF - Damaged/Non-Friable
- Caulk, Gray, and associated Glazing, Gray, Greenhouse 1 and 2 Caulking for Glass, Under Metal Trim - 150 SF Damaged/Non-Friable

Interior:

Greenhouses 1 and 2

- Table Tops Surfaces, Greenhouse 1 and 2, - 3500 SF - Intact/Non-Friable

Throughout Building

- Mud Elbows, Joints and Hanger Fittings - 100 SF - Intact/Friable
- Fire Doors*, 10 Each - Intact/Friable

Basement:

- 12x12" Floor Tile, Gray - 100 SF - Intact/Friable
- Elevator Brake*, 1 pair - Intact/Friable

Bathroom:

- Waterproofing Membrane* - 120 SF - Intact/Friable
- Caulk, Black, Parapet Wall, Perimeter - 10 SF - Intact/Non-Friable
- Silver Seal, Silver, Perimeter of Roofs - 670 SF - Intact/Non-Friable
- Assumed ACM. Not sampled due to inaccessibility.

5.2 Lead Based Paint

No lead-based paint is expected to be disturbed by this project. However, low levels of lead below the threshold for determination as LBP (0.5% by weight) were detected in the following coatings.

Exterior :

- Overhead garage door, Paint on Frame, Bluish green
- Bollard in front of Man door, Paint on bollard, Safety Yellow
- Green houses, Paint on Planting Tables, Green



Interior:

- Greenhouse #1, Lintel and station, blueish green
- Room B, Paint on bottom of roof deck, off white
- Room B, Paint on Wall, Beige
- Room B, Paint on Concrete Floor, Brown
- Room E, Paint on Concrete Floor, Dark Gray
- Room G, Paint on Wall, Green

These levels are below federal guidelines for determination as lead-based paint materials, however, according to OSHA 29 CFR 1926.62, the lead in construction standard, as there are detectable levels of lead present, the potential for the creation of lead dust/contamination does exist. All paint dust, chips and other debris shall require cleaning utilizing wet methods. All work shall be performed in accordance with OSHA 29 CFR 1926.62 (the OSHA Lead Exposure in Construction Rule).



5.3 Polychlorinated biphenyls

Polychlorinated biphenyls (PCBs) were frequently used in the production of building products such as caulks and window glazing compounds used during building construction, renovation and repair activities from the 1950s through 1978. The United States Environmental Protection Agency (EPA) regulates building materials containing PCBs at concentrations greater than or equal to 50 parts per million (ppm) as PCB bulk product waste. PCB bulk product wastes require disposal in accordance with 40 CFR 761.62.

LiRo collected samples of suspect building materials identified throughout the grow house facility. **No materials were determined to contain PCBs at concentrations greater or equal to 50 ppm. (The threshold for determination as PCB bulk product waste.)** However, the following materials were determined to contain PCBs at concentrations <50 ppm. These materials do not meet the criteria of PCB bulk product waste and therefore do not require disposal as a regulated waste. However, due to the presence of low levels of PCBs in the material, all personnel handling these materials should be made aware of the presence of PCBs and be provided with appropriate personal protective equipment (PPE) to limit the risk of exposure.

- Caulk, Gray, Greenhouse 1 and 2 Caulking for Glass, Under Metal Trim
- Caulk, Black, Parapet Wall, Perimeter



**APPENDIX A:
Asbestos Sample Analysis Results
In Tabular Form**

Hazardous Materials Inspection Report

APPENDIX A
SAMPLE ANALYSIS RESULTS IN TABULAR FORM
Buffalo & Erie County Botanical Gardens - Grow House
2655 South Park Ave, Buffalo, New York

Homo. Material ID.	Sample No.	Location	Material	Quantity	PLM Result	TEM Result	Condition (I/D/SD)	Friable (Yes/No)
N/A	N/A	Throughout Building	Fire Doors	10 Each	Assumed		I	Y
N/A	N/A	Bathroom	Waterproof Membrane	120 SF	Assumed		I	N
N/A	N/A	Elevator	Brakes	1 pair	Assumed		I	N
A	100A / 101A	Greenhouse 1	Gypsum Board & Joint Compound, White	N/A	NAD	NA	N/A	N/A
	100B / 101B				NAD	NA		
B	201A	Room B	2x4' Ceiling Tile, divided to look like 2x2', Pockmarked, White	N/A	NAD	NAD	N/A	N/A
	201B	Room G			NAD	NAD		
C	300A / 304A	Greenhouse 1	4" Cove Base comingled with Mastic, Beige	N/A	NAD	NAD	N/A	N/A
	300B / 304B	Greenhouse 2			NAD	NAD		
D	301A / 305A	Basement	4" Cove Base comingled with Mastic, Black	N/A	NAD	NAD	N/A	N/A
	301B / 305B				NAD	NAD		
E	302A	Basement	12x12" Floor Tile, Gray	140 SF	1.80% Chrysotile	NA	I	N
	302B				NA/PS	NA/PS		
E	303A	Basement	Mastic associated with 12x12" Gray Floor Tile	N/A	NAD	NAD	N/A	N/A
	303B				NAD	NAD		
F	400A	Exterior Garage Door	Caulk, Soft, White	N/A	NAD	NAD	N/A	N/A
	400B				NAD	NAD		
G	401A	Exterior Man Door	Caulk, Soft, Gray	N/A	NAD	NAD	N/A	N/A
	401B				NAD	NAD		
VV	402A	Exterior Double Doors	Caulk, Brittle, Gray	10 SF	4.80% Chrysotile	NA	I	N
	402B				NA/PS	NA/PS		
H	403A	Foundation	Tar, Black	3700 SF	5.20% Chrysotile	NA	I	N
	403B				NA/PS	NA/PS		



Hazardous Materials Inspection Report

Homo. Material ID.	Sample No.	Location	Material	Quantity	PLM Result	TEM Result	Condition (I/D/SD)	Friable (Yes/No)
I	404A	Exterior, Greenhouses 1 & 2, between glass and concrete	Caulk, Flexible, Gray	5 SF	5.30% Chrysotile	NA	N/A	N/A
	404B				NA/PS	NA/PS		
J	405A	Exterior, Greenhouses 1 & 2	Caulk, Brittle, Gray	N/A	NAD	NAD	N/A	N/A
	405B				NAD	NAD		
K	406A	Single Man doors, Interior and exterior	Caulk, Brittle, Gray around man door	3.0 SF	5.30% Chrysotile	NA	D	N
	406B				NA/PS	NA/PS		
L	408A	Greenhouses 1 & 2	Caulking for Glass, Under Metal Trim	140 SF	33.00% Chrysotile	NA	D	N
	408B				NA/PS	NA/PS		
M	409A	Greenhouses 1 & 2	Glazing, Gray	10 SF	1.40% Chrysotile	NA	I	N
	409B				NA/PS	NA/PS		
N	501A	Greenhouses 1 & 2	Tabletop Surface Slabs	3500 SF	20.00% Chrysotile	NA	I	N
	501B				NA/PS	NA/PS		
O	502A	Greenhouse 1	Mudded Joint Wrap associated with 503	N/A	NAD	NAD	N/A	N/A
	502B				NAD	NAD		
	502C				NAD	NAD		
P	503A	Greenhouse 1	Mudded Joint Fitting associated with 504	100 SF	6.60% Chrysotile	NA	I	Y
	503B				NA/PS	NA		
	503C				NA/PS	NA		
Q	504A	Greenhouse 1	3" Pipe Insulation Jacketing with Fiberglass & Tar/Foil	N/A	NAD	NAD	N/A	N/A
	504B				NAD	NAD		
	504C				NAD	NAD		
R	505A	Greenhouse 1	3" Pipe Insulation Jacket with Fiberglass & Paper/Tar/Foil	N/A	NAD	NAD	N/A	N/A
	505B				NAD	NAD		
	505C				NAD	NAD		
S	506A	Room B	Insulation on Radiator Cover, Black	N/A	NAD	NAD	N/A	N/A
	506B				NAD	NAD		



Hazardous Materials Inspection Report

Homo. Material ID.	Sample No.	Location	Material	Quantity	PLM Result	TEM Result	Condition (I/D/SD)	Friable (Yes/No)
T	507A	Classrooms, Above Suspended Ceiling	12" Pipe Insulation for Roof Drains with Paper/Foil/Tar	N/A	NAD	NAD	N/A	N/A
	507B				NAD	NAD		
	507C				NAD	NAD		
U	508A	Classrooms, Above Suspended Ceiling	Mudded Joint with Jacket for 8" Pipe with Fiberglass for Roof Drains, Aqua & White	N/A	NAD	NAD	N/A	N/A
	508B				NAD	NAD		
	508C				NAD	NAD		
V	509A	Classrooms, Above Suspended Ceiling	End Sealant for 8" Pipe with Fiberglass for Roof Drains, Aqua & White	N/A	NAD	NAD	N/A	N/A
	509B				NAD	NAD		
	509C				NAD	NAD		
W	510A	Classrooms, Above Suspended Ceiling	Jacketing for 8" Pipe Fiberglass Insulation for Roof Drains, Aqua & White	N/A	NAD	NAD	N/A	N/A
	510B				NAD	NAD		
	510C				NAD	NAD		
X	511A	Classrooms	Duct Mastic, Tan-Brown	N/A	NAD	NAD	N/A	N/A
	511B				NAD	NAD		
Y	512A	Classrooms	Mastic associated with Cork Tiles on Wall	N/A	NAD	NAD	N/A	N/A
	512B				NAD	NAD		
Z	513A	Classrooms, Above Suspended Ceiling	3" Pipe Insulation Jacketing, Paper, White	N/A	NAD	NAD	N/A	N/A
	513B				NAD	NAD		
	513C				NAD	NAD		
AA	514A	Basement, New Hot Supply & Return Pipes	8" Pipe Insulation Jacketing, White	N/A	NAD	NAD	N/A	N/A
	514B				NAD	NAD		
	514C				NAD	NAD		
BB	515A	Basement	Paper Jacketing for 3" Pipe Fiberglass Insulation, Green	N/A	NAD	NAD	N/A	N/A
	515B				NAD	NAD		
	515C				NAD	NAD		



