Initial Regulated Building Material Survey

Irving R. Newhouse Senate Building
215 Sid Snyder Avenue SW
Olympia, WA 98504

Performed for:

GeoEngineers
2101 4th Avenue, Suite 950
Seattle, WA 98121

Prepared By:
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Project Administrator
PacRim

Sr. Review By:
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AHERA Accredited BI
PacRim

Report Date: 01/28/2022
PacRim#: 17283

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QAQC Review By: Allison Lui Date Reviewed: 1/26/22

Section 1.0 Scope of Work

Irving R. Newhouse Senate Building | 215 Sid Snyder Avenue SW Olympia, WA

On January 5th and 6th, 2022, Matt DeDominces and Todd Carter, AHERA Accredited Building Inspectors and a DOC certified Lead Building Inspectors for Pacific Rim Environmental, Inc. (PacRim), performed an initial regulated building material survey at the subject property described below.

Site: **Irving R. Newhouse Senate Building:** 29,000 square foot three-story public facility, office building in current use, built in 1934.

Limitations: **Non-Destructive sampling prior to building demolition. A Destructive Survey will be necessary before renovation/demolition can begin.**

Field inspection, data collection, and report generation were performed according to the following **Scope of Work**:

Asbestos-Containing Materials (ACM)

1. Bulk sampling and analysis of suspect asbestos-containing materials (ACM).
2. Analysis of suspect ACM by a NVLAP accredited laboratory.
3. Quantity estimates of ACM.
4. Written report including recommendations based on the technician's observations, abatement (removal) cost estimates (under separate cover), sample descriptions, and sample location.
5. Statement of Compliance with W.A.C. 296-62-07721 Sign-off form.

Lead-Based Paints (LBP)

6. Perform limited screening of suspect lead-based paints.
7. Written report including: Sample descriptions, locations and analytical results.

Polychlorinated Biphenyls (PCB)

8. Sampling of suspect materials for PCB analysis.
9. Written report including: Sample descriptions, locations, and analytical results.

DEFINITIONS:

Surfacing: Materials: which are either spray-applied or troweled-on for acoustical, decorative or fireproofing purposes.

Thermal System Insulation (TSI): Insulating materials used to inhibit heat transfer or to prevent condensation on pipes, boilers, tanks, ducts and various other components.

Miscellaneous: All other materials not included in the above categories such as floor tile, ceiling tile, roofing felt, cementitious materials, wallboard systems and products such as caulking, mastics and putties.

Homogeneous Material: For the purposes of this report; ***Homogeneous Material*** is defined as an area of surfacing material, thermal system insulation, or miscellaneous material that is uniform in color, texture and application. When materials are determined to be Homogeneous by the on-site AHERA Accredited Building Inspector; although laboratory results may vary, in accordance with AHERA regulations, if any of the samples in a Homogeneous Material Sample Set are found to contain asbestos, then all materials in the Sample Set must be considered to contain asbestos.

HM#: Homogeneous Material Number indicates which Homogeneous Material Sample Set that the collected sample belongs to.

Homogeneous Area: For the purposes of this report; ***Homogeneous Area*** is defined as a summary of all areas where a Homogeneous Material was identified within the Project Scope.

PURPOSE:

The survey was intended to identify possible asbestos-containing materials (ACM) on the interior and exterior of the building. This inspection covered only those areas, which were exposed and/or physically accessible to the inspector. ***Materials uncovered during the course of demolition, renovation, or maintenance activities that are not identified in this inspection report must be presumed to contain asbestos until PLM analysis proves that this material is not asbestos-containing.***

This survey is not intended for, nor should be used as a design specification.

The Asbestos in Schools Hazard Amendment and Reauthorization Act (ASHARA), effective November 20, 1990, expanded accreditation requirements to apply to persons who work with asbestos in public and commercial buildings as well as schools. Specifically, ASHARA expanded the Toxic Substances Control Act (TSCA) Section 206 (a) (1) and (3) to require accreditation for any person who designs or conducts a response action with respect to friable ACM in a building. TSCA Section 207 provides for civil penalties of $5,000 for each day of a violation for not employing accredited individuals to design and conduct response actions. Sampling of suspect asbestos-containing materials was conducted as prescribed in 40 CFR 763.86.

Section 3.0 Homogeneous Materials Sampling and Results Summary

Irving R. Newhouse Senate Building | 215 Sid Snyder Avenue SW Olympia, WA

Bulk samples collected were submitted for sample analysis in accordance with method EPA-600/R-93/116: "Method for the Determination of Asbestos in Bulk Building Materials". Analyses were performed at Pacific Environmental, Inc., a NVLAP Accredited Laboratory (Lab Code 100631-0). Materials are positive for asbestos if they are found to contain greater than one percent (1%) or 1% asbestos. Materials that are less than one percent (<1%) asbestos, although not considered positive for asbestos, when removed must follow applicable Washington State regulations.

A total of forty-four (44) bulk samples were collected by PacRim and submitted for PLM laboratory analysis.

Limitations: ***Non-Destructive sampling prior to building demolition. A Destructive Survey will be necessary before renovation/demolition can begin.***

The following materials were determined to be ACM by laboratory analysis:

- **Pipe Insulation**
- **Pipe Fitting Insulation**
- **Waterproofing Mastic**

The following materials were determined to contain <1% asbestos by laboratory analysis:

- **Hard Plaster Walls and Ceilings**
- **Window putty**

Asbestos Sample Summary by Homogenous Number:

HM #	AHERA Category	Sample Description	Est. Quantity	Sample Location	Asbestos Type / %	Sample #
1	Misc.	Wall brick cell insulation	N/A	Rm 212, west wall.	None Detected	1
2	**TSI**	**Pipe Insulation**	**16 L.F.**	**Rm 212, west wall.**	**Chrysotile 60-65%**	**2**
				Rm 212	**Chrysotile 50-55%**	**4**
3	**Surfacing**	**Hard Plaster Walls and Ceilings**	**3,610 S.F.**	**Basement, in mechanical room, north wall.**	**None Detected ***	**33**
				Basement, at mechanical room, east wall.	**None Detected (Both Layers) ***	**34**
				Basement, in mechanical room, south wall.	**Layer 1: (Painted plaster) None Detected Layer 2: (Plaster) Chrysotile <1%**	**35**
				Basement, at north end hallway.	**None Detected ***	**37**
4	Misc.	Carpet Mastic	N/A	2nd floor, south west, storage closet.	None Detected (Both Layers)	5

Section 3.0 Homogeneous Materials Asbestos Sample Summary

Irving R. Newhouse Senate Building | 215 Sid Snyder Avenue SW Olympia, WA

HM #	AHERA Category	Sample Description	Est. Quantity	Sample Location	Asbestos Type / %	Sample #
				1st floor rm 110	None Detected	31
5	Misc.	Wall brick.	N/A	2nd floor, in ceiling access, by rm 217.	None Detected	7
6	Misc.	Floor Leveling Compound	N/A	2nd floor, at north staircase, top landing.	None Detected (Both Layers)	8
7	TSI	Pipe Insulation	N/A	2nd floor, south janitor's closets.	None Detected (Both Layers)	9
				2nd floor, janitorial closet	None Detected (Both Layers)	11
8	**TSI**	**Pipe Fitting Insulation**	**26 Each**	**2nd floor, janitorial closet**	**Chrysotile 7-10%**	**10**
				2nd floor, janitorial closet.	**Layer 1: (Painted wrap) None Detected Layer 2: (Insulation) Chrysotile 5-7%**	**12**
				2nd floor, at women's bathroom, pipe chase.	**Chrysotile 5-7%**	**18**
9	Misc.	Wall brick and mortar.	N/A	2nd floor, south end in attic access.	None Detected (Both Layers)	13
10	Misc.	Cementitious Flooring	N/A	2nd floor, in janitorial closet.	None Detected	15
				1st floor, at stairway.	None Detected	24
11	Surfacing	Hard Plaster Walls and Ceilings	N/A	Rm 212	None Detected (Both Layers)	3
				2nd floor, at hallway, by rm 217.	None Detected	6
				2nd floor, in attic access.	None Detected	14
				2nd floor, storage closet, west wall.	None Detected	17
				2nd floor, janitorial closet, east wall.	None Detected	19
				2nd floor in IT closet, north wall.	None Detected	20
				2nd floor, in IT closet, east wall.	None Detected (Both Layers)	21
				1st floor, in office 102-S, east wall.	None Detected	25
				1st floor, room, q05, west wall.	None Detected	26
				1st floor, rm 110.	None Detected	30
				1st floor, rm 110, ceiling.	None Detected	32
12	Surfacing	Texture on GWB***	N/A	2nd floor, storage closet, north wall.	None Detected (Both Layers)	16
13	**Misc.**	**Window Putty**	**3 L.F.**	**1st floor north exterior wall, window 5.**	**Chrysotile <1%**	**22**

Section 3.0 Homogeneous Materials Asbestos Sample Summary

Irving R. Newhouse Senate Building | 215 Sid Snyder Avenue SW Olympia, WA

HM #	AHERA Category	Sample Description	Est. Quantity	Sample Location	Asbestos Type / %	Sample #
14	Misc.	Duct Sealant	N/A	1st floor, in office 102, drop ceiling.	None Detected	23
15	Misc.	Ceiling Tile, 2ft by 4ft.	N/A	1st floor, rm 109-B.	None Detected	27
16	Misc.	Ceiling Tile Mastic	N/A	1st floor, rm 109-B	None Detected (Both Layers)	28
				1st floor, rm 109	None Detected (Both Layers)	29
17	Misc.	Ceiling Tile, 2ft by 4ft	N/A	Basement at hallway.	None Detected	36
18	Misc.	Sheetrock (GWB)	N/A	Basement, at room, B-2, south wall.	None Detected	38
				Basement, at room B-14	None Detected	40
19	Misc.	Cove Base Mastic, 4-inch gray.	N/A	Basement, room B-2.	None Detected (All Layers)	39
20	Misc.	Gypsum Wall Board /Tape/Joint Compound	N/A	Basement, room B-4	None Detected (Both Layers)	41
21	Misc.	Flooring sheet vinyl	N/A	Basement, men's bathroom (Also in women's bathroom)	None Detected (All Layers)	42
22	Misc.	Cove Base Mastic, 4-inch brown.	N/A	Basement, at room B-10	None Detected (All Layers)	43
23	**Misc.**	**Waterproofing mastic**	**250 S.F.**	**Exterior, window well, south east corner.**	**Layer 1: (Black tar) Chrysotile 3-5%** **Layer 2: (Black tar paper) None Detected** **Layer 3: (Black tar) None Detected**	**44**

Materials uncovered during the course of demolition, renovation, or maintenance activities that are not identified in this inspection report must be presumed to contain asbestos until PLM analysis proves that this material is not asbestos containing.

Section 4.0 Statement of Compliance

Irving R. Newhouse Senate Building | 215 Sid Snyder Avenue SW Olympia, WA

In accordance with W.A.C. 296-62-07721 and PSCAA Regulation III, Article 4, Pacific Rim Environmental, Inc. performed an initial regulated building material survey of the subject structure located at 215 Sid Snyder Avenue SW in Olympia, Washington. Should employees or contract personnel encounter any suspect asbestos-containing materials (ACM) it is their responsibility to:

1. Contact a representative of the owner.
2. Consult the inspection report to determine whether or not the suspect material contains asbestos.
3. If the suspect material does not appear in the inspection report, then that material was not sampled and must be presumed to contain asbestos until proven otherwise by sampling and PLM analysis.
4. Ensure that all employees and contractors, who may disturb suspect materials, are informed and advised of the location and type of materials that contain asbestos.

Limitations: ***Non-Destructive sampling prior to building demolition. A Destructive Survey will be necessary before renovation/demolition can begin.***

The following materials were determined to be ACM by laboratory analysis:

- **Pipe Insulation**
- **Pipe Fitting Insulation**
- **Waterproofing Mastic**

The following materials were determined to <u>contain <1% asbestos</u> by laboratory analysis:

- **Hard Plaster Walls and Ceilings**
- **Window putty**

I Hereby Attest:

The inspection report has been made available to me. I will inform all subcontractors of the location and types of materials containing asbestos. I am authorized to sign on behalf of my company.

