

## APPENDIX C

### Regulated Materials Surveys

Terracon

Test Scope: Existing Masonry, paint, ceilings, & lighting

Representative: Scott Parker

Email: [scott.parker@terracon.com](mailto:scott.parker@terracon.com)

Phone: (206) 518-6097

University of Washington

Test Scope: Existing Door Coatings/Caulking and Masonry

Representative: Dan Schwert

Email: [schwertd@uw.edu](mailto:schwertd@uw.edu)

Phone: (206) 491-6076

# Regulated Building Materials Survey Report

## UW Kane Hall CAAMS

4069 Spokane Lane NE

Seattle, Washington

April 2, 2026

Terracon Project No.81257008

UW Project No. 208570

### Prepared for:

University of Washington Project Delivery Group  
Seattle, Washington

### Prepared by:

Terracon Consultants Inc.  
21905 64<sup>th</sup> Ave West, Suite 100  
Mountlake Terrace, Washington 98043



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April 2, 2026

University of Washington Project Delivery Group  
University District Building, Box 352205  
Seattle, Washington 98195

**Attn:** Mr. Steve Babinec

**RE:** Regulated Building Materials Survey  
UW Kane Hall CAAMS Upgrades  
4069 Spokane Lane NE  
Seattle, Washington  
Terracon Project No. 81257008  
UW Project No. 208570

Dear Mr. Babinec:

This report presents the results of the regulated building materials survey conducted in support of the future UW Kane Hall CAAMS upgrade project, located at 4069 Spokane Lane NE in Seattle, Washington. The scope of the services provided is described in Terracon Proposal Number P81257008 dated .

We appreciate the opportunity to be of service to you on this project. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,

**Terracon Consultants, Inc.**

*William Hoxsey*  
William Hoxsey  
Industrial Hygienist

  
Scott Parker  
Principal / Department Manager

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## EXECUTIVE SUMMARY

University of Washington Project Delivery Group retained Terracon Consultants, Inc. (Terracon) to conduct a regulated building materials survey in support of the the UW Kane Hall CAAMS upgrade project, located at 4069 Spokane Lane NE in Seattle, Washington. Terracon's representatives, Mr. John McCaslin and Mr. William Hoxsey, conducted the survey on March 3, 2026.

Terracon inspected the project area for the following regulated building materials:

- Asbestos-containing materials (ACM)
- Assumed asbestos-containing materials
- Lead-containing coatings (paints)
- Mercury-containing light tubes, switches, and thermostats
- Suspected high-intensity discharge (HID) lamps
- Suspected Polychlorinated biphenyls (PCB)-containing fluorescent light ballasts

### Asbestos

Thirty bulk samples of suspect asbestos-containing materials were collected and analyzed using Polarized Light Microscopy (PLM). None of the sampled materials were found to contain asbestos, none of the materials were assumed to be ACM, and none were found to contain less than one percent asbestos. In addition, none of the materials were visually inspected and determined to be non-suspect.

### Lead

Two paint chip samples were collected and analyzed for total lead content via Atomic Absorption Spectrophotometry. One of the paint chip samples was found to contain detectable concentrations of lead.

### Other Regulated Materials

Mercury-containing fluorescent light tubes were not identified in the project area. Observed light ballasts were electronic and therefore not suspected of containing PCBs.

Mercury-containing switches and thermostats were not observed in the project area.

High intensity discharge lamps were not observed in the project area.

## 1.0 INTRODUCTION

University of Washington Project Delivery Group retained Terracon Consultants, Inc. (Terracon) to conduct a regulated building materials survey in support of the UW Kane Hall CAAMS upgrade project, located at 4069 Spokane Lane NE in Seattle, Washington. Terracon's representatives, Mr. John McCaslin and Mr. William Hoxsey, conducted the survey on March 3, 2026.

Terracon inspected the project area for the following regulated building materials:

- Asbestos-containing materials (ACM)
- Assumed asbestos-containing materials
- Lead-containing coatings (paints)
- Mercury-containing light tubes, switches, and thermostats
- Suspected high-intensity discharge (HID) lamps
- Suspected Polychlorinated biphenyls (PCB)-containing fluorescent light ballasts

## 2.0 PROJECT BACKGROUND

This report presents the results of our regulated building materials survey conducted in support of the UW Kane Hall CAAMS upgrade project. The purpose of the survey was to identify potential asbestos-containing material, lead-containing coatings, PCB-containing caulking/sealants, PCB-containing light ballasts, and mercury-containing components prior to renovation of the project area, and for purposes of hazard communication and on-going management. The survey included interior spaces of the basement, first floor, first floor (upper) and mezzanine, and second floor, and exterior spaces of the first and second floors. The survey did not include other materials or areas on the building's interior, exterior, or roof.

This survey report will assist University of Washington Project Delivery Group with communicating the presence of regulated building materials, and the presence, location, and quantity of ACM to employees, vendors, and contractors working in the project area and to meet the requirements for an asbestos survey for the Puget Sound Clean Air Agency (PSCAA) and a good faith inspection as required by Washington State Department of Labor and Industries' Division of Occupational Safety and Health (DOSH) regulations prior to building renovation. Regulations



require that a complete copy of this report must be prominently displayed during activities that could impact known or suspect ACM.

## 2.1 Sources of Information

During the course of the survey, the following individuals and drawings provided assistance to the Terracon inspector:

- Mr. Steve Babinec, University of Washington
- University of Washington personnel to provide access
- UW Kane Hall CAAMS Upgrades, CD Progress Set, by SHKS Architects, dated February 13, 2026

## 2.2 Building and Project Area Description

BUILDING INFORMATION			
<b>Address</b>	4069 Spokane Lane NE, Seattle, Washington		
<b>Building Use</b>	Lecture Hall		
<b>Building Square Footage</b>	15,3375 ft <sup>2</sup>	<b>Number of Floors</b>	3
<b>Construction Date(s)</b>	1971		
<b>Main Structure</b>	Tilt up concrete walls		
PROJECT AREA CONSTRUCTION			
<b>Project Area Square Footage</b>	15,3375 ft <sup>2</sup>		
<b>Flooring Substrate</b>	Reinforced concrete		
<b>Flooring Finishes</b>	Carpet squares, concrete		
<b>Interior Wall Finishes</b>	Painted gypsum wallboard and plaster, wood wall paneling		
<b>Ceiling Finishes</b>	Splined ceiling tiles and suspended acoustic ceiling tiles		

## 3.0 ASBESTOS ASSESSMENT

The survey was conducted by Mr. John McCaslin and Mr. William Hoxsey, both Asbestos Hazard Emergency Response Act (AHERA)-accredited building inspectors

(Certification 196090, expiration date: 46044 and Certification 199020, expiration date: 11/14/2026, respectively) from Terracon on March 3, 2026.

### 3.1 Building Assessment

The survey was conducted using a modified protocol adapted from AHERA. The protocol is as follows:

- Identify suspect asbestos-containing materials.
- Group materials into homogeneous sampling areas/materials.
- Quantify each homogeneous material and collect representative samples. The number of samples collected of miscellaneous materials was determined by the inspector.
- Samples of each material were taken to the substrate, ensuring that all components and layers of the material were included.
- Sample locations are referenced on the field data forms according to sample number.
- Sampling was performed by an AHERA-accredited building inspector, and the use of proper protective equipment and procedures were followed.

### 3.2 Sampling Procedures

The sampling was conducted using the following procedures:

1. Spread the plastic drop cloth (if needed) and set up other equipment, e.g., ladder.
2. Don protective equipment (respirator and protective clothing if needed).
3. Label sample container with its identification number and record number. Record sample location and type of material sampled on a sampling data form.
4. Moisten area where sample is to be extracted (spray the immediate area with water).
5. Extract sample using a clean knife, drill capsule, or cork boring tool to cut out or scrape off approximately one tablespoon of the material. Penetrate all layers of material.
6. Place sample in a container or self-sealing plastic bag and tightly seal it.
7. Wipe the exterior of the container with a wet wipe to remove material that may have adhered to it during sampling.
8. Clean tools with wet wipes and wet mop; or vacuum area with HEPA vacuum to clean all debris.

9. Discard protective clothing, wet wipes and rags, cartridge filters, and drop cloth in a labeled plastic waste bag.

### 3.3 Sample Analysis

Suspect ACMs were sampled in general accordance with 40 CFR 763.86 by an Environmental Protection Agency (EPA) AHERA-accredited building inspector. Terracon collected 30 samples of materials identified as suspect ACM. Each sample was collected and stored in a heavy-duty, self-sealing plastic bag, and delivered to Eurofins Built Environmental Testing, LLC. in Seattle, Washington. Samples were analyzed via Polarized Light Microscopy (PLM) in accordance with EPA/600/R-93/116. Eurofins Built Environmental Testing, LLC. are accredited to perform PLM analysis by the National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program (NVLAP).

If the analytical results indicate that all the samples collected per homogenous material do not contain asbestos, then the material is not considered an ACM. However, if the analytical results of one or more of the samples collected per homogenous material indicate that asbestos is present in quantities of greater than one percent as defined by the EPA, the homogeneous material is considered to be ACM regardless of other analytical results (unless a representative number of samples have been analyzed by PLM point counting as described below, and the results indicate the material contains less than one percent asbestos).

Any material that contains greater than one percent asbestos is considered an ACM and must be handled according to Occupational Safety and Health Administration (OSHA), EPA, and applicable state and local regulations. The EPA National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR 61, Subparts A and M has a requirement related to inspection of suspect ACM in buildings. When the asbestos content of a friable material is visually estimated by PLM to be detectable but less than ten percent, your firm may elect to (1) assume the amount is greater than one percent and treat the material as asbestos-containing or (2) require verification of the amount by the PLM point counting technique. If the results obtained by point counting and visual estimation are different, the point count result must be used. When no asbestos is detected by PLM, point counting is not required.

**Table 1 in Appendix A** provides a list of suspect homogeneous material sample descriptions, material locations, and results for this sampling. Refer to the attached **Exhibits in Appendix B** for sample locations. Refer to **Appendix C** for photographs that are representative of the homogenous materials.

## 4.0 LEAD ASSESSMENT

Homogeneous areas of suspected lead-containing coatings (paints) were identified and sampled in accessible areas throughout the UW Kane Hall CAAMS located at 4069 Spokane Lane NE in Seattle, Washington. Homogeneous painted surfaces were defined by substrate, application, and color.

### 4.1 Sampling and Analytical Method

Paint chip samples were collected to the substrate to ensure that all layers present at the sampled location were included in the laboratory analysis. Each sample was collected and stored in a heavy-duty, self-sealing plastic bag and delivered to Eurofins Built Environmental Testing, LLC. in Seattle, Washington. Samples were analyzed via Atomic Absorption Spectrophotometry in accordance with EPA Method 7000B. Eurofins Built Environmental Testing, LLC. in Seattle, Washington is accredited by the American Industrial Hygiene Association (AIHA) for lead analysis.

### 4.2 Lead Sampling Results

Two paint chip samples were collected and analyzed for lead. One of the samples had reportable concentrations of lead. The results of the analysis are presented in **Table 2 in Appendix A.**

## 5.0 OTHER REGULATED BUILDING MATERIALS

An inventory of mercury-containing fluorescent light tubes, switches and thermostats, HID lamps, and potential PCB-containing ballasts was conducted in accessible areas throughout the UW Kane Hall CAAMS located at 4069 Spokane Lane NE in Seattle, Washington.

### 5.1 Method – Universal Wastes

Magnetic ballasts are suspected of containing PCBs in the potting material or in the dielectric fluid in the capacitor. Electronic ballasts are not suspected of containing PCBs. A Philips Advance Sensor Switch “ballast checker” was used to identify magnetic versus electronic ballasts. The ballast checker is used by pointing the device at a powered light fixture, and the device indicates whether the ballast is electronic or magnetic.

## 5.2 Results

Fluorescent light tubes were not observed throughout the building interior. Observed light ballasts were electronic and therefore not suspected of containing PCBs. Mercury-containing switches and thermostats were not observed in the project area.

# 6.0 CONCLUSIONS AND RECOMMENDATIONS

On March 3, 2026, Terracon conducted a regulated building materials survey of the UW Kane Hall CAAMS located at 4069 Spokane Lane NE in Seattle, Washington.

## 6.1 Asbestos

No asbestos was detected in the samples collected.

Additional suspect ACMs may be present in areas not inspected or that were inaccessible or concealed. These spaces include, but are not limited to, areas outside of the targeted project area, above hard ceiling decks, electrical systems, pipe chases, spaces between wall/ceiling/door/floor cavities, interior of mechanical components, beneath foundation pads, etc. If future maintenance, renovation, and/or demolition activities make these areas accessible, Terracon recommends that a thorough survey of these spaces be conducted at that time to identify and confirm the presence or absence of additional suspect ACMs. Until then, all such unidentified materials must be treated as assumed ACMs in accordance with applicable federal, state, and local regulations.

## 6.2 Lead

One of the samples analyzed was found to contain detectable concentrations of lead. The results of the analysis are presented in **Table 2 in Appendix A**

The Washington State Department of Labor and Industries requires an exposure assessment be conducted during operations that may disturb the lead paint in such a way that the airborne exposure may reach or exceed the Action level of 30 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) or the Permissible Exposure Limit of 50  $\mu\text{g}/\text{m}^3$ . The worker protection requirements of WAC 296-155-176 "Lead in Construction" may apply.

### 6.3 Other Regulated Building Materials

Fluorescent light tubes, HID lamps, switches, and thermostats may contain mercury. Fluorescent light ballasts and HID lamp ballasts may contain PCBs. All observed lights were found to be electronic. In Washington State, even ballasts labeled with "No PCBs" may have regulated quantities of PCBs and therefore should be handled in accordance with Washington Department of Ecology requirements. Employers must inform their employees of mercury and PCB hazards in accordance with WAC 296-800-170.

Fluorescent light tubes, HID lamps, switches, thermostats, and PCB light ballasts must be removed and recycled or disposed of prior to building demolition as per 40 CFR 262, 40 CFR 265, and WAC 173-303.

## 7.0 LIMITATIONS

This report presents the results of the regulated building materials survey conducted at the UW Kane Hall CAAMS located at 4069 Spokane Lane NE in Seattle, Washington. The survey was for the purpose of identifying ACM, lead-containing paint, mercury-containing components, PCB ballasts, and HID lamps prior to renovation.

The lead paint chip sampling and reporting conducted as a part of this survey does not nor is intended to meet the requirements of the Environmental Protection Agency's Lead; Renovation, Repair, and Painting rule (RRP). Refer to EPA regulation 40CFR745 and Washington State regulation WAC 365-230 for additional information.

