Targeted Regulated Building Materials Assessment Report

Discovery Hall - Rooms 150 and 152
Stem4 Backfill Tenant Improvement Project (207478)
University of Washington - Bothell Campus
Bothell, Washington
Table of Contents

Executive Summary .................................................................................................................................................. 1
1.0 INTRODUCTION ............................................................................................................................................. 1-1
1.1 Project Background ........................................................................................................................................ 1-1
1.2 Sources of Information ................................................................................................................................ 1-1
1.3 Project Description ........................................................................................................................................ 1-1
2.0 ASBESTOS ASSESSMENT ................................................................................................................................. 2-2
2.1 Building Assessment ...................................................................................................................................... 2-2
2.2 Sampling Procedures .................................................................................................................................. 2-2
2.3 Analytical Methodology ............................................................................................................................... 2-2
2.4 Asbestos Sampling Results .......................................................................................................................... 2-2
3.0 LEAD ASSESSMENT ...................................................................................................................................... 3-4
3.1 Sampling Methodology ............................................................................................................................... 3-4
3.2 Lead Sampling Results ................................................................................................................................. 3-4
4.0 CONCLUSIONS AND RECOMMENDATIONS ............................................................................................... 4-4
4.1 Asbestos ...................................................................................................................................................... 4-4
4.2 Lead ............................................................................................................................................................. 4-5
LIMITING CONDITIONS ........................................................................................................................................ 4-6
4.3 Limitations of the Assessment ...................................................................................................................... 4-6

List of Appendices

Appendix A. Figure
Appendix B. Photographs
Appendix C. Asbestos Analytical Results
Appendix D. Lead Analytical Results
Appendix E. Personnel and Laboratory Accreditations
Project Title: Targeted Regulated Building Materials Assessment Report

Stem 4 Backfill Tenant Improvement Project (207478)
Discovery Hall - Rooms 150 and 152
University of Washington - Bothell Campus
Bothell, Washington 98001

Prepared for:
Mr. Harry Fuller
Project Manager
University of Washington
Capital Planning and Development Office
Seattle, Washington 98195-2205

Assessment Conducted by:
AE COM Technical Services, Inc.
1111 3rd Avenue, Suite 1600
Seattle, Washington 98101-3241

AE COM Project Number: 60657981

Assessment Personnel:
Mr. Mike Kosoff
AHERA-Accredited Building Inspector
Number 178882 (exp. 9/9/2021)

Assessment Date: May 14, 2021

Report Prepared by: Mike Kosoff
Environmental Scientist
AE COM Technical Services, Inc.

Report Reviewed by: Aaron Heath
Project Manager
AE COM Technical Services, Inc.

Report Issue Date: May 20, 2021
EXECUTIVE SUMMARY

The University of Washington retained AECOM Technical Services, Inc. (AECOM), to conduct a targeted regulated building materials (RBM) assessment of the materials anticipated to be impacted by the Stem4 Backfill Tenant Improvement Project. The project consists of an interior remodel to combine two existing spaces, Rooms #150 and #152 (the Project Area), to create one new collaborative workspace in Discovery Hall located at University of Washington - Bothell Campus in Bothell, Washington. AECOM’s representative, Mr. Mike Kosoff, conducted the assessment on May 14, 2021. This assessment included the building materials anticipated to be impacted by renovations and excluded all other areas of the buildings and campus.

AECOM assessed the Project Area for the following:

− Asbestos-containing materials (ACM);
− Assumed asbestos-containing materials;
− Lead-containing coatings (paints);
− Mercury-containing light tubes, switches, and thermostats; and
− Suspected PCB-containing sources.

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

Three paint chip samples were collected and analyzed for total lead content. None of the paint chip samples were found to contain detectable levels of lead.

All of the light fixtures assessed in the Project Area contain LED bulbs with electronic ballasts. No mercury-containing fluorescent light tubes or PCB-containing ballasts were identified in the Project Area.
1.0 INTRODUCTION

The University of Washington retained AECOM Technical Services, Inc. (AECOM), to conduct a targeted regulated building materials (RBM) assessment of the materials anticipated to be impacted by the Stem4 Backfill Tenant Improvement Project. The project consists of an interior remodel to combine two existing spaces, Rooms #150 and #152 (the Project Area), to create one new collaborative workspace in Discovery Hall located at University of Washington - Bothell Campus in Bothell, Washington. AECOM’s representative, Mr. Mike Kosoff, conducted the assessment on May 14, 2021. This assessment included the building materials anticipated to be impacted by renovations and excluded all other areas of the buildings and campus.

AECOM assessed the Project Area for the following:

- Asbestos-containing materials (ACM);
- Assumed asbestos-containing materials;
- Lead-containing coatings (paints);
- Mercury-containing light tubes, switches, and thermostats; and
- Suspected PCB-containing sources.