Contractor:	_____	Owner's Rep:	_____
Signature:	_____	Signature:	_____
Print Name:	_____	Print Name:	_____
Title:	_____	Title:	_____
Date:	_____	Date:	_____

Section 5.0 Lead-Based Paint Screening Summary

Irving R. Newhouse Senate Building | 215 Sid Snyder Avenue SW Olympia, Seattle, WA

The inspection and testing performed on the interior and exterior painted surfaces of the subject Property ***did identify*** lead-based paint concentrations at or above the EPA/HUD standard of 1.0 mg/cm^2 on the following components:

Test #	Substrate	Component / Side	Description / Location	Color	Pbc mg/cm2
5	Plaster	Wall	North stairwell	Ivory	5.8
6	Plaster	Wall	North hall basement	Ivory	8.0
13	Plaster	Wall	South stairwell	Ivory	9.7
14	Plaster	Wall	South stair	Ivory	7.0
18	Plaster	Wall	North stairwell	Ivory	8.6
19	Plaster	Wall	Floor 1 hallway	Ivory	10.4
21	Plaster	Lower wall	Floor 1 hallway	Ivory	12.2
22	Plaster	Wall	Floor 1 hallway	Ivory	6.5
23	Plaster	Wall	Floor 2 hallway	Ivory	8.1
26	Plaster	Wall	Floor 2 Hallway	Ivory	6.8
29	Wood	Closet door	Floor 2 janitor closet	Ivory	9.7
30	Wood	Door trim	Floor 2 janitor closet	Ivory	11.7
31	Metal	Lamp pole	Back entrance	Brown	10.1

The XRF sample results are provided in Appendix E.
The Performance Characteristic Sheet for the Niton XLp 300, September 24, 2004, is provided in Appendix F.

General Information:

It is important to keep in mind that although the EPA/HUD standard uses a criterion of 5,000 parts per million dry weight or 1.00 milligrams per square centimeter (1.00 mg/cm^2) for lead-based paint, there still may be lead present in those results reported as negative. In the event that lead is present, Federal OSHA and Washington State Department of Labor & Industries regulations will still apply, since neither agency has established a concentration of lead in paint below which the lead in construction standards do not apply. Workers wearing respiratory protection and who have received proper training in the handling of lead contaminated materials must be used for any construction activities (including manual scraping, manual/power sanding, heat gun applications, general cleanup, and demolition) that affect a paint film containing lead.

If the building is to be renovated or remodeled there are procedures regarding the disturbance or removal of the lead-based paints that **can** be followed (i.e. initial air monitoring, clearance sampling, etc.). These procedures can be found in *HUD-0006700 Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*. It is not required that these regulations/procedures be utilized on this project, however because these are the only available guidelines for the removal of lead-based paints PRE feels it necessary to inform you of these guidelines.

The current state rules or regulations that currently apply to lead-based paints are WAC 296-155-17603 Scope* and WAC 296-155-17607 Permissible Exposure Limit**. The WAC code states that if lead is detectable in the workplace in any quantity, initial air monitoring must be performed on employees doing demolition, renovation or remodeling work in areas found to have materials containing lead. Also, workers performing lead removal must be trained in accordance with WAC 296-155-17625.

Section 6.0 Polychlorinated Biphenyls Analysis (PCB) Summary

Irving R. Newhouse Senate Building | 215 Sid Snyder Avenue SW Olympia, Seattle, WA

1.0 Introduction

This section summarizes the sample collection and analysis of suspect PCB containing materials from the site. The PCB concentrations will be used to determine the appropriate handling and disposal requirements.

2.0 Description of Work

Pacific Rim Environmental (PacRim) collected samples of the suspect PCB-containing sealant products observed during the survey. Workers wore standard Personnel Protective Equipment (PPE) and disposable nitrile gloves.

3.0 Sample Collection Procedures

Samples were collected using a razor knife or other hand tools. The samples were placed directly into clean sample containers and stored in an iced cooler. The sampling tools were cleaned before and after each sample using acetone followed by an alconox solution scrub and a triple-rinse in de-ionized water. A new pair of disposable gloves was worn during the collection of each sample.

4.0 Sample Containers

Samples were placed in clear glass sample containers (4 ounce certified clean jars with teflon-lined lids) and labeled with a unique identifier. Sample containers were provided by the analytical laboratory.

5.0 Sample Preparation

No sample preparation is required for this method.

6.0 Sample Preservation

The samples were stored in an iced cooler during the sample collection and shipping process. Once collected, the sample containers were not opened until received by laboratory.

7.0 Sample Documentation

Sample location information was logged on a field data sheet and photographed. Samples were shipped and received under chain-of-custody procedures to the analytical laboratory.

8.0 Analytical Procedures

Samples were analyzed by EMSL utilizing EPA SW-846 Method 3550C 8082/608.3.
Laboratory Accreditations are provided in Appendix H.

8.1 Analytical Results

Zero (0) of the samples were found to contain PCB greater than the regulatory limit. The tabulated results are provided below in Table A. Laboratory analysis reports are provided in Appendix G.

TABLE A

Sample Date	Sample Number	Sample Location	Parameter	Sample Result	Regulatory Limit
1-5-22	PCB-1	Window frame sealant Back of building Floor 1	Aroclor-1254	1.6 mg/kg	50 mg/kg (ppm)
1-5-22	PCB-2	Window sealant Back of building Floor 1	Aroclor 1254	1.3 mg/kg	50 mg/kg (ppm)

Appendix A: **Asbestos Inspection Summary**

Pacific Rim Environmental Inc.
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Seattle, WA 98188
(206)244-8965 www.PacRimEnv.com

Inspection Summary

Project Information	
Job Number	17283
Project Name	Irving R. Newhouse Senate Building
Project Address:	215 Sid Snyder Ave. SW, Olympia, WA 98504
Client:	GeoEngineers, Inc.
Date of Survey:	05-Jan-2022
PacRim Technician:	Matt DeDominces
Limitations:	Initial non-destructive sampling prior to building demolition. Destructive demo survey is needed before demolition can begin.
Exterior Photo:	
Turnaround Requested:	3-5 Days

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Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	01	**Homogenous Material Number**	1	
Material Description	Wall brick cell insulation.			
Homogenous Mtl Area	N/A			
Sample Location	Rm 212, West wall.			
Quantity	20	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	TSI	
Sample Number	02	**Homogenous Material Number**	2	
Material Description	Pipe Insulation			
Homogenous Mtl Area	N/A			
Sample Location	Rm 212, West wall.			
Quantity	8	**Unit of Measure**	Lineal Feet	
Asbestos Type/%	**Chrysotile 60-65%**			
Sample Photo				

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Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Surfacing	
Sample Number	03	**Homogenous Material Number**	11	
Material Description	Hard Plaster Walls and Ceilings			
Homogenous Mtl Area	N/A			
Sample Location	Rm 212			
Quantity	30	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected (Both Layers)**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	TSI	
Sample Number	04	**Homogenous Material Number**	2	
Material Description	Pipe Insulation			
Homogenous Mtl Area	N/A			
Sample Location	Rm 212			
Quantity	8	**Unit of Measure**	Lineal Feet	
Asbestos Type/%	**Chrysotile 50-55%**			
Sample Photo				

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Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	05	**Homogenous Material Number**	4	
Material Description	Carpet Mastic			
Homogenous Mtl Area	N/A			
Sample Location	2nd floor, southwest, storage closet.			
Quantity	640	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected (Both Layers)**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Surfacing	
Sample Number	06	**Homogenous Material Number**	11	
Material Description	Hard Plaster Walls and Ceilings			
Homogenous Mtl Area	N/A			
Sample Location	2nd floor, at hallway, by rm 217.			
Quantity	Throughout.	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

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Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	07	**Homogenous Material Number**	5	
Material Description	Wall brick.			
Homogenous Mtl Area	N/A			
Sample Location	2nd floor, in ceiling access, by rm 217.			
Quantity	Throughout.	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	08	**Homogenous Material Number**	6	
Material Description	Floor Leveling Compound			
Homogenous Mtl Area	N/A			
Sample Location	2nd floor, at north staircase, top landing.			
Quantity	100	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected (Both Layers)**			
Sample Photo				

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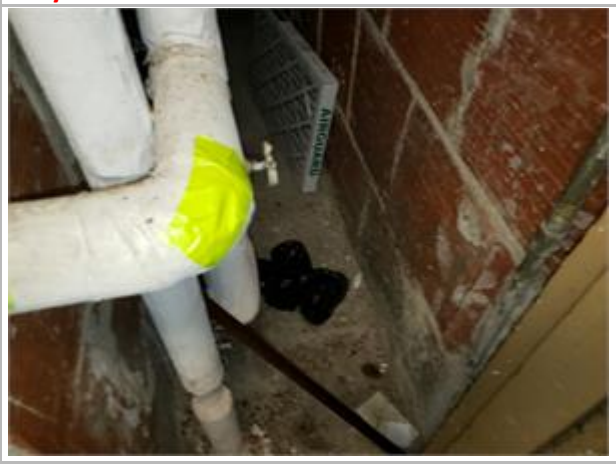
Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	TSI	
Sample Number	09	**Homogenous Material Number**	7	
Material Description	Pipe Insulation			
Homogenous Mtl Area	N/A			
Sample Location	2nd floor, south janitor's closets.			
Quantity	40	**Unit of Measure**	Lineal Feet	
Asbestos Type/%	**None Detected (Both Layers)**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	TSI	
Sample Number	10	**Homogenous Material Number**	8	
Material Description	Pipe Fitting Insulation			
Homogenous Mtl Area	N/A			
Sample Location	2nd floor, janitorial closet			
Quantity	20	**Unit of Measure**	Lineal Feet	
Asbestos Type/%	**Chrysotile 7-10%**			
Sample Photo				

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Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	TSI	
Sample Number	11	**Homogenous Material Number**	7	
Material Description	Pipe Insulation			
Homogenous Mtl Area	N/A			
Sample Location	2nd floor, janitorial closet			
Quantity	40	**Unit of Measure**	Lineal Feet	
Asbestos Type/%	**None Detected (Both Layers)**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	TSI	
Sample Number	12	**Homogenous Material Number**	8	
Material Description	Pipe Fitting Insulation			
Homogenous Mtl Area	N/A			
Sample Location	2nd floor, janitorial closet.			
Quantity	See 10	**Unit of Measure**	Each	
Asbestos Type/%	**Layer 1: (Painted wrap) None Detected** **Layer 2: (White insulation) Chrysotile 5-7%**			
Sample Photo				

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Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	13	**Homogenous Material Number**	9	
Material Description	Wall brick and mortar.			
Homogenous Mtl Area	N/A			
Sample Location	2nd floor, south end in attic access.			
Quantity	Throughout.	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Surfacing	
Sample Number	14	**Homogenous Material Number**	11	
Material Description	Hard Plaster Walls and Ceilings			
Homogenous Mtl Area	N/A			
Sample Location	2nd floor, in attic access.			
Quantity	Through out	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

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Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	15	**Homogenous Material Number**	10	
Material Description	Cementitious Flooring			
Homogenous Mtl Area	N/A			
Sample Location	2nd floor, in janitorial closet.			
Quantity	Throughout.	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Surfacing	
Sample Number	16	**Homogenous Material Number**	12	
Material Description	Texture on GWB			
Homogenous Mtl Area	N/A			
Sample Location	2nd floor, storage closet, north wall.			
Quantity	100	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected (Both Layers)**			
Sample Photo				

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Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Surfacing	
Sample Number	17	**Homogenous Material Number**	11	
Material Description	Hard Plaster Walls and Ceilings			
Homogenous Mtl Area	N/A			
Sample Location	2nd floor, storage closet, west wall.			
Quantity	Throughout.	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	TSI	
Sample Number	18	**Homogenous Material Number**	8	
Material Description	Pipe Fitting Insulation			
Homogenous Mtl Area	N/A			
Sample Location	2nd floor, at women's bathroom, pipe chase.			
Quantity	6	**Unit of Measure**	Each	
Asbestos Type/%	**Chrysotile 5-7%**			
Sample Photo				

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Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Surfacing	
Sample Number	19	**Homogenous Material Number**	11	
Material Description	Hard Plaster Walls and Ceilings			
Homogenous Mtl Area	N/A			
Sample Location	2nd floor, janitorial closet, east wall.			
Quantity	Through out	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Surfacing	
Sample Number	20	**Homogenous Material Number**	11	
Material Description	Hard Plaster Walls and Ceilings			
Homogenous Mtl Area	N/A			
Sample Location	2nd floor in IT closet, north wall.			
Quantity	Throughout.	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