Hazardous Materials Inspection Report

Homo. Material ID.	Sample No.	Location	Material	Quantity	PLM Result	TEM Result	Condition (I/D/SD)	Friable (Yes/No)
CC	516A	Basement, Steam Lines	Paper Jacketing for 3" Pipe Fiberglass Insulation, Orange	N/A	NAD	NAD	N/A	N/A
	516B				NAD	NAD		
	516C				NAD	NAD		
DD	517A	Basement	Paper Jacketing for 3" through 8" Pipe Fiberglass Insulation, Paper/Foil/Tar, Tan-Brown	N/A	NAD	NAD	N/A	N/A
	517B				NAD	NAD		
	517C				NAD	NAD		
EE	518A	Basement	Mudded Fittings, 3" through 8" Pipes with Fiberglass Insulation, Tan-Brown	N/A	NAD	NAD	N/A	N/A
	518B				NAD	NAD		
	518C				NAD	NAD		
FF	519A	Basement, Hot Water Supply & Return Pipes Abandoned in Place	Paper Jacketing associated with 3" through 8" Pipes with Fiberglass Insulation, Paper/Tar/Foil, Red	N/A	NAD	NAD	N/A	N/A
	519B				NAD	NAD		
	519C				NAD	NAD		
GG	520A	Basement, Hot Water Supply & Return Pipes Abandoned in Place	Mudded Fittings associated with 3" through 8" Pipes with Fiberglass Insulation, Red	N/A	NAD	NAD	N/A	N/A
	520B				NAD	NAD		
	520C				NAD	NAD		
HH	521A	Basement, Cooler Room	Mastic associated with Wall Insulation, Yellow	N/A	NAD	NAD	N/A	N/A
	521B				NAD	NAD		
II	306A	Bathroom	Mortar associated with 1x1" Ceramic Floor Tile	N/A	NAD	NAD	N/A	N/A
	306B				NAD	NAD		
JJ	307A	Bathroom	Grout associated with 1x1" Ceramic Floor Tile, Gray	N/A	NAD	NAD	N/A	N/A
	307B				NAD	NAD		
KK	308A	Bathroom	Grout associated with 4x12" Ceramic Wall Tile, Gray	N/A	NAD	NAD	N/A	N/A
	308B				NAD	NAD		
LL	309A	Bathroom	Mortar associated with 4x12" Ceramic Wall Tile, Gray	N/A	NAD	NAD	N/A	N/A
	309B				NAD	NAD		
MM	701A / 702A	Lower Roof	Built-Up Roof, Black & Fiberboard, Brown	N/A	NAD	NAD	N/A	N/A
	701B	Upper Roof	Built-Up Roof, Black		NAD	NAD		



Hazardous Materials Inspection Report

Homo. Material ID.	Sample No.	Location	Material	Quantity	PLM Result	TEM Result	Condition (I/D/SD)	Friable (Yes/No)
NN	702B	Upper Roof	Fiberboard, Brown	N/A	NAD	NAD	N/A	N/A
OO	703A	Lower Roof	Felt, Above Foam Insulation, Black	N/A	NAD	NAD	N/A	N/A
	703B	Upper Roof			NAD	NAD		
PP	704A	Lower Roof	Felt, Below Foam Insulation, Black	N/A	NAD	NAD	N/A	N/A
	704B	Upper Roof			NAD	NAD		
QQ	705A	Lower Roof	Fiberboard, Brown	N/A	NAD	NAD	N/A	N/A
	705B	Upper Roof			NAD	NAD		
RR	706A	Roof, Parapet Wall, Perimeter	Caulk, Black	10 SF	12.00% Chrysotile	NA	I	N
	706B				NA/PS	NA/PS		
SS	707A	Roof Flashing & Brick Exterior Walls	Caulk, Gray	N/A	NAD	NAD	N/A	N/A
	707B				NAD	NAD		
TT	708A	Perimeter of Roofs	Silver Seal at roof flashing, Silver	670SF	3.50% Chrysotile	NA	D	N
	708B				NA/PS	NA/PS		
UU	522A	Basement, Hot Water Pipe	Pipe Jacketing against Fiberglass Insulation, White	N/A	NAD	NAD	N/A	N/A
	522B				NAD	NAD		
	522C				NAD	NAD		

Notes:

****Bold font is positive for ACM.***

NA: Not Analyzed

N/A: Not Applicable

D: Damaged <10% distributed/<25% local

NA/PS: Not Analyzed / Positive Stop

NAD: No Asbestos Detected

SD: Significantly Damaged >10% distributed/>25% local

Trace: Less Than 1% Asbestos

I: Intact – Little to No Damage



**APPENDIX B:
Asbestos Bulk Sample Chain of Custody
and Laboratory Results**



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Attention: Jason Colvin
The LiRo Group
690 Delaware Avenue
Buffalo, NY 14209

Phone: (716) 882-5476
Fax: (716) 882-9640
Received Date: 03/08/2024 5:00 PM
Analysis Date: 03/13/2024 - 03/15/2024
Collected Date: 03/08/2024

Project: 23-191-0134 / Buffalo Botanical Gardens / 2655 S Park Ave, Buffalo, NY 14218

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 100A 142400818-0001		Description Homogeneity	Green House 1 - Drywall, White Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 101A 142400818-0002		Description Homogeneity	Green House 1 - Joint Compound, White Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	White		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 100B 142400818-0003		Description Homogeneity	Green House 1 - Drywall, White Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	White		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 101B 142400818-0004		Description Homogeneity	Green House 1 - Joint Compound, White Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	White		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 201A 142400818-0005		Description Homogeneity	Room B - 2x4 Ceiling Tile to Look like 2x2, Pock Marked, White Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Gray		100.00% Other	None Detected

Initial report from: 03/15/2024 11:28:05



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
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<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 201B 142400818-0006		Description	Room G - 2x4 Ceiling Tile to Look like 2x2, Pock Marked, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Tan		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Tan		100.00% Other	None Detected
Sample ID 300A 142400818-0007		Description	Green House 1 - 4" Cove w/ Mastic, Beige		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Beige		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Beige		100.00% Other	None Detected
Sample ID 304A 142400818-0008		Description	Green House 1 - 4" Cove w/ Mastic, Beige		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Tan		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Tan		100.00% Other	None Detected
Sample ID 300B 142400818-0009		Description	Green House 2 - 4" Cove w/ Mastic, Beige		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Beige		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Beige		100.00% Other	None Detected
Sample ID 304B 142400818-0010		Description	Green House 2 - 4" Cove w/ Mastic, Beige		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Tan		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Tan		100.00% Other	None Detected
Sample ID 301A 142400818-0011		Description	Basement - 4" Cove w/ Mastic, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Black		100.00% Other	None Detected