1.1 Project Background

This report presents the results of our targeted regulated building materials assessment conducted of the Project Area located at University of Washington - Bothell Campus in Bothell, Washington. Other suspect building materials outside of the Project Area were excluded from the scope of the assessment. AECOM’s assessment included the materials anticipated to be impacted by the project based on communication from the client and drawings provided by Mr. Harry Fuller.

The purpose of the assessment was to provide information to assist University of Washington with communicating the presence of lead-containing coatings, PCB-containing sources, mercury-containing sources, and presence, location, and quantity of ACMs 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 US Occupational Safety and Health (OSHA) regulations and a good faith inspection as required by the Washington State Department of Labor and Industries’ Division of Occupational Safety and Health (DOSH) prior to renovation.

1.2 Sources of Information

During the course of the assessment, the following personnel and documents provided assistance to the AECOM inspector:

- Mr. Harry Fuller, Project Manager, University of Washington
- Mr. John Egdorf, Project Manager, University of Washington
- UW Bothell Stem4 Backfill Tenant Improvement – Review Set Drawings, prepared by Magellan, dated March 9, 2021

1.3 Project Description

The Project Area consists of Rooms #150, 150A, #150B, and #152 and is approximately 2,152 square feet. Flooring consists of glued-down carpeting. Walls consist of gypsum wallboard and concrete. Ceilings consist of gypsum wallboard and suspended ceiling tiles. Observed pipe insulation consists of paper and foil-wrapped fiberglass insulation with plastic-wrapped fiberglass fittings and hard block insulation at metal piping saddles. Observed HVAC insulation consists of foil and paper-wrapped fiberglass insulation.
2.0 ASBESTOS ASSESSMENT

2.1 Building Assessment
Mr. Kosoff, an Asbestos Hazard Emergency Response Act (AHERA)-accredited building inspector, (Certification 178882, expiration date: 9/9/2021), from AECOM, performed the sampling on May 14, 2021. The AECOM inspector collected 25 samples of materials identified as suspect ACM.

This assessment 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 was followed.

2.2 Sampling Procedures
This 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 and tightly seal it.
7) Wipe the exterior of the container with a wet wipe to remove any 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.

2.3 Analytical Methodology
Suspect ACMs were sampled in general accordance with 40 CFR 763.86 by an Environmental Protection Agency (EPA) AHERA-accredited building inspector. Each sample was collected and stored in a heavy-duty, self-sealing plastic bag, and delivered to NVL Laboratories in Seattle, Washington. Samples were analyzed via polarized light microscopy (PLM) in accordance with EPA/600/R-93/116. NVL Laboratories is accredited to perform PLM analysis by the National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program (NVLAP).

2.4 Asbestos Sampling Results
Table 2.4-1 provides a list of suspect homogeneous sampling area (HSA) material descriptions, material locations, and results for this sampling. ACMs are presented in bold. Refer to the attached Figure in Appendix A for sample locations and Photographs in Appendix B for additional material information.
### Table 2.4-1. Results of Bulk Sample Analyses

<table>
<thead>
<tr>
<th>HSA ID, Material Description, and AHERA Classification</th>
<th>Material Location</th>
<th>HSA Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: 24”x24” dark blue/blue carpet squares with tan rubber backing (M)</td>
<td>Flooring throughout Room 152</td>
<td>Visually assessed and determined to be non-suspect</td>
</tr>
<tr>
<td>2: Yellow/gray mastic (M)</td>
<td>Associated with HSA 1</td>
<td>ND</td>
</tr>
<tr>
<td>3: Foil and paper-wrapped yellow fiberglass insulation (T)</td>
<td>On HVAC ducting in places of Project Area</td>
<td>Visually assessed and determined to be non-suspect</td>
</tr>
<tr>
<td>4: Red fire stop sealant with debris (M)</td>
<td>At wall penetrations and ends of conduit throughout the Project Area</td>
<td>ND</td>
</tr>
<tr>
<td>5: Light gray sealant with debris (M)</td>
<td>At seams of HVAC ducting</td>
<td>ND</td>
</tr>
<tr>
<td>6: Paper and foil-wrapped yellow fiberglass pipe insulation with plastic-wrapped fiberglass fittings (T)</td>
<td>Observed 2” to 4” OD piping throughout the Project Area</td>
<td>Visually assessed and determined to be non-suspect</td>
</tr>
<tr>
<td>7: White flaky hard block insulation, residual yellow fiberglass insulation, and paper with white fibrous mesh, clear adhesive, and silver foil (T)</td>
<td>At metal piping saddles of HSA 6</td>
<td>Hard block insulation: ND fiberglass: ND Paper with mesh, adhesive, and foil: ND</td>
</tr>
<tr>
<td>8: White joint compound with paint and white gypsum with paper (M)</td>
<td>Predominant walls throughout the Project Area</td>
<td>Joint compound: ND Gypsum: ND</td>
</tr>
<tr>
<td>9: 2’x4’ white fibrous ceiling tiles (M)</td>
<td>Suspended ceilings throughout the Project Area</td>
<td>ND</td>
</tr>
<tr>
<td>10: White sealant with paint and trace yellow foam (M)</td>
<td>At edges of perimeter walls</td>
<td>ND</td>
</tr>
<tr>
<td>11: Gray/black/beige fibrous carpet with gray foam backing and clear adhesive (M)</td>
<td>Flooring in Rooms 150, 150A, and 150B</td>
<td>ND</td>
</tr>
<tr>
<td>12: 4” gray rubber cove base, yellow mastic, and trace white joint compound with paper and paint (M)</td>
<td>At base of predominant walls throughout the Project Area</td>
<td>Cove base: ND Mastic: ND Joint compound: ND</td>
</tr>
<tr>
<td>13: Gray fibrous canvas wrap with yellow mastic and yellow fiberglass (M)</td>
<td>Acoustic wall panels on north side of Rooms 150A and 150B</td>
<td>ND</td>
</tr>
</tbody>
</table>