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Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Surfacing	
Sample Number	21	**Homogenous Material Number**	11	
Material Description	Hard Plaster Walls and Ceilings			
Homogenous Mtl Area	N/A			
Sample Location	2nd floor, in IT closet, east wall.			
Quantity	Throughout.	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected (Both Layers)**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	22	**Homogenous Material Number**	13	
Material Description	Window Putty			
Homogenous Mtl Area	N/A			
Sample Location	1st floor north exterior wall, window 5.			
Quantity	3	**Unit of Measure**	Lineal Feet	
Asbestos Type/%	**Chrysotile <1%**			
Sample Photo				

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Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	23	**Homogenous Material Number**	14	
Material Description	Duct Sealant			
Homogenous Mtl Area	N/A			
Sample Location	1st floor, in office 102, drop ceiling.			
Quantity	2	**Unit of Measure**	Lineal Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	24	**Homogenous Material Number**	10	
Material Description	Cementitious Flooring			
Homogenous Mtl Area	N/A			
Sample Location	1st floor, at stairway.			
Quantity	Throughout.	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

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Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Surfacing	
Sample Number	25	**Homogenous Material Number**	11	
Material Description	Hard Plaster Walls and Ceilings			
Homogenous Mtl Area	N/A			
Sample Location	1st floor, in office 102-S, east wall.			
Quantity	Throughout.	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Surfacing	
Sample Number	26	**Homogenous Material Number**	11	
Material Description	Hard Plaster Walls and Ceilings			
Homogenous Mtl Area	N/A			
Sample Location	1st floor, room, 105, west wall.			
Quantity	Throughout.	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

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Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	27	**Homogenous Material Number**	15	
Material Description	Ceiling Tile, 2ft by 4ft.			
Homogenous Mtl Area	N/A			
Sample Location	1st floor, rm 109-B.			
Quantity	8,200	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	28	**Homogenous Material Number**	16	
Material Description	Ceiling tile mastic.			
Homogenous Mtl Area	N/A			
Sample Location	1st floor, rm 109-B			
Quantity	8,200	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

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Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	29	**Homogenous Material Number**	16	
Material Description	Ceiling Tile, mastic.			
Homogenous Mtl Area	N/A			
Sample Location	1st floor, rm 109			
Quantity	See 28	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected (Both Layers)**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Surfacing	
Sample Number	30	**Homogenous Material Number**	11	
Material Description	Hard Plaster Walls and Ceilings			
Homogenous Mtl Area	N/A			
Sample Location	1st floor, rm 110.			
Quantity	N/A	**Unit of Measure**	N/A	
Asbestos Type/%	**None Detected (Both Layers)**			
Sample Photo				

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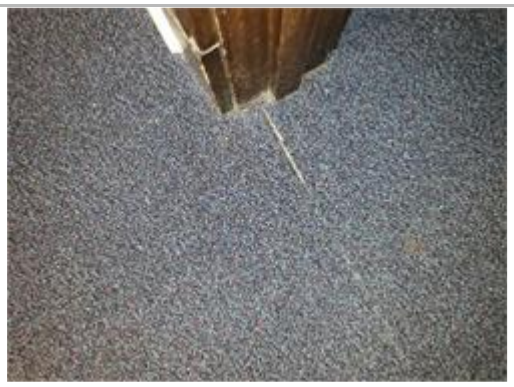
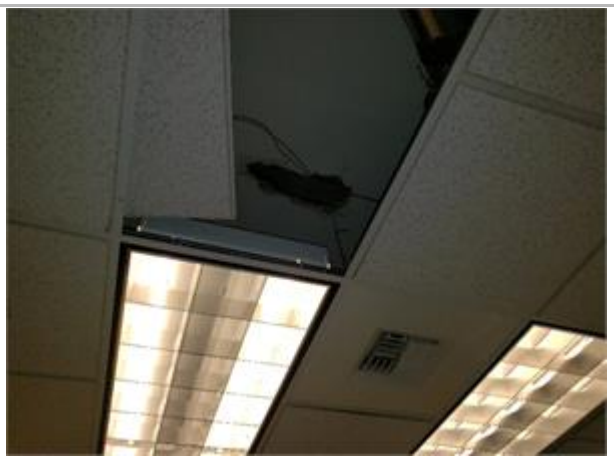
Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	31	**Homogenous Material Number**	4	
Material Description	Carpet Mastic			
Homogenous Mtl Area	N/A			
Sample Location	1st floor rm 110			
Quantity	8,200	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Surfacing	
Sample Number	32	**Homogenous Material Number**	11	
Material Description	Hard Plaster Walls and Ceilings			
Homogenous Mtl Area	N/A			
Sample Location	1st floor, rm 110, ceiling.			
Quantity	8,200	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

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Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Surfacing	
Sample Number	33	**Homogenous Material Number**	3	
Material Description	Hard Plaster Walls and Ceilings			
Homogenous Mtl Area	N/A			
Sample Location	Basement, in mechanical room, north wall.			
Quantity	180	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Surfacing	
Sample Number	34	**Homogenous Material Number**	3	
Material Description	Hard Plaster Walls and Ceilings			
Homogenous Mtl Area	N/A			
Sample Location	Basement, at mechanical room, east wall.			
Quantity	240	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

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Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Surfacing	
Sample Number	35	**Homogenous Material Number**	3	
Material Description	Hard Plaster Walls and Ceilings			
Homogenous Mtl Area	N/A			
Sample Location	Basement, in mechanical room, south wall.			
Quantity	190	**Unit of Measure**	Square Feet	
Asbestos Type/%	**Layer 1: (Painted plaster) None Detected** **Layer 2: (Lt grn/wht plaster) Chrysotile <1%**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	36	**Homogenous Material Number**	17	
Material Description	Ceiling Tile, 2ft by 4ft			
Homogenous Mtl Area	N/A			
Sample Location	Basement at hallway.			
Quantity	6,400	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

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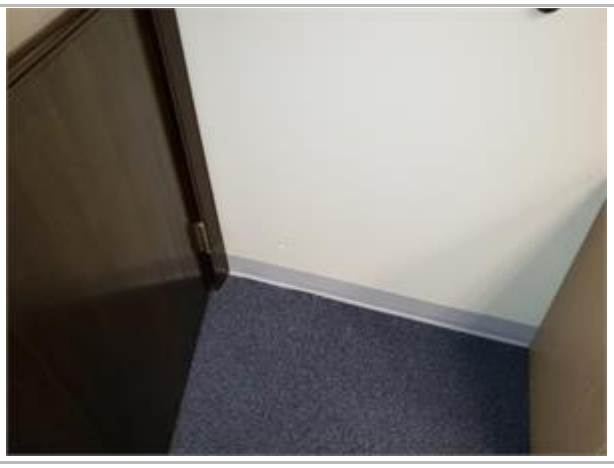
Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Surfacing	
Sample Number	37	**Homogenous Material Number**	3	
Material Description	Hard Plaster Walls and Ceilings			
Homogenous Mtl Area	N/A			
Sample Location	Basement, at north end hallway.			
Quantity	3,000	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	38	**Homogenous Material Number**	18	
Material Description	Sheetrock (GWB)			
Homogenous Mtl Area	N/A			
Sample Location	Basement, at room, B-2, south wall.			
Quantity	200	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

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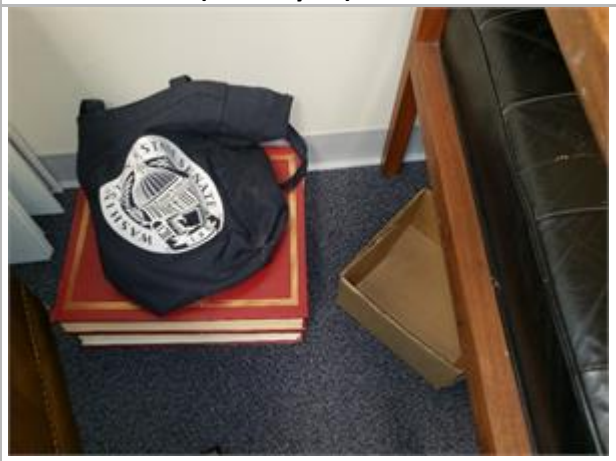
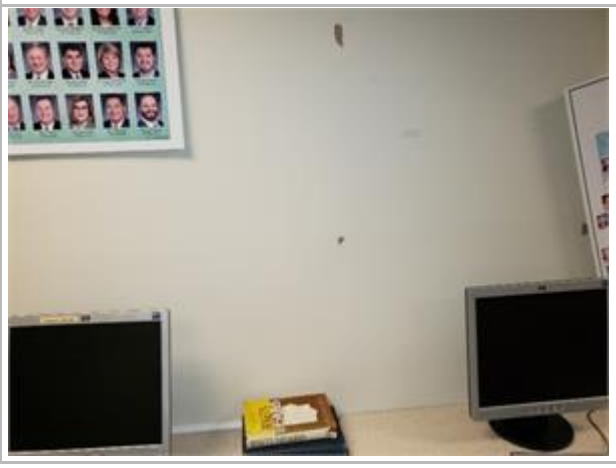
Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	39	**Homogenous Material Number**	19	
Material Description	Cove Base Mastic, 4-inch gray.			
Homogenous Mtl Area	N/A			
Sample Location	Basement, room B-2.			
Quantity	N/A	**Unit of Measure**	N/A	
Asbestos Type/%	**None Detected (Both layers)**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	40	**Homogenous Material Number**	18	
Material Description	Sheetrock (GWB)			
Homogenous Mtl Area	N/A			
Sample Location	Basement, at room B-14			
Quantity	600	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected**			
Sample Photo				

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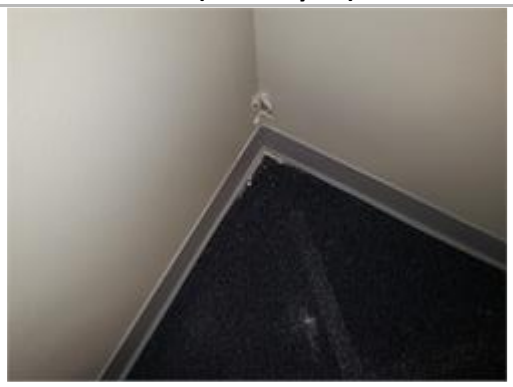
Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	41	**Homogenous Material Number**	20	
Material Description	Gypsum Wall Board/Tape/Joint Compound			
Homogenous Mtl Area	N/A			
Sample Location	Basement, room B-4			
Quantity	700	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected (Both Layers)**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	42	**Homogenous Material Number**	21	
Material Description	Flooring sheet vinyl			
Homogenous Mtl Area	The quantity reflects the material also seen in the women's bathroom.			
Sample Location	Basement, men’s bathroom.			
Quantity	150	**Unit of Measure**	Square Feet	
Asbestos Type/%	**None Detected (All Layers)**			
Sample Photo				

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Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	43	**Homogenous Material Number**	22	
Material Description	Cove Base Mastic, 4 inch brown.			
Homogenous Mtl Area	N/A			
Sample Location	Basement, at room B-10			
Quantity	45	**Unit of Measure**	Lineal Feet	
Asbestos Type/%	**None Detected (All Layers)**			
Sample Photo				

Sample			Sample Date	05-Jan-2022
Project Name	Irving R. Newhouse Senate Building			
Sample Type	Physical Sample	**AHERA Category**	Miscellaneous	
Sample Number	44	**Homogenous Material Number**	23	
Material Description	Waterproofing mastic			
Homogenous Mtl Area	N/A			
Sample Location	Exterior, window well, southeast corner.			
Quantity	250	**Unit of Measure**	Square Feet	
Asbestos Type/%	**Layer 1: (Black tar) Chrysotile 3-5%** **Layer 2: (Black tar paper) None Detected** **Layer 3: (Black tar) None Detected**			
Sample Photo				

Appendix B: **Bulk Sample Analysis Report**

Pacific Rim Environmental Inc.
Bulk Sample Analysis Report

Customer Name:	**GeoEngineers, Inc.** 600 Stewart St., Ste. 1700 Seattle WA 98101	**PacRim Number:**	17283
		Report Number:	2022-01-0154
		Date Received:	1/11/2022
		Analysis Start Date:	1/12/2022
Customer Project Number:	None Given	**Analysis End Date:**	1/13/2022
Project Name:	Irving R. Newhouse Senate Building	**Turnaround Time:**	3-5 Days
Project Address:	215 Sid Snyder Avenue SW Olympia WA 98504	**Report Date:**	1/13/2022
		Report By:	William F. Golloway
		Analyst(s):	William F. Golloway
PO Number:	None Given	**Samples Analyzed for this report**	
Sample Date:	05-Jan-2022	**Beginning Laboratory ID Number:**	**2022-01-0154**
Total Samples:	44	**Ending Laboratory ID Number:**	**2022-01-0197**
		Sample Set Number	2022-3083

The bulk samples submitted were analyzed for asbestos content using Polarized Light Microscopy (PLM). Analysis was performed in accordance with Appendix E to Subpart E of 40 CFR Part 763 and EPA/600/R93/116.