Initial report from: 03/15/2024 11:28:05



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 305A 142400818-0012		Description	Basement - 4" Cove w/ Mastic, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Brown		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Brown		100.00% Other	None Detected
Sample ID 301B 142400818-0013		Description	Basement - 4" Cove w/ Mastic, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Black		100.00% Other	None Detected
Sample ID 305B 142400818-0014		Description	Basement - 4" Cove w/ Mastic, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Brown		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Brown		100.00% Other	None Detected
Sample ID 302A 142400818-0015		Description	Basement - 12x12 Floor Tile, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray	None	98.20% Other	1.80% Chrysotile
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 302B 142400818-0016		Description	Basement - 12x12 Floor Tile, Grey		
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 303A 142400818-0017		Description	Basement - Mastic for Sample 302A and 302B, Yellow		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Yellow		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Yellow		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 303B 142400818-0018		Description	Basement - Mastic for Sample 302A and 302B, Yellow		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Yellow		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Yellow		100.00% Other	None Detected
Sample ID 400A 142400818-0019		Description	Exterior, Garage Door - Caulk, Soft, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	White		100.00% Other	None Detected
Sample ID 400B 142400818-0020		Description	Exterior, Garage Door - Caulk, Soft, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	White		100.00% Other	None Detected
Sample ID 401A 142400818-0021		Description	Exterior, Man Door - Caulk, Soft, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray	None	100.00% Other	Inconclusive : <1% Chrysotile
TEM NYS 198.4 NOB	03/14/2024	Gray	None	100.00% Other	<1% Chrysotile
Sample ID 401B 142400818-0022		Description	Exterior, Man Door - Caulk, Soft, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Gray		100.00% Other	None Detected
Sample ID 402A 142400818-0023		Description	Exterior Double Doors - Caulk, Brittle Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray	None	95.20% Other	4.80% Chrysotile
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 402B 142400818-0024			Description Exterior Double Doors - Caulk, Brittle Grey		
			Homogeneity		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 403A 142400818-0025			Description Foundation - Tar, Black		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black	None	94.80% Other	5.20% Chrysotile
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 403B 142400818-0026			Description Foundation - Tar, Black		
			Homogeneity		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 404A 142400818-0027			Description Exterior, Green House 1 and 2 - Caulk, Flexible, Grey		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray	None	94.70% Other	5.30% Chrysotile
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 404B 142400818-0028			Description Exterior, Green House 1 and 2 - Caulk, Flexible, Grey		
			Homogeneity		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 405A 142400818-0029			Description Exterior, Green House 1 and 2 - Caulk, Flexible, White around Glass		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	White		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 405B <i>142400818-0030</i>		Description	Exterior, Green House 1 and 2 - Caulk, Flexible, White around Glass		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	White		100.00% Other	None Detected
Sample ID 406A <i>142400818-0031</i>		Description	Exterior, around Man Doors - Caulk, Brittle, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray	None	90.90% Other	9.10% Chrysotile
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 406B <i>142400818-0032</i>		Description	Exterior, around Man Doors - Caulk, Brittle, Grey		
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 408A <i>142400818-0033</i>		Description	Green House 1 and 2 - Caulk around Glass of Green House, underneath Metal Trim		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray	None	67.00% Other	33.00% Chrysotile
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 408B <i>142400818-0034</i>		Description	Green House 1 and 2 - Caulk around Glass of Green House, underneath Metal Trim		
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 409A <i>142400818-0035</i>		Description	Green House 1 and 2 - Glazing, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray	None	98.60% Other	1.40% Chrysotile
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 409B <i>142400818-0036</i>			Description Green House 1 and 2 - Glazing, Grey		
			Homogeneity		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 501A <i>142400818-0037</i>			Description Green House 1 and 2 - Table Tops		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray	None	80.00% Non-fibrous (other)	20.00% Chrysotile
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 501B <i>142400818-0038</i>			Description Green House 1 and 2 - Table Tops		
			Homogeneity		
PLM NYS 198.1 Friable	03/13/2024				Positive Stop (Not Analyzed)
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 502A <i>142400818-0039</i>			Description Green House 1 - Mud Elbows and Fittings, Wrap associated with 503		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Tan		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 502B <i>142400818-0040</i>			Description Green House 1 - Mud Elbows and Fittings, Wrap associated with 503		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Tan		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 502C <i>142400818-0041</i>			Description Green House 1 - Mud Elbows and Fittings, Wrap associated with 503		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 503A 142400818-0042		Description	Green House 1 - Mud Elbows and Fittings, associated with 504		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray	None	93.40% Non-fibrous (other)	6.60% Chrysotile
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 503B 142400818-0043		Description	Green House 1 - Mud Elbows and Fittings, associated with 504		
		Homogeneity			
PLM NYS 198.1 Friable	03/13/2024				Positive Stop (Not Analyzed)
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 503C 142400818-0044		Description	Green House 1 - Mud Elbows and Fittings, associated with 504		
		Homogeneity			
PLM NYS 198.1 Friable	03/13/2024				Positive Stop (Not Analyzed)
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 504A 142400818-0045		Description	Green House 1 - 3" Pipe Ins. Jacket, FG, Tar/Foil		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 504B 142400818-0046		Description	Green House 1 - 3" Pipe Ins. Jacket, FG, Tar/Foil		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 504C 142400818-0047		Description	Green House 1 - 3" Pipe Ins. Jacket, FG, Tar/Foil		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 505A 142400818-0048		Description	Green House 1 - 3" Pipe Ins. Jacket, FG, Paper/Foil/Tar		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 505B 142400818-0049		Description	Green House 1 - 3" Pipe Ins. Jacket, FG, Paper/Foil/Tar		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 505C 142400818-0050		Description	Green House 1 - 3" Pipe Ins. Jacket, FG, Paper/Foil/Tar		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 506A 142400818-0051		Description	Room B - Insulation on Rad Cover, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Black		100.00% Other	None Detected
Sample ID 506B 142400818-0052		Description	Room B - Insulation on Rad Cover, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Black		100.00% Other	None Detected
Sample ID 507A 142400818-0053		Description	Classrooms, above Ceiling - 12" Pipe Insulation for Roof Drains, Paper/Foil/Tar		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 507B 142400818-0054			Description Classrooms, above Ceiling - 12" Pipe Insulation for Roof Drains, Paper/Foil/Tar		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 507C 142400818-0055			Description Classrooms, above Ceiling - 12" Pipe Insulation for Roof Drains, Paper/Foil/Tar		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 508A 142400818-0056			Description Classrooms, above Ceiling - Mud Elbows and Fittings w/ Wrap for 8" Pipe Ins, FG, for Roof Drains, Aqua and White		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray	40.00% Glass	60.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 508B 142400818-0057			Description Classrooms, above Ceiling - Mud Elbows and Fittings w/ Wrap for 8" Pipe Ins, FG, for Roof Drains, Aqua and White		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray	40.00% Glass	60.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 508C 142400818-0058			Description Classrooms, above Ceiling - Mud Elbows and Fittings w/ Wrap for 8" Pipe Ins, FG, for Roof Drains, Aqua and White		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray	40.00% Glass	60.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 509A 142400818-0059			Description Classrooms, above Ceiling - End Cap, for 8" FG Pipe Insulation, for Roof Drains, Aqua and White		
			Homogeneity Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Brown	50.00% Glass	50.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 509B <i>142400818-0060</i>		Description	Classrooms, above Ceiling - End Cap, for 8" FG Pipe Insulation, for Roof Drains, Aqua and White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray/ Green		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 509C <i>142400818-0061</i>		Description	Classrooms, above Ceiling - End Cap, for 8" FG Pipe Insulation, for Roof Drains, Aqua and White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 510A <i>142400818-0062</i>		Description	Classrooms, above Ceiling - Wrap for 8" FG Pipe Insulation, for Roof Drains, Paper/Foil/Tar Beige, Aqua, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 510B <i>142400818-0063</i>		Description	Classrooms, above Ceiling - Wrap for 8" FG Pipe Insulation, for Roof Drains, Paper/Foil/Tar Beige, Aqua, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 510C <i>142400818-0064</i>		Description	Classrooms, above Ceiling - Wrap for 8" FG Pipe Insulation, for Roof Drains, Paper/Foil/Tar Beige, Aqua, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 511A <i>142400818-0065</i>		Description	Classrooms - Duct Mastic, Tanish Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Gray		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 511B <i>142400818-0066</i>		Description	Classrooms - Duct Mastic, Tanish Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Gray		100.00% Other	None Detected
Sample ID 512A <i>142400818-0067</i>		Description	Classrooms - Mastic of Cork Tiles		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Tan		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Tan		100.00% Other	None Detected
Sample ID 512B <i>142400818-0068</i>		Description	Classrooms - Mastic of Cork Tiles		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Tan		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Tan		100.00% Other	None Detected
Sample ID 513A <i>142400818-0069</i>		Description	Classrooms, above Ceiling - 3" Pipe Insulation Wrap, Paper, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 513B <i>142400818-0070</i>		Description	Classrooms, above Ceiling - 3" Pipe Insulation Wrap, Paper, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 513C <i>142400818-0071</i>		Description	Classrooms, above Ceiling - 3" Pipe Insulation Wrap, Paper, White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 514A 142400818-0072		Description Basement - Paper Wrap, for New FG 8" FG Insulation, Supply and Return Hot Water Heat, White			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 514B 142400818-0073		Description Basement - Paper Wrap, for New FG 8" FG Insulation, Supply and Return Hot Water Heat, White			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 514C 142400818-0074		Description Basement - Paper Wrap, for New FG 8" FG Insulation, Supply and Return Hot Water Heat, White			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 515A 142400818-0075		Description Basement - Paper Wrap, 3" FG Insulation, Green			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 515B 142400818-0076		Description Basement - Paper Wrap, 3" FG Insulation, Green			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 515C 142400818-0077		Description Basement - Paper Wrap, 3" FG Insulation, Green			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 516A 142400818-0078		Description	Basement - Paper Wrap, Steam, 3" FG Insulation, Orange		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 516B 142400818-0079		Description	Basement - Paper Wrap, Steam, 3" FG Insulation, Orange		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 516C 142400818-0080		Description	Basement - Paper Wrap, Steam, 3" FG Insulation, Orange		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 517A 142400818-0081		Description	Basement - Paper Wrap, 3" thru 8" FG Insulation, Paper/Foil/Tar Tanish Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 517B 142400818-0082		Description	Basement - Paper Wrap, 3" thru 8" FG Insulation, Paper/Foil/Tar Tanish Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 517C 142400818-0083		Description	Basement - Paper Wrap, 3" thru 8" FG Insulation, Paper/Foil/Tar Tanish Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 518A <i>142400818-0084</i>		Description	Basement - Mud Elbows and Fittings, 3" thru 8" FG Insulation, Tanish Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 518B <i>142400818-0085</i>		Description	Basement - Mud Elbows and Fittings, 3" thru 8" FG Insulation, Tanish Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 518C <i>142400818-0086</i>		Description	Basement - Mud Elbows and Fittings, 3" thru 8" FG Insulation, Tanish Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 519A <i>142400818-0087</i>		Description	Basement - Paper Wrap, 3" thru 8" FG Insulation, Abandoned in Place, HW Heat Supply and Return, Paper/Tar/Foil, Red		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 519B <i>142400818-0088</i>		Description	Basement - Paper Wrap, 3" thru 8" FG Insulation, Abandoned in Place, HW Heat Supply and Return, Paper/Tar/Foil, Red		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected
Sample ID 519C <i>142400818-0089</i>		Description	Basement - Paper Wrap, 3" thru 8" FG Insulation, Abandoned in Place, HW Heat Supply and Return, Paper/Tar/Foil, Red		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Various		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 520A <i>142400818-0090</i>		Description	Basement - Mud Elbows and Fittings, 3" thru 8" FG Insulation, Abandoned in Place, HW Heat Supply and Return, Red		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 520B <i>142400818-0091</i>		Description	Basement - Mud Elbows and Fittings, 3" thru 8" FG Insulation, Abandoned in Place, HW Heat Supply and Return, Red		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 520C <i>142400818-0092</i>		Description	Basement - Mud Elbows and Fittings, 3" thru 8" FG Insulation, Abandoned in Place, HW Heat Supply and Return, Red		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 521A <i>142400818-0093</i>		Description	Basement - Mastic for Insulation on CB Walls, Cooler, Yellow		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Tan		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Tan		100.00% Other	None Detected
Sample ID 521B <i>142400818-0094</i>		Description	Basement - Mastic for Insulation on CB Walls, Cooler, Yellow		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Tan		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Tan		100.00% Other	None Detected
Sample ID 306A <i>142400818-0095</i>		Description	Bathroom - 1x1 Floor Tile Mortar		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 306B <i>142400818-0096</i>		Description	Bathroom - 1x1 Floor Tile Mortar		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 307A <i>142400818-0097</i>		Description	Bathroom - 1x1 Floor Tile Grout, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 307B <i>142400818-0098</i>		Description	Bathroom - 1x1 Floor Tile Grout, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 308A <i>142400818-0099</i>		Description	Bathroom - 4 x 12 Structured Glazed Tile, Grout, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 308B <i>142400818-0100</i>		Description	Bathroom - 4 x 12 Structured Glazed Tile, Grout, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 309A <i>142400818-0101</i>		Description	Bathroom - 4 x 12 Structured Glazed Tile, Mortar, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 309B 142400818-0102		Description	Bathroom - 4 x 12 Structured Glazed Tile, Mortar, Grey		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	03/13/2024	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 701A 142400818-0103		Description	Lower Roof - Built-Up Roof, Black and Fiber Board, Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Black		100.00% Other	None Detected
Sample ID 702A 142400818-0104		Description	Lower Roof - Built-Up Roof, Black and Fiber Board, Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Brown		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Brown		100.00% Other	None Detected
Sample ID 701B 142400818-0105		Description	Upper Roof - Built-Up Roof, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Black		100.00% Other	None Detected
Sample ID 702B 142400818-0106		Description	Upper Roof - Fiber Board, Brown		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Brown		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Brown		100.00% Other	None Detected
Sample ID 703A 142400818-0107		Description	Lower Roof - Felt, above Foam Insulation, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Black		100.00% Other	None Detected