Regulated building material surveys are non-comprehensive and subject to many limitations, including those presented below. Our survey has considered risks pertaining to asbestos, lead in coatings, heavy metals in paint, fluorescent lamps, mercury switches, PCB ballasts, and HID lamps; however, this survey is limited to only those locations and materials included in the survey. This survey was not designed to identify all potential concerns or to eliminate all risks associated with renovation, demolition, material removal, construction, or transferring of property title. Evaluation of other risks not specifically described in the Scope of Work have not been included; for example: structural integrity; engineering loads; electrical; mechanical; radon gas; slope stability; building settlement; and evaluation of toxic and hazardous substances in, or in contact with, soil and groundwater. No warranty, expressed or implied, is made.

Terracon has performed the services set forth in the Scope of Work in accordance with generally accepted industrial hygiene practices in the same or similar

localities, related to the nature of the work accomplished, at the time the services were performed.

The regulated building materials and conditions presented in this report represent those observed on the dates we conducted the sampling. This sampling is intended for the exclusive use of University of Washington Project Delivery Group for specific application to the referenced property. This report does not replace nor can be used as professionally developed construction or demolition plans, specifications, or bidding documents. This report is not a legal opinion.

## **7.1 Reliance**

This Report(s) was prepared for the exclusive use and reliance of the Client. Reliance by any other party is prohibited without the written authorization of the Client and Terracon. If the Client is aware of additional parties that will require reliance on the Report, the names, addresses and relationship of these parties must be provided to Terracon for approval. Terracon will grant reliance on the Report to those approved parties upon receipt of a fully executed Reliance Agreement (available upon request) and receipt of an additional fee of \$450.00 per relying party.

Reliance on the Report by the Client and all authorized parties will be subject to the terms, conditions and limitations stated in the Agreement for Services, the Reliance Agreement, and the Report.

# **Appendix A**

## **Data Tables**

**Table 1. Results of Asbestos Bulk Sample Analysis**

UW Kane Hall CAAMS  
 Seattle, Washington  
 Terracon Project No. 81257008

Material No.	Material Description	Material Location	Results
1 (M)	<ul style="list-style-type: none"> <li>■ Red Brick</li> <li>■ Grey Mortar</li> </ul>	Interior and exterior walls	ND (all layers)
2 (M)	<ul style="list-style-type: none"> <li>■ Grey Concrete</li> </ul>	Walls, floors, and ceilings throughout	ND (all layers)
3 (M)	<ul style="list-style-type: none"> <li>■ Gypsum wallboard</li> <li>■ Joint compound</li> </ul>	Interior walls throughout	ND (all layers)
4 (M)	<ul style="list-style-type: none"> <li>■ Grey CMU</li> <li>■ Grey Mortar</li> </ul>	Interior walls throughout	ND (all layers)
5 (M)	<ul style="list-style-type: none"> <li>■ 1' x 1' White Splined ceiling tiles</li> </ul>	Associated with ceilings in auditorium rooms	ND (all layers)
6 (M)	<ul style="list-style-type: none"> <li>■ Yellow Mastic</li> </ul>	Associated with carpeted areas near building entrances	ND (all layers)
7 (M)	<ul style="list-style-type: none"> <li>■ 2' x 4' Suspended ceiling tiles with fissures</li> </ul>	Interior back rooms of lecture halls and basement ceilings	ND (all layers)
8 (M)	<ul style="list-style-type: none"> <li>■ 2' x 2' Suspended ceiling tiles with fissures</li> </ul>	First floor ceilings	ND (all layers)
9 (M)	<ul style="list-style-type: none"> <li>■ White plaster</li> </ul>	Associated with ceilings at entry to lecture halls	ND (all layers)

*ND: none detected, Material No.: homogenous material that is uniform in color, texture, general appearance, and construction and application date, S: Surfacing material per AHERA, T: Thermal system insulation per AHERA, M: Miscellaneous material per AHERA.*

**BOLD:** *Asbestos-containing materials and assumed asbestos-containing materials*

**Table 5. Results of Lead Paint Chip Sample Analyses**

UW Kane Hall CAAMS  
 Seattle, Washington  
 Terracon Project No. 81257008

Paint Number and Description	Paint Location	Sample Result (in ppm)
Pb-01: White paint on concrete and CMU	Interior walls throughout	<40
<b>Pb-02: Black paint on GWB</b>	<b>Interior walls in basement level</b>	<b>45</b>

<: below the reporting limit, ppm: parts per million, EA: Each

**BOLD:** Lead detected

<sup>1</sup>: Analytical lab sample results for lead in paints, located in **Appendix D**, are depicted in Percent by Weight. This value can be converted into Parts Per Million (ppm) by multiplying the percentage value by 10,000.

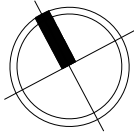


## **Appendix B**

### **Exhibits**







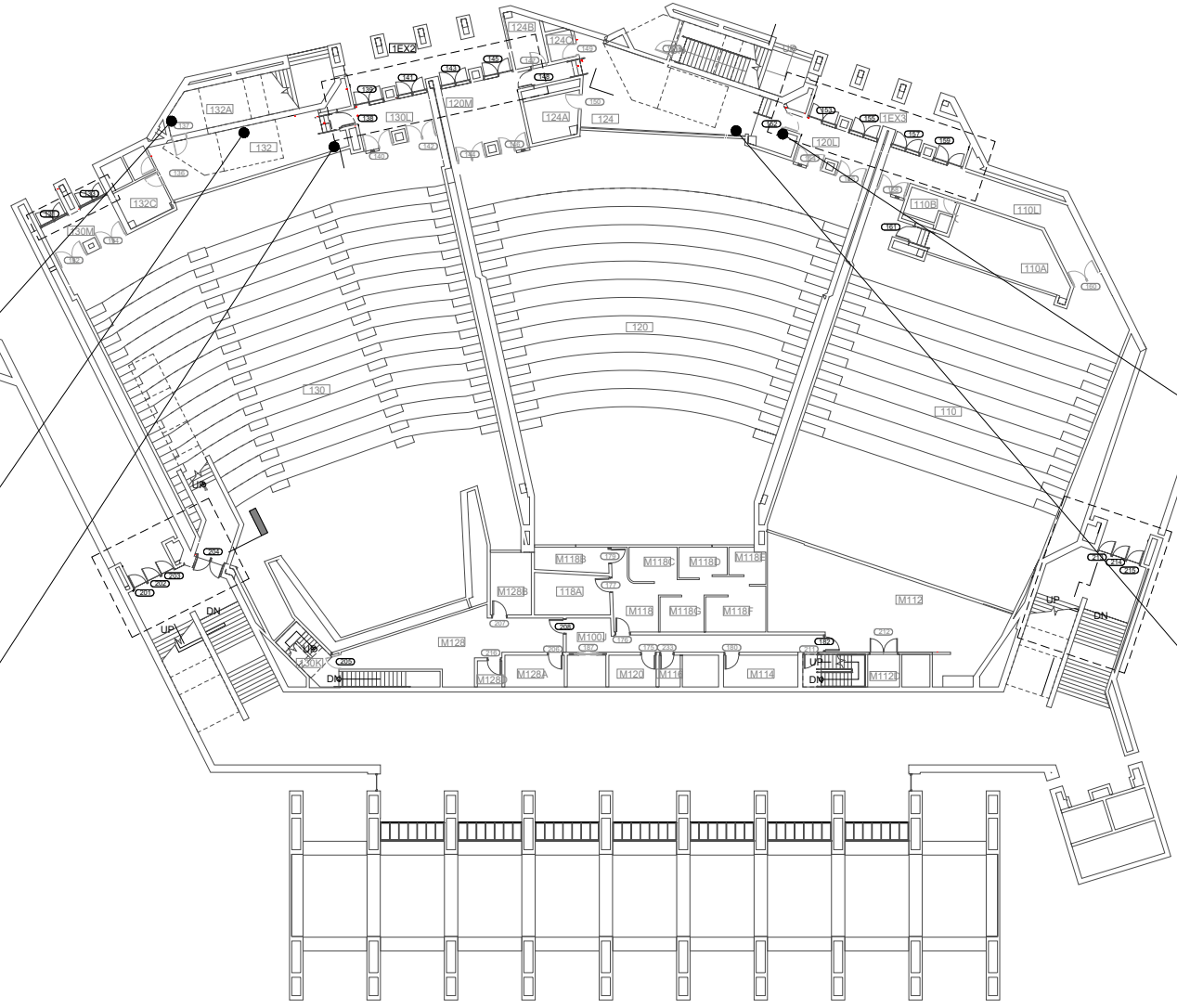
KH-02A

KH-07A

KH-04C

KH-04B

KH-05B



**LEGEND**

XX-XX-X  
 └── ASBESTOS SAMPLE CODE  
 └── MATERIAL NUMBER  
 └── PREFIX

XX-Pb-XX  
 └── LEAD SAMPLE NUMBER  
 └── LEAD MATERIAL CODE  
 └── PREFIX

Project Mng:	SRP
Drawn By:	WH
Checked By:	JMc
Approved By:	SRP

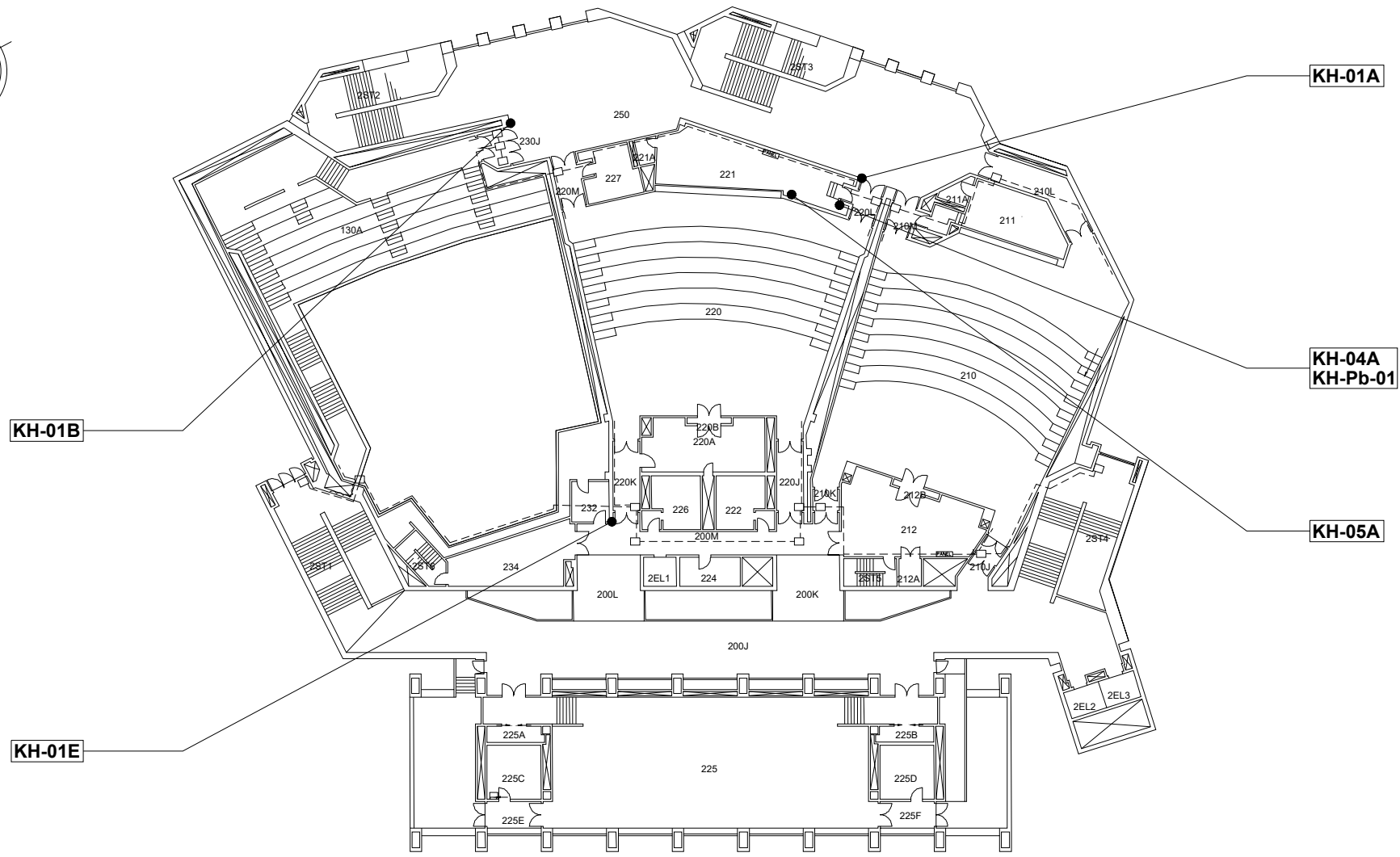
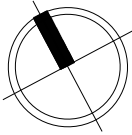
Project No.	81257008
Scale:	Not to Scale
File No.	Exhibit 3
Date:	April 2026

21905 64th Avenue W, Ste 100      Mountlake Terrace, WA 98043  
 PH. (425) 771-3304      FAX. (425) 771-3549

**First Floor (Upper) & Mezzanine - SAMPLE LOCATION DIAGRAM**

UW Kane Hall CAAMS  
 4069 Spokane Lane NE  
 Seattle, King County, Washington

EXHIBIT  
 3



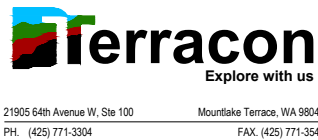
**LEGEND**

**XX-XX-X**  
 ASBESTOS SAMPLE CODE  
 MATERIAL NUMBER  
 PREFIX

**XX-Pb-XX**  
 LEAD SAMPLE NUMBER  
 LEAD MATERIAL CODE  
 PREFIX

Project Mng'r: SRP  
 Drawn By: WH  
 Checked By: JMc  
 Approved By: SRP

Project No. 81257008  
 Scale: Not to Scale  
 File No. Exhibit 4  
 Date: April 2026



**Second Floor- SAMPLE LOCATION DIAGRAM**

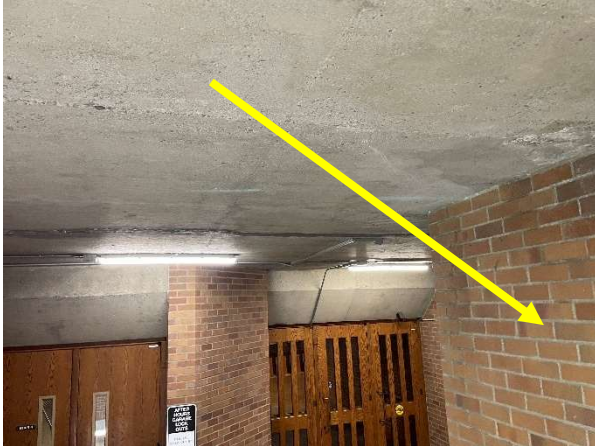
UW Kane Hall CAAMS  
 4069 Spokane Lane NE  
 Seattle, King County, Washington