The test results pertain only to the samples submitted for analysis. Unless otherwise noted, the samples were inhomogeneous; subsamples of components were analyzed to achieve representative analysis. Separate layers of layered samples were analyzed and reported separately. Unless otherwise stated, asbestos content was quantified by calibrated visual estimation (CVES). CVES concentrations are reported in two to three percent ranges for fiber concentrations ranging from one to ten percent, and usually five percent ranges for concentrations greater than ten percent. Samples in which asbestos was not observed are reported as “None Detected”.

Limitations and Uncertainty:

Factors such as sample quality, sample size, interfering matrix material, fiber size, and fiber concentration contribute to the uncertainty in asbestos concentration estimates in bulk materials. Relative errors exceeding 100% may occur in samples containing less than ten percent asbestos. Relative errors are typically below thirty percent in samples having greater than ten percent asbestos, and approach zero as asbestos concentrations approach 100%.

Asbestos fibers with diameters less than approximately 0.25 microns are not detectable by PLM. Fibers with larger diameters may not be visible if obscured by interfering matrix materials. These extremely fine fibers may occur in floor tiles, adhesives, products with cement binders, and other non-friable or semi-friable materials. This limitation can be overcome using alternate analytical methods, such as Transmission Electron Microscopy (TEM).

NVLAP Accredited Lab #: 101631-0
Samples Submitted by: PacRim

Report Reviewed by: 1-13-2022
Approved Signatory

Pacific Rim Environmental Inc.
Bulk Sample Analysis Report

Customer Name: GeoEngineers, Inc.
Customer Project Number: None Given
Project Name: Irving R. Newhouse Senate Building
Sample Date: 05-Jan-2022
Report Date: 1/13/2022
Report By: William F. Golloway

Sample Set Number 2022-3083

PacRim Number: 17283
Report Number: 2022-01-0154
Date Received: 1/11/2022
Analysis Start Date: 1/12/2022
Analysis End Date: 1/13/2022
Analyst(s): William F. Golloway

Field Sample Number: 01
Lab ID: **2022-01-0154**
Field Sample Description: Wall brick cell insulation.
Field Sample Location: Rm 212, west wall.
Analyst: WFG
Analysis Date: 1/12/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Pale grey-brown, coarse-grained, mortar-like material Note: Sample appears to be homogeneous.	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder

Field Sample Number: 02
Lab ID: **2022-01-0155**
Field Sample Description: Pipe Insulation
Field Sample Location: Rm 212, west wall.
Analyst: WFG
Analysis Date: 1/12/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
White, fibrous, aircell-like insulation material with associated white, woven wrap and dark brown to black tar paper fragment	**Chrysotile 60-65%**	Cellulose 3-5%	Mineral Aggregate, Binder, Tar

Field Sample Number: 03
Lab ID: **2022-01-0156**
Field Sample Description: Hard Plaster Walls and Ceilings
Field Sample Location: Rm 212
Analyst: WFG
Analysis Date: 1/12/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Layer: 1	White-painted, white, coarse-grained, texture-like material	**None Detected**	Cellulose 1-3%	Mineral Aggregate, Binder, Paint
Layer: 2	Pink/white/light brown-panted, light brown, coarse-grained plaster-like material	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder, Paint

Field Sample Number: 04
Lab ID: **2022-01-0157**
Field Sample Description: Pipe Insulation
Field Sample Location: Rm 212
Analyst: WFG
Analysis Date: 1/12/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
White, fibrous, aircell-like insulation with associated, white, wovent wrap, brown to black tar paper, and small, white, coarse-grained, plaster-like fragments	**Chrysotile 50-55%**	Cellulose 5-7%	Mineral Aggregate, Binder, Tar

Pacific Rim Environmental Inc.
Bulk Sample Analysis Report

Customer Name: GeoEngineers, Inc.
Customer Project Number: None Given
Project Name: Irving R. Newhouse Senate Building
Sample Date: 05-Jan-2022
Report Date: 1/13/2022
Report By: William F. Golloway

Sample Set Number 2022-3083

PacRim Number: 17283
Report Number: 2022-01-0154
Date Received: 1/11/2022
Analysis Start Date: 1/12/2022
Analysis End Date: 1/13/2022
Analyst(s): William F. Golloway

Field Sample Number: 05
Lab ID: **2022-01-0158**
Field Sample Description: Carpet Mastic
Field Sample Location: 2nd floor, south west, storage closet.
Analyst: WFG
Analysis Date: 1/12/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Layer: 1	Light yellow, pliable mastic with embedded fibers	**None Detected**	Synthetics <1% Cellulose <1%	Adhesive, Mineral Aggregate, Binder
Layer: 2	Light blue-green, tacky, pliable mastic with embedded mesh Note: Overlaying carpet was not tested.	**None Detected**	Synthetics 50-55% Cellulose <1%	Adhesive, Mineral Aggregate, Binder

Field Sample Number: 06
Lab ID: **2022-01-0159**
Field Sample Description: Hard Plaster Walls and Ceilings
Field Sample Location: 2nd floor, at hallway, by rm 217.
Analyst: WFG
Analysis Date: 1/12/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
White to light grey and light brown, coarse-grained, plaster-like material	**None Detected**	Cellulose <1% Fibrous Glass <1%	Mineral Aggregate, Binder

Field Sample Number: 07
Lab ID: **2022-01-0160**
Field Sample Description: Wall brick.
Field Sample Location: 2nd floor, in ceiling access, by rm 217.
Analyst: WFG
Analysis Date: 1/12/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Orange, brittle, brick-like material with white, powdery surface residue	**None Detected**	Cellulose <1% Fibrous Glass <1%	Mineral Aggregate, Binder, Refractory

Field Sample Number: 08
Lab ID: **2022-01-0161**
Field Sample Description: Floor Leveling Compound
Field Sample Location: 2nd floor, at north staircase, top landing.
Analyst: WFG
Analysis Date: 1/12/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Layer: 1	Light blue-green, pliable, tacky mastic	**None Detected**	Cellulose <1%	Adhesive, Mineral Aggregate, Binder
Layer: 2	Light grey, brittle, fine-grained leveling compound	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder

Pacific Rim Environmental Inc.
Bulk Sample Analysis Report

Customer Name: GeoEngineers, Inc.
Customer Project Number: None Given
Project Name: Irving R. Newhouse Senate Building
Sample Date: 05-Jan-2022
Report Date: 1/13/2022
Report By: William F. Golloway

Sample Set Number 2022-3083

PacRim Number: 17283
Report Number: 2022-01-0154
Date Received: 1/11/2022
Analysis Start Date: 1/12/2022
Analysis End Date: 1/13/2022
Analyst(s): William F. Golloway

Field Sample Number: 09 | **Field Sample Description:** Pipe Insulation | **Field Sample Location:** 2nd floor, south janitor's closets. | **Analyst:** WFG
Lab ID: 2022-01-0162 | **Analysis Date:** 1/12/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Layer: 1	White-painted, white, woven wrap	**None Detected**	Fibrous Glass 50-55% Cellulose <1%	Paint, Mineral Aggregate, Binder
Layer: 2	Brown, fibrous insulation material with inseparable, white, woven wrap	**None Detected**	Cellulose 65-70% Synthetics 7-10% Animal Hair 1-3% Fibrous Glass <1%	Binder, Mineral Aggregate

Field Sample Number: 10 | **Field Sample Description:** Pipe Fitting Insulation | **Field Sample Location:** 2nd floor, janitorial closet | **Analyst:** WFG
Lab ID: 2022-01-0163 | **Analysis Date:** 1/12/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
White, chalky insulation with embedded fibers and light grey ot white wrap	**Chrysotile 7-10%**	Cellulose 15-20%	Binder, Mineral Aggregate

Field Sample Number: 11 | **Field Sample Description:** Pipe Insulation | **Field Sample Location:** 2nd floor, janitorial closet | **Analyst:** WFG
Lab ID: 2022-01-0164 | **Analysis Date:** 1/12/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Layer: 1	White-painted, white to light brown, wovern wrap	**None Detected**	Cellulose 65-70%	Paint, Binder, Mineral Aggregate
Layer: 2	Brown, fibrous insulation material	**None Detected**	Cellulose 80-85% Synthetics 7-10% Animal Hair 1-3%	Binder

Field Sample Number: 12 | **Field Sample Description:** Pipe Fitting Insulation | **Field Sample Location:** 2nd floor, janitorial closet. | **Analyst:** WFG
Lab ID: 2022-01-0165 | **Analysis Date:** 1/12/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Layer: 1	White-painted, white, woven wrap with white, powdery binder	**None Detected**	Fibrous Glass 60-65% Cellulose <1%	Paint, Mineral Aggregate, Binder
Layer: 2	White, chalky/powdery insulation with embedded fibers and inseparable, white, woven wrap	**Chrysotile 5-7%**	Cellulose 25-30%	Binder, Mineral Aggregate

Pacific Rim Environmental Inc.
Bulk Sample Analysis Report

Customer Name:	**GeoEngineers, Inc.**	**PacRim Number:**	17283
Customer Project Number:	None Given	**Report Number:**	2022-01-0154
Project Name:	Irving R. Newhouse Senate Building	**Date Received:**	1/11/2022
Sample Date:	05-Jan-2022	**Analysis Start Date:**	1/12/2022
Report Date:	1/13/2022	**Analysis End Date:**	1/13/2022
Report By:	William F. Golloway	**Analyst(s):**	William F. Golloway

Sample Set Number 2022-3083

Field Sample Number: 13 | **Field Sample Description:** Wall brick and mortar. | **Field Sample Location:** 2nd floor, south end in attic access. | **Analyst:** WFG
Lab ID: **2022-01-0166** | **Analysis Date:** 1/12/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Layer: 1	Orange brittle brick material	**None Detected**	No Other Fibers Detected	Mineral Aggregate, Binder, Refractory
Layer: 2	Light grey, cementitious mortar material	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder

Field Sample Number: 14 | **Field Sample Description:** Hard Plaster Walls and Ceilings | **Field Sample Location:** 2nd floor, in attic access. | **Analyst:** WFG
Lab ID: **2022-01-0167** | **Analysis Date:** 1/12/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
White, light brown and grey, large aggregate with loose, white, coarse-grained, plaster-like material	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder

Field Sample Number: 15 | **Field Sample Description:** Cementitious Flooring | **Field Sample Location:** 2nd floor, in janitorial closet. | **Analyst:** WFG
Lab ID: **2022-01-0168** | **Analysis Date:** 1/12/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Light grey, black, and pink, cementitious material with white, powdery surface residue	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder

Field Sample Number: 16 | **Field Sample Description:** Texture on GWB | **Field Sample Location:** 2nd floor, storage closet, north wall. | **Analyst:** WFG
Lab ID: **2022-01-0169** | **Analysis Date:** 1/12/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Layer: 1	White-painted, pink and white, coarse-grained texture material	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder, Paint
Layer: 2	White, chalky drywall with light brown paper	**None Detected**	Cellulose 1-3% Fibrous Glass 1-3%	Gypsum, Mineral Aggregate, Binder, Mica

Pacific Rim Environmental Inc.
Bulk Sample Analysis Report

Customer Name:	**GeoEngineers, Inc.**	**PacRim Number:**	17283
Customer Project Number:	None Given	**Report Number:**	2022-01-0154
Project Name:	Irving R. Newhouse Senate Building	**Date Received:**	1/11/2022
Sample Date:	05-Jan-2022	**Analysis Start Date:**	1/12/2022
Report Date:	1/13/2022	**Analysis End Date:**	1/13/2022
Report By:	William F. Golloway	**Analyst(s):**	William F. Golloway

Sample Set Number 2022-3083

Field Sample Number: 17 | **Lab ID:** **2022-01-0170** | **Field Sample Description:** Hard Plaster Walls and Ceilings | **Field Sample Location:** 2nd floor, storage closet, west wall. | **Analyst:** WFG | **Analysis Date:** 1/12/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
White-painted, white, chalky mud-like material	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder, Paint