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EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 703B 142400818-0108		Description	Upper Roof - Felt, above Foam Insulation, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Black		100.00% Other	None Detected
Sample ID 704A 142400818-0109		Description	Lower Roof - Felt, below Foam Insulation, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Brown/ Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Brown/ Black		100.00% Other	None Detected
Sample ID 704B 142400818-0110		Description	Upper Roof - Felt, below Foam Insulation, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Brown/ Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Brown/ Black		100.00% Other	None Detected
Sample ID 705A 142400818-0111		Description	Lower Roof - Fiber Board		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Brown		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Brown		100.00% Other	None Detected
Sample ID 705B 142400818-0112		Description	Upper Roof - Fiber Board		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Brown		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/14/2024	Brown		100.00% Other	None Detected
Sample ID 706A 142400818-0113		Description	Roof - Parapet Wall Caulk, Black		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Black	None	88.00% Other	12.00% Chrysotile
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed

Initial report from: 03/15/2024 11:28:05



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 706B 142400818-0114		Description	Roof - Parapet Wall Caulk, Black		
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 707A 142400818-0115		Description	Roof - Caulk, Roof Flashing/Brick		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/15/2024	Gray		100.00% Other	None Detected
Sample ID 707B 142400818-0116		Description	Roof - Caulk, Roof Flashing/Brick		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/15/2024	Gray		100.00% Other	None Detected
Sample ID 708A 142400818-0117		Description	Roof - Silver Seal, Silver		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	Silver	None	96.50% Other	3.50% Chrysotile
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 708B 142400818-0118		Description	Roof - Silver Seal, Silver		
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	03/14/2024				Not Analyzed
Sample ID 522A 142400818-0119		Description	Basement - Hot Water Pipe Wrap, FG Ins. White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	White/ Yellow		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/15/2024	White/ Yellow		100.00% Other	None Detected

Initial report from: 03/15/2024 11:28:05



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 522B 142400818-0120		Description	Basement - Hot Water Pipe Wrap, FG Ins. White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	White/ Yellow		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/15/2024	White/ Yellow		100.00% Other	None Detected
Sample ID 522C 142400818-0121		Description	Basement - Hot Water Pipe Wrap, FG Ins. White		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	03/14/2024	White/ Yellow		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	03/15/2024	White/ Yellow		100.00% Other	None Detected

Initial report from: 03/15/2024 11:28:05



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142400818
Customer ID: LIRO50
Customer PO: 23-191-0134
Project ID:

Test Report:Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods . The reference number for these samples is the EMSL Order ID above . Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 3/8/2024
Analysis Completed Date: 3/13/2024

Sample Receipt Time: 5:00 PM
Analysis Completed Time: 1:30 PM

Analyst(s):

Jessica Kroczynski PLM NYS 198.1 Friable (29)

Jessica Kroczynski PLM NYS 198.6 NOB (80)

Jessica Kroczynski TEM NYS 198.4 NOB (71)

Samples reviewed and approved by:

Rhonda McGee, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis . Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos . Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government . 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. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

Initial report from: 03/15/2024 11:28:05



LiRo Engineers, Inc.
ENVIRONMENTAL & ENGINEERING SERVICES

690 Delaware Avenue
 Buffalo, New York 14209
 Tel. 716-882-5476 / Fax 716-882-9640

Bulk Sampling Chain of Custody Form

LiRo Job #: 23-191-0134
 Job Name: Buffalo Botanical Gardens
 Job Location: 2655 S Park Ave, Buffalo, NY 14218
 Samples Taken by: R. Cich/ S. Northan
 Building /Site: Botanical Gardens

198.1
 198.6
 198.4

email results to: Colvini@liro.com
CICHR@LIRO.COM
 Turn-Around-Time: 5 days - 1 week
B6 3/8/24

ACM CODE	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	NOTES	QUANTITY
A	100A/101A	Green house 1	Drywall and joint compound, white	Analyze each layer separately	
	100B/101B			Analyze each layer separately	
B	201A	Room B	2X4 ceiling tile to look like 2x2, pock marked, white	Analyze each layer separately	
	201B	Room G		Analyze each layer separately	
C	300A/304A	Green house 1	4" cove w/mastic, Beige	Analyze each layer separately	
	300B/304B	Green house 2		Analyze each layer separately	
D	301A/305A	Basement	4" cove w/mastic, Black	Analyze each layer separately	
	301B/305B	Basement		Analyze each layer separately	
E	302A	Basement	12x12 floor tile, grey	Analyze floor tile only	
	302B	Basement		Analyze floor tile only	
E	303A	Basement	Mastic for sample 302A and 302B, Yellow	Positive stop	
	303B	Basement			

Comments: **First positive stop for each "ACM Code" Group.**

Analyze NYS friables via PLM only. Analyze NYS NOB via PLM to TEM.

Relinquished By (Signature) 	Date/Time <u>3/8/24 1700</u>	Received By (Signature) 	Date/Time <u>3/8/24 5:00 PM</u>
			<u>WF</u>

142400818



LiRo Engineers, Inc.
ENVIRONMENTAL & ENGINEERING SERVICES

690 Delaware Avenue
 Buffalo, New York 14209
 Tel. 716-882-5476 / Fax 716-882-9640

Bulk Sampling Chain of Custody Form

LiRo Job #: 23-191-0134
 Job Name: Buffalo Botanical Gardens
 Job Location: 2655 S Park Ave, Buffalo, NY 14218
 Samples Taken by: R. Cich/ S.Northan
 Building /Site: Botanical Gardens

198.1
 198.6
 198.4

email results to: Colvini@liro.com
 CICHR@LIRO.COM
 Turn-Around-Time: 5-day 1 Week
 B6 3/8/24

ACM CODE	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	NOTES	QUANTITY
F	400A	Exterior, Garage Door	Caulk, Soft, White		
	400B				
G	401A	Exterior, Man Door	Caulk, Soft, Grey		
	401B	Exterior, Man Door			
VV	402A	Exterior double doors	Caulk, Brittle Grey		
	402B				
H	403A	Foundation	Tar, black		
	403B	Foundation			
I	404A	exterior, green house 1 and 2	Caulk, Flexible, Grey		
	404B	exterior, green house 1 and 2			
J	405A	exterior, green house 1 and 2	Caulk, Flexible, White around glass		
	405B	exterior, green house 1 and 2			
K	406A	exterior, around man doors	Caulk, brittle, grey		
	406B	exterior, around man doors			

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 MAR 08 2024

BY: *[Signature]* S.DD
 WF

Comments: First positive stop for each "ACM Code" Group.