EXHIBIT

4

## **Appendix C Photographs**

**Material 1**



**Material 2**



**Material 3**

PHOTO NOT AVAILABLE

**Material 4**



**Material 5**



**Material 6**



**Material 7**

PHOTO NOT AVAILABLE

**Material 8**



**Material 9**





# **Appendix D**

## **Laboratory Analytical Result**

Report for:

**Mr. John McCaslin, Scott Parker**  
**Terracon Consultants, Inc. - Seattle**  
21905 64th Avenue W, Suite 100  
Mountlake Terrace, WA 98043

---

Regarding: Eurofins Built Environment Testing West, LLC  
Project: 81257008; Kane Hall  
EML ID: 4439756

Approved by:

Dates of Analysis:  
Asbestos PLM: 03-09-2026



Approved Signatory  
James Schatz

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA 600/R-93-116, EBET-PLM-SOP83921)  
NVLAP Lab Code 600255-0

---

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins Built Environment Testing West, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: Terracon Consultants, Inc. - Seattle  
 C/O: Mr. John McCaslin, Scott Parker  
 Re: 81257008; Kane Hall

Date of Submittal: 03-04-2026  
 Date of Receipt: 03-04-2026  
 Date of Report: 03-09-2026

**ASBESTOS PLM REPORT**

<b>Total Samples Submitted:</b>	30
<b>Total Samples Analyzed:</b>	30
<b>Total Samples with Layer Asbestos Content &gt; 1%:</b>	0

**Location: KH-01A, Brick and Mortar**

Lab ID-Version‡: 22292509-1

Sample Layers	Asbestos Content
Red Brick	ND
Gray Mortar	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: KH-01B, Brick and Mortar**

Lab ID-Version‡: 22292510-1

Sample Layers	Asbestos Content
Red Brick	ND
Gray Mortar	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: KH-01C, Brick and Mortar**

Lab ID-Version‡: 22292511-1

Sample Layers	Asbestos Content
Red Brick	ND
Gray Mortar	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: KH-01D, Brick and Mortar**

Lab ID-Version‡: 22292512-1

Sample Layers	Asbestos Content
Red Brick	ND
Gray Mortar	ND
<b>Sample Composite Homogeneity:</b> Good	

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. The Company reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Terracon Consultants, Inc. - Seattle  
 C/O: Mr. John McCaslin, Scott Parker  
 Re: 81257008; Kane Hall

Date of Submittal: 03-04-2026  
 Date of Receipt: 03-04-2026  
 Date of Report: 03-09-2026

**ASBESTOS PLM REPORT**

**Location: KH-01E, Brick and Mortar**

Lab ID-Version‡: 22292513-1

Sample Layers	Asbestos Content
Red Brick	ND
Gray Mortar	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: KH-02A, Concrete at Wall/Floors/Ceilings**

Lab ID-Version‡: 22292514-1

Sample Layers	Asbestos Content
Gray Concrete	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: KH-02B, Concrete at Wall/Floors/Ceilings**

Lab ID-Version‡: 22292515-1

Sample Layers	Asbestos Content
Gray Concrete	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: KH-02C, Concrete at Wall/Floors/Ceilings**

Lab ID-Version‡: 22292516-1

Sample Layers	Asbestos Content
Gray Concrete	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: KH-02D, Concrete at Wall/Floors/Ceilings**

Lab ID-Version‡: 22292517-1

Sample Layers	Asbestos Content
Gray Concrete	ND
<b>Sample Composite Homogeneity:</b> Good	

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‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Terracon Consultants, Inc. - Seattle  
 C/O: Mr. John McCaslin, Scott Parker  
 Re: 81257008; Kane Hall

Date of Submittal: 03-04-2026  
 Date of Receipt: 03-04-2026  
 Date of Report: 03-09-2026

**ASBESTOS PLM REPORT**

**Location: KH-02E, Concrete at Wall/Floors/Ceilings**

Lab ID-Version‡: 22292518-1

Sample Layers	Asbestos Content
Gray Concrete	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: KH-02F, Concrete at Wall/Floors/Ceilings**

Lab ID-Version‡: 22292519-1

Sample Layers	Asbestos Content
Gray Concrete	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: KH-03A, GWBW/Joint Compound**

Lab ID-Version‡: 22292520-1

Sample Layers	Asbestos Content
Off-White Compound with Paint	ND
Cream Tape	ND
Off-White Joint Compound	ND
White Drywall with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b> 15% Cellulose	
<b>Sample Composite Homogeneity:</b> Good	

**Location: KH-03B, GWBW/Joint Compound**

Lab ID-Version‡: 22292521-1

Sample Layers	Asbestos Content
Off-White Joint Compound with Paint	ND
White Drywall with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b> 10% Cellulose	
<b>Sample Composite Homogeneity:</b> Good	

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Date of Submittal: 03-04-2026  
 Date of Receipt: 03-04-2026  
 Date of Report: 03-09-2026

**ASBESTOS PLM REPORT**

**Location: KH-04A, CMU with Mortar**

Lab ID-Version‡: 22292522-1

Sample Layers	Asbestos Content
Gray Cementitious Material with Paint	ND
Gray Mortar	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: KH-04B, CMU with Mortar**

Lab ID-Version‡: 22292523-1

Sample Layers	Asbestos Content
Gray Cementitious Material with Paint	ND
Gray Mortar	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: KH-04C, CMU with Mortar**

Lab ID-Version‡: 22292524-1

Sample Layers	Asbestos Content
Gray Cementitious Material with Paint	ND
Gray Mortar	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: KH-04D, CMU with Mortar**

Lab ID-Version‡: 22292525-1

Sample Layers	Asbestos Content
Gray Cementitious Material with Paint	ND
Gray Mortar	ND
<b>Sample Composite Homogeneity:</b> Good	

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 Date of Receipt: 03-04-2026  
 Date of Report: 03-09-2026

**ASBESTOS PLM REPORT**

**Location: KH-05A, 1x1 Splined CT**

Lab ID-Version‡: 22292526-1

Sample Layers	Asbestos Content
White Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	60% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Good

**Location: KH-05B, 1x1 Splined CT**

Lab ID-Version‡: 22292527-1

Sample Layers	Asbestos Content
White Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	60% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Good

**Location: KH-06A, Carpet Mastic**

Lab ID-Version‡: 22292528-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: KH-06B, Carpet Mastic**

Lab ID-Version‡: 22292529-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: KH-06C, Carpet Mastic**

Lab ID-Version‡: 22292530-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
<b>Sample Composite Homogeneity:</b>	Good

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 C/O: Mr. John McCaslin, Scott Parker  
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Date of Submittal: 03-04-2026  
 Date of Receipt: 03-04-2026  
 Date of Report: 03-09-2026

**ASBESTOS PLM REPORT**

**Location: KH-07A, 2x4 Suspended CT**

Lab ID-Version‡: 22292531-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	30% Cellulose 20% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Good

**Location: KH-07B, 2x4 Suspended CT**

Lab ID-Version‡: 22292532-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	30% Cellulose 20% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Good

**Location: KH-07C, 2x4 Suspended CT**

Lab ID-Version‡: 22292533-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	30% Cellulose 20% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Good

**Location: KH-08A, 2x2 Suspended CT**

Lab ID-Version‡: 22292534-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	30% Cellulose 20% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Good

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 C/O: Mr. John McCaslin, Scott Parker  
 Re: 81257008; Kane Hall

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 Date of Receipt: 03-04-2026  
 Date of Report: 03-09-2026

**ASBESTOS PLM REPORT**

**Location: KH-08B, 2x2 Suspended CT**

Lab ID-Version‡: 22292535-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	30% Cellulose 20% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Good

**Location: KH-09A, Plaster**

Lab ID-Version‡: 22292536-1

Sample Layers	Asbestos Content
White Plaster	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: KH-09B, Plaster**

Lab ID-Version‡: 22292537-1

Sample Layers	Asbestos Content
White Plaster	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: KH-09C, Plaster**

Lab ID-Version‡: 22292538-1

Sample Layers	Asbestos Content
White Plaster	ND
<b>Sample Composite Homogeneity:</b>	Good

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Client: Terracon Consultants, Inc. - Seattle  
C/O: Mr. John McCaslin, Scott Parker  
Re: 81257008; Kane Hall

Date of Submittal: 03-04-2026  
Date of Receipt: 03-04-2026  
Date of Report: 03-09-2026

**ASBESTOS PLM REPORT**

**PROJECT ANALYST AND SIGNATORY REPORT**

---

**Project Analyst**



---

**Analyst:** Samantha Pierce

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Report for:

**Mr. John McCaslin, Scott Parker**  
**Terracon Consultants, Inc. - Seattle**  
21905 64th Avenue W, Suite 100  
Mountlake Terrace, WA 98043

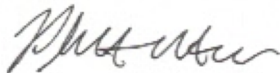
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Regarding: Eurofins Built Environment Testing West, LLC  
Project: 81257008; UW Kane Hall  
EML ID: 4439672

Approved by:

Dates of Analysis:

Lead - Flame AA: 03-10-2026



Approved Signatory  
Philip Newton

Service SOPs: Lead - Flame AA (EB-BC-S-8443)  
AIHA LAP, LLC accredited service, Lab ID #178697

---

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested. Sample size, as it relates to Wipe samples only, is supplied by the client.

Eurofins Built Environment Testing West, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins Built Environment Testing West, LLC's LabServe® reporting system includes automated fail-safes to ensure that all AIHA LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: Terracon Consultants, Inc. - Seattle  
 C/O: Mr. John McCaslin, Scott Parker  
 Re: 81257008; UW Kane Hall

Date of Submittal: 03-04-2026  
 Date of Receipt: 03-04-2026  
 Date of Report: 03-11-2026

**LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY**

Location:	KH-Pb-01: Off-White on Concrete and CMU	KH-Pb-02: Black on GWB
Comments (see below)	A	A
Lab ID-Version‡:	22290795-1	22290796-1
Analysis Date:	03/10/2026	03/10/2026
Sample type	Paint Chip sample	Paint Chip sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	40 ppm	39 ppm
Sample size	0.2520 grams	0.2572 grams
§Total Lead Result	< 40 ppm	45 ppm

**Comments:** A) The relative percent difference of the matrix duplicate pair was above control limits. The laboratory control sample and matrix blank were both within control limits and validated the batch.

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

Estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval (k ~ 2) of the level of concern, derived from a 1,000-ppm certified lead reference.

\*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

† The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

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**Eurofins Built Environment Testing West, LLC**  
2841 Dow Avenue, Suite 300, Tustin, CA 92780  
(833) 465-5857 www.eurofinsus.com/Built

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Re: 81257008; UW Kane Hall

Date of Submittal: 03-04-2026  
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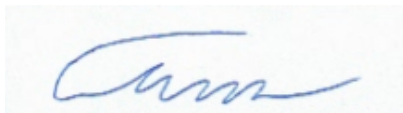
**LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY**

---

**PROJECT ANALYST AND SIGNATORY REPORT**

---

**Project Analyst**



**Analyst:** Alex Nguyen

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## **Appendix E**

### **Personnel and Laboratory Accreditations**

# Certificate of Completion

This is to certify that


**John D. McCaslin**

has satisfactorily completed  
4 hours of online refresher training as an  
**AHERA Building Inspector**

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

EPA Provider # 1085

199548  
Certificate Number



Instructor: David Welch

Jan 27, 2026

Expires in 1 year.

Date(s) of Training

Exam Score: N/A  
(if applicable)



- Facilities
- Environmental
- Geotechnical
- Materials

# Certificate of Completion

This is to certify that

**William E. Hoxsey**

has satisfactorily completed  
24 hours of training as an  
AHERA Building Inspector

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

EPA Provider # 1085

199020  
Certificate Number

  
Instructor: Tracy Bockla

Nov 12 - 14, 2025 Expires in 1 year.

Date(s) of Training

Exam Score: 92%  
(if applicable)



- Facilities
- Environmental
- Geotechnical
- Materials



**AIHA Laboratory Accreditation Programs, LLC**  
*acknowledges that*  
**Eurofins Built Environment Testing West- Portland, OR**  
**Eurofins Built Environment Testing West, LLC**  
**4321 S Corbett Ave Portland, OR 97239-4255**  
**Laboratory ID: 1122031**

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

**LABORATORY ACCREDITATION PROGRAMS**

- |                                     |                                   |                                      |
|-------------------------------------|-----------------------------------|--------------------------------------|
| <input checked="" type="checkbox"/> | <b>INDUSTRIAL HYGIENE</b>         | Accreditation Expires: July 01, 2027 |
| <input checked="" type="checkbox"/> | <b>ENVIRONMENTAL LEAD</b>         | Accreditation Expires: July 01, 2027 |
| <input checked="" type="checkbox"/> | <b>ENVIRONMENTAL MICROBIOLOGY</b> | Accreditation Expires: May 01, 2026  |
| <input type="checkbox"/>            | <b>FOOD</b>                       | Accreditation Expires:               |
| <input type="checkbox"/>            | <b>UNIQUE SCOPES</b>              | Accreditation Expires:               |
| <input type="checkbox"/>            | <b>BE FIELD/MOBILE</b>            | Accreditation Expires:               |

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

*Cheryl O. Morton*

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



# AIHA Laboratory Accreditation Programs, LLC

## SCOPE OF ACCREDITATION

**Eurofins Built Environment Testing**  
**West- Portland, OR**  
Eurofins Built Environment Testing  
West, LLC  
4321 S Corbett Ave Portland, OR 97239-4255

Laboratory ID: 1122031

Issue Date: 06/06/2025

Expire Date: 07/01/2027

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

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

### Environmental Lead Laboratory Accreditation Program (ELLAP)

**Initial Accreditation Date: 06/06/2025**

Component, parameter, characteristic, material, or product tested	Technology sub-type/Detector	Method	Method Description (for internal methods only)
Paint	AA	EPA SW-846 7000B Modified	N/A
		NIOSH 7082	N/A

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

United States Department of Commerce  
National Institute of Standards and Technology



---

# Certificate of Accreditation to ISO/IEC 17025:2017

---

NVLAP LAB CODE: 101920-0

**Eurofins Built Environment Testing West- Seattle, WA**  
Seattle, 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 Communiqué on ISO/IEC 17025).*

2025-10-01 through 2026-09-30

*Effective Dates*



A handwritten signature in black ink, appearing to read 'Robert J. ...'.