Field Sample Number: 18 | **Lab ID:** **2022-01-0171** | **Field Sample Description:** Pipe Fitting Insulation | **Field Sample Location:** 2nd floor, at women's bathroom, pipe chase. | **Analyst:** WFG | **Analysis Date:** 1/12/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Off-white to light grey, chalky, rust-stained insulation material with embedded fibers	**Chrysotile 5-7%**	Cellulose <1%	Mineral Aggregate, Binder, Diatomaceous Earth

Field Sample Number: 19 | **Lab ID:** **2022-01-0172** | **Field Sample Description:** Hard Plaster Walls and Ceilings | **Field Sample Location:** 2nd floor, janitorial closet, east wall. | **Analyst:** WFG | **Analysis Date:** 1/12/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
White/light green/light brown-painted, light grey, coarse-grained plaster	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder, Paint

Field Sample Number: 20 | **Lab ID:** **2022-01-0173** | **Field Sample Description:** Hard Plaster Walls and Ceilings | **Field Sample Location:** 2nd floor in IT closet, north wall. | **Analyst:** WFG | **Analysis Date:** 1/12/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
White-painted, light grey, coarse-grained plaster-like material	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder, Paint

Pacific Rim Environmental Inc.
Bulk Sample Analysis Report

Customer Name: GeoEngineers, Inc.
Customer Project Number: None Given
Project Name: Irving R. Newhouse Senate Building
Sample Date: 05-Jan-2022
Report Date: 1/13/2022
Report By: William F. Golloway

Sample Set Number 2022-3083

PacRim Number: 17283
Report Number: 2022-01-0154
Date Received: 1/11/2022
Analysis Start Date: 1/12/2022
Analysis End Date: 1/13/2022
Analyst(s): William F. Golloway

Field Sample Number: 21
Lab ID: **2022-01-0174**
Field Sample Description: Hard Plaster Walls and Ceilings
Field Sample Location: 2nd floor, in IT closet, east wall.
Analyst: WFG
Analysis Date: 1/12/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Layer: 1	White-painted, white to light grey, coarse-grained plaster material	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder, Paint
Layer: 2	Orange, brittle brick material	**None Detected**	No Other Fibers Detected	Mineral Aggregate, Binder, Refractory

Field Sample Number: 22
Lab ID: **2022-01-0175**
Field Sample Description: Window Putty
Field Sample Location: 1st floor north exterior wall, window 5.
Analyst: WFG
Analysis Date: 1/12/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Grey to grey-brown, flexible, caulk-like material with adhering fibers	**Chrysotile <1%**	Cellulose <1%	Binder, Mineral Aggregate

Field Sample Number: 23
Lab ID: **2022-01-0176**
Field Sample Description: Duct Sealant
Field Sample Location: Qst floor, in office 102, drop ceiling.
Analyst: WFG
Analysis Date: 1/13/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Light grey, flexible, caulk-like material with adhering metal fragments	**None Detected**	Cellulose 3-5%	Mineral Aggregate, Binder, Metal

Field Sample Number: 24
Lab ID: **2022-01-0177**
Field Sample Description: Cementitious Flooring
Field Sample Location: 1st floor, at stairway.
Analyst: WFG
Analysis Date: 1/13/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Light grey, black, and pink, cementitious material with embedded wood fragments	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder, Wood

Customer Name: GeoEngineers, Inc.
Customer Project Number: None Given
Project Name: Irving R. Newhouse Senate Building
Sample Date: 05-Jan-2022
Report Date: 1/13/2022
Report By: William F. Golloway

Sample Set Number 2022-3083

PacRim Number: 17283
Report Number: 2022-01-0154
Date Received: 1/11/2022
Analysis Start Date: 1/12/2022
Analysis End Date: 1/13/2022
Analyst(s): William F. Golloway

Field Sample Number: 25 | **Field Sample Description:** Hard Plaster Walls and Ceilings | **Field Sample Location:** 1st floor, in office 102-S, east wall. | **Analyst:** WFG
Lab ID: 2022-01-0178 | **Analysis Date:** 1/13/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
White/light green/light brown-painted, light grey, coarse-grained plaster with embedded fibers	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder, Paint

Field Sample Number: 26 | **Field Sample Description:** Hard Plaster Walls and Ceilings | **Field Sample Location:** 1st floor, room, 105, west wall. | **Analyst:** WFG
Lab ID: 2022-01-0179 | **Analysis Date:** 1/13/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
White/light green/light brown-painted, white, coarse-grained plaster	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder, Paint

Field Sample Number: 27 | **Field Sample Description:** Ceiling Tile, 2ft by 4ft. | **Field Sample Location:** Qst floor, rm 109-B. | **Analyst:** WFG
Lab ID: 2022-01-0180 | **Analysis Date:** 1/13/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
White-painted, light grey, fibrous ceilling tile material with light brown binder on inner surface	**None Detected**	Cellulose 40-45% Fibrous Glass 25-30%	Binder, Paint, Mineral Aggregate, Glass Beads

Field Sample Number: 28 | **Field Sample Description:** Ceiling tile mastic. | **Field Sample Location:** 1st floor, rm 109-B | **Analyst:** WFG
Lab ID: 2022-01-0181 | **Analysis Date:** 1/13/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Layer: 1	Light brown, fibrous material	**None Detected**	Cellulose 95-98%	Binder
Layer: 2	Brown, brittle mastic	**None Detected**	Cellulose <1%	Adhesive, Mineral Aggregate, Binder

Field Sample Number: 29 | **Field Sample Description:** Ceiling Tile, mastic. | **Field Sample Location:** 1st floor, rm 109 | **Analyst:** WFG
Lab ID: 2022-01-0182 | **Analysis Date:** 1/13/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Layer: 1	Light brown, fibrous material with white paint residue	**None Detected**	Cellulose 954-98%	Paint, Binder
Layer: 2	Brown, brittle mastic with white paint residue	**None Detected**	Cellulose 1-3% Wollastonite <1%	Adhesive, Mineral Aggregate, Binder

Pacific Rim Environmental Inc.
Bulk Sample Analysis Report

Customer Name:	**GeoEngineers, Inc.**	**PacRim Number:**	17283
Customer Project Number:	None Given	**Report Number:**	2022-01-0154
Project Name:	Irving R. Newhouse Senate Building	**Date Received:**	1/11/2022
Sample Date:	05-Jan-2022	**Analysis Start Date:**	1/12/2022
Report Date:	1/13/2022	**Analysis End Date:**	1/13/2022
Report By:	William F. Golloway	**Analyst(s):**	William F. Golloway

Sample Set Number 2022-3083

Field Sample Number: 30 | **Lab ID:** **2022-01-0183** | **Field Sample Description:** Hard Plaster Walls and Ceilings | **Field Sample Location:** 1st floor, rm 110. | **Analyst:** WFG | **Analysis Date:** 1/13/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
White/light green/light brown-painted, white to light grey, coarse-grained plaster material	**None Detected**	Animal Hair <1% Cellulose <1%	Mineral Aggregate, Binder, Paint

Field Sample Number: 31 | **Lab ID:** **2022-01-0184** | **Field Sample Description:** Carpet Mastic | **Field Sample Location:** 1st floor rm 110 | **Analyst:** WFG | **Analysis Date:** 1/13/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Light green to blue-green, pliable mastic with inseparable, brown mastic fragments and white residue	**None Detected**	Cellulose 1-3% Synthetics <1%	Adhesive, Mineral Aggregate, Binder

Field Sample Number: 32 | **Lab ID:** **2022-01-0185** | **Field Sample Description:** Hard Plaster Walls and Ceilings | **Field Sample Location:** 1st floor, rm 110, ceiling. | **Analyst:** WFG | **Analysis Date:** 1/13/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
White-painted, light grey, coarse-grained plaster	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder, Paint

Field Sample Number: 33 | **Lab ID:** **2022-01-0186** | **Field Sample Description:** Hard Plaster Walls and Ceilings | **Field Sample Location:** Basement, in mechanical room, north wall. | **Analyst:** WFG | **Analysis Date:** 1/13/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Light green-painted, light brown to light grey, coarse-grained plaster material	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder, Paint

Field Sample Number: 34 | **Lab ID:** **2022-01-0187** | **Field Sample Description:** Hard Plaster Walls and Ceilings | **Field Sample Location:** Basement, at mechanical room, east wall. | **Analyst:** WFG | **Analysis Date:** 1/13/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Layer: 1	White, coarse-grained, skim coat-like material	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder
Layer: 2	White, brittle and powdered, plaster-like material	**None Detected**	No Other Fibers Detected	Mineral Aggregate, Perlite, Binder

Pacific Rim Environmental Inc.
Bulk Sample Analysis Report

Customer Name: GeoEngineers, Inc.
Customer Project Number: None Given
Project Name: Irving R. Newhouse Senate Building
Sample Date: 05-Jan-2022
Report Date: 1/13/2022
Report By: William F. Golloway

Sample Set Number 2022-3083

PacRim Number: 17283
Report Number: 2022-01-0154
Date Received: 1/11/2022
Analysis Start Date: 1/12/2022
Analysis End Date: 1/13/2022
Analyst(s): William F. Golloway

Field Sample Number: 35
Lab ID: **2022-01-0188**
Field Sample Description: Hard Plaster Walls and Ceilings
Field Sample Location: Basement, in mechanical room, south wall.
Analyst: WFG
Analysis Date: 1/13/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Layer: 1	White-painted, light grey, rust-stained, coarse-grained plaster	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder, Paint
Layer: 2	Light greeen/white-painted light grey, coarse-grained plaster material	**Chrysotile <1%**	Cellulose <1%	Mineral Aggregate, Binder, Paint

Field Sample Number: 36
Lab ID: **2022-01-0189**
Field Sample Description: Ceiling Tile, 2ft by 4ft
Field Sample Location: Basement at hallway.
Analyst: WFG
Analysis Date: 1/13/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Light grey, fibrous ceiling tile material with light brown binder on inner surface	**None Detected**	Cellulose 40-45% Fibrous Glass 15-20%	Binder, Glass Beads, Mineral Aggregate, Paint, Perlite

Field Sample Number: 37
Lab ID: **2022-01-0190**
Field Sample Description: Hard Plaster Walls and Ceilings
Field Sample Location: Basement, at north end hallway.
Analyst: WFG
Analysis Date: 1/13/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
White-painted, white, chalky plaster-like material with orange brick residue	**None Detected**	Fibrous Glass 1-3% Cellulose <1%	Mineral Aggregate, Perlite, Binder, Refractory, Paint

Field Sample Number: 38
Lab ID: **2022-01-0191**
Field Sample Description: Sheetrock (GWB)
Field Sample Location: Basement, at room, B-2, south wall.
Analyst: WFG
Analysis Date: 1/13/2022

Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
White, chalky drywall with white-painted, light brown paper	**None Detected**	Cellulose 7-10% Fibrous Glass 1-3%	Gypsum, Mineral Aggregate, Binder

Pacific Rim Environmental Inc.
Bulk Sample Analysis Report

Customer Name: GeoEngineers, Inc.
Customer Project Number: None Given
Project Name: Irving R. Newhouse Senate Building
Sample Date: 05-Jan-2022
Report Date: 1/13/2022
Report By: William F. Golloway

Sample Set Number 2022-3083

PacRim Number: 17283
Report Number: 2022-01-0154
Date Received: 1/11/2022
Analysis Start Date: 1/12/2022
Analysis End Date: 1/13/2022
Analyst(s): William F. Golloway

Field Sample Number: 39 | **Field Sample Description:** Cove Base Mastic, 4 inch gray. | **Field Sample Location:** Basement, room B-2. | **Analyst:** WFG
Lab ID: 2022-01-0192 | **Analysis Date:** 1/13/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Layer: 1	Light grey, flexible cove base	**None Detected**	No Other Fibers Detected	Vinyl, Mineral Aggregate, Binder
Layer: 2	Light brown, pliable mastic	**None Detected**	Cellulose <1%	Adhesive, Mineral Aggregate, Binder
Layer: 3	White-painted, white, chalky mud with white paper	**None Detected**	Cellulose 20-25%	Mineral Aggregate, Binder, Paint

Field Sample Number: 40 | **Field Sample Description:** Sheetrock (GWB) | **Field Sample Location:** Basement, at room B-14 | **Analyst:** WFG
Lab ID: 2022-01-0193 | **Analysis Date:** 1/13/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
	White, chalky drywall with white-painted, light brown paper	**None Detected**	Cellulose 20-25% Fibrous Glass 1-3%	Gypsum, Mineral Aggregate, Binder, Paint