ND: none detected, HSA: material that is uniform in color, texture, general appearance, and construction and application date, M: Miscellaneous material per AHERA; T: Thermal system insulation per AHERA; OD: Outer diameter

Additional suspect ACMs may be present in inaccessible or concealed spaces. These spaces include, but are not limited to, areas not assessed, areas not accessible at the time of the assessment, fire doors, 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, AECOM recommends that a thorough assessment 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.

If the analytical results indicate that all the samples collected per HSA do not contain asbestos, then the HSA (material) is considered a non-ACM. If the analytical results of one or more of the samples collected per HSA indicate that asbestos is present, then the HSA (material) is considered an ACM.
present in quantities of greater than one percent asbestos as defined by the EPA, all of the HSA (material) is considered to be
an ACM regardless of any other analytical results.

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
assessment 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.

3.0 LEAD ASSESSMENT

3.1 Sampling Methodology
Homogeneous painted surfaces were defined by substrate, application, and color. The paint chip sample was collected to the
substrate to ensure that all layers present on the substrate were included in the laboratory analysis. The samples were
collected and stored in a heavy-duty, self-sealing plastic bag and delivered to NVL Laboratories in Seattle, Washington. The
samples were analyzed via Atomic Absorption Spectrophotometry in accordance with Method EPA 7000B. NVL Laboratories
in Seattle, Washington is accredited by American Industrial Hygiene Association (AIHA) for lead analysis.

3.2 Lead Sampling Results
Three paint chip samples were collected and analyzed. None of the samples were found to contain reportable levels of lead.
The result of the analysis is presented in Table 3.2-1.

Table 3.2-1. Paint Chip Sample Result

<table>
<thead>
<tr>
<th>Sample Number and Description</th>
<th>Paint Location</th>
<th>Sample Result in parts per million (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pb1: White paint on gypsum</td>
<td>Interior predominant walls throughout the Project Area</td>
<td>&lt;49</td>
</tr>
<tr>
<td>Pb2: Blue paint on gypsum</td>
<td>Interior accent walls in Room 150</td>
<td>&lt;50</td>
</tr>
<tr>
<td>Pb3: Gray paint on metal</td>
<td>Interior doors and frames in Rooms 150A and 150B</td>
<td>&lt;54</td>
</tr>
</tbody>
</table>

< below laboratory reportable level

4.0 CONCLUSIONS AND RECOMMENDATIONS

On May 14, 2021, AECOM conducted a targeted regulated building materials assessment of suspect regulated building
materials associated with the Stem4 Backfill Tenant Improvement Project at Discovery Hall - Rooms 150 and 152 located at
University of Washington - Bothell Campus in Bothell, Washington.

4.1 Asbestos

No asbestos-containing materials (ACM) were identified during AECOM’s sampling of the Project Area. During demolition or
renovation activities, inaccessible materials may be uncovered which were not identified or sampled during this assessment.
Personnel in charge of demolition should be alerted to note materials uncovered during these activities which were not identified
in this report. The following are AECOM’s recommendations:

The results of this sampling should be communicated to any Contractors working in the Project Area and a copy of the
assessment report must be on-site during renovation activities.

Any concealed building materials discovered during demolition activities, which are suspected to contain asbestos, should be sampled by an AHERA-accredited building inspector and analyzed by a NVLAP-accredited laboratory to confirm the presence of asbestos prior to the disturbing such materials.