*For the National Voluntary Laboratory Accreditation Program*

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017**

**Eurofins Built Environment Testing West- Seattle, WA**

7619 6th Avenue, NW

Seattle, WA 98117

Kuan W. Chen

Phone: 415-377-0751

Email: [kuan.chen@et.eurofinsus.com](mailto:kuan.chen@et.eurofinsus.com)

<http://www.labcor.net>

**ASBESTOS FIBER ANALYSIS**

**NVLAP LAB CODE 101920-0**

**Bulk Asbestos Analysis**

**Code**

**Description**

18/A01

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

18/A03

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

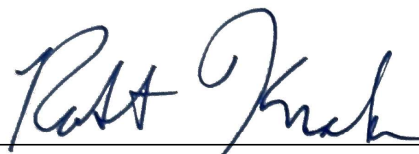
**Airborne Asbestos Analysis**

**Code**

**Description**

18/A02

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



*For the National Voluntary Laboratory Accreditation Program*



**FACILITIES SERVICES**  
UNIVERSITY of WASHINGTON

July 18, 2025

**Todd Winkler**  
**Maintenance Supervisor 2 (E S SEIU 925 Supv)**  
**UWF: OPS: M&C: Outside Zone**

Hello Todd,

On July 15<sup>th</sup>, 2025, Dan Schwert (Certification Number NES-BIR-20250110-18, expiration date 1-10-2026) AHERA Accredited Building Inspector with the University of Washington, Regulated Materials Management Office, performed targeted sampling of requested materials in specified locations in Kane Hall on the University of Washington Campus. The inspection was performed under UW Work Order Number 33335, AIM WR# 1093233, Phase 004. Eight (8) samples were collected to represent the suspected asbestos containing materials that may be disturbed by future work. Four (4) samples were collected to represent the majority of suspect lead-containing coatings that may be impacted. No other areas or materials were included in this assessment. The materials sampled were limited to the specified areas. A summary of the regulated materials is as follows:

**Table 1: Bulk Asbestos Sample Results**

HSA ID, Material Description and AHERA Classification	Material Location	Lab Results
33335-ASB1: Brick and mortar (M)	Stair 4 Between Floors 1 & 2 NE corner of Building	ND No Asbestos Detected
33335-ASB2: Brown door caulking with gray foam backing (M)	Stair 4 Between Floors 1 & 2 NE corner of Building	ND No Asbestos Detected
33335-ASB3: Brick and mortar (M)	Stair 1 Between Floors 1 & 2 NW corner of Building	ND No Asbestos Detected
33335-ASB4: Brown door caulking with gray foam backing (M)	Stair 1 Between Floors 1 & 2 NW corner of Building	ND No Asbestos Detected

*HSA: material that is uniform in color, texture, general appearance, and construction and application date, M: Miscellaneous material per AHERA, S: Surfacing material per AHERA, ND: Non-detect*

**Table 2. Lead Sample Results**

Sample Number and Description	Material Location	Lab Results in PPM
33335-Pb1-01: Brick and mortar	Stair 4 Between Floors 1 & 2 NE corner of Building	<34
<b>33335-Pb2-01: Brown door varnish</b>	<b>Stair 4 Between Floors 1 &amp; 2 NE corner of Building</b>	<b>710</b>
33335-Pb3-01: Brick and mortar	Stair 1 Between Floors 1 & 2 NW corner of Building	<35
<b>33335-Pb4-01: Brown door varnish</b>	<b>Stair 1 Between Floors 1 &amp; 2 NW corner of Building</b>	<b>730</b>

<: below the reporting limit, PPM – Parts per Million

**FINDINGS AND RECOMMENDATIONS:**

The suspect materials in question do not contain asbestos.

Should additional materials be uncovered during scheduled work activities not previously identified the Regulated Materials Management Office should be contacted for an assessment. Unidentified materials should be treated as assumed ACM (asbestos-containing material) in accordance with all applicable local, state, and federal regulations.

Asbestos-related work must be performed in compliance with Washington State worker protection and environmental protection regulations. See WAC 296-62, 296-65, and PSCAA Regulation III, Article 4 for additional information.

## **LEAD-CONTAINING PAINT/COATING CONCLUSIONS**

**The brown door varnish samples collected were found to contain detectable levels of lead. Lead work safe procedures will be needed when impacting the doors.**

The brick and mortar had no detectable levels of lead.

If other portions of the building material may be impacted by proposed repairs/renovations the Regulated Materials Management Office should be contacted for an assessment. Other paints/coatings may contain detectable levels of lead. If this building or portions of it will be demolished and disposed of, a toxicity characteristic leachate procedure (TCLP) sample that is representative of the waste stream must be collected and analyzed per the requirements of WAC173-303. If the results of the TCLP analysis determine the waste to be a "dangerous waste" as defined by WAC 173-303, it must be disposed of accordingly. It is the University's responsibility to characterize the waste stream for lead prior to disposal.

Sincerely,

**Dan Schwert  
Industrial Hygienist 2  
Facilities Regulated Materials**

Plant Services Building  
4515 25<sup>th</sup> Avenue NE Box 354285  
Seattle, Washington 98195-4285  
Cell: 206-491-6076  
[schwertd@uw.edu](mailto:schwertd@uw.edu)

*This message is intended for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us.*

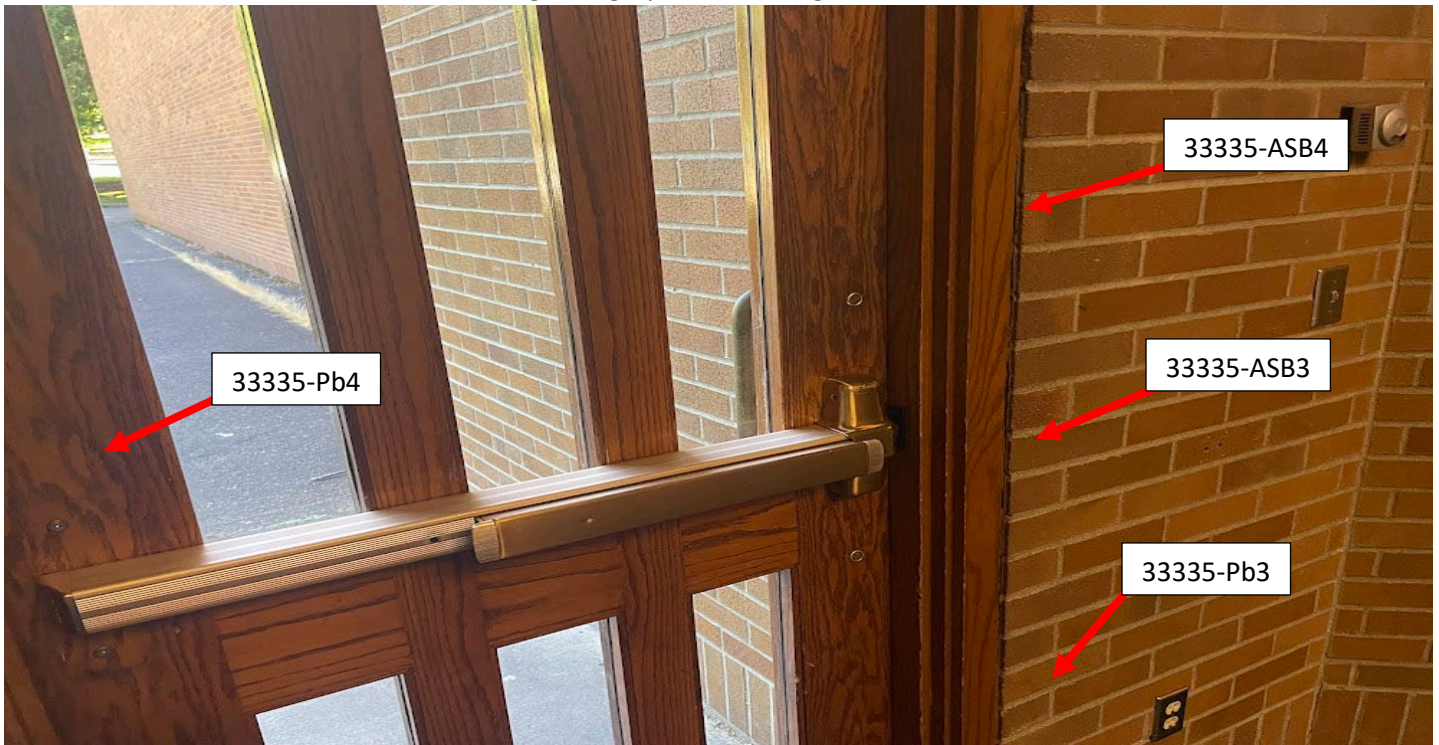
## **Pictures and Analysis Results**

*Work Request Specific*

Pic. 1: Brick and mortar, Brown door caulking with gray foam backing & Brown door varnish



Pic. 2: Brick and mortar, Brown door caulking with gray foam backing & Brown door varnish



July 17, 2025



Dan Schwert  
University of WA - Facilities Maintenance  
Plant Services Building- Box 354285, 4515 25th Ave. NE  
Seattle, WA 98105-4104

**RE: Bulk Asbestos Fiber Analysis; NVL Batch # 2512084.00**

Client Project: PO-0100002416  
Location: WO 33335 AIM 1093233-004 Kane Hall CAAMS

Dear Mr. Schwert,

Enclosed please find test results for the 8 sample(s) submitted to our laboratory for analysis on 7/15/2025.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with **U. S. EPA 40 CFR Appendix E to Subpart E of Part 763**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116**, Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

A handwritten signature in black ink that reads "Hilary Crumley".

Hilary Crumley, Manager Asbestos Laboratory

The logo for NVL LABS, featuring the letters "NVL LABS" in a stylized, outlined font.

Testing

Lab Code: 102063-0

Enc.: Sample Results

**Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)**  
**4708 Aurora Avenue North | Seattle, WA 98103-6516**



# Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: University of WA - Facilities Maintenance  
 Address: Plant Services Building- Box 354285,  
 4515 25th Ave. NE  
 Seattle, WA 98105-4104

**Batch #: 2512084.00**  
 Client Project #: PO-0100002416  
 Date Received: 7/15/2025  
 Samples Received: 8  
 Samples Analyzed: 8  
 Method: EPA/600/R-93/116

**Attention: Mr. Dan Schwert**

Project Location: WO 33335 AIM 1093233-004 Kane Hall CAAMS

**Lab ID: 250070189      Client Sample #: 33335-ASB1-01**

Location: WO 33335 AIM 1093233-004 Kane Hall CAAMS

<b>Layer 1 of 2</b>	<b>Description:</b> Tan brittle tile			
	Non-Fibrous Materials:	Other Fibrous Materials: %		<b>Asbestos Type: %</b>
	Binder/Filler, Mineral grains, Fine particles	None Detected	ND	<b>None Detected ND</b>
<b>Layer 2 of 2</b>	<b>Description:</b> Off-white sandy/brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials: %		<b>Asbestos Type: %</b>
	Binder/Filler, Mineral grains, Fine grains	None Detected	ND	<b>None Detected ND</b>

**Lab ID: 250070190      Client Sample #: 33335-ASB1-02**

Location: WO 33335 AIM 1093233-004 Kane Hall CAAMS

<b>Layer 1 of 2</b>	<b>Description:</b> Tan brittle tile			
	Non-Fibrous Materials:	Other Fibrous Materials: %		<b>Asbestos Type: %</b>
	Binder/Filler, Mineral grains, Fine particles	None Detected	ND	<b>None Detected ND</b>
<b>Layer 2 of 2</b>	<b>Description:</b> Off-white sandy/brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials: %		<b>Asbestos Type: %</b>
	Binder/Filler, Mineral grains, Fine grains	None Detected	ND	<b>None Detected ND</b>

**Lab ID: 250070191      Client Sample #: 33335-ASB2-01**

Location: WO 33335 AIM 1093233-004 Kane Hall CAAMS

<b>Layer 1 of 2</b>	<b>Description:</b> White foamy material			
	Non-Fibrous Materials:	Other Fibrous Materials: %		<b>Asbestos Type: %</b>
	Binder/Filler, Synthetic foam	None Detected	ND	<b>None Detected ND</b>
<b>Layer 2 of 2</b>	<b>Description:</b> Beige soft sticky material			
	Non-Fibrous Materials:	Other Fibrous Materials: %		<b>Asbestos Type: %</b>
	Binder/Filler, Fine particles	None Detected	ND	<b>None Detected ND</b>

**Sampled by:** Client

**Analyzed by:** Akane Yoshikawa

**Reviewed by:** Hilary Crumley

**Date:** 07/16/2025

**Date:** 07/17/2025

Hilary Crumley, Manager Asbestos Laboratory

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



# Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: University of WA - Facilities Maintenance  
 Address: Plant Services Building- Box 354285,  
 4515 25th Ave. NE  
 Seattle, WA 98105-4104

**Batch #: 2512084.00**  
 Client Project #: PO-0100002416  
 Date Received: 7/15/2025  
 Samples Received: 8  
 Samples Analyzed: 8  
 Method: EPA/600/R-93/116

**Attention: Mr. Dan Schwert**

Project Location: WO 33335 AIM 1093233-004 Kane Hall CAAMS

**Lab ID: 250070192      Client Sample #: 33335-ASB2-02**

Location: WO 33335 AIM 1093233-004 Kane Hall CAAMS

<b>Layer 1 of 2</b>	<b>Description:</b> White foamy material			
	Non-Fibrous Materials: Binder/Filler, Synthetic foam	Other Fibrous Materials:% None Detected	ND	<b>Asbestos Type: % None Detected</b>
<b>Layer 2 of 2</b>	<b>Description:</b> Beige soft sticky material			
	Non-Fibrous Materials: Binder/Filler, Fine particles	Other Fibrous Materials:% None Detected	ND	<b>Asbestos Type: % None Detected</b>

**Lab ID: 250070193      Client Sample #: 33335-ASB3-01**

Location: WO 33335 AIM 1093233-004 Kane Hall CAAMS

<b>Layer 1 of 2</b>	<b>Description:</b> Tan brittle tile			
	Non-Fibrous Materials: Binder/Filler, Mineral grains, Fine particles	Other Fibrous Materials:% None Detected	ND	<b>Asbestos Type: % None Detected</b>
<b>Layer 2 of 2</b>	<b>Description:</b> Gray sandy/brittle material			
	Non-Fibrous Materials: Binder/Filler, Mineral grains, Fine grains	Other Fibrous Materials:% None Detected	ND	<b>Asbestos Type: % None Detected</b>

**Lab ID: 250070194      Client Sample #: 33335-ASB3-02**

Location: WO 33335 AIM 1093233-004 Kane Hall CAAMS

<b>Layer 1 of 2</b>	<b>Description:</b> Tan brittle tile			
	Non-Fibrous Materials: Binder/Filler, Mineral grains, Fine particles	Other Fibrous Materials:% None Detected	ND	<b>Asbestos Type: % None Detected</b>
<b>Layer 2 of 2</b>	<b>Description:</b> Gray sandy/brittle material			
	Non-Fibrous Materials: Binder/Filler, Mineral grains, Fine grains	Other Fibrous Materials:% None Detected	ND	<b>Asbestos Type: % None Detected</b>

<b>Sampled by:</b> Client		
<b>Analyzed by:</b> Akane Yoshikawa	<b>Date:</b> 07/16/2025	
<b>Reviewed by:</b> Hilary Crumley	<b>Date:</b> 07/17/2025	Hilary Crumley, Manager Asbestos Laboratory