Field Sample Number: 41 | **Field Sample Description:** Gypsum Wall Board/Tape/Joint Compound | **Field Sample Location:** Basement, room B-4 | **Analyst:** WFG
Lab ID: 2022-01-0194 | **Analysis Date:** 1/13/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Layer: 1	White-painted, white, chalky mud with embedded, white paper	**None Detected**	Cellulose 40-45%	Mineral Aggregate, Binder, Paint
Layer: 2	White, chalky drywall with light brown paper	**None Detected**	Cellulose 20-25% Fibrous Glass <1%	Gypsum, Mineral Aggregate, Binder

Field Sample Number: 42 | **Field Sample Description:** Flooring sheet vinyl | **Field Sample Location:** Basement, mens bathroom. | **Analyst:** WFG
Lab ID: 2022-01-0195 | **Analysis Date:** 1/13/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Layer: 1	White, flexible, brown-streaked flooring	**None Detected**	Cellulose <1%	Vinyl, Mineral Aggregate, Binder
Layer: 2	Light yellow, pliable mastic	**None Detected**	Cellulose <1%	Adhesive, Mineral Aggregate, Binder
Layer: 3	Light brown, brittle, fine-grained leveling compound	**None Detected**	Cellulose <1%	Mineral Aggregate, Binder

Pacific Rim Environmental Inc.
Bulk Sample Analysis Report

NVLAP Testing NVLAP Lab Code 101851-0

Customer Name: GeoEngineers, Inc.
Customer Project Number: None Given
Project Name: Irving R. Newhouse Senate Building
Sample Date: 05-Jan-2022
Report Date: 1/13/2022
Report By: William F. Golloway

Sample Set Number 2022-3083

PacRim Number: 17283
Report Number: 2022-01-0154
Date Received: 1/11/2022
Analysis Start Date: 1/12/2022
Analysis End Date: 1/13/2022
Analyst(s): William F. Golloway

Field Sample Number: 43
Lab ID: **2022-01-0196**
Field Sample Description: Cove Base Mastic, 4 inch brown.
Field Sample Location: Basement, at room B-10
Analyst: WFG
Analysis Date: 1/13/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Layer: 1	Brown, flexible cove base	**None Detected**	No Other Fibers Detected	Vinyl, Mineral Aggregate, Binder
Layer: 2	White to light brown, pliable mastic	**None Detected**	Cellulose <1%	Adhesive, Mineral Aggregate, Binder
Layer: 3	White-painted, white, chalky mud-like material	**None Detected**	No Other Fibers Detected	Mineral Aggregate, Binder, Paint

Field Sample Number: 44
Lab ID: **2022-01-0197**
Field Sample Description: Waterproofing mastic
Field Sample Location: Exterior, window well, south east corner.
Analyst: WFG
Analysis Date: 1/13/2022

	Lab Sample Description	Asbestos Type/%	Non-Asbestos Fibers	Non-Fibrous Materials
Layer: 1	Black, brittle tar with light grey surface hue	**Chrysotile 3-5%**	Cellulose <1%	Tar, Mineral Aggregate, Binder
Layer: 2	Black tar paper material	**None Detected**	Cellulose 3-5% Synthetics 5-7%	Tar, Mineral Aggregate, Binder
Layer: 3	Black, brittle tar with adhering fibers	**None Detected**	Cellulose 3-5%	Tar, Mineral Aggregate, Binder

Appendix C: **Sample Location Drawing**

Site Sketch

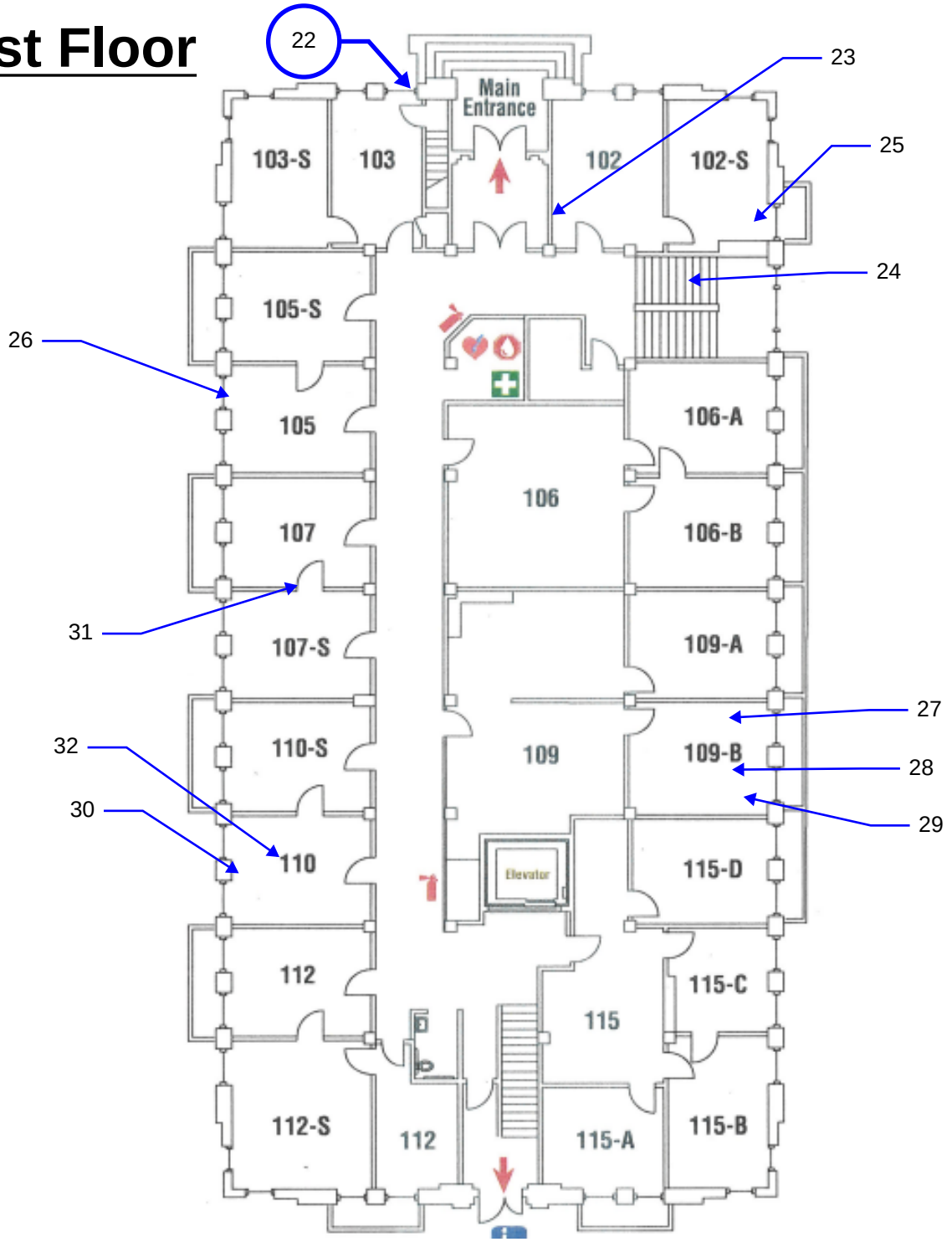
Samples positive for Asbestos appear in squares EX: #

Samples analyzed and non-detected/negative for asbestos appear as numbers only EX: #

Samples containing less than one percent asbestos appear in circles EX: #

Visually identified suspect materials assumed to be asbestos-containing appear in triangles EX: V-#

First Floor



GeoEngineers **Irving R. Newhouse Building** 215 Sid Snyder Avenue SW Olympia, WA	***Pacific Rim Environmental, Inc.*** 6510 Southcenter Boulevard, #40 Seattle, WA 98188 Tel. (206) 244-8965 pacrimenv.com	Project # : 17283 Drawing # : 01 of 03 Sampling Date: 1/05/2022 Drawing by : M.Sandefur Drawing Not to Scale

Site Sketch

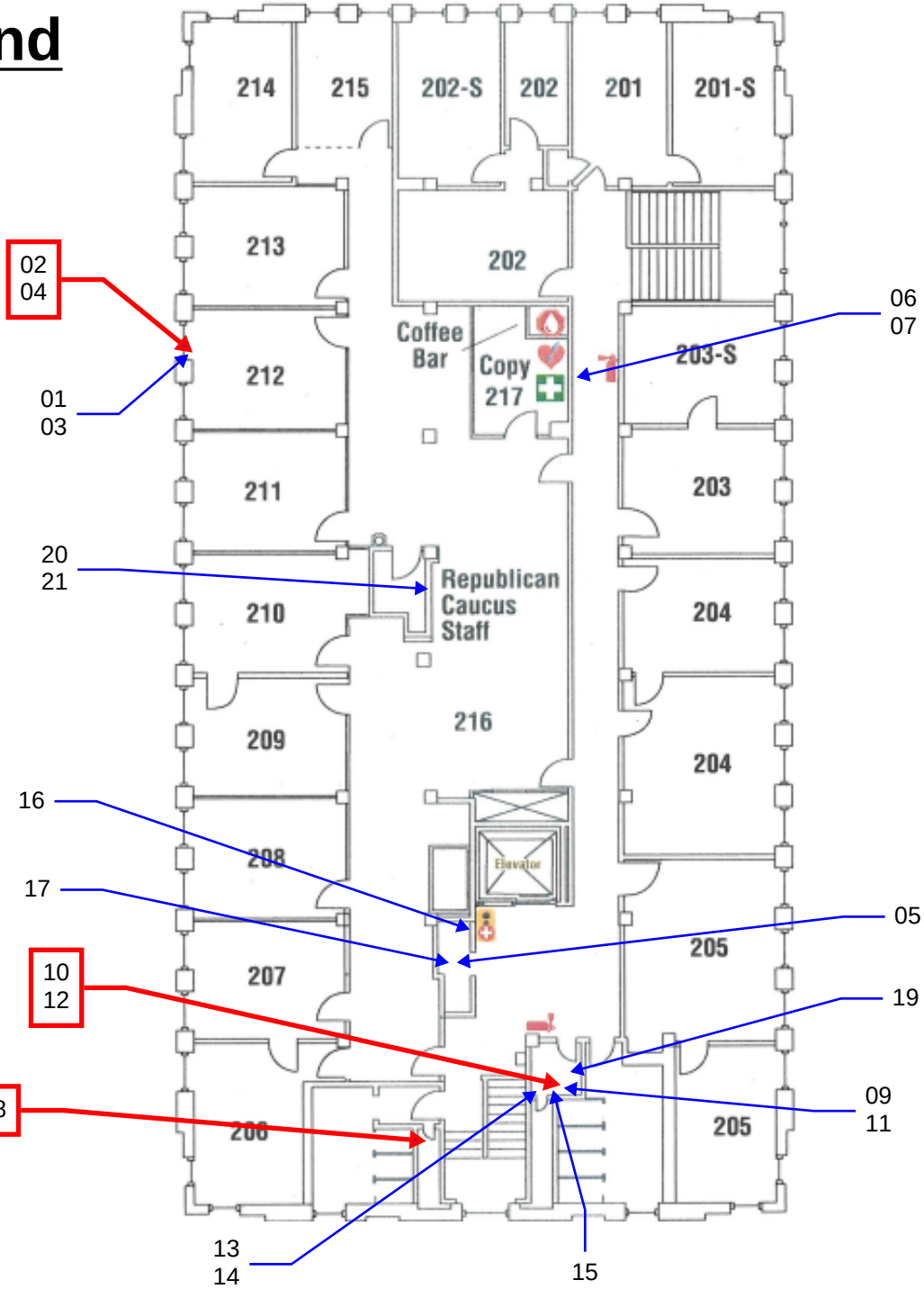
Samples positive for Asbestos appear in squares EX: [#] →

Samples analyzed and non-detected/negative for asbestos appear as numbers only EX: # →

Samples containing less than one percent asbestos appear in circles EX: (#) →

Visually identified suspect materials assumed to be asbestos-containing appear in triangles EX: V-# →

Second Floor



GeoEngineers **Irving R. Newhouse Building** 215 Sid Snyder Avenue SW Olympia, WA	***Pacific Rim Environmental, Inc.*** 6510 Southcenter Boulevard, #40 Seattle, WA 98188 Tel. (206) 244-8965 pacrimenv.com	Project # : 17283 Drawing # : 02 of 03 Sampling Date: 1/05/2022 Drawing by : M.Sandefur Drawing Not to Scale