Analyze NYS friables via PLM only. Analyze NYS NOB via PLM to TEM.

Relinquished By: (Signature) <i>[Signature]</i>	Date / Time: 3/8/24 1700	Received By: (Signature)	Date / Time
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LiRo Engineers, Inc.
ENVIRONMENTAL & ENGINEERING SERVICES
 690 Delaware Avenue
 Buffalo, New York 14209
 Tel. 716-882-5476 / Fax 716-882-9640
Bulk Sampling Chain of Custody Form

142400818

LiRo Job #: 23-191-0134
 Job Name: Buffalo Botanical Gardens
 Job Location: 2655 S Park Ave, Buffalo, NY 14218
 Samples Taken by: R. Cich/ S. Northan
 Building /Site: Botanical Gardens

198.1
 198.4
 198.4

email results to: Colvin@liro.com
 CICH@LIRO.COM
 Turn-Around-Time: 5 days | Week

B6 018124

ACM CODE	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	NOTES	QUANTITY
L	408A	Green house 1 and 2	Caulk around glass of green house, underneath metal trim		
	408B				
M	409A	Green house 1 and 2	Glazing, grey		
	409B				
N	501A	Green house 1 and 2	Table tops		
	501B				
O	502A	Green house 1	Mud elbows and fittings, wrap associated with 503		
	502B				
	502C				
P	503A	Green house 1	Mud elbows and fittings, associated with 504		
	503B				
	503C				
Q	504A	Green house 1	3" pipe ins jacket, fg. Tar/foil		
	504B				
	504C				

RECEIVED
 MAR 08 2024

BY: [Signature] 5:00
 WF

Comments: First positive stop for each "ACM Code" Group.

Analyze NYS friables via PLM only. Analyze NYS NOB via PLM to TEM.

Relinquished By (Signature): [Signature]	Date / Time: 3/8/24 1700
Received By (Signature):	Date / Time:



LIRO Engineers, Inc.
ENVIRONMENTAL & ENGINEERING SERVICES

690 Delaware Avenue
 Buffalo, New York 14209
 Tel. 716-882-5476 / Fax 716-882-9640

Bulk Sampling Chain of Custody Form

LIRO Job #: 23-191-0134
 Job Name: Buffalo Botanical Gardens
 Job Location: 2655 S Park Ave, Buffalo, NY 14218
 Samples Taken by: R. Cich/ S.Northan
 Building /Site: Botanical Gardens

142400818

email results to: Colvin@liro.com

CICHR@LIRO.COM

Turn-Around-Time: 1 week

BG 3/8/24

198.1
 198.6
 198.4

ACM CODE	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	NOTES	QUANTITY
R	505A	Green house 1	3" pipe ins jacket, fg, paper /foil/ Tar		
	505B				
	505C				
S	506A	Room B	Insulation on Rad cover, Black		
	506B				
	507A				
T	507B	Class rooms , Above ceiling	12" Pipe insulation for roof drains, paper /foil/ Tar		
	507C				
	508A				
U	508B	Class rooms , Above ceiling	Mud elbows and fittings w/wrap for 8" pipe Ins, FG, for roof drains, aqua and white		
	508C				
	509A				
V	509B	Class rooms , Above ceiling	End cap, for 8" fg pipe insulation , for roof drains, aqua and white		
	509C				
	510A				
W	510B	Class rooms , Above ceiling	Wrap for 8" fg pipe insulation , for roof drains, paper /foil/ Tar beige, Aqua, white,		
	510C				

RECEIVED
 MAR 08 2024

BY: [Signature] 5:00
 WE

Comments: First positive stop for each "ACM Code" Group.

Analyze NYS friables via PLM only. Analyze NYS NOB via PLM to TEM.

Relinquished By (Signature): [Signature]	Date / Time: 3/8/24 1700	Received By (Signature): [Signature]	Date / Time:
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142400818



LiRo Engineers, Inc.
ENVIRONMENTAL & ENGINEERING SERVICES

690 Delaware Avenue
 Buffalo, New York 14209
 Tel. 716-882-5476 / Fax 716-882-9640

Bulk Sampling Chain of Custody Form

LiRo Job #: 23-191-0134
 Job Name: Buffalo Botanical Gardens
 Job Location: 2655 S Park Ave, Buffalo, NY 14218
 Samples Taken by: R. Cich/ S. Northan
 Building /Site: Botanical Gardens

198.1
 198.6
 198.4

email results to: Colvin@liro.com
CICHR@LIRO.COM
 Turn-Around-Time: 5 days LNXX
BG 3/5/24

ACM CODE	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	NOTES	QUANTITY
X	511A	classrooms	Duct mastic, tannish brown		
	511B	classrooms	Mastic of cork tiles		
Y	512A	Class rooms , Above ceiling	3" Pipe insulation wrap, paper, white		
	512B				
	513A				
Z	513B	Basement	paper wrap, for new 8" fg Insulation, supply and return hot water heat, White		
	513C				
	514A				
AA	514B	Basement	paper wrap, 3" fg Insulation, Green		
	514C				
	515A				
BB	515B	Basement	paper wrap, steam, 3" fg Insulation, Orange		
	515C				
	516A				
CC	516B				
	516C				

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 MAR 08 2024

BY: [Signature] 5:00
WT

Comments: **First positive stop for each "ACM Code" Group.**

Analyze NYS friables via PLM only. Analyze NYS NOB via PLM to TEM.

Relinquished By (Signature) <u>[Signature]</u>	Date / Time <u>3/8/24 1700</u>	Received By (Signature)	Date / Time
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LiRo Engineers, Inc.
ENVIRONMENTAL & ENGINEERING SERVICES
 690 Delaware Avenue
 Buffalo, New York 14209
 Tel. 716-882-5476 / Fax 716-882-9640
Bulk Sampling Chain of Custody Form

142400818

LiRo Job #: 23-191-0134
 Job Name: Buffalo Botanical Gardens
 Job Location: 2655 S Park Ave, Buffalo, NY 14218
 Samples Taken by: R. Cich/ S. Northan
 Building /Site: Botanical Gardens

198.1
 198.4
 198.4

email results to: colvini@liro.com
CICHR@LIRO.COM

Turn-Around-Time: 5 day - 1 week
By 3/8/24

ACM CODE	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	NOTES	QUANTITY
DD	517A	Basement	paper wrap, 3" thru 8" fg Insulation, paper/foil/ tar tannish brown		
	517B				
	517C				
EE	518A	Basement	Mud elbows and fittings, 3" thru 8" fg Insulation, tannish brown		
	518B				
	518C				
FF	519A	Basement	Paper wrap, 3" thru 8" fg Insulation, abandoned in place, HW heat supply and return, paper /tar/foil, red		
	519B				
	519C				
GG	520A	Basement	Mud elbows and fittings, 3" thru 8" fg Insulation, abandoned in place, HW heat supply and return, red		
	520B				
	520C				
HH	521A	Basement	Mastic for insulation on CB walls, cooler, yellow		
	521B				
II	306A	Bathroom	1x1 floor tile Motar		
	306B				

RECEIVED
 MAR 08 2024

BY: [Signature] S.W
 WE

Comments: **First positive stop for each "ACM Code" Group.**
 Analyze NYS friables via PLM only. Analyze NYS NOB via PLM to TEM.

Relinquished By (Signature) <u>[Signature]</u>	Date / Time <u>3/8/24 1700</u>	Received By (Signature)	Date / Time
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LiRo Engineers, Inc.
ENVIRONMENTAL & ENGINEERING SERVICES

690 Delaware Avenue
 Buffalo, New York 14209
 Tel. 716-882-5476 / Fax 716-882-9640

Bulk Sampling Chain of Custody Form

LiRo Job #: 23-191-0134
 Job Name: Buffalo Botanical Gardens
 Job Location: 2655 S Park Ave, Buffalo, NY 14218
 Samples Taken by: R. Cich/ S.Northan
 Building /Site: Botanical Gardens

142400818

email results to: Colvin@liro.com
CICHR@LIRO.COM
 Turn-Around-Time: 5 day INCEK

198.1
 198.6
 198.4

B6 5/8/24

ACM CODE	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	NOTES	QUANTITY
JJ	307A	Bathroom	1x1 floor tile grout, Grey		
	307B				
KK	308A	Bathroom	4 x 12 Structured Glazed Tile , Grout, Grey		
	308B				
LL	309A	Bathroom	4 x 12 Structured Glazed Tile, Mortar, Grey		
	309B				
MM	701A/702A	Lower roof	Built up roof , Black and fiber board, Brown	I was unable to separate fiberboard from the built-up roof. Please analyze each layer separately.	
	701B	Upper roof	Built up roof, Black		
NN	702B	Upper roof	Fiber board, brown		
	703A	Lower roof	Felt, above foam insulation, Black		
OO	703B	Upper roof	Felt, above foam insulation, Black		
	704A	Lower roof	Felt, Below foam insulation, Black		
PP	704B	Upper roof	Felt, Below foam insulation, Black	Please analyze felt only	
	705A	Lower roof	Fiber board	Please analyze felt only	
QQ	705B	Upper roof	Fiber board		

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Comments: **First positive stop for each "ACM Code" Group.**

Analyze NYS friables via PLM only. Analyze NYS NOB via PLM to TEM.