4.2 Lead

Three paint chip samples were collected and analyzed for total lead content. None of the samples were found to contain reportable levels of lead. If lead-containing paint is impacted, 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 (µg/m³) or the Permissible Exposure Limit of 50 µg/m³. The worker protection requirements of WAC 296-155 "Lead in Construction" and 29 CFR 1926.62 Lead may apply.
LIMITING CONDITIONS

AECOM’s assessment was limited to observation and minimal destructive sampling and analysis of potentially regulated building materials in accessible portions of the Project Area. However, common construction techniques render portions of any building inaccessible. As a result, additional asbestos-containing building materials or lead-containing coatings may be present in inaccessible areas (i.e., between walls, ceiling spaces enclosed by wallboard, interior of fire doors, etc.) of the Project Area that were not observed during the assessment. Inaccessible areas should be assumed to contain asbestos until extensive destructive sampling is performed in those areas.

4.3 Limitations of the Assessment

The conclusions of this report are AECOM’s professional opinions, based solely upon visual site observations and interpretations of laboratory analyses, as described in this report. The opinions presented herein apply to the site conditions existing at the time of AECOM’s assessment and interpretation of current regulations pertaining to asbestos, lead-containing paint, mercury-containing sources, and PCB-containing sources. Therefore, AECOM’s opinions and recommendations may not apply to future conditions that may exist at the site which we have not had the opportunity to evaluate. All applicable state, federal, and local regulations should always be verified prior to any work that will disturb materials containing asbestos.

AECOM 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.

Suspect regulated building materials located at Discovery Hall - Rooms 150 and 152 that are outside the Project Area and/or are not included in this regulated building materials assessment are assumed to be asbestos-containing unless they are sampled by an AHERA-accredited asbestos building inspector and analyzed by a NVLAP-accredited laboratory to confirm the presence of asbestos prior to the disturbing of such materials.

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 for specific application to the WRS Stem4 Backfill Tenant Improvement Project Project. This assessment is not intended to replace construction or demolition plans, specifications, or bidding documents. This report is not meant to represent a legal opinion.

Prepared by: Mike Kosoff
Environmental Scientist
AECOM Technical Services, Inc.

Reviewed by: Aaron Heath
Project Manager
AECOM Technical Services, Inc.
Figure
Discovery Hall
Rooms 150, 150A, 150B, and 152
Approximate Asbestos and Lead Sample Locations

Legend
DH-HSA#-## = Asbestos sample location
DH-Pb#-##= Lead sample location

Project Area

Job Number: 60657981  Not to scale
Appendix B. Photographs
HSA 1. 24”x24” dark blue/blue carpet squares with tan rubber backing (M)

HSA 2. Yellow/gray mastic (M)
HSA 3. Foil and paper-wrapped yellow fiberglass insulation (T)

HSA 4. Red fire stop sealant with debris (M)
HSA 5. Light gray sealant with debris (M)

HSA 6. Paper and foil-wrapped yellow fiberglass pipe insulation with plastic-wrapped fiberglass fittings (T)
HSA 7. White flaky hard block insulation, residual yellow fiberglass insulation, and paper with white fibrous mesh, clear adhesive, and silver foil (T)

HSA 8. White joint compound with paint and white gypsum with paper (M)
HSA 9. 2’x4’ white fibrous ceiling tiles (M)

HSA 10. White sealant with paint and trace yellow foam (M)
HSA 11. Gray/black/beige fibrous carpet with gray foam backing and clear adhesive (M)

HSA 12. 4” gray rubber cove base, yellow mastic, and trace white joint compound with paper and paint (M)
HSA 13. Gray fibrous canvas wrap with yellow mastic and yellow fiberglass (M)
Appendix C. Asbestos Analytical Results
Dear Mr. Heath,

Enclosed please find test results for the 25 sample(s) submitted to our laboratory for analysis on 5/13/2021.

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,

Matt Macfarlane, Asbestos Lab Supervisor

Enc.: Sample Results
# Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

<table>
<thead>
<tr>
<th>Lab ID: 21059473</th>
<th>Client Sample #: DH-2-01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location: Discover 150/152</td>
<td></td>
</tr>
<tr>
<td>Layer 1 of 1 Description: Yellow/grey soft mastic</td>
<td></td>
</tr>
<tr>
<td>Non-Fibrous Materials: Mastic/Binder, Fine particles</td>
<td></td>
</tr>
<tr>
<td>Other Fibrous Materials: None Detected</td>
<td></td>
</tr>
<tr>
<td>Asbestos Type: None Detected</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lab ID: 21059474</th>
<th>Client Sample #: DH-2-02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location: Discover 150/152</td>
<td></td>
</tr>
<tr>
<td>Layer 1 of 1 Description: Yellow soft mastic</td>
<td></td>
</tr>
<tr>
<td>Non-Fibrous Materials: Mastic/Binder, Fine particles</td>
<td></td>
</tr>
<tr>
<td>Other Fibrous Materials: None Detected</td>
<td></td>
</tr>
<tr>
<td>Asbestos Type: None Detected</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lab ID: 21059475</th>
<th>Client Sample #: DH-4-01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location: Discover 150/152</td>
<td></td>
</tr>
<tr>
<td>Layer 1 of 1 Description: Red soft fibrous material</td>
<td></td>
</tr>
<tr>
<td>Non-Fibrous Materials: Binder/Filler, Fine grains, Fine particles</td>
<td></td>
</tr>
<tr>
<td>Other Fibrous Materials: Glass fibers 16%</td>
<td></td>
</tr>
<tr>
<td>Asbestos Type: None Detected</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lab ID: 21059476</th>
<th>Client Sample #: DH-4-02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location: Discover 150/152</td>
<td></td>
</tr>
<tr>
<td>Layer 1 of 1 Description: Red soft fibrous material with debris</td>
<td></td>
</tr>
<tr>
<td>Non-Fibrous Materials: Binder/Filler, Fine grains, Fine particles</td>
<td></td>
</tr>
<tr>
<td>Other Fibrous Materials: Glass fibers 18%</td>
<td></td>
</tr>
<tr>
<td>Asbestos Type: None Detected</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lab ID: 21059477</th>
<th>Client Sample #: DH-5-01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location: Discover 150/152</td>
<td></td>
</tr>
</tbody>
</table>