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



# Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: University of WA - Facilities Maintenance  
Address: Plant Services Building- Box 354285,  
4515 25th Ave. NE  
Seattle, WA 98105-4104

**Batch #: 2512084.00**  
Client Project #: PO-0100002416  
Date Received: 7/15/2025  
Samples Received: 8  
Samples Analyzed: 8  
Method: EPA/600/R-93/116

**Attention: Mr. Dan Schwert**

Project Location: WO 33335 AIM 1093233-004 Kane Hall CAAMS

**Lab ID: 250070195      Client Sample #: 33335-ASB4-01**

Location: WO 33335 AIM 1093233-004 Kane Hall CAAMS

<b>Layer 1 of 2</b>	<b>Description:</b> White foamy material			
		Non-Fibrous Materials: Binder/Filler, Synthetic foam	Other Fibrous Materials:% None Detected    ND	<b>Asbestos Type: % None Detected ND</b>
<b>Layer 2 of 2</b>	<b>Description:</b> Beige soft sticky material			
		Non-Fibrous Materials: Binder/Filler, Fine particles	Other Fibrous Materials:% None Detected    ND	<b>Asbestos Type: % None Detected ND</b>

**Lab ID: 250070196      Client Sample #: 33335-ASB4-02**

Location: WO 33335 AIM 1093233-004 Kane Hall CAAMS

<b>Layer 1 of 2</b>	<b>Description:</b> White foamy material			
		Non-Fibrous Materials: Binder/Filler, Synthetic foam	Other Fibrous Materials:% None Detected    ND	<b>Asbestos Type: % None Detected ND</b>
<b>Layer 2 of 2</b>	<b>Description:</b> Beige soft sticky material			
		Non-Fibrous Materials: Binder/Filler, Fine particles	Other Fibrous Materials:% None Detected    ND	<b>Asbestos Type: % None Detected ND</b>

**Sampled by:** Client

**Analyzed by:** Akane Yoshikawa

**Reviewed by:** Hilary Crumley

**Date:** 07/16/2025

**Date:** 07/17/2025

Hilary Crumley, Manager Asbestos Laboratory

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

# ASBESTOS LABORATORY SERVICES



<b>Company</b> University of WA - Facilities Maintenance	<b>NVL Batch Number</b> <b>2512084.00</b>
<b>Address</b> Plant Services Building- Box 354285, 4515 25th Ave. NE	<b>TAT</b> 4 Hrs <span style="float: right;"><b>AH</b> No</span>
<b>Project Manager</b> Mr. Dan Schwert	<b>Rush TAT</b> _____
<b>Phone</b> (206) 685-3357	<b>Due Date</b> 7/16/2025 <b>Time</b> 10:00 AM
<b>Cell</b> (206) 491-6076	<b>Email</b> schwertd@uw.edu
	<b>Fax</b> (206) 221-7756

**Project Name/Number:** PO-0100002416 **Project Location:** WO 33335 AIM 1093233-004 Kane Hall CAAMS

**Subcategory** PLM Bulk  
**Item Code** ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

**Total Number of Samples** 8 **Rush Samples** \_\_\_\_\_

Lab ID	Sample ID	Description	A/R
1	250070189	33335-ASB1-01	A
2	250070190	33335-ASB1-02	A
3	250070191	33335-ASB2-01	A
4	250070192	33335-ASB2-02	A
5	250070193	33335-ASB3-01	A
6	250070194	33335-ASB3-02	A
7	250070195	33335-ASB4-01	A
8	250070196	33335-ASB4-02	A

	Print Name	Signature	Company	Date	Time
<b>Sampled by</b>	Client				
<b>Relinquished by</b>	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
<b>Received by</b>	Kelly AuVu		NVL	7/15/25	1500
<b>Analyzed by</b>	Akane Yoshikawa		NVL	7/16/25	
<b>Results Called by</b>					
<input type="checkbox"/> <b>Faxed</b> <input type="checkbox"/> <b>Emailed</b>					

**Special Instructions:** \_\_\_\_\_

Date: 7/15/2025  
 Time: 3:06 PM  
 Entered By: Kelly AuVu

# CHAIN of CUSTODY SAMPLE LOG

# 2512084

**Client** UW- Facilities Maintenance & Construction  
**Street** Plant Services Building- Box 354285, 4515  
25th Ave. NE  
Seattle, WA 98105-4104

**NVL Batch Number** \_\_\_\_\_

**Client Job Number** PO-0100002416

**Total Samples** 8

**Turn Around Time**  1 Hr  6 Hrs  3 Days  10 Days  
 2 Hrs  1 Day  4 Days  
 4 Hrs  2 Days  5 Days

Please call for TAT less than 24 Hrs

**Project Manager** Dan Schwert

**Project Location** WO: 33335 AIM WO: 1093233-004  
Kane Hall CAAMS

**Email address** schwertd@uw.edu  
**Cell** \_\_\_\_\_

**Phone:** \_\_\_\_\_ **Fax:** (206) 221-7756

<input type="checkbox"/> <b>Asbestos Air</b>	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> <b>Asbestos Bulk</b>	<input checked="" type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM BULK	
<input type="checkbox"/> <b>Mold/Fungus</b>	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> <b>Rotometer Calibration</b>		
<b>METALS</b>	<b>Det. Limit</b>	<b>Matrix</b>	<b>RCRA Metals</b>	<input type="checkbox"/> All 8	<b>Other Metals</b>
<input type="checkbox"/> Total Metals	<input type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input type="checkbox"/> Arsenic (As)	<input type="checkbox"/> Lead (Pb)	<input type="checkbox"/> All 3
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Mercury (Hg)	<input type="checkbox"/> Copper (Cu)
<input type="checkbox"/> Cr 6	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Selenium (Se)	<input type="checkbox"/> Nickel (Ni)
	<input type="checkbox"/> CVAA (ppb)	<input type="checkbox"/> Soil	<input type="checkbox"/> Chromium (Cr)	<input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Zinc (Zn)
<input type="checkbox"/> <b>Other Types of Analysis</b>	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			

**Condition of Package:**  Good  Damaged (no spillage)  Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample are, Sample Volume, etc)	A/R
1		33335-ASB1-01		
2		33335-ASB1-02		
3		33335-ASB2-01		
4		33335-ASB2-02		
5		33335-ASB3-01		
6		33335-ASB3-02		
7		33335-ASB4-01		
8		33335-ASB4-02		
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
<b>Sampled by</b>	Dan Schwert		UW		
<b>Relinquished by</b>	Dan Schwert		UW	7/18/25	
<b>Received by</b>			NVL	7/15/25	1:50
<b>Analyzed by</b>					
<b>Results Called by</b>					
<b>Results Faxed by</b>					

**Special Instructions:** Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

\*\*\*Please composite drywall/joint compound samples. Thank you!\*\*\*

July 16, 2025

Dan Schwert

**University of WA - Facilities Maintenance**

Plant Services Building- Box 354285, 4515 25th Ave. NE  
Seattle, WA 98105-4104



**NVL Batch # 2512085.00**

**RE: Total Metal Analysis**

**Method: EPA 7000B Lead by FAA <paint>**

**Item Code: FAA-02**

Client Project: PO-0100002416

Location: WO 33335 AIM 1093233-004 Kane Hall CAAMS

Dear Mr. Schwert,

NVL Labs received 4 sample(s) for the said project on 7/15/2025. Preparation of these samples was conducted following protocol outlined in EPA 3051/7000B , unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with EPA 7000B Lead by FAA <paint>. The results are usually expressed in mg/Kg and percentage (%). Test results are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more detail.

At NVL Labs all analyses are performed under strict guidelines of the Quality Assurance Program. If samples were collected by the customer, then the reported test results apply only to the samples as received by NVL Labs. This report is considered highly confidential and will not be released without your approval. Samples are archived after two weeks from the analysis date. Please feel free to contact us at 206-547-0100, in case you have any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read 'Shalini Patel'.

Shalini Patel, Manager Metals/Org Laboratory

Enc.: Sample results



Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)  
4708 Aurora Avenue North | Seattle, WA 98103-6516

# Analysis Report

## Total Lead (Pb)



Client: University of WA - Facilities Maintenance  
Address: Plant Services Building- Box 354285, 4515 25th  
Ave. NE  
Seattle, WA 98105-4104

**Batch #: 2512085.00**

Matrix: Paint  
Method: EPA 3051/7000B  
Client Project #: PO-0100002416  
Date Received: 7/15/2025  
Samples Received: 4  
Samples Analyzed: 4

**Attention: Mr. Dan Schwert**

Project Location: WO 33335 AIM 1093233-004 Kane Hall CAAMS

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
250070197	33335-Pb1-01	0.2953	34	< 34	<0.0034
250070198	33335-Pb2-01	0.2136	47	710	0.071
250070199	33335-Pb3-01	0.2834	35	< 35	<0.0035
250070200	33335-Pb4-01	0.1925	52	730	0.073


Sampled by: Client

Analyzed by: Yasuyuki Hida

Reviewed by: Shalini Patel

Date Analyzed: 07/15/2025

Date Issued: 07/16/2025

  
Shalini Patel, Manager Metals/Org Laboratory

mg/ Kg =Milligrams per kilogram

Percent = Milligrams per kilogram / 10000

Note : Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

RL = Reporting Limit

'<' = Below the reporting Limit

Bench Run No: 2025-0715-09

FAA-02

# LEAD LABORATORY SERVICES



**Company** University of WA - Facilities Maintenance **NVL Batch Number** **2512085.00**  
**Address** Plant Services Building- Box 354285, 4515 **TAT** 4 Hrs **AH** No  
 25th Ave. NE **Rush TAT** \_\_\_\_\_  
**Project Manager** Mr. Dan Schwert **Due Date** 7/16/2025 **Time** 10:00 AM  
**Phone** (206) 685-3357 **Email** schwertd@uw.edu  
**Cell** (206) 491-6076 **Fax** (206) 221-7756

**Project Name/Number:** PO-0100002416 **Project Location:** WO 33335 AIM 1093233-004 Kane Hall CAAMS

**Subcategory** Flame AA (FAA)  
**Item Code** FAA-02 EPA 7000B Lead by FAA <paint>

**Total Number of Samples** 4 **Rush Samples** \_\_\_\_\_

	Lab ID	Sample ID	Description	A/R
1	250070197	33335-Pb1-01		A
2	250070198	33335-Pb2-01		A
3	250070199	33335-Pb3-01		A
4	250070200	33335-Pb4-01		A

	Print Name	Signature	Company	Date	Time
<b>Sampled by</b>	Client				
<b>Relinquished by</b>	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
<b>Received by</b>	Kelly AuVu		NVL	7/15/25	1500
<b>Analyzed by</b>	Yasuyuki Hida		NVL	7/15/25	
<b>Results Called by</b>					
<input type="checkbox"/> <b>Faxed</b> <input type="checkbox"/> <b>Emailed</b>					

**Special Instructions:** \_\_\_\_\_

Date: 7/15/2025  
 Time: 3:12 PM  
 Entered By: Kelly AuVu

# CHAIN of CUSTODY SAMPLE LOG

# 2512085

LABORATORY • MANAGEMENT • TRAINING

**Client** UW- Facilities Maintenance & Construction  
**Street** Plant Services Building- Box 354285, 4515  
25th Ave. NE  
Seattle, WA 98105-4104  
**Project Manager** Dan Schwert  
**Project Location** WO:33335 Kane Hall      AIM WO:1093233-004 CAAMS

**NVL Batch Number** \_\_\_\_\_  
**Client Job Number** PO-0100002416  
**Total Samples** 4  
**Turn Around Time**  1 Hr    2 Hrs    4 Hrs    6 Hrs    1 Day    2 Days    3 Days    4 Days    5 Days    10 Days  
 Please call for TAT less than 24 Hrs  
**Email address:** schwertd@uw.edu

**Phone:** \_\_\_\_\_      **Fax:** \_\_\_\_\_      **Cell:** \_\_\_\_\_

<input type="checkbox"/> Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400)	<input type="checkbox"/> TEM (NIOSH 7402)	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> Other
<input type="checkbox"/> Asbestos Bulk	<input type="checkbox"/> PLM (EPA/600/R-93/116)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> PLM (EPA Gravimetry)	<input type="checkbox"/> TEM BULK	
<input type="checkbox"/> Mold/Fungus	<input type="checkbox"/> Mold Air	<input type="checkbox"/> Mold Bulk	<input type="checkbox"/> Rotometer Calibration		
<b>METALS</b>	<b>Det. Limit</b>	<b>Matrix</b>	<b>RCRA Metals</b>	<input type="checkbox"/> All 8	<b>Other Metals</b>
<input checked="" type="checkbox"/> Total Metals	<input checked="" type="checkbox"/> FAA (ppm)	<input type="checkbox"/> Air Filter	<input checked="" type="checkbox"/> Paint Chips in %	<input type="checkbox"/> Arsenic (As)	<input checked="" type="checkbox"/> Lead (Pb)
<input type="checkbox"/> TCLP	<input type="checkbox"/> ICP (ppm)	<input type="checkbox"/> Drinking water	<input type="checkbox"/> Paint Chips in cm2	<input type="checkbox"/> Barium (Ba)	<input type="checkbox"/> Mercury (Hg)
<input type="checkbox"/> Cr 6	<input type="checkbox"/> GFAA (ppb)	<input type="checkbox"/> Dust/wipe (Area)	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Selenium (Se)
	<input type="checkbox"/> CVAA (ppb)	<input type="checkbox"/> Soil	<input type="checkbox"/> Other	<input type="checkbox"/> Chromium (Cr)	<input type="checkbox"/> Silver (Ag)
<input type="checkbox"/> Other Types of Analysis	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Nuisance Dust	<input type="checkbox"/> Other (Specify) _____		<input type="checkbox"/> All 3
	<input type="checkbox"/> Silica	<input type="checkbox"/> Respirable Dust			<input type="checkbox"/> Copper (Cu)
					<input type="checkbox"/> Nickel (Ni)
					<input type="checkbox"/> Zinc (Zn)

**Condition of Package:**  Good    Damaged (no spillage)    Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample are, Sample Volume, etc)	A/R
1		33335-Pb1-01		
2		33335-Pb2-01		
3		33335-Pb3-01		
4		33335-Pb4-01		
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
<b>Sampled by</b>	Dan Schwert	<i>[Signature]</i>	UW		
<b>Relinquished by</b>	Dan Schwert	<i>[Signature]</i>	UW	7/15/25	
<b>Received by</b>	<i>[Signature]</i>	<i>[Signature]</i>	NVL	7/15/25	1500
<b>Analyzed by</b>			NVL		
<b>Results Called by</b>			NVL		
<b>Results Faxed by</b>			NVL		

**Special Instructions:** Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

**DIVISION 02**  
EXISTING CONDITIONS

## PART 1 GENERAL

### 1.1 SUMMARY

#### A. Section Includes:

1. Selective demolition, removal, and disposal of the work indicated in the Drawings
2. Salvage & reinstallation of existing masonry as required to conceal conduits and boxes within brick veneer cavity.
3. Salvage & reinstallation of existing finishes within auditoriums to install concealed conduits and boxes.
4. Maintain services/systems and protect against damage during selective demolition

#### B. Related Sections:

- |                   |   |                                       |
|-------------------|---|---------------------------------------|
| 1. Section 011101 | - | Summary of Work – Regulated Materials |
| 2. Section 028000 | - | Facilities Remediation                |
| 3. Section 028300 | - | Lead Control Activities               |
| 4. Section 040121 | - | Masonry Restoration                   |
| 5. Section 042114 | - | Anchored Brick Masonry Veneer         |
| 6. Section 061000 | - | Rough Carpentry                       |
| 7. Section 062000 | - | Finish Carpentry                      |
| 8. Section 083113 | - | Access Doors and Frames               |
| 9. Section 087100 | - | Door Hardware                         |
| 10. Division 26   | - | Electrical                            |
| 11. Division 27   | - | Communications                        |
| 12. Division 28   | - | Security                              |

### 1.2 PRICE AND PAYMENT PROCEDURES

- A. Allowances: Refer to Section 012100 - Allowances for effect on work of this Section.