Relinquished By (Signature)	Date / Time	Received By (Signature)	Date / Time
<i>[Signature]</i>	3/9/21 1700	<i>[Signature]</i>	MAR 08 2024
		BY: <i>[Signature]</i>	5:00 PM



**APPENDIX C:
Lead Paint Sample Chain of Custody
and Laboratory Results**

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410714
LIMS Reference ID: AC10714
EMSL Customer ID: LIRO50E

Attention: J Colvin
 Liro Engineers [LIRO50E]
 85 Allen Street
 Rochester, NY 14608
 (585) 322-3930

Project Name: 23-191-0134 / Buffalo Botanical Gardens 2655
 S. Park Ave., Buffalo, NY 14218 / Botanical
 Gardens

Customer PO:
EMSL Sales Rep: Jeromy Bish
Received: 03/12/2024 09:30
Reported: 03/18/2024 19:11

Analytical Results

Analyte	Results	RL	Weight(g)	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: BBG-LBP-01/Overhead Garage Door - Paint on Frame - Bluish Green - Steel							Date Sampled: 03/05/24		
Matrix: Chips							LIMS Reference ID: AC10714-01		
Lead	0.18 % wt	0.018 % wt	0.1139	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-02/Bollard in front of Mandoor - Paint on Bollard - Safety Yellow - Steel							Date Sampled: 03/05/24		
Matrix: Chips							LIMS Reference ID: AC10714-02		
Lead	0.035 % wt	0.008 % wt	0.2838	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-03/Exterior of Green House - Paint on Planting Tables, Green - Steel							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-03		
Lead	0.015 % wt	0.008 % wt	0.2712	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-04/GH#1 - Lintel and Station - Bluish Green							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-04		
Lead	0.074 % wt	0.011 % wt	0.18	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-05/Room B - Paint on Wall - Off-White - Gypsum Board							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-05		
Lead	<0.008 % wt	0.008 % wt	0.2538	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-06/Room B - Paint on Bottom of Roof Deck - Off-White - Steel							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-06		
Lead	0.18 % wt	0.008 % wt	0.2873	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-07/Room B - Paint on Wall - Beige - Concrete Block							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-07		
Lead	0.025 % wt	0.008 % wt	0.257	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-08/Room B - Paint on Conc Floor - Brown - Concrete							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-08		
Lead	0.012 % wt	0.008 % wt	0.2698	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-09/Room D - Paint on Conc Floor - Grey - Concrete							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-09		
Lead	<0.008 % wt	0.008 % wt	0.2876	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-10/Room D - Paint on Wall - Green - gypsum Board							Date Sampled: 03/06/24		

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410714
LIMS Reference ID: AC10714
EMSL Customer ID: LIRO50E

Attention: J Colvin
 Liro Engineers [LIRO50E]
 85 Allen Street
 Rochester, NY 14608
 (585) 322-3930

Project Name: 23-191-0134 / Buffalo Botanical Gardens 2655
 S. Park Ave., Buffalo, NY 14218 / Botanical
 Gardens

Customer PO:
EMSL Sales Rep: Jeromy Bish
Received: 03/12/2024 09:30
Reported: 03/18/2024 19:11

Analytical Results (Continued)

Analyte	Results	RL	Weight(g)	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: BBG-LBP-10/Room D - Paint on Wall - Green - gypsum Board							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-10		
Lead	<0.009 % wt	0.009 % wt	0.2288	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-11/Room E - Paint on Wall - Blue - Gypsum Board							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-11		
Lead	<0.008 % wt	0.008 % wt	0.2727	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-12/Room E - Paint on Conc Floor - DK Grey - Concrete							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-12		
Lead	0.024 % wt	0.008 % wt	0.2806	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-13/Room G - Paint on Wall - green - Gypsum Board							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-13		
Lead	0.022 % wt	0.008 % wt	0.2519	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-14/Room G - Paint on Wall - Lt Yellow - Gypsum Board							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-14		
Lead	<0.008 % wt	0.008 % wt	0.2761	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									
Client Sample ID: BBG-LBP-15/Room G - Paint on Wall - Dk Yellow - Gypsum Board							Date Sampled: 03/06/24		
Matrix: Chips							LIMS Reference ID: AC10714-15		
Lead	<0.008 % wt	0.008 % wt	0.2873	03/15/24 NP2	SW-846 3050B	03/18/24 PMx	SW846-7000B	1	
Sample Comments:									

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410714
LIMS Reference ID: AC10714
EMSL Customer ID: LIRO50E

Attention: J Colvin
 Liro Engineers [LIRO50E]
 85 Allen Street
 Rochester, NY 14608
 (585) 322-3930

Project Name: 23-191-0134 / Buffalo Botanical Gardens 2655
 S. Park Ave., Buffalo, NY 14218 / Botanical
 Gardens

Customer PO:
EMSL Sales Rep: Jeromy Bish
Received: 03/12/2024 09:30
Reported: 03/18/2024 19:11

Certified Analyses included in this Report

Analyte	Certifications
SW846-7000B in Chips	
Lead	AIHA LAP

List of Certifications

Code	Description	Number	Expires
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
NYSDOH	New York State Department of Health	10872	04/01/2024
California ELAP	California Water Boards	1877	06/30/2024
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024

Please see the specific Field of Testing (FOT) on www.emsl.com <<http://www.emsl.com>> for a complete listing of parameters for which EMSL is certified.



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
EMSL-CIN-01

EMSL Order ID: 012410714

LIMS Reference ID: AC10714

EMSL Customer ID: LIRO50E

Attention: J Colvin
Liro Engineers [LIRO50E]
85 Allen Street
Rochester, NY 14608
(585) 322-3930

Project Name: 23-191-0134 / Buffalo Botanical Gardens 2655
S. Park Ave., Buffalo, NY 14218 / Botanical
Gardens

Customer PO:
EMSL Sales Rep: Jeromy Bish

Received: 03/12/2024 09:30

Reported: 03/18/2024 19:11

Notes and Definitions

Item	Definition
D	Analyte was reported from a dilution run.
Pb4	The QC sample duplicate RPD and MS recovery result for Lead was outside of the method control limits.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit For paint chips, the RL is 0.008% by wt. (equiv. to 80 mg/kg, or ppm) based upon a minimum sample weight of 0.25 grams. For soils, the RL is 40 mg/kg (ppm) based upon a minimum sample weight of 0.5 grams. For dust wipes, the RL is 10 µg/wipe; reporting units of µg/sq. ft. are not validated by the lab based upon data provided by non-lab personnel.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

Owen McKenna Laboratory Manager or other approved signatory

EMSL maintains liability limited to coast of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. QC sample results are within quality control criteria and met method specifications unless otherwise noted.

Analysis following EMSL SOP for the Determination of Environmental Lead by FLAA. The laboratory has a reporting limit of 0.008% by wt., based upon a minimum sample weight of 0.25g submitted to the lab, and is not responsible for any result or reporting limit provided in mg/cm2 since it is dependent upon an area value provided by non-lab personnel. A "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty and definitions of modifications are available upon request. Results in this report are not blank corrected unless specified.



LiRo Engineers, Inc.
ENVIRONMENTAL & ENGINEERING SERVICES

690 Delaware Avenue
Buffalo, New York 14209
Tel. 716-882-5476 / Fax 716-882-9640

Lead Sampling Chain of Custody Form

AC10714

LiRo Job #: 23-191-0134
Job Name: Buffalo Botanical Gardens
Job Location: 2655 S Park Ave, Buffalo, NY 14218
Samples Taken by: R. Cich/ S.Northan
Building /Site: Botanical Gardens


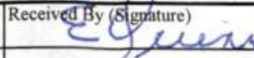
email results to: colvinj@liro.com
Cichr@liro.com

Turn-Around-Time: 1 week

SAMPLE NUMBER	SAMPLE TIME/DATE	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	COMPONENT	ANALYSIS
BBG-LBP-01	3/5/2024 1230	Overhead garage door	Paint on Frame, Bluish green	Steel	Lead Paint chip
BBG-LBP-02	3/5/2024 1300	Bollard in front of mandoor	Paint on bollard, safety yellow	Steel	Lead Paint chip
BBG-LBP-03	3/6/2024 0910	Exterior of Green house	Paint on Planting tables, green	Steel	Lead Paint chip
BBG-LBP-04	3/6/2024 1000	GH#1	Lintel and station , Blueish green	Steel	Lead Paint chip
BBG-LBP-05	3/6/2024 1100	Room B	Paint on Wall, Off white	Gypsum board	Lead Paint chip
BBG-LBP-06	3/6/2024 1130	Room B	Paint on bottom of roof deck, Off white	Steel	Lead Paint chip
BBG-LBP-07	3/6/2024 1230	Room B	Paint on Wall, Beige	Concrete block	Lead Paint chip
BBG-LBP-08	3/6/2024 1300	Room B	Paint on conc floor , brown	Concrete	Lead Paint chip
BBG-LBP-09	3/6/2024 1315	Room D	Paint on conc floor , Grey	Concrete	Lead Paint chip
BBG-LBP-10	3/6/2024 1330	Room D	Paint on Wall, Green	Gypsum board	Lead Paint chip
BBG-LBP-11	3/6/2024 1400	Room E	Paint on Wall, Blue	Gypsum board	Lead Paint chip
BBG-LBP-12	3/6/2024 1430	Room E	Paint on conc floor , DK Grey	Concrete	Lead Paint chip
BBG-LBP-13	3/6/2024 1445	Room G	Paint on Wall, Green	Gypsum board	Lead Paint chip
BBG-LBP-14	3/6/2024 1500	Room G	Paint on Wall, Lt. Yellow	Gypsum board	Lead Paint chip
BBG-LBP-15	3/6/2024 1530	Room G	Paint on Wall, Dk Yellow	Gypsum board	Lead Paint chip