Sampled by: Client
Analyzed by: Akane Yoshikawa
Reviewed by: Matt Macfarlane, Asbestos Lab Supervisor

Date: 05/17/2021

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 600/M4-82-020 Methods 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:** AECOM-Seattle  
**Address:** 1111 3rd Avenue Ste. 1600  
Seattle, WA 98101

**Attention:** Mr. Aaron Heath  
**Project Location:** Discover 150/152

**Client Project #:** 60657981  
**Batch #:** 2108726.00

Date Received: 5/13/2021  
Samples Received: 25  
Samples Analyzed: 25  
Method: EPA/600/R-93/116

---

### Layer 1 of 1

**Description:** Gray soft material with debris

- **Non-Fibrous Materials:**  
  - Binder/Filler, Fine particles, Debris

- **Other Fibrous Materials:** None Detected  
  - Asbestos Type: ND

**Lab ID:** 21059478  
**Client Sample #:** DH-7-01

**Location:** Discover 150/152

---

### Layer 1 of 1

**Description:** White flaky material

- **Non-Fibrous Materials:**  
  - Binder/Filler, Fine particles

- **Other Fibrous Materials:**  
  - Cellulose 11%
  - Glass fibers 3%

**Lab ID:** 21059479  
**Client Sample #:** DH-7-02

**Location:** Discover 150/152

---

### Layer 1 of 3

**Description:** White flaky material

- **Non-Fibrous Materials:**  
  - Binder/Filler, Fine particles

**Lab ID:** 21059480  
**Client Sample #:** DH-7-03

**Location:** Discover 150/152

---

### Layer 2 of 3

**Description:** White fibrous mesh with paper, clear adhesive, and silver foil

- **Non-Fibrous Materials:**  
  - Binder/Filler, Fine particles, Adhesive/Binder
  - Metal foil

- **Other Fibrous Materials:**  
  - Cellulose 18%
  - Glass fibers 12%

---

**Sampled by:** Client  
**Analyzed by:** Akane Yoshikawa  
**Reviewed by:** Matt Macfarlane

**Date:** 05/17/2021  
**Date:** 05/17/2021

---

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 600/M4-82-020 Methods 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

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ASB-02  
**page 3 of 14**
## Bulk Asbestos Fibers Analysis

**By Polarized Light Microscopy**

**Client:** AECOM-Seattle  
**Address:** 1111 3rd Avenue Ste. 1600  
Seattle, WA 98101

**Attention:** Mr. Aaron Heath  
**Project Location:** Discover 150/152

---

**Batch #: 2108726.00**  
**Client Project #: 60657981**  
**Date Received:** 5/13/2021  
**Samples Received:** 25  
**Samples Analyzed:** 25  
**Method:** EPA/600/R-93/116

---

### Layer 3 of 3

**Description:** Yellow fibrous material

<table>
<thead>
<tr>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials: %</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binder/Filler</td>
<td>Glass fibers 92%</td>
<td>None Detected ND</td>
</tr>
</tbody>
</table>

### Lab ID: 21059481  
**Client Sample #:** DH-8-01  
**Location:** Discover 150/152

#### Layer 1 of 2

**Description:** Thin white compacted powdery material with paint

<table>
<thead>
<tr>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials: %</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binder/Filler, Fine grains, Fine particles</td>
<td>Cellulose 3%</td>
<td>None Detected ND</td>
</tr>
<tr>
<td>Paint</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Layer 2 of 2

**Description:** White chalky material with paper

<table>
<thead>
<tr>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials: %</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gypsum/Binder, Fine grains, Calcareous particles</td>
<td>Cellulose 17%</td>
<td>None Detected ND</td>
</tr>
<tr>
<td>Paint</td>
<td>Glass fibers 4%</td>
<td></td>
</tr>
</tbody>
</table>