### 1.3 ADMINISTRATIVE REQUIREMENTS

- A. Conform to Section 013100 for coordination with work of other Sections.
- B. Schedule activities in accordance with demolition procedures and sequence of operations submitted to and accepted by Owner and Architect before beginning work.
- D. Arrange for and verify termination of utility services encountered.
1. Do not shut off or cap utilities without prior notice to Owner and utility companies.
  2. Notify affected utility companies before starting work and conform to their requirements.
- E. Conduct work so as not to interfere with Owner's use of the building as specified in Section 011100.
- F. Coordinate with salvage contractor under work of separate contact during Work of this Contract, as specified Section 011100.

#### 1.4 Pre-demolition Conference:

- A. Arrange, in accordance with Section 013119.
- B. Attendance: Contractor, Owner, Architect, demolition subcontractor, and those requested to attend.
- C. Meeting Time: Minimum 1 week prior to beginning work of this Section and work of related Sections affecting work of this Section.
- D. Location: Project Site.
- E. Agenda:
  - 1. Sequencing and procedures for selective building demolition and salvage
  - 2. Means to limit spread of dust, water, debris, and other pollution.
  - 3. Owner requirements for occupancy of portions of site.
  - 4. Means to protect and maintain surrounding structures and sitework not included in demolition work.
  - 5. Review provisions for recycling and other re-use measures designed to limit dumping of construction debris into landfills.
- F. Discuss procedures in event suspected hazardous materials are encountered.
- G. Sequencing / Scheduling:
  - 1. Conform to Section 013216 to meet Progress Schedule Critical Path and long lead items.

#### 1.5 SUBMITTALS

- A. Conform to submittal requirements of Section 013300.
- B. Sequence of Operations: Show exact sequence of operations for selective demolition at each doorway to minimize restrictions to users.

#### 1.6 CLOSEOUT SUBMITTALS

- A. Project Record Documents: Submit in accordance with Section 017700.
  - 1. Accurately record location of encountered existing utilities, capped utilities, subsurface conditions and obstructions, and construction remaining within site demolition area at project completion.

#### 1.7 QUALITY ASSURANCE

- 1. Hazardous Material Procedures and Discovery: Conform to Hazardous Material Survey under Appendix C and provisions of Section 011101 Summary of Work – Regulated Materials, Section 028000 Facilities Remediation, Section 028300 Lead Control Activities

## 1.8 QUALIFICATIONS

- A. Demolition Subcontractor: Company specializing in work of this Section, with minimum 3 years documented experience in sequential demolition procedures limiting damage to only those portions of structures requiring demolition.

## 1.9 FIELD CONDITIONS

- A. Dust Control, and Runoff Control: Conform to Section 015000 and requirements of local jurisdiction.
  - 1. Limit dust to lowest practicable level.
  - 2. Sprinkle exterior demolition work with water to minimize dust. Provide hoses and water connections for this purpose.
  - 3. Proceed in manner to prevent flooding, contaminated runoff, or icing.
  - 4. Maintain street drains and sewers open and free of debris and damage from Work of this Contract.
- B. Do not close or obstruct public access without permission from authorities having jurisdiction.
  - 1. Obtain permission from adjacent property owners when demolition activities and equipment may infringe upon or limit access to their properties.
  - 2. Maintain site access.
- C. Maintain recycling adaptive reuse program for salvaging construction debris to reduce dumping of construction debris into landfills.
  - 1. Sort construction debris into separate bins and employ recycling as means to reduce dumping of refuse into landfills.

## PART 2 PRODUCTS

### 2.1 SALVAGE AND CONSTRUCTION WASTE MANAGEMENT

- A. Items for Owner's use have been removed by Owner from buildings and grounds, except as otherwise specified, shown on Drawings, or directed by Owner or Architect.
  - 1. Salvage existing ADA actuators and push button for reinstallation at locations indicated in Drawings
  - 2. To route conduits and boxes in a concealed manner, salvage:
    - a. Existing wood wall panels within existing auditorium
    - b. Existing acoustical ceiling tiles
    - c. Existing masonry (to route conduits within brick veneer cavity)
- B. Remaining unused demolition from building and site is Contractor's property. Remove from site and dispose of in legal manner.
- C. Remove unused site stored salvaged material prior to Substantial Completion of Project, except where otherwise directed by Owner or Architect.

## 2.2 REGULATORY REQUIREMENTS

- A. Conform to Regulatory Requirements specified Section 014100.
- B. Obtain required permits from governing authorities before proceeding. Obtain permits before closing or obstructing roadways, sidewalks, hydrants, and fire lanes.
- C. Conform to applicable code, health departments, and local and state agencies for demolition of structures, dust control, runoff control, and disposal of debris.
- D. Conform to local governing jurisdiction requirements regarding noise control.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Verify that complete building demolition and selective demolition may safely and appropriately begin.
- B. Verify acquisition of required permits and permission from local governing authorities.
- C. Verify and coordinate with Owner requirements.

### 3.2 PREPARATION

- A. Provide and maintain temporary barriers as specified Section 015000.
  - 1. Erect barriers and enclosures to direct heavy equipment and to prevent damage to existing plant materials, surfaces, finishes and other materials to remain
  - 2. Erect barriers, barricades, railings, and signage to block off openings in floors and walls that may pose a danger to personnel and equipment.
  - 3. Cover openings, such as demolished or damaged roofing and waterproofing systems, to prevent water intrusion into building and to prevent fall danger to personnel.
- B. Provide shoring, bracing, and underpinning procedures and materials as required to prevent settlement and other damage, conforming to Section 314000.
- C. Cover and protect existing finishes, surfaces, and edges of construction to remain from demolition damage. Cover edges and with layer of clean corrugated cardboard or with one layer of minimum 7/16 inch OSB board or plywood. Tape joints. Do not through-nail into substrate. Include:
  - 1. Floor surfaces, stair treads and risers, and other surfaces susceptible to damage from foot traffic and rolling loads
  - 2. Plaster, woodwork, and other finishes and surfaces subject to damage from demolition work and equipment
  - 3. Existing plaster and gypsum board walls, doors, stairways, railings,
- D. Take measures to protect and cushion existing construction and finishes at openings where chutes are used.

### 3.3 SELECTIVE BUILDING DEMOLITION

- A. Conduct demolition operations to prevent damage to finished surfaces, items, and construction at portions of building not designated for demolition. Conform to provisions of Section 013516 for alteration project procedures.
- B. Where structure systems appear to be in danger, suspend work in affected area, and promptly notify Architect for direction.
- C. Minimize cutting and removal of work to remain.
  - 1. Cut finished surfaces, such as concrete, masonry, and plaster, by methods to terminate surfaces in straight line at natural point of division. Do not over cut.
  - 2. Leave smooth edges at finished surfaces.
- D. Cut concrete slabs to maximum 3 inch deep, leaving minimum 1 inch remaining, before breaking up to prevent cutting of underslab conduit, pipe, and other utilities.
- E. Remove abandoned items and extraneous material such as abandoned pipe, conduit, clips, fasteners, and fabrications.

### 3.4 ADJUSTING

- A. Backfill excavated areas, basements, open pits, holes, and swales with specified or suitable fill material. Rough grade to levels approximating final grades.
- B. Repair, replace, or reimburse Owner for damage to existing structures and finishes, trees and plant materials, utilities, and other items not indicated to be demolished under this work. Deduct cost from Contract Sum.
- C. Replace finish materials that are a potential food source for molds, fungi, and that have become wet during course of construction.

### 3.5 CLEANING

- A. Leave demolition areas clean and free from debris and residue resulting from work of this Section.
- B. Wash exterior walls with low pressure water spray at chute locations and other areas soiled by demolition activities.

### 3.6 REMOVAL AND DISPOSAL

- A. Remove demolished materials, debris, demolition aids, equipment, unused salvage, and stockpiled items such as topsoil from site.
- B. Dispose of demolition material prior to Substantial Completion of Project.
- C. Maintain hauling routes clean and free from demolition work.

- D. Do not store, burn, or bury materials on site.
- E. Do not crush concrete materials on site

### 3.7 MAINTENANCE

- A. Maintain protective fencing, barriers, weatherproofing, security measures, and other in-place measures during and following demolition work to prevent damage to existing construction, vegetation, and finishes designated to remain.
- B. Leave structural support systems in place as required for maintenance of structural stability of structures to remain.
- C. Leave in place barriers and opening protection as necessary to reduce life safety hazards.
- D. Maintain weatherproof barriers as necessary to maintain areas of existing buildings dry during course of selective demolition and construction.
  - 1. Prevent water intrusion by providing temporary or permanent waterproofing.
  - 2. Direct water flow to exterior of building.

END OF SECTION

## PART 1 - GENERAL

### 1.1 RELATED WORK

- A. Section 01 11 01 – Summary of Work – Regulated Materials
- B. Section 02 83 00 – Lead Control Activities

### 1.2 DESCRIPTION OF WORK

- A. The Contractor shall supply all labor, materials, services, insurance, special permits and equipment necessary for the hazardous and regulated materials listed in this section.
- B. Additional information regarding regulated building materials can be found in the following report:
  - 1. Regulated Building Materials Survey Report, UW Kane Hall CAAMS, prepared by Terracon Consultants, Inc., dated April 2, 2026.
- C. The Survey report(s) included is not a legally binding part of the contract and is for informational purposes only. It is intended to communicate the presence of regulated materials and the presence, location, and quantity of asbestos-containing materials to employees, vendors, and contractors working in the project area and to help clarify details of the scope of work. The report(s) does not substitute for or replace the contract plans and specifications.
- D. Damage caused during the performance of remediation activities shall be repaired by the Contractor (including, but not limited to, paint peeled off by barrier tape, nail holes, water damage, broken glass) at no additional cost to the Owner.

### 1.3 WORK INCLUDED

- A. The Contractor shall supply all labor, equipment, notifications, services, insurance, special permits and equipment necessary for the following regulated materials:
  - 1. Asbestos-Containing Materials (Not Used)
  - 2. Lead Control Activities
    - a. The coatings on some painted surfaces were found to be lead-containing. Therefore, any painted surfaces (such as walls, door frames, etc.) are assumed to have lead-containing paint and may be impacted as part of the Work.
    - b. Contractor shall coordinate with General Contractor and Owner to identify assumed lead-containing paints that may be impacted by the work.
  - 3. Mercury-containing Equipment (Not Used)
  - 4. Mercury in P-traps (Not Used)
  - 5. Mercury in Laboratory Piping (Not Used)
  - 6. Refrigerants (Not Used)
  - 7. Polychlorinated biphenyls – Bulk (Not Used)
  - 8. Fume Hoods (Not Used)
  - 9. Biosafety Cabinets (Not Used)

10. Contaminated Ductwork: (Not Used)
11. Biological Hazards: (Not Used)
12. Silica and Fugitive Dust:
  - a. Construction work will potentially generate fugitive dust and silica. It is the responsibility of the Contractor to control the release of all fugitive dust.
  - b. Construction site work that requires control of silica and fugitive dust shall include chipping, sanding, sawing, jack hammering, drilling, and grinding concrete materials associated with this contract.
  - c. The Contractor shall comply with all UW fugitive dust requirements and the requirements of Puget Sound Clean Air Agency (PSCAA) Regulation I, Article 9, Section 9.15 Fugitive Dust Control Measures for work that generates fugitive dust.
  - d. The Contractor shall comply with all UW silica requirements and the requirements of Washington State Department of Labor and Industries regulation WAC-296-840, Silica, for work that creates potential exposure to silica.
13. Contaminated Concrete and Soil Remediation (Not Used)
14. Contaminated Groundwater Remediation: (Not Used)

## PART 2 - EQUIPMENT

- A. Duct Tape: Provide duct tape with an adhesive that is formulated to stick securely to sheet polyethylene, Nashua Brand or equivalent. Do not use polyethylene tape.
- B. Holding Carts: Provide watertight wheeled carts with doors or tops that can be closed and secured.
- C. Lumber: Provide kiln dried, fire-retardant lumber and plywood, in accordance with ASTM D245.
- D. Other Materials: Provide all other materials, such as lumber, nails, and hardware that may be required to construct work platforms, decontamination units and the barriers that isolate the Work Areas(s).
- E. Polyethylene Sheet: Provide flame-retardant polyethylene film that shall meet the requirements of current UL Ratings and NFPA Standard 701 (Standard Methods of Fire Tests for Flame Propagation of Textiles). Provide 6-mil thick, frosted or black TRM Manufacturing Brand, or equivalent, of the largest size practicable to minimize seams.
- F. Reinforced Polyethylene Sheet: Provide translucent, nylon reinforced, laminated, flame-retardant polyethylene film that conforms to requirements set forth by NFPA Standard 701. Provide 6-mil thick Permalon Brand, or equivalent, polyethylene of the largest size practicable to minimize seams.

## PART 3 - EXECUTION

### 3.1 ASBESTOS (NOT USED)

### 3.2 LEAD CONTROL ACTIVITIES (NOT USED)

- A. Refer to Specification Section 02 83 00 for work related to lead.