Comments: **Please analyze for lead in paint via FLAA EPA Method SW-846-3050B or approved alternate method**

①5M

Relinquished By (Signature) 	Date / Time <u>3/11/24 1:50</u>	Received By (Signature)  FX	Date / Time <u>3-12-24 9:30</u>
---	---------------------------------	--	---------------------------------



LiRo Engineers, Inc.
ENVIRONMENTAL & ENGINEERING SERVICES

690 Delaware Avenue
 Buffalo, New York 14209
 Tel. 716-882-5476 / Fax 716-882-9640

AC10714

Lead Sampling Chain of Custody Form

LiRo Job #: 23-191-0134
 Job Name: Buffalo Botanical Gardens
 Job Location: 2655 S Park Ave, Buffalo, NY 14218
 Samples Taken by: R. Cich/ S.Northan
 Building /Site: Botanical Gardens

email results to: colvinj@liro.com
Cichr@liro.com

Turn-Around-Time: 1 week

SAMPLE NUMBER	SAMPLE TIME/DATE	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	COMPONENT	ANALYSIS
BBG-LBP-01	3/5/2024 1230	Overhead garage door	Paint on Frame, Bluish green	Steel	Lead Paint chip
BBG-LBP-02	3/5/2024 1300	Bollard in front of mandoor	Paint on bollard, safety yellow	Steel	Lead Paint chip
BBG-LBP-03	3/6/2024 0910	Exterior of Green house	Paint on Planting tables, green	Steel	Lead Paint chip
BBG-LBP-04	3/6/2024 1000	GH#1	Lintel and station , Blueish green	Steel	Lead Paint chip
BBG-LBP-05	3/6/2024 1100	Room B	Paint on Wall, Off white	Gypsum board	Lead Paint chip
BBG-LBP-06	3/6/2024 1130	Room B	Paint on bottom of roof deck, Off white	Steel	Lead Paint chip
BBG-LBP-07	3/6/2024 1230	Room B	Paint on Wall, Beige	Concrete block	Lead Paint chip
BBG-LBP-08	3/6/2024 1300	Room B	Paint on conc floor , brown	Concrete	Lead Paint chip
BBG-LBP-09	3/6/2024 1315	Room D	Paint on conc floor , Grey	Concrete	Lead Paint chip
BBG-LBP-10	3/6/2024 1330	Room D	Paint on Wall, Green	Gypsum board	Lead Paint chip
BBG-LBP-11	3/6/2024 1400	Room E	Paint on Wall, Blue	Gypsum board	Lead Paint chip
BBG-LBP-12	3/6/2024 1430	Room E	Paint on conc floor , DK Grey	Concrete	Lead Paint chip
BBG-LBP-13	3/6/2024 1445	Room G	Paint on Wall, Green	Gypsum board	Lead Paint chip
BBG-LBP-14	3/6/2024 1500	Room G	Paint on Wall, Lt. Yellow	Gypsum board	Lead Paint chip
BBG-LBP-15	3/6/2024 1530	Room G	Paint on Wall, Dk Yellow	Gypsum board	Lead Paint chip

Comments: Please analyze for lead in paint via FLAA EPA Method SW-846-3050B or approved alternate method

15M

Relinquished By (Signature) <i>R. Cich</i>	Date / Time 3/11/24 1500	Received By (Signature) <i>E. Quinn FX</i>	Date / Time 3-12-24 9:30
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**APPENDIX D:
PCB Sample Chain of Custody
and Laboratory Results**

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
EMSL-CIN-01

EMSL Order ID: 012410282**LIMS Reference ID:** AC10282**EMSL Customer ID:** LIRO50

March 19, 2024

Jason Colvin
The LiRo Group [LIRO50]
690 Delaware Avenue
Buffalo, NY 14209

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 3/12/2024. The results are tabulated on the attached pages for the following client designated project:

Buffalo Botanical Gardens - 23-191-0134

The reference number for these samples is EMSL Order #: AC10282 . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact the lab at 856-858-4800.

Owen McKenna Laboratory Manager or other approved signatory

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EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410282

LIMS Reference ID: AC10282

EMSL Customer ID: LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeromy Bish
Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature:** 21.1 °C

Custody Seals	Y
Containers Intact	Y
COC/Labels Agree	Y
Preservation Confirmed	Y

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410282**LIMS Reference ID:** AC10282**EMSL Customer ID:** LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish

Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AC10282-01	1-400 PCB	Solid	03/05/2024	03/12/2024
AC10282-02	2-401 PCB	Solid	03/05/2024	03/12/2024
AC10282-03	3-402 PCB	Solid	03/05/2024	03/12/2024
AC10282-04	4-404 PCB	Solid	03/05/2024	03/12/2024
AC10282-05	5-405 PCB	Solid	03/05/2024	03/12/2024
AC10282-06	6-408 PCB	Solid	03/05/2024	03/12/2024
AC10282-07	7-706 PCB	Solid	03/05/2024	03/12/2024
AC10282-08	8-707 PCB	Solid	03/05/2024	03/12/2024
AC10282-09	9-708 PCB	Solid	03/05/2024	03/12/2024

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410282**LIMS Reference ID:** AC10282**EMSL Customer ID:** LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish

Received: 03/12/2024 09:30**Reported:** 03/19/2024 16:58**Positive Hits Summary**

Lab ID	Client ID					Sampled
AC10282-06	6-408 PCB					03/05/24 12:00
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW846-8082A	Aroclor-1260	1.5		mg/kg	03/15/2024 17:56	
SW846-8082A	Aroclor-1254	4.7		mg/kg	03/15/2024 17:56	
Lab ID	Client ID					Sampled
AC10282-08	8-707 PCB					03/05/24 11:15
Method	Analyte	Result	Qualifier	Unit	Analyzed	
SW846-8082A	Aroclor-1254	1.9		mg/kg	03/15/2024 18:37	



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410282

LIMS Reference ID: AC10282

EMSL Customer ID: LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Sample Results

**Sample: 1-400 PCB/Exterior garage door soft white caulk
 AC10282-01 (Solid)**

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.45	mg/kg	03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.45	mg/kg	03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.45	mg/kg	03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.45	mg/kg	03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.45	mg/kg	03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.45	mg/kg	03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.45	mg/kg	03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.45	mg/kg	03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.45	mg/kg	03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>	38%			10-112		03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>	42%			10-123		03/14/24 13:18	03/15/24 22:29	MxB/TL	SW846 3540C	SW846-8082A

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EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410282

LIMS Reference ID: AC10282

EMSL Customer ID: LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Sample Results
 (Continued)

Sample: 2-401 PCB/Exterior Man Door Soft Grey Caulk
AC10282-02 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)		Recovery	Q	Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>		47%		10-112		03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>		48%		10-123		03/14/24 13:18	03/15/24 16:09	MxB/TL	SW846 3540C	SW846-8082A

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EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410282

LIMS Reference ID: AC10282

EMSL Customer ID: LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Sample Results
 (Continued)

Sample: 3-402 PCB/Exterior double doors Brittle grey caulk
AC10282-03 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)		Recovery	Q	Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>		64%		10-112		03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>		60%		10-123		03/14/24 13:18	03/15/24 16:52	MxB/TL	SW846 3540C	SW846-8082A

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200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410282

LIMS Reference ID: AC10282

EMSL Customer ID: LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
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Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Sample Results
 (Continued)

Sample: 4-404 PCB/Exterior green house 1 and 2 Flexible grey caulk
AC10282-04 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.34	mg/kg	03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.34	mg/kg	03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.34	mg/kg	03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.34	mg/kg	03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.34	mg/kg	03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.34	mg/kg	03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.34	mg/kg	03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.34	mg/kg	03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.34	mg/kg	03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)		Recovery	Q	Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>		46%		10-112		03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>		31%		10-123		03/14/24 13:18	03/15/24 17:13	MxB/TL	SW846 3540C	SW846-8082A

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Customer PO:
EMSL Sales Rep: Jeremy Bish
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Sample Results
 (Continued)

Sample: 5-405 PCB/Exterior gree house 1 and 2 Flexible white around glass caulk
AC10282-05 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)		Recovery	Q	Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>		62%		10-112		03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>		60%		10-123		03/14/24 13:18	03/15/24 17:34	MxB/TL	SW846 3540C	SW846-8082A

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EMSL Order ID: 012410282

LIMS Reference ID: AC10282

EMSL Customer ID: LIRO50

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Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
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Sample Results
 (Continued)

Sample: 6-408 PCB/Green house 1 and 2 Caulk
AC10282-06 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	4.7		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	1.5		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.25	mg/kg	03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>	65%			10-112		03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>	72%			10-123		03/14/24 13:18	03/15/24 17:56	MxB/TL	SW846 3540C	SW846-8082A