Site Sketch

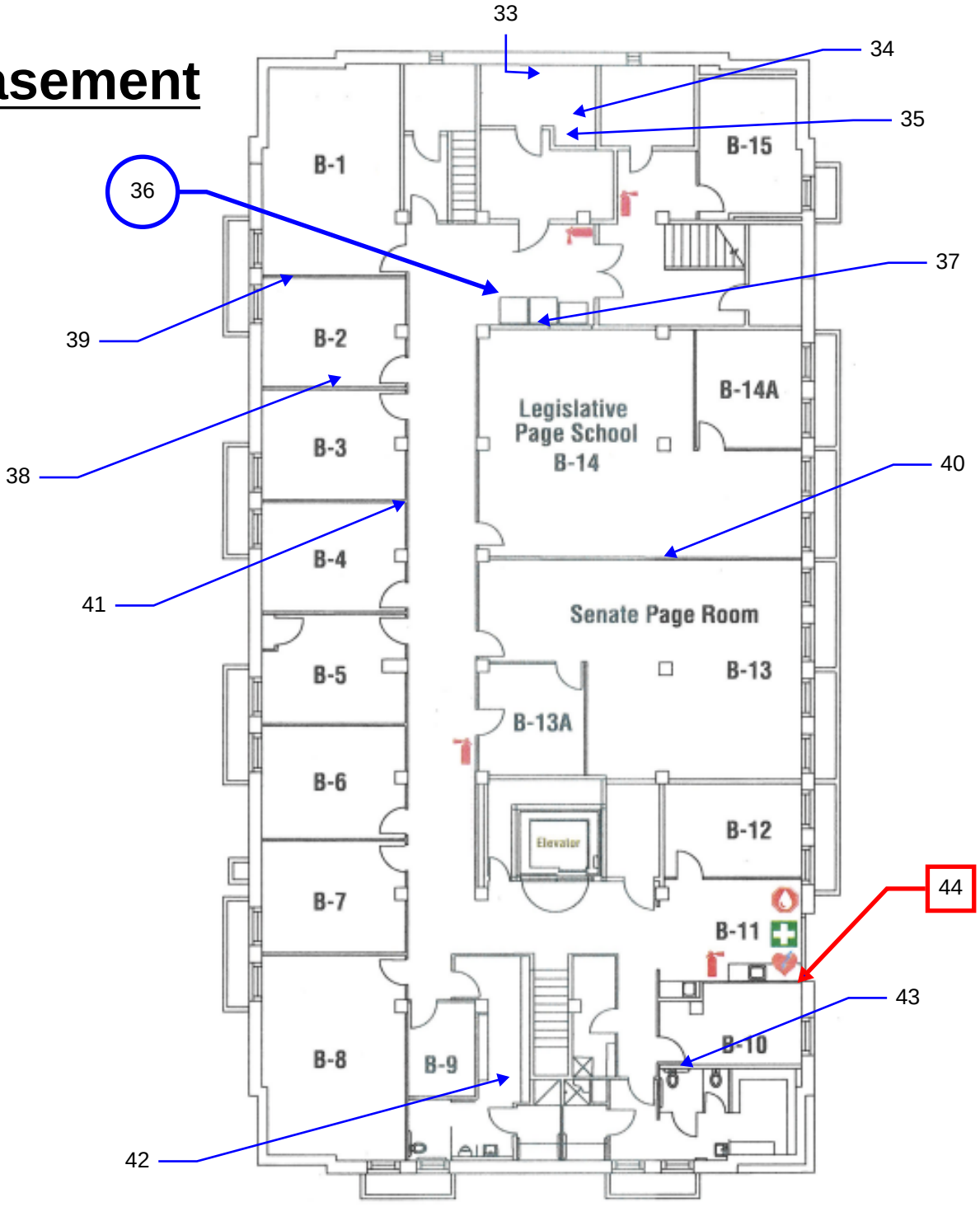
Samples positive for Asbestos appear in squares EX: #

Samples analyzed and non-detected/negative for asbestos appear as numbers only EX: #

Samples containing less than one percent asbestos appear in circles EX: #

Visually identified suspect materials assumed to be asbestos-containing appear in triangles EX: V-#

Basement



GeoEngineers **Irving R. Newhouse Building** 215 Sid Snyder Avenue SW Olympia, WA	***Pacific Rim Environmental, Inc.*** 6510 Southcenter Boulevard, #40 Seattle, WA 98188 Tel. (206) 244-8965 pacrimenv.com	Project # : 17283 Drawing # : 03 of 03 Sampling Date: 1/05/2022 Drawing by : M.Sandefur Drawing Not to Scale

Appendix D: **WA State Guidelines for Less than 1% Asbestos Material**

Summary of regulatory requirements for materials containing less than 1% asbestos:

Environmental Protection Agency

If less than 1% the EPA does not regulate it as an asbestos-containing material.

Washington State Department of Labor and Industries

Air Monitoring
Exposure Monitoring (NEA) - yes
Pre-abatement monitoring – unclear
Post abatement monitoring – unclear

Work Practices and working Area Control
Regulated area required – yes
Change area require – yes
Warning signs required – yes
Universal controls required – yes

- Wet Methods
- HEPA vacuums
- Prompt Disposal

Leak tight containers required – yes

Personal Protective Equipment
Respirator protection – yes, ½ mask APR with HEPA required until air monitoring results determine exposure below PELs
Medical surveillance required – yes, because of negative pressure APR use
Other personal protective equipment – yes, required until air monitoring results determine exposure below PELs
Communication of Hazard
Warning labels on in-place materials required – no
Warning labels on disposal containers – no
Training 2-hour awareness, hazard communication (specific to situation)
Competent Person required – yes

- Training – unclear how much training is required
- Must have knowledge and authority

Things that are not required:
Labeled bags
Worker or supervisor certification
No pre-demolition removal requirement
No notification to L&I or PSCA

Appendix E: **Lead-Based Paint (XRF) Data Sheets**

Pacific Rim Environmental Inc.
6510 Southcenter Blvd. Suite 40
Seattle, WA 98188
(206)244-8965 www.PacRimEnv.com

Lead-Based Paint (XRF) Data Sheet

Client:	**GeoEngineers, Inc.**	XRF Serial #:	**80662**
Project:	**Irving R. Newhouse Senate Building**	Inspection Date:	**05-Jan-2022**
Project Address:	**215 Sid Snyder Ave. SW, Olympia, WA 98504**	Inspection By:	**Todd Carter**
Reviewed by:	**Melanie Sandefur**	Pacrim Job#	**17283**

Sample#	Calibration	Substrate	Component/Side	Description/Location	Color	Result*	Pbc mg/cm^2
2	Yes					Positive	1.1
3	Yes					Positive	1.0
4	Yes					Positive	1.1
5	No	Plaster	Wall	North stairwell	Ivory	Positive	5.8
6	No	Plaster	Wall	North hall basement	Ivory	Positive	8.0
7	No	Drywall	Wall	Basement hallway	Ivory	Negative	0
8	No	Wood	Interior sill	Room B 13	Ivory	Negative	0
9	No	Wood	Interior sash	Room B 13	Ivory	Negative	0.07
10	No	Plaster	Wall	Room B 13	Ivory	Negative	0
11	No	Concrete	Column	Basement Men's room	Ivory	Negative	0
12	No	Plaster	Wall	Room B 10	Ivory	Negative	0
13	No	Plaster	Wall	South stairwell	Ivory	Positive	9.7

** HUD standard is 1.0 mg/cm^2 WISHA standard is any amount of lead is considered lead containing material*

Pacific Rim Environmental Inc.
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(206)244-8965 www.PacRimEnv.com

Sample#	Calibration	Substrate	Component/Side	Description/Location	Color	Result*	Pbc mg/cm^2
14	No	Plaster	Wall	South stair	Ivory	Positive	7.0
15	No	Wood	Baseboard	Basement south hall	Clear	Negative	0
16	No	Metal	Radiator	Room B 8	Ivory	Negative	0.10
17	No	Concrete	Column	Room B 8	Ivory	Negative	0
18	No	Plaster	Wall	North stairwell	Ivory	Positive	8.6
19	No	Plaster	Wall	Floor 1 hallway	Ivory	Positive	10.4
20	No	Plaster	Wall	Floor 1 hallway	Ivory	Negative	0
21		Plaster	Lower Wall	Floor 1 hallway	Ivory	Positive	12.2
22	No	Plaster	Wall	Floor 1 hallway	Ivory	Positive	6.5
23	No	Plaster	Wall	Floor 2 hallway	Ivory	Positive	8.1
24	No	Drywall	Wall	Floor 2 Room 211	White	Negative	0
25	No	Plaster	Column	Room 216	White	Negative	0.16
26	No	Plaster	Wall	Floor 2 hallway	Ivory	Positive	6.8
27	No	Concrete	Floor	North stairwell	Brown	Negative	0
28	No	Wood	Baseboard	Room 216	White	Negative	0.4
29	No	Wood	Closet door	Floor 2 Janitors closet	Ivory	Positive	9.7

** HUD standard is 1.0 mg/cm^2 WISHA standard is any amount of lead is considered lead containing material*

Pacific Rim Environmental Inc.
6510 Southcenter Blvd. Suite 40
Seattle, WA 98188
(206)244-8965 www.PacRimEnv.com

Sample#	Calibration	Substrate	Component/Side	Description/Location	Color	Result*	Pbc mg/cm^2
30	No	Wood	Door trim	Floor 2 Janitor closet	Ivory	Positive	11.7
31	No	Wood	Door trim	Floor 2 hallway	Clear	Negative	0.03
32	No	Metal	Exterior sill	Floor 1 windows	Brown	Negative	0
33		Metal	Lamp pole	Back entrance	Brown	Positive	10.1
34	No	Metal	Canopy post	Back entrance	Grey	Negative	0
35	No	Concrete	Exterior wall	Back of building	Tan	Negative	0.01
36	Yes					Positive	1.0
37	Yes					Positive	1.0
38	Yes					Positive	1.1

** HUD standard is 1.0 mg/cm^2 WISHA standard is any amount of lead is considered lead containing material*

Appendix F: **XRF Performance Characteristic Sheet**

Performance Characteristic Sheet

EFFECTIVE DATE: **September 24, 2004** **EDITION NO.: 1**

MANUFACTURER AND MODEL:

Make: *Niton LLC*

Tested Model: *XLp 300*

Source: ^{109}Cd

Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and XLp series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A.

XLp 300A, XLp 301A, XLp 302A and XLp 303A.

XLi 700A, XLi 701A, XLi 702A and XLi 703A.

XLp 700A, XLp 701A, XLp 702A, and XLp 703A.

Note: The XLi and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm^2 (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is <u>not</u> needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)

	All Data			Median for laboratory-measured lead levels (mg/cm^2)		
Substrate	25^{th} Percentile	Median	75^{th} Percentile	Pb < 0.25	0.25 ≤ Pb<1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

Appendix G: Polychlorinated Biphenyls Inspection Summary & PCB Analysis Report

Pacific Rim Environmental Inc.
6510 Southcenter Blvd. Suite 40
Seattle, WA 98188
(206)244-8965 www.PacRimEnv.com

Inspection Summary

Project Information	
Job Number	17283
Project Name	Irving R. Newhouse Senate Building
Project Address:	215 Sid Snyder Ave. SW, Olympia, WA 98504
Client:	GeoEngineers, Inc.
Date of Survey:	05-Jan-2022
PacRim Technician:	Todd Carter
Limitations:	Exterior non destructive testing
Exterior Photo:	
Turnaround Requested:	5 day
Special Instructions for Lab:	PCB Analysis performed at EMSL Cinnaminson New Jersey.