3.3 MERCURY (NOT USED)

3.4 POLYCHLORINATED BIPHENYL (PCB)-CONTAINING BALLASTS

3.5 POLYCHLORINATED BIPHENYL (PCB)-CONTAINING EQUIPMENT OIL (NOT USED)

3.6 REFRIGERANTS (NOT USED)

3.7 FUME HOODS (NOT USED)

3.8 BIOSAFETY CABINETS (NOT USED)

3.9 CONTAMINATED DUCTWORK (NOT USED)

3.10 BIOLOGICAL HAZARDS (NOT USED)

3.11 SILICA AND FUGITIVE DUST

- A. All Construction work will potentially generate fugitive dust. It is the responsibility of the Contractor to control the release of all fugitive dust.
- B. Construction site work that requires control of silica and fugitive dust shall include chipping, sanding, sawing, jack hammering, drilling, and grinding on concrete building materials associated with this work.
- C. Furnish all labor, materials, facilities, equipment, services, employee training and testing, and agreements necessary to perform the work required for fugitive dust and potential silica-generating construction dust control activities in accordance with the latest regulations from the State of Washington Department of Labor and Industries, Puget Sound Clean Air Agency (PSCAA) and any other applicable federal, state, and local government regulations.
- D. Competent persons, trained, knowledgeable and qualified in both fugitive and silica dust evaluation and control methods, shall perform the Work specified herein.
- E. In all cases where potential silica dust exposures may occur, the Contractor shall use any and all feasible engineering and work practice controls to reduce and maintain employee exposure below the Washington State Permissible Exposure Level. It shall be assumed that the workers generating the silica dust are exposed above the Permissible Exposure Level until Contractor air monitoring data demonstrates silica concentrations below the Permissible Exposure Level.
- F. Controls shall be implemented to contain dust generated during demolition of walls, concrete sawing, coring, chipping, etc. At no time will any visible dust from the work area be permitted beyond the "Limit of the Work Area" as stated in the contract and/or as established by the Contractor. Visible emissions will be grounds for Environmental Consultant to request permission from the Owner to evaluate if work practices should be stopped and revised. The Owner is authorized to stop work.
- G. When wet sawing or coring concrete, the water shall be cleaned up by wipes or rags and the area vacuumed prior to drying. If dust remains after the area dries, the Contractor shall use wet methods to clean residual dust.

3.12 CONTAMINATED CONCRETE AND SOIL REMEDIATION (NOT USED)

3.13 CONTAMINATED GROUNDWATER REMEDIATION (NOT USED)

**END OF SECTION**

## PART 1 - GENERAL

### 1.1 DESCRIPTION OF REQUIREMENTS

- A. Disturbance of assumed lead-containing materials is anticipated as part of the Work. This specification provides requirements for worker protection, work area preparation, and work practices.
- B. Perform all planning, administration, execution, and cleaning necessary to safely handle and impact lead-containing materials.
- C. The procedures employed by the Contractor shall not create the potential for contaminating surrounding areas or surfaces with lead. Dust generation will be kept to a minimum. Mechanical cutting, mechanical sawing, hot work and grinding on lead-containing materials will not be permitted without a full enclosure or other method that captures visible dust during the work.

### 1.2 RELATED WORK

- A. Section 01 11 01 – Summary of Work – Regulated Materials
- B. Section 02 80 00 – Facility Remediation
- C. University of Washington Lead Safety Program Manual  
(<https://www.ehs.washington.edu/resource/uw-lead-safety-program-manual-888>)

### 1.3 WORK INCLUDED

- A. In the course of Work, the Contractor shall be aware that paint coatings assumed to contain lead exist in areas included under the Work of this Contract and conduct activities to minimize dust generation and spread of contamination from lead.
- B. Additional information regarding regulated building materials can be found in the following reports:
  - 1. Regulated Building Materials Survey Report, UW Kane Hall CAAMS, prepared by Terracon Consultants, Inc., dated April 2, 2026.
- C. The report(s) included is not a legally binding part of the contract and is for informational purposes only. It is intended to communicate the presence of regulated materials and the presence, location, and quantity of asbestos-containing materials to employees, vendors, and contractors working in the project area and to help clarify details of the scope of work. The report(s) does not substitute for or replace the contract plans and specifications.
- D. The Contractor shall comply with WAC 296-155-176, Lead-in-Construction Standard, during work that may impact the lead-containing materials including, but not limited to, paint removal, replacement, demolition, torch cutting, mechanical fastening, shearing, or welding.
- E. Handling: Conduct activities involving lead-containing materials under Work of this Contract in accordance with this Section and current applicable state and federal regulations including WAC 296-841: "Airborne Contaminants"; WAC 296-155-176: "Lead in Construction"; and 29 CFR 1926.62: "Lead".
- F. Coordination: The Contractor shall coordinate with General Contractor and Owner to identify lead-containing paints that may be impacted by the work.

- G. Waste Disposal: Disposal of general construction debris. Owner will be responsible for waste designated as "dangerous" or "hazardous" according to WAC 173-303 related to lead.
- H. Construction debris that is not dangerous waste as defined by WAC 173-303 may still be contaminated by lead. Although this debris is not considered a hazardous or dangerous waste, it cannot be recycled and must be disposed of in a Subtitle D landfill.
  - 1. Exception for metal items which contain lead: Metal items which contain lead (e.g., lead shielding panels, lead flashings, vent caps, lead painted metal) may be recycled at a scrap facility that is permitted to accept and process such materials.
- I. Monitoring: Monitoring of airborne concentrations of lead in accordance with WAC 296-841, WAC 296-155-176 and this Section. The intent of this Section is to reduce and maintain employee exposure to lead and surrounding airborne concentrations at or below the permissible exposure limit.

#### 1.4 WORK NOT INCLUDED

- A. Testing for waste designation.
  - 1. The Owner or the Owner's Environmental Consultant will perform TCLP Testing as needed.
- B. Disposal of waste designated as hazardous or dangerous waste. If the waste is classified as dangerous/hazardous waste by TCLP test results, the Owner will dispose of the waste.

#### 1.5 QUALITY CRITERIA

- A. Use properly trained and experienced workers to perform activities which will disturb lead-containing materials.

#### 1.6 SUBMITTALS

- A. If lead is anticipated to be impacted by the Work, submit the following "Pre-Work Submittals" prior to start of work. The Work may not proceed until complete Pre-Work Submittal package has been reviewed by the Environmental Consultant and Owner.
  - 1. Lead Compliance Program: Submit a site-specific lead compliance program in accordance with WAC Chapter 296-155. The program shall be developed and implemented to provide engineering, work practice and administrative controls to reduce and maintain employee exposure to lead at or below the action limit and permissible exposure limit. The plan will include at a minimum, descriptions of tasks that may cause lead to become airborne; dust controls; method of compliance; technology used to meet compliance; air monitoring plan; and work practice and administrative controls implemented to reduce exposure to lead. Implementation of work practices and engineering controls not described in the Compliance Program will not be permitted until the Environmental Consultant and Owner review an amendment to the submittal.
  - 2. Certification from the Contractor that all workers participate in a medical evaluation program that complies with the requirements of the OSHA Lead Regulation 1926.62, and WAC Chapter 296-155 and are approved to perform work that has the potential for exposure to lead (this may be a signed letter by an authorized representative of the Contractor). Copies of medical evaluations are not to be submitted.
  - 3. Worker Training Program: Submit written proof indicating that all employees impacting

lead-containing materials have received training per 29 CFR 1926.62 and WAC Chapter 296-155-176. This may be a signed letter by an authorized representative of the Contractor indicating that all employees performing lead related activities have completed such a program.

4. Waste Stream Calculations: Submit a detailed breakdown of waste stream constituents and associated volumetric calculations for review by the Environmental Consultant to determine the need for additional waste stream calculation or characterization.

B. Final Submittals:

1. Air Monitoring: Submit copies of all air monitoring data (including sample data sheets), chain-of-custody documentation and calibration records related to the initial exposure assessment for workers impacting lead-containing materials.
2. Disposal: Submit completed disposal manifests and bills-of-lading for any waste recycled as lead.

## 1.7 PERSONAL AIR MONITORING

- A. Testing Laboratory: An Independent Testing Laboratory shall be retained by the Contractor for all lead metal air analysis. All exposure monitoring analysis shall be performed in accordance with 29 CFR Part 1926.62 and WAC Chapter 296-155-176. The laboratory must be accredited in the Industrial Hygiene and Environmental Lead programs through the American Industrial Hygiene Associate's (AIHA) Laboratory Accreditation Program.
- B. Air sample collection may be performed by an Industrial Hygienist or the Contractor's trained supervisor at the Contractor's option.
- C. Sample Documentation: Documentation shall be kept for each filter sample procured as to full name of worker sampled, activity, work area location, date and time taken, volume of air drawn through filter, pump identification number and calibration. Documentation shall indicate in what areas tests were taken and shall clearly indicate the specified maximum allowable levels for each area tested. Report all data. Complete laboratory chain-of-custody records.
- D. Analysis Procedures: The samples shall be collected on 37 mm filters and analyzed within 24 hours using NIOSH Analytical Method No. 7105 or 7082, or equivalent, for lead. The sample cassettes shall be clearly labeled with project name and Sample Number and shall become property of the Owner at work completion at the Owner's request.
- E. Contractor's Sampling During Lead Related Activities:
  1. Initial exposure: The Contractor shall perform Exposure monitoring during impact of representative lead-containing building components per WAC 296-155.
  2. Worker with potential for highest exposure: The Contractor shall determine which worker(s) in each work area is likely to experience the most severe exposure. This is the "Most Contaminated Worker(s)". 8-hour TWA samples shall be collected on this worker(s). Worker shall wear a personal sampling pump and the sample shall be drawn from the breathing zone of this worker.
  3. Number of samples: The number of air samples collected shall be as defined in the reviewed air monitoring plan section of the Lead Compliance Program.
- F. Work Area Monitoring
  1. Monitoring: The Owner reserves the right to monitor Contractor's performance via air, dust

wipe, and TCLP samples during activities that impact lead-containing materials, in addition to the Contractor's exposure monitoring and testing. Sampling by the Owner will not be available for use as the Contractor's Initial Exposure Assessment.

2. Quality Control
  - a. Maximum allowable airborne concentrations: Contractor shall ensure that at all times airborne concentrations of lead outside lead work areas are maintained at or below the Action Levels listed in the definitions.
  - b. Immediately upon being notified of concentrations exceeding the specified maximum allowable levels, the Contractor shall perform the following steps in the order presented, at no additional cost to the Owner: Stop lead related activities work, identify source of high lead concentrations, develop plan with Environmental Consultant and Owner to complete lead related activities in a manner to prevent visible emissions and elevated lead levels.

## 1.8 DEFINITIONS

### A. Definitions relative to lead controls/abatement:

1. Accuracy: The degree to which a measurement process determines a known amount of lead or other component in a particular reference.
2. Action Level: Shall mean employee exposure, without regard to the use of respirators, to an airborne concentration of lead of 30 micrograms per cubic meter of air (30  $\mu\text{g}/\text{m}^3$ ) calculated as an 8-hour time-weighted average (TWA).
3. Administrative Removal: The temporary removal of workers prior to their reaching blood lead levels requiring medical removal in order to provide additional protection to both workers and employers.
4. Air Monitoring: The process of measuring the concentration of lead in a specific volume of air in a stated period of time. Air samples shall be collected and analyzed in accordance with the methods specified by the National Institute for Occupational Safety and Health (NIOSH Method 7082) and as required by WAC-296-155-176.
5. Baseline: Blood lead level screening and zinc protoporphyrin levels recorded within 30 calendar days of the worker starting this work.
6. Biennial Report: A report (EPA Form 8700-13A) submitted by generators of hazardous waste to the Regional Administrator due March 1 of each even-numbered year. The report includes information on the generator's activities during the previous calendar year. The Owner or operator of a treatment, storage and disposal facility must also prepare and submit a biennial report using EPA Form 8700-1313.
7. Biological Monitoring: All workers must have baseline and post work blood lead level screening determined by whole blood lead method, utilizing Vena-Puncture technique. Samples shall be analyzed by NIOSH Method 8003 or other method acceptable to regulatory agencies having jurisdiction. Contractor shall have a physical performed on each employee. The blood tests shall consist of analysis for lead and zinc protoporphyrin levels and shall be conducted by a laboratory approved by OSHA.
8. Characteristics: EPA has identified four characteristics of hazardous waste: (a) Ignitability; (b) Corrosivity; (c) Reactivity, and (d) EP Toxicity. Any solid waste that exhibits one or more of these characteristics is classified as a hazardous waste under RCRA.
9. Child/Children: Shall mean a person under the age of six.
10. Dangerous Waste: Dangerous wastes are those solid wastes that designate as dangerous waste or extremely hazardous waste under WAC 173-303-070 through WAC 173-303-100. The term "Dangerous Wastes" includes federal Hazardous Wastes and wastes regulated only by Washington State.
11. Discharge or Hazardous Waste Discharge: The accidental or intentional spilling of hazardous waste including the leaking, pumping, pouring, emitting, discharge emptying or dumping of hazardous wastes onto any land or water.

12. DOSH: The Division of Occupational Safety and Health within the Washington State Department of Labor and Industries [www.lni.wa.gov](http://www.lni.wa.gov).
13. Eight-Hour Time Weighted Average (TWA): Airborne concentration of lead averaged over an 8-hour workday to which an employee is exposed.
14. Elevated Blood Lead (EBL): Shall mean excessive absorption of lead in the blood in concentrations defined as an elevated blood level in children by the Centers for Disease Control (CDC) of the United States Department of Health and Human Services.
15. EP Toxicity: A test, called the extraction procedure, which is designed to identify wastes likely to leach hazardous concentrations of particular toxic constituents into the ground water as a result of improper management. It is characteristic of hazardous waste. See TCLP.
16. EPA: U.S. Environmental Protection Agency, Region X [www.epa.gov](http://www.epa.gov).
17. EPA Identification: The unique number assigned by EPA to each generator or transporter of hazardous waste and each treatment, storage or disposal facility.
18. Generator: Any person who first creates a hazardous waste or a person who first makes the waste subject to the Subtitle C regulation (e.g., imports a hazardous waste, initiates a shipment of hazardous waste from a TSD or mixes hazardous waste of different DOT shipping descriptions by placing them into a single container).
19. Hazardous and Dangerous Waste: As defined in RCRA, the term "hazardous waste" means a solid waste or combination of solid wastes which, because of its quantity, concentration or physical, chemical or infectious characteristics, may:
  - a. Cause, or significantly contribute to any increase in mortality or an increase in serious irreversible or incapacitating reversible ill, or;
  - b. Pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported or disposed of or otherwise managed.
  - c. Be as described in the regulations, under one of the following four conditions:
    - 1) Exhibits a characteristic of a hazardous waste (40 CFR Sections 261.20 through 261.33).
    - 2) Has been listed as hazardous (40 CFR Section 261.31 through 261.33).
    - 3) Is a mixture containing a listed hazardous waste and a non-regulated solid waste (unless the mixture is specifically excluded or no longer exhibits any of the characteristics of hazardous waste).
    - 4) Is not excluded from regulation as a hazardous waste.
20. Heavy metal: Shall consist of the following RCRA 8 metals: arsenic, barium, cadmium, chromium, mercury, lead, selenium, or silver.
21. Lead: Metallic lead, inorganic lead compounds, and organic lead soaps. Excluded from this definition are other organic lead compounds.
22. Lead Awareness Training: Shall, at a minimum, consist of the following:
  - a. The content of the WAC Chapter 296-155 and its appendices.
  - b. The specific nature of the operations which could result in exposure to lead above the action level.
  - c. The purpose, proper selection, fitting, use, and limitations of respirators.
  - d. The purpose and a description of the medical surveillance program, and the medical removal protection program including information concerning the adverse health effects associated with excessive exposure to lead (with particular attention to the adverse reproductive effects on both males and females and hazards to the fetus and additional precautions for employees who are pregnant).
  - e. The engineering and work practices associated with the employee's job assignment including training of employees to follow relevant good work practices described in the WAC Chapter 296-155, Appendix B.
  - f. The contents of any compliance plan in effect.
  - g. Instructions to employees that chelating agents should not routinely be used to remove lead from their bodies and should not be used at all except under the direction of a licensed physician.