### Lab ID: 21059482  
**Client Sample #:** DH-8-02  
**Location:** Discover 150/152

#### Layer 1 of 1

**Description:** White chalky material with paper and paint

<table>
<thead>
<tr>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials: %</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gypsum/Binder, Fine grains, Calcareous particles</td>
<td>Cellulose 15%</td>
<td>None Detected ND</td>
</tr>
<tr>
<td>Paint</td>
<td>Glass fibers 8%</td>
<td></td>
</tr>
</tbody>
</table>

### Lab ID: 21059483  
**Client Sample #:** DH-8-03  
**Location:** Discover 150/152

#### Layer 1 of 2

**Description:** White compacted powdery material with paint

<table>
<thead>
<tr>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials: %</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binder/Filler, Fine grains, Fine particles</td>
<td>None Detected ND</td>
<td>None Detected ND</td>
</tr>
</tbody>
</table>

---

**Sampled by:** Client  
**Analyzed by:** Akane Yoshikawa  
**Reviewed by:** Matt Macfarlane  
**Date:** 05/17/2021

---

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 600/M4-82-020 Methods 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.

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**ASB-02**

---

**page 4 of 14**
Bulk Asbestos Fibers Analysis
By Polarized Light Microscopy

Client: AECOM-Seattle
Address: 1111 3rd Avenue Ste. 1600
Seattle, WA 98101

Attention: Mr. Aaron Heath
Project Location: Discover 150/152

Client Project #: 60657981
Samples Received: 25
Samples Analyzed: 25
Method: EPA/600/R-93/116

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 600/M4-82-020 Methods 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

Paint
Layer 2 of 2 Description: White chalky material with paper

Non-Fibrous Materials: Other Fibrous Materials:%
Gypsum/Binder, Fine grains, Calcareous particles Cellulose 14%
Glass fibers 3%

Asbestos Type: %
None Detected ND

Lab ID: 21059484 Client Sample #: DH-8-04
Location: Discover 150/152
Layer 1 of 2 Description: White compacted powdery material with paint

Non-Fibrous Materials: Other Fibrous Materials:%
Binder/Filler, Fine grains, Fine particles None Detected ND

Paint

Layer 2 of 2 Description: White chalky material with paper

Non-Fibrous Materials: Other Fibrous Materials:%
Gypsum/Binder, Fine grains, Calcareous particles Cellulose 16%
Glass fibers 4%

Asbestos Type: %
None Detected ND

Lab ID: 21059485 Client Sample #: DH-8-05
Location: Discover 150/152
Layer 1 of 2 Description: White compacted powdery material with paint

Non-Fibrous Materials: Other Fibrous Materials:%
Binder/Filler, Fine grains, Fine particles Cellulose <1%

Paint

Layer 2 of 2 Description: White chalky material with paper

Non-Fibrous Materials: Other Fibrous Materials:%
Gypsum/Binder, Fine grains, Calcareous particles Cellulose 13%

Asbestos Type: %
None Detected ND

Sampled by: Client
Analyzed by: Akane Yoshikawa Date: 05/17/2021
Reviewed by: Matt Macfarlane Date: 05/17/2021

Matt Macfarlane, Asbestos Lab Supervisor

ASB-02 page 5 of 14
# Bulk Asbestos Fibers Analysis

**By Polarized Light Microscopy**

**Client:** AECOM-Seattle  
**Address:** 1111 3rd Avenue Ste. 1600  
Seattle, WA 98101  

**Attention:** Mr. Aaron Heath  
**Project Location:** Discover 150/152

---

**Batch #: 2108726.00**  
**Client Project #: 60657981**  
**Date Received:** 5/13/2021  
**Samples Received:** 25  
**Samples Analyzed:** 25  
**Method:** EPA/600/R-93/116

---

## Lab ID: 21059486  
**Client Sample #:** DH-9-01

**Location:** Discover 150/152  
**Layer 1 of 1**  
**Description:** Off-white fibrous material with paint  
**Non-Fibrous Materials:**  
- Binder/Filler, Fine particles, Glass beads  
- Paint  
**Other Fibrous Materials:**  
- Glass fibers 58%  
**Asbestos Type:** None Detected ND

---

## Lab ID: 21059487  
**Client Sample #:** DH-9-02

**Location:** Discover 150/152  
**Layer 1 of 1**  
**Description:** Off-white fibrous material with paint  
**Non-Fibrous Materials:**  
- Binder/Filler, Fine particles, Glass beads  
- Paint  
**Other Fibrous Materials:**  
- Glass fibers 62%  
**Asbestos Type:** None Detected ND

---

## Lab ID: 21059488  
**Client Sample #:** DH-9-03

**Location:** Discover 150/152  
**Layer 1 of 1**  
**Description:** Off-white fibrous material with paint  
**Non-Fibrous Materials:**  
- Binder/Filler, Fine particles, Glass beads  
- Paint  
**Other Fibrous Materials:**  
- Glass fibers 63%  
**Asbestos Type:** None Detected ND