Pacific Rim Environmental Inc.
6510 Southcenter Blvd. Suite 40
Seattle, WA 98188
(206)244-8965 www.PacRimEnv.com

Sample			
Project Name	Irving R. Newhouse Senate Building		
Sample Date	05-Jan-2022		
Sample Type	Solid		
Sample Number	01		
Material Description	Window frame sealant		
Sample Location	Back of building Floor 1		
PCB Result	Aroclor 1254 – **1.6 mg/kg**		
Sample Photo			

Sample			
Project Name	Irving R. Newhouse Senate Building		
Sample Date	05-Jan-2022		
Sample Type	Solid		
Sample Number	02		
Material Description	Window sealant		
Sample Location	Back of building Floor 1		
PCB Result	Aroclor 1254 – **1.3 mg/kg**		
Sample Photo			

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn: **Todd Carter** 1/25/2022
Pacific Rim Environmental, Inc.
6510 Southcenter Blvd., Suite 40
Seattle, WA 98188
Phone: (206) 244-8965
Fax: (206) 244-9096

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 1/11/2022. The results are tabulated on the attached data pages for the following client designated project:

New House Senate Building

The reference number for these samples is EMSL Order #012200406. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Phillip Worby, Environmental Chemistry
Laboratory Director

The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 858-4571
http://www.EMSL.com EnvChemistry2@emsl.com

EMSL Order:	012200406
CustomerID:	PACR50
CustomerPO:	17283
ProjectID:	

Attn: **Todd Carter**
Pacific Rim Environmental, Inc.
6510 Southcenter Blvd., Suite 40
Seattle, WA 98188

Phone: (206) 244-8965
Fax: (206) 244-9096
Received: 1/11/2022 10:30 AM

Project: **New House Senate Building**

Analytical Results

Client Sample Description PCB-1 ***Collected:*** 1/5/2022 ***Lab ID:*** *012200406-0001*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
GC-SVOA								
3540C/8082A	Aroclor-1016	ND D	0.85	mg/Kg	1/11/2022	PG	1/12/2022 00:00	PM
3540C/8082A	Aroclor-1221	ND D	0.85	mg/Kg	1/11/2022	PG	1/12/2022 00:00	PM
3540C/8082A	Aroclor-1232	ND D	0.85	mg/Kg	1/11/2022	PG	1/12/2022 00:00	PM
3540C/8082A	Aroclor-1242	ND D	0.85	mg/Kg	1/11/2022	PG	1/12/2022 00:00	PM
3540C/8082A	Aroclor-1248	ND D	0.85	mg/Kg	1/11/2022	PG	1/12/2022 00:00	PM
3540C/8082A	Aroclor-1254	1.6 D	0.85	mg/Kg	1/11/2022	PG	1/12/2022 00:00	PM
3540C/8082A	Aroclor-1260	ND D	0.85	mg/Kg	1/11/2022	PG	1/12/2022 00:00	PM
3540C/8082A	Aroclor-1262	ND D	0.85	mg/Kg	1/11/2022	PG	1/12/2022 00:00	PM
3540C/8082A	Aroclor-1268	ND D	0.85	mg/Kg	1/11/2022	PG	1/12/2022 00:00	PM

Client Sample Description PCB-2 ***Collected:*** 1/5/2022 ***Lab ID:*** *012200406-0002*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*		*Analysis Date & Analyst*	
GC-SVOA								
3540C/8082A	Aroclor-1016	ND	0.67	mg/Kg	1/11/2022	PG	1/12/2022 00:00	PM
3540C/8082A	Aroclor-1221	ND	0.67	mg/Kg	1/11/2022	PG	1/12/2022 00:00	PM
3540C/8082A	Aroclor-1232	ND	0.67	mg/Kg	1/11/2022	PG	1/12/2022 00:00	PM
3540C/8082A	Aroclor-1242	ND	0.67	mg/Kg	1/11/2022	PG	1/12/2022 00:00	PM
3540C/8082A	Aroclor-1248	ND	0.67	mg/Kg	1/11/2022	PG	1/12/2022 00:00	PM
3540C/8082A	Aroclor-1254	1.3	0.67	mg/Kg	1/11/2022	PG	1/12/2022 00:00	PM
3540C/8082A	Aroclor-1260	ND	0.67	mg/Kg	1/11/2022	PG	1/12/2022 00:00	PM
3540C/8082A	Aroclor-1262	ND	0.67	mg/Kg	1/11/2022	PG	1/12/2022 00:00	PM

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 858-4571
http://www.EMSL.com EnvChemistry2@emsl.com

EMSL Order:	012200406
CustomerID:	PACR50
CustomerPO:	17283
ProjectID:	

Attn: **Todd Carter**
Pacific Rim Environmental, Inc.
6510 Southcenter Blvd., Suite 40
Seattle, WA 98188

Phone: (206) 244-8965
Fax: (206) 244-9096
Received: 1/11/2022 10:30 AM

Project: **New House Senate Building**

Analytical Results

Client Sample Description PCB-2 ***Collected:*** 1/5/2022 ***Lab ID:*** *012200406-0002*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
GC-SVOA						
3540C/8082A	Aroclor-1268	ND	0.67	mg/Kg	1/11/2022 PG	1/12/2022 00:00 PM

Definitions:

MDL - method detection limit
J - Result was below the reporting limit, but at or above the MDL
ND - indicates that the analyte was not detected at the reporting limit
RL - Reporting Limit (Analytical)
D - Dilution Sample required a dilution which was used to calculate final results

Appendix H: **Inspector / Laboratory Certifications**

Certificate of Completion

This is to certify that

Matt R. DeDominces

has satisfactorily completed
8 hours of refresher training as a

Lead-Based Paint Lead Inspector

to comply with the training requirements of
WAC 365-230

Lead Provider #9015

175492
Certificate Number

ARGUS PACIFIC
TRAINING • CONSULTING
A Terracon COMPANY

Oct 28, 2019 — Expires in 3 years.
Date(s) of Training

Exam Score: N/A
(if applicable)

Instructor

ARGUS PACIFIC, INC / 21905 64th AVE W, SUITE 100 / MOUNTLAKE TERRACE, WASHINGTON 98043 / 206.285.3373 / ARGUSPACIFIC.COM

Certificate of Completion

This is to certify that

Matt R. DeDominces

has satisfactorily completed
4 hours of refresher training as an

AHERA Building Inspector

to comply with the training requirements of
TSCA Title II, 40 CFR 763 (AHERA)

EPA Provider # 1085

182645
Certificate Number

ARGUS PACIFIC
TRAINING • CONSULTING
A Terracon COMPANY

Oct 13, 2021 Expires in 1 year.
Date(s) of Training

Exam Score: N/A
(if applicable)

Instructor: John McCaslin

ARGUS PACIFIC, INC / 21905 64th AVE W, SUITE 100 / MOUNTLAKE TERRACE, WASHINGTON 98043 / 206.285.3373 / ARGUSPACIFIC.COM

STATE OF WASHINGTON

Department of Commerce

Lead-Based Paint Abatement Program

Todd P Carter

Has fulfilled the certification requirements of
WAC 365-230
and has been certified to conduct lead-based paint activities as a
Risk Assessor

Certification #	Issuance Date	Expiration Date
0340	04/15/2021	04/10/2024

THE ASBESTOS INSTITUTE

Certifies that

Todd Carter

has attended and received instruction in the EPA approved course

AHERA Building Inspector Refresher

on

June 28, 2020

and successfully completed and passed the competency exam.

Certificate:
ON-4644-10063-062820

Date of Examination:
28-Jun-2020

Date of Expiration:
28-Jun-2021

William T. Cavness
Director

Approved Instructor

THE ASBESTOS INSTITUTE
20033 N. 19th Ave, Building 6, Phoenix, AZ 85027
602-864-6564 – www.theasbestosinstitute.com

This training meets all requirements for asbestos certification under Toxic Substance Control Act Title II.

NVLAP® National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Pacific Rim Environmental, Inc.
6510 Southcenter Boulevard
Suite #40
Tukwila, WA 98188
Mr. William F. Golloway
Phone: 206-244-8965 Fax: 206-244-9096
Email: fgolloway@pacrimenv.com
http://www.pacrimenv.com

ASBESTOS FIBER ANALYSIS — NVLAP LAB CODE 101631-0

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

For the National Voluntary Laboratory Accreditation Program

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 101631-0

Pacific Rim Environmental, Inc.

Tukwila, WA

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).

2021-04-01 through 2022-03-31

Effective Dates

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

For the National Voluntary Laboratory Accreditation Program

The State of Washington Department of Ecology

EMSL Analytical, Inc. - Cinnaminson

Cinnaminson, NJ

has complied with provisions set forth in Chapter 173-50 WAC and is hereby recognized by the Department of Ecology as an ACCREDITED LABORATORY for the analytical parameters listed on the accompanying Scope of Accreditation.

This certificate is effective July 15, 2020 and shall expire July 14, 2021.

Witnessed under my hand on July 13, 2020.

Rebecca Wood

Rebecca Wood
Lab Accreditation Unit Supervisor

Laboratory ID
C922

WASHINGTON STATE DEPARTMENT OF ECOLOGY

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

SCOPE OF ACCREDITATION

EMSL Analytical, Inc. - Cinnaminson

Cinnaminson, NJ

is accredited for the analytes listed below using the methods indicated. Full accreditation is granted unless stated otherwise in a note. EPA is the U.S. Environmental Protection Agency. SM is "Standard Methods for the Examination of Water and Wastewater." SM refers to EPA approved method versions. ASTM is the American Society for Testing and Materials. USGS is the U.S. Geological Survey. AOAC is the Association of Official Analytical Chemists. Other references are described in notes.

Matrix/Analyte	Method	Notes
Air		
Asbestos	40CFR763 Subpart E, App. A	1
Asbestos	NIOSH 7400	1
Drinking Water		
Asbestos	EPA 100.2_1994	1
Copper	EPA 200.8_5.4_1994	1
Lead	EPA 200.8_5.4_1994	1
Total Uranium	EPA 200.8_5.4_1994	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	EPA 537.1_(11/18)	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA 537.1_(11/18)	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	EPA 537.1_(11/18)	1
Hexafluoropropylene oxide dimer acid (HFPO-DA)	EPA 537.1_(11/18)	1
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	EPA 537.1_(11/18)	1
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	EPA 537.1_(11/18)	1
Perfluorobutane sulfonic acid (PFBS)	EPA 537.1_(11/18)	1
Perfluorodecanoic acid (PFDA)	EPA 537.1_(11/18)	1
Perfluorododecanoic acid (PFDoA)	EPA 537.1_(11/18)	1
Perfluoroheptanoic acid (PFHpA)	EPA 537.1_(11/18)	1
Perfluorohexane sulfonic acid (PFHxS)	EPA 537.1_(11/18)	1
Perfluorohexanoic acid (PFHxA)	EPA 537.1_(11/18)	1
Perfluorononanoic acid (PFNA)	EPA 537.1_(11/18)	1
Perfluorooctane sulfonic acid (PFOS)	EPA 537.1_(11/18)	1
Perfluorooctanoic acid (PFOA)	EPA 537.1_(11/18)	1
Perfluorotetradecanoic acid (PFTeDA)	EPA 537.1_(11/18)	1
Perfluorotridecanoic acid (PFTrDA)	EPA 537.1_(11/18)	1
Perfluoroundecanoic acid (PFUnA)	EPA 537.1_(11/18)	1
Gross Beta	EPA 900.0 GPC-80	1

Matrix/Analyte	Method	Notes
Drinking Water		
Gross Alpha	EPA 900.0-80	1
Radium-226	EPA 903.0-80	1
Radium-228	EPA 904.0-80	1
Radon	SM 7500-Rn B-96	1
Non-Potable Water		
Asbestos	EPA 100.1_1993	1
Solid and Chemical Materials		
Asbestos	EPA 600/M4-82-020	1
Asbestos	EPA 600/R-93-116	1
Lead	EPA 6010D_(7/18)	1
Lead	EPA 7000B (2007)	1
Aroclor-1016 (PCB-1016)	EPA 8082A_(2/07)	1
Aroclor-1221 (PCB-1221)	EPA 8082A_(2/07)	1
Aroclor-1232 (PCB-1232)	EPA 8082A_(2/07)	1
Aroclor-1242 (PCB-1242)	EPA 8082A_(2/07)	1
Aroclor-1248 (PCB-1248)	EPA 8082A_(2/07)	1
Aroclor-1254 (PCB-1254)	EPA 8082A_(2/07)	1
Aroclor-1260 (PCB-1260)	EPA 8082A_(2/07)	1
Aroclor-1262 (PCB-1262)	EPA 8082A_(2/07)_Extended	1
Aroclor-1268 (PCB-1268)	EPA 8082A_(2/07)_Extended	1
Methamphetamine	NIOSH 9111	2

Accredited Parameter Note Detail

(1) Accreditation based in part on recognition of New Jersey NELAP accreditation. (2) Accreditation based in part on recognition of AIHA accreditation.

Authentication Signature
Rebecca Wood, Lab Accreditation Unit Supervisor

10/21/2020
Date