- h. The employee's right of access to records under the WAC Chapter 296-155, Part B.
23. Lead Dust: Shall mean dust that contains lead generated by the handling, moving, storage or deterioration of lead containing materials that contains lead or by environmental factors.
  24. Lead Permissible Exposure Limit (PEL): Fifty (50) micrograms per cubic meter of air as an 8-hour time weighted average ( $50 \mu\text{g}/\text{m}^3$ ).
  25. L&I: The Washington State Department of Labor and Industries [www.lni.wa.gov](http://www.lni.wa.gov).
  26. Listed: Hazardous wastes that have been placed on one of three lists developed by EPA: (a) Non-specific source wastes, (b) Specific source wastes, and (c) Commercial chemical products. These lists were developed by examining different types of waste and chemical products to see if they exhibit one of the four characteristics, meet the statutory definition of hazardous waste, are acutely toxic or acutely hazardous, or are otherwise toxic.
  27. Manifest: The shipping document, EPA form 8700-22, used for identifying the quantity, composition, origin, routing and destination of hazardous waste during its transportation from the point of generation to the point of treatment, storage or disposal.
  28. Medical Removal: The temporary removal of workers due to elevated blood lead levels as defined in these guidelines.
  29. OSHA: The Occupational Safety and Health Administration [www.osha.gov](http://www.osha.gov).
  30. Permit: An authorization, license or equivalent control document issued by EPA or an authorized state to implement the regulatory requirements of Subtitle C Parts 264 and 265 for TSDs.
  31. Personal Monitoring: Sampling of lead concentrations within the breathing zone of an employee to determine the 8-hour time weighted average concentration in accordance with WAC 296-155-176. Samples shall be representative of the employee's work tasks. Breathing zone shall be considered an area within a hemisphere, forward of the shoulders, with a radius of 6 to 9 inches and the center at the nose or mouth of an employee.
  32. RCRA, Resource Conservation and Recovery Act of 1976: What we commonly refer to, as RCRA is an amendment to the Solid Waste Disposal Act of 1965. RCRA was amended in 1980 and most recently on November 8, 1984.
  33. Respirator: A device designed to protect the wearer from the inhalation of harmful atmospheres.
  34. Small Quantity: A generator who produces less than 100 kg of hazardous waste per month (or accumulates less than 100 kg at any one time) or one who produces less than 1 kg of acutely hazardous waste per month (or accumulates less than 1 kg of acutely hazardous waste at any one time).
  35. Solid Waste: As defined in RCRA, the term "solid waste" means any garbage, refuse, sludge from a waste treatment plant, water supply treatment or air pollution control facility or discarded material, including solid, liquid, semisolid or contained gaseous material resulting from industrial, commercial, mining and agricultural operations and from community activities, but does not include solid or dissolved material in domestic sewage or solid or dissolved materials in irrigation return flows or industrial discharges that are point sources subject to permits under the Clean Water Act, or special nuclear or byproduct material as defined by the Atomic Energy Act of 1954.
  36. Storage: The holding of hazardous waste for a temporary period at the end of which the hazardous waste is treated, disposed of or stored elsewhere.
  37. TCLP: Toxicity Characteristic Leachate Procedure (Test Method specified in WAC 173-303 in accordance with NIOSH EPA SW 846, Method 7420 for lead).
  38. Transporter: Any persons engaged in the off-site transportation of hazardous waste within the United States by air, rail, highway or water, if such transportation requires a manifest under 40 CFR Part 262.
  39. Treatment: Any method, technique or process, including neutralization, designed to change the physical, chemical or biological character or composition of any hazardous waste so as to neutralize it or render it non-hazardous or less hazardous, or to recover it, make it safer to transport, store or dispose of, or amenable for recovery, storage or volume reduction.

40. TSD: Acronym for treatment, storage and disposal in hazardous waste facility.
41. µg, Micrograms: The prefix "micro" means 1/1,000,000 of (one millionth of). A microgram is 1/1,000,000 of a gram.
42. WSDOT: Washington State Department of Transportation [www.wsdot.gov](http://www.wsdot.gov).

## PART 2 - PRODUCTS

### 2.1 PERSONAL PROTECTIVE EQUIPMENT

- A. Provide Personal Protective Equipment, at a minimum as follows:
  1. Respiratory protection that is selected based on the requirements of WAC 296-155-176 and the activities being performed. Respirators must be used in accordance with the applicable worker protection regulations and ANSI/ASSE Z88.2-2015, American National Standard Practices for Respiratory Protection and ANSI/ASSE Z88.10, Respirator Fit Testing Methods.
  2. Gloves: impermeable rubber (or similar) gloves for workers. Dispose of gloves with waste upon leaving the demarcated area.
  3. Protective Eyewear: face shields, vented goggles and other protective eyewear as necessary for the performance of the Work.
  4. Protective clothing - Work clothes shall consist of disposable full-body coveralls, head covers, boots, rubber gloves or equivalent. Sleeves at wrists and cuffs at ankles shall be secured.
  5. Hard hats suitable for respirator wear.

### 2.2 MATERIALS

- A. Polyethylene Sheet: Provide flame-retardant polyethylene film that shall meet the requirements of current UL Ratings and NFPA Standard 701 (Standard Methods of Fire Tests for Flame Propagation of Textiles). Provide 6-mil thick, frosted or black TRM Manufacturing Brand, or equivalent, of the largest size practicable to minimize seams.
- B. Reinforced Polyethylene Sheet: Provide translucent, nylon reinforced, laminated, flame-retardant polyethylene film that conforms to requirements set forth by NFPA Standard 701. Provide 6-mil thick Permalon Brand, or equivalent, of the largest size practicable to minimize seams.
- C. Duct Tape: Provide duct tape with an adhesive that is formulated to stick securely to sheet polyethylene, Nashua Brand or equivalent. Do not use polyethylene tape.
- D. Provide 20-inch by 14-inch warning signs surrounding the Work Area, reading as follows for lead:

DANGER  
LEAD WORK AREA  
MAY DAMAGE FERTILITY OR THE UNBORN CHILD  
CAUSES DAMAGE TO THE CENTRAL NERVOUS SYSTEM  
DO NOT EAT, DRINK OR SMOKE IN THIS AREA

## PART 3 - EXECUTION

### 3.1 SEQUENCE OF WORK

- A. Carry out Work of this part sequentially. Complete each activity before proceeding to the next.

### 3.2 GENERAL

- A. Place all tools, staging, etc. necessary in the Work Area.
- B. Establish washdown station (also referred to as the hygiene station) for workers at the designated central entrance to the work area. Wastewater shall be filtered to 5.0 microns prior to discharge into Owner provided waste drums.
- C. Establish a change area for workers at the designated central entrance to the work area.
- D. Demarcate area as needed with warning signs.
- E. Install a drop cloth using 6-mil fire retardant polyethylene sheeting.
- F. If using any power tools, they shall be equipped with integrated HEPA dust collection systems.

### 3.3 PROHIBITED ACTIVITIES

- A. Shoveling, dry or wet sweeping, and brushing may be used only where vacuuming or other equally effective methods have been tried and found not to be effective.
- B. Where vacuuming methods are selected, the vacuums must be equipped with HEPA filters and used and emptied in a manner which minimizes the reentry of lead into the workplace.
- C. Compressed air may not be used to remove lead from any surface unless the compressed air is used in conjunction with a ventilation system designed to capture the airborne dust created by the compressed air.

### 3.4 LEAD-CONTAINING MATERIAL REMOVAL

- A. Remove and properly dispose of all lead-containing materials as indicated in the Work in accordance with federal, state, and local regulations or as more stringently specified herein.
- B. Prepare Work Area as previously specified.
- C. Housekeeping: Maintain all surfaces as free as practicable of accumulations of lead and perform clean-up of work areas as necessary according to WAC 296-155-17617.
- D. Work Practices:
  - 1. Workers shall don appropriate protective gear.
  - 2. Perform work impacting lead-containing paints in accordance with approved work plan.
  - 3. Use procedures and equipment required to limit occupational and environmental exposure to lead when lead-containing material are impacted. The procedures employed by the Contractor shall not create the potential for contaminating surrounding areas or materials with lead-containing dust. Dust generation shall be minimized at all times by employing wet methods.
  - 4. At completion of the above operations, HEPA vacuum to remove any paint particles or debris. Wet-wipe to remove all dust.
  - 5. Upon establishing negative exposure assessment, lead signs do not have to be posted and personal protective gear may be downgraded.
  - 6. Visible emissions will be grounds for Environmental Consultant to request permission from

the Owner to evaluate if work practices should be stopped and revised. The Owner is authorized to stop work. Visible emissions include airborne particulate and visible settled dust outside of the demarcated area.

### 3.5 SEPARATION OF WASTE MATERIAL INTO WASTE STREAMS

- A. All unsalvageable contaminated materials shall be packaged in accordance with this section.
- B. Waste materials shall be separated into separate waste streams according to the following:
  - 1. Lead-contaminated items or materials (e.g. dust, HEPA-vacuum filters, polyethylene sheeting, disposable suits, HEPA respirator cartridges, used rags, and waste bags) shall be placed in a disposal drum in accordance with this section.
  - 2. Wastewater from personnel decontamination and cleaning process shall be placed into a disposal drum according to this section. This water shall be filtered to remove lead dust and debris and then stored in drums for testing.
- C. The Owner or the Environmental Consultant shall collect representative samples from each waste stream and submit these samples for TCLP testing.

### 3.6 HAZARDOUS WASTE TEMPORARY STORAGE

- A. Provide securable area pre-approved by Owner and Environmental Consultant for the temporary storage of all solid, hazardous, or contaminated wastes and wastewater generated during the performance of the Work.
- B. The purpose of this temporary storage is to allow the Contractor to accumulate enough drums of waste so that the Waste Hauler may pick up full loads of waste from the site.
- C. Employ spill protection materials to protect against spillage or leaks in temporary storage area. Drains in project area shall be covered.
- D. Contractor shall use precautions necessary to minimize the generation of hazardous, or contaminated waste (including wastewater).
- E. Place all hazardous and potentially hazardous waste in polyethylene bags then into drums lined with polyethylene bags.
- F. Do not store wastes that could react to cause fire, leaks or other releases in same container.
- G. Each drum shall be clearly labeled as to its exact contents, including the date when the drum was sealed and the University of Washington project number.
- H. Store all solid and hazardous waste with drum lids on wooden pallets at site until disposal provisions have been determined. Use drum lid covers on all drums to prevent accumulation of water on top of drums. Contractor shall place temporary fencing around stored drums.
- I. Store all solid, hazardous, and liquid waste in full compliance with federal, state, and local requirements and do not allow hazardous waste generated by a Project to be stored at the site for more than 90 days.
- J. Inspect containers for leaks or corrosion every week and keep written records of inspections on site in accordance with WAC 173-303-320.

### 3.7 WASTE DISPOSAL

- A. If the waste is classified as dangerous/hazardous waste by TCLP test results, the Owner will dispose of the waste.
- B. Contractor shall label the waste for the Owner with owner supplied labels as follows:
  - 1. Package and label all waste for transport in accordance with the United States DOT regulations on packaging.
  - 2. In addition to the requirements set forth in United States DOT 49 CFR 172.304, mark each package containing dangerous/hazardous waste with the following, words and information:

"HAZARDOUS WASTE - State and federal law prohibits improper disposal. If found, contact the nearest police or public safety authority, and the Washington State Department of Ecology or the United States Environmental Protection Agency.

Generator's Name and Address

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Manifest Document Number

\_\_\_\_\_ "

- 3. The Contractor shall placard or offer to the Owner all appropriate placards in accordance with United States DOT regulations, 49 CFR Part 172, Subpart F.
- C. Waste materials that are not classified as hazardous waste or dangerous waste, as specified by federal, state, and local regulations, shall be disposed as general construction debris by the Contractor at an Owner-audited and approved disposal facility. Approved facilities can be viewed online at <https://www.ehs.washington.edu/system/files/resources/disposalfacilst.pdf>.
- D. NOTE: Construction debris that is not dangerous waste as defined by WAC 173-303 may still be contaminated by lead. Although this debris is not considered a hazardous or dangerous waste, it **cannot be recycled** and must be disposed of in a Subtitle D landfill.
  - 1. Exception for metal items which contain lead: Metal items which contain lead (e.g., lead shielding panels, lead flashings, vent caps, lead painted metal) may be recycled at a scrap facility that is permitted to accept and process such materials.

### 3.8 FIELD QUALITY CONTROL

- A. Environmental Consultant may conduct air monitoring throughout the removal and cleaning operations, as needed.
- B. Environmental Consultant may conduct air monitoring as follows:
  - 1. Work Area air samples for lead, as necessary.
  - 2. Outside Work Area ambient monitoring for lead, as necessary.
- C. Debris Testing: A representative sample from debris shall be collected for TCLP testing by the Owner or the Environmental Consultant. The method/location of disposal will be established by

test results. The Owner shall make all determinations regarding waste classification(s).

- D. **Water Testing:** The Owner or Environmental Consultant will conduct any necessary water testing required to make disposal determinations. Any discharge to the Sanitary Sewer system must be reviewed and approved by the Owner.
- E. **Dust Sampling:** If visible fugitive dust is observed escaping the project boundaries, the Owner or Environmental Consultant reserve the right to collect dust-wipe samples. Samples will be collected in general accordance with ASTM E1728/E1728M-20, Standard Practice for Collection of Settled Dust Samples Using Wipe Sampling Methods for Subsequent Lead Determination or equivalent. If the dust-samples contain lead concentrations at or above 10 micrograms per square foot ( $10 \mu\text{g}/\text{ft}^2$ ), the Contractor will be required to clean the contaminated surfaces until follow-up lead dust-wipe samples confirm that the concentration of lead on the cleaned surfaces is below  $10\mu\text{g}/\text{ft}^2$ .

**END OF SECTION**