---

## Lab ID: 21059489  
**Client Sample #:** DH-10-01

**Location:** Discover 150/152  
**Layer 1 of 1**  
**Description:** White soft elastic material with paint  
**Non-Fibrous Materials:**  
- Binder/Filler, Fine particles, Paint  
**Other Fibrous Materials:**  
- None Detected ND  
**Asbestos Type:** None Detected ND

---

**Sampled by:** Client  
**Analyzed by:** Akane Yoshikawa  
**Reviewed by:** Matt Macfarlane  
**Date:** 05/17/2021

---

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 600/M4-82-020 Methods 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.

---

Page 6 of 14
# Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

**Client:** AECOM-Seattle  
**Address:** 1111 3rd Avenue Ste. 1600  
Seattle, WA 98101

**Attention:** Mr. Aaron Heath  
**Project Location:** Discover 150/152

---

**Lab ID:** 21059490  
**Client Sample #:** DH-10-02  
**Location:** Discover 150/152

<table>
<thead>
<tr>
<th>Layer 1 of 1</th>
<th>Description</th>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials:%</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>White soft elastic material with paint and trace amount of yellow foamy material</td>
<td>Binder/Filler, Fine particles, Paint</td>
<td>None Detected</td>
<td>ND</td>
</tr>
<tr>
<td></td>
<td>Synthetic foam</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Lab ID:** 21059491  
**Client Sample #:** DH-11-01  
**Location:** Discover 150/152

<table>
<thead>
<tr>
<th>Layer 1 of 1</th>
<th>Description</th>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials:%</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gray fibrous material with gray foamy material and clear adhesive</td>
<td>Binder/Filler, Synthetic foam, Fine particles</td>
<td>Synthetic fibers</td>
<td>44%</td>
</tr>
<tr>
<td></td>
<td>Adhesive/Binder</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Lab ID:** 21059492  
**Client Sample #:** DH-11-02  
**Location:** Discover 150/152

<table>
<thead>
<tr>
<th>Layer 1 of 1</th>
<th>Description</th>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials:%</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gray fibrous material with gray foamy material and clear adhesive</td>
<td>Binder/Filler, Synthetic foam, Fine particles</td>
<td>Synthetic fibers</td>
<td>42%</td>
</tr>
<tr>
<td></td>
<td>Adhesive/Binder</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Lab ID:** 21059493  
**Client Sample #:** DH-12-01  
**Location:** Discover 150/152

<table>
<thead>
<tr>
<th>Layer 1 of 2</th>
<th>Description</th>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials:%</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gray rubbery material</td>
<td>Vinyl/Binder, Fine particles</td>
<td>None Detected</td>
<td>ND</td>
</tr>
</tbody>
</table>

---

**Sampled by:** Client  
**Analyzed by:** Akane Yoshikawa  
**Reviewed by:** Matt Macfarlane  
**Date:** 05/17/2021

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 600/M4-82-020 Methods 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

**Batch #: 2108726.00**  
Client Project #: 60657981  
Date Received: 5/13/2021  
Samples Received: 25  
Samples Analyzed: 25  
Method: EPA/600/R-93/116

**Client:** AECOM-Seattle  
**Address:** 1111 3rd Avenue Ste. 1600  
Seattle, WA 98101

**Attention:** Mr. Aaron Heath  
Project Location: Discover 150/152

---

<table>
<thead>
<tr>
<th>Layer 2 of 2</th>
<th>Description</th>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials: %</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yellow soft mastic</td>
<td>Mastic/Binder, Fine particles</td>
<td>None Detected</td>
<td>ND</td>
</tr>
</tbody>
</table>

**Lab ID:** 21059494  
**Client Sample #:** DH-12-02  
**Location:** Discover 150/152

<table>
<thead>
<tr>
<th>Layer 1 of 3</th>
<th>Description</th>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials: %</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gray rubbery material</td>
<td>Vinyl/Binder, Fine particles</td>
<td>None Detected</td>
<td>ND</td>
</tr>
</tbody>
</table>

**Layer 2 of 3**  
**Description:** Yellow soft mastic

**Layer 3 of 3**  
**Description:** Trace amount of white compacted powdery material with paper & paint

<table>
<thead>
<tr>
<th>Layer 3 of 3</th>
<th>Description</th>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials: %</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Trace amount of white compacted powdery material with paper &amp; paint</td>
<td>Binder/Filler, Fine grains, Fine particles</td>
<td>Cellulose</td>
<td>8%</td>
</tr>
</tbody>
</table>

**Layer 3 of 3**  
**Description:** Trace amount of white compacted powdery material with paper & paint

<table>
<thead>
<tr>
<th>Layer 3 of 3</th>
<th>Description</th>
<th>Non-Fibrous Materials:</th>
<th>Other Fibrous Materials: %</th>
<th>Asbestos Type: %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Trace amount of white compacted powdery material with paper &amp; paint</td>
<td>Paint</td>
<td>None Detected</td>
<td>ND</td>
</tr>
</tbody>
</table>

**Lab ID:** 21059495  
**Client Sample #:** DH-12-03  
**Location:** Discover 150/152

---

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 600/M4-82-020 Methods 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.

---

**Sampled by:** Client  
**Analyzed by:** Akane Yoshikawa  
**Reviewed by:** Matt Macfarlane  
**Date:** 05/17/2021  
**Date:** 05/17/2021  
**Matt Macfarlane, Asbestos Lab Supervisor**
# Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

**Client:** AECOM-Seattle  
**Address:** 1111 3rd Avenue Ste. 1600  
Seattle, WA 98101

**Attention:** Mr. Aaron Heath  
Project Location: Discover 150/152

**Batch #:** 2108726.00  
**Client Project #:** 60657981  
**Date Received:** 5/13/2021  
**Samples Received:** 25  
**Samples Analyzed:** 25  
**Method:** EPA/600/R-93/116

## Layer 3 of 3

**Description:** White compacted powdery material with paint  
**Non-Fibrous Materials:**  
Binder/Filler, Fine grains, Fine particles  
**Asbestos Type:**  
None Detected ND

### Non-Fibrous Materials:

- **Mastic/Binder, Fine particles**
- **Paint**

### Other Fibrous Materials:

<table>
<thead>
<tr>
<th>Non-Fibrous Materials</th>
<th>Asbestos Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>None Detected</td>
<td>ND</td>
</tr>
</tbody>
</table>

**Lab ID:** 21059496  
**Client Sample #:** DH-13-01  
**Location:** Discover 150/152

## Layer 1 of 1

**Description:** White fibrous mesh with yellow mastic and yellow fibrous material  
**Non-Fibrous Materials:**  
Mastic/Binder, Fine particles  
**Asbestos Type:**  
None Detected ND

### Non-Fibrous Materials:

- **Mastic/Binder, Fine particles**
- **Paint**

### Other Fibrous Materials:

<table>
<thead>
<tr>
<th>Non-Fibrous Materials</th>
<th>Asbestos Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synthetic fibers</td>
<td>36%</td>
</tr>
<tr>
<td>Glass fibers</td>
<td>32%</td>
</tr>
</tbody>
</table>

**Lab ID:** 21059497  
**Client Sample #:** DH-13-02  
**Location:** Discover 150/152

## Layer 1 of 1

**Description:** White fibrous mesh with yellow mastic and yellow fibrous material  
**Non-Fibrous Materials:**  
Mastic/Binder, Fine particles  
**Asbestos Type:**  
None Detected ND

### Non-Fibrous Materials:

- **Mastic/Binder, Fine particles**
- **Paint**

### Other Fibrous Materials:

<table>
<thead>
<tr>
<th>Non-Fibrous Materials</th>
<th>Asbestos Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synthetic fibers</td>
<td>33%</td>
</tr>
<tr>
<td>Glass fibers</td>
<td>54%</td>
</tr>
</tbody>
</table>

---

**Sampled by:** Client  
**Analyst:** Akane Yoshikawa  
**Reviewed by:** Matt Macfarlane, Asbestos Lab Supervisor  
**Date:** 05/17/2021

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 600/M4-82-020 Methods 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**

**Company**  
AECOM-Seattle

**Address**  
1111 3rd Avenue Ste. 1600  
Seattle, WA 98101

**Project Manager**  
Mr. Aaron Heath

**Phone**  
(206) 438-2700

**Cell**  
(206) 438-2700

**Email**  
Aaron.heath@aecom.com

**Fax**  
(866) 495-5288

---

**NVL Batch Number**  
2108726.00

**TAT**  
3 Days

**AH**  
No

**Due Date**  
5/18/2021

**Time**  
3:40 PM

---

**Project Name/Number:** 60657981  
**Project Location:** Discover 150/152

**Subcategory**  
PLM Bulk

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

---

**Total Number of Samples**  25  
**Rush Samples**

<table>
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<th>Description</th>
<th>A/R</th>
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<tbody>
<tr>
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<td>2</td>
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<td>DH-2-02</td>
<td>A</td>
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<td>21059475</td>
<td>DH-4-01</td>
<td>A</td>
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<td>DH-4-02</td>
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<tr>
<td>18</td>
<td>21059490</td>
<td>DH-10-02</td>
<td>A</td>
</tr>
</tbody>
</table>

---

**Sampled by**  
Client

**Relinquished by**  
Client

**Print Name**  
Client

**Signature**  
Client

**Company**  
Client

**Date**  
5/13/21

**Time**  
1540

---

**Office Use