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LIMS Reference ID: AC10282

EMSL Customer ID: LIRO50

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Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish

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Sample Results
 (Continued)

Sample: 7-706 PCB/Exterior roof parapet wall caulk
AC10282-07 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.86	mg/kg	03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.86	mg/kg	03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.86	mg/kg	03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.86	mg/kg	03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.86	mg/kg	03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.86	mg/kg	03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.86	mg/kg	03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.86	mg/kg	03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.86	mg/kg	03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)		Recovery	Q	Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>		52%		10-112		03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>		46%		10-123		03/14/24 13:18	03/15/24 18:17	MxB/TL	SW846 3540C	SW846-8082A

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LIMS Reference ID: AC10282

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Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
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Sample Results
 (Continued)

Sample: 8-707 PCB/Roof caulk
AC10282-08 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	1.9		1	0.30	mg/kg	03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.30	mg/kg	03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>	64%			10-112		03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>	57%			10-123		03/14/24 13:18	03/15/24 18:37	MxB/TL	SW846 3540C	SW846-8082A

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Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
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Sample Results
 (Continued)

Sample: 9-708 PCB/Roof silver seal
AC10282-09 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.24	mg/kg	03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)		Recovery	Q	Limits						
<i>Surrogate: Tetrachloro-m-xylene</i>		28%		10-112		03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A
<i>Surrogate: Decachlorobiphenyl</i>		26%		10-123		03/14/24 13:18	03/15/24 18:59	MxB/TL	SW846 3540C	SW846-8082A

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Project Name: Buffalo Botanical Gardens - 23-191-0134

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EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
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Quality Control

GC-SVOA

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	-------------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------

Batch: BCC0837 - SW846 3540C
Blank (BCC0837-BLK1)

Prepared: 3/14/2024 Analyzed: 3/15/2024

Aroclor-1016	ND	0.25	mg/kg						
Aroclor-1221	ND	0.25	mg/kg						
Aroclor-1232	ND	0.25	mg/kg						
Aroclor-1242	ND	0.25	mg/kg						
Aroclor-1248	ND	0.25	mg/kg						
Aroclor-1254	ND	0.25	mg/kg						
Aroclor-1260	ND	0.25	mg/kg						
Aroclor-1262	ND	0.25	mg/kg						
Aroclor-1268	ND	0.25	mg/kg						

Surrogate(s)

Surrogate: Tetrachloro-m-xylene				0.5000		56	10-112		
Surrogate: Decachlorobiphenyl				0.5000		63	10-123		

LCS (BCC0837-BS1)

Prepared: 3/14/2024 Analyzed: 3/15/2024

Aroclor-1016	3.99	0.25	mg/kg	5.000		80	23-111		
Aroclor-1260	4.54	0.25	mg/kg	5.000		91	29-119		

Surrogate(s)

Surrogate: Tetrachloro-m-xylene				0.5000		77	10-112		
Surrogate: Decachlorobiphenyl				0.5000		87	10-123		

Matrix Spike (BCC0837-MS1)
Source: AC10288-02

Prepared: 3/14/2024 Analyzed: 3/15/2024

Aroclor-1016	4.01	0.25	mg/kg	4.902	ND	82	10-111		
Aroclor-1260	6.88	0.25	mg/kg	4.902	2.96	80	10-132		

Surrogate(s)

Surrogate: Tetrachloro-m-xylene				0.4902		70	10-112		
Surrogate: Decachlorobiphenyl				0.4902		78	10-123		

Matrix Spike Dup (BCC0837-MSD1)
Source: AC10288-02

Prepared: 3/14/2024 Analyzed: 3/15/2024

Aroclor-1016	3.59	0.24	mg/kg	4.854	ND	74	10-111	11	28
Aroclor-1260	6.46	0.24	mg/kg	4.854	2.96	72	10-132	6	28

Surrogate(s)

Surrogate: Tetrachloro-m-xylene				0.4854		60	10-112		
Surrogate: Decachlorobiphenyl				0.4854		72	10-123		

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Certified Analyses included in this Report

Analyte	CAS #	Certifications
SW846-8082A in Solid		
Aroclor-1016	12674-11-2	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1221	11104-28-2	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1232	11141-16-5	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1242	53469-21-9	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1248	12672-29-6	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1254	11097-69-1	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1254 [2C]	11097-69-1	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1260	11096-82-5	NJDEP,NYSDOH,PADEP,California ELAP
Aroclor-1262	37324-23-5	NJDEP,NYSDOH,PADEP
Aroclor-1268	11100-14-4	NJDEP,NYSDOH,PADEP

List of Certifications

Code	Description	Number	Expires
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2024
NYSDOH	New York State Department of Health	10872	04/01/2024
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024
California ELAP	California Water Boards	1877	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024

Please see the specific Field of Testing (FOT) on www.emsl.com <<http://www.emsl.com>> for a complete listing of parameters for which EMSL is certified.

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012410282**LIMS Reference ID:** AC10282**EMSL Customer ID:** LIRO50

Attention: Jason Colvin
 The LiRo Group [LIRO50]
 690 Delaware Avenue
 Buffalo, NY 14209
 (716) 882-5476
 colvinj@liro.com

Project Name: Buffalo Botanical Gardens - 23-191-0134

Customer PO:
EMSL Sales Rep: Jeremy Bish
Received: 03/12/2024 09:30
Reported: 03/19/2024 16:58

Notes and Definitions

Item	Definition
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit
%REC	Percent Recovery
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

AC10282



LiRo Engineers, Inc.
ENVIRONMENTAL & ENGINEERING SERVICES

690 Delaware Avenue
 Buffalo, New York 14209
 Tel. 716-882-5476 / Fax 716-882-9640

Chain of Custody Form (PCB)

LiRo Job #: 23-191-0134
 Job Name: Buffalo Botanical Gardens
 Job Location: 2655 S Park Ave, Buffalo, NY 14218
 Samples Taken by: R. Cich/ S.Northan
 Building /Site: Botanical Gardens

email results to: colvinj@liro.com
cichr@liro.com

Turn-Around-Time: 1 week

1
2
3
4
5

HM#	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	DATE-TIME	QUANTITY
1	400 PCB	Exterior, Garage Door	Caulk, Soft, White	03/05/24 1215	
2	401 PCB	Exterior, Man Door	Caulk, Soft, Grey	03/05/24 1230	
3	402 PCB	Exterior double doors	Caulk , Brittle Grey	03/05/24 1245	
4	404 PCB	Exterior, green house 1 and 2	Caulk , Flexible , Grey	03/05/24 1300	
5	405 PCB	Exterior, green house 1 and 2	Caulk , Flexible, White around glass	03/05/24 1330	

Comments:

Analyze each of the composited samples for PCBs VIA EPA 8082.

Relinquished By (Signature) <i>[Signature]</i>	Date / Time <u>3/12/24 1500</u>	Received By (Signature) <i>[Signature]</i>	Date / Time <u>3/12/24 10:00</u>
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Colleen Palladino
 91.10C
 rec'd in plastic
 9130

AC10282



LiRo Engineers, Inc.
ENVIRONMENTAL & ENGINEERING SERVICES

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 Buffalo, New York 14209
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email results to: colvinj@liro.com
cichr@liro.com

Turn-Around-Time: 1 week

6
7
8
9

HM#	SAMPLE NUMBER	SAMPLE LOCATION	DESCRIPTION OF MATERIAL	DATE-TIME	QUANTITY
6	408 PCB	Green house 1 and 2	Caulk around glass of green house, underneath metal trim	03/05/24 1200	
7	706 PCB	Exterior, roof Parapet Wall	Parapet wall Caulk, Black	03/05/24 1100	
8	707 PCB	Roof	Caulk , roof flashing /brick	03/05/24 1115	
9	708 PCB	Roof	Silver Seal, Silver	03/05/24 1130	

Comments:

Analyze each of the composited samples for PCBs VIA EPA 8082.

Relinquished By (Signature) <i>[Signature]</i>	Date / Time 3/11/24 1500	Received By (Signature)	Date / Time

AC10282



LiRo Engineers, Inc.
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690 Delaware Avenue
 Buffalo, New York 14209
 Tel. 716-882-5476 / Fax 716-882-9640

Chain of Custody Form (PCB)

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Turn-Around-Time: 1 week

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4	404 PCB	Exterior, green house 1 and 2	Caulk , Flexible , Grey	03/05/24 1300	
5	405 PCB	Exterior, green house 1 and 2	Caulk , Flexible, White around glass	03/05/24 1330	

Comments:

Analyze each of the composited samples for PCBs VIA EPA 8082.

Relinquished By (Signature) <i>[Signature]</i>	Date / Time 3/12/24 1500	Received By (Signature) <i>[Signature]</i>	Date / Time 3/12/24 10:00
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Colleen Palladino

9130

21.10C
 rec'd in
 plastic

[Signature]



AC10282

LiRo Engineers, Inc.
ENVIRONMENTAL & ENGINEERING SERVICES

690 Delaware Avenue
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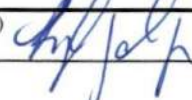
Turn-Around-Time: 1 week

6
7
8
9

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Relinquished By (Signature) 	Date / Time 3/11/24 1500	Received By (Signature)	Date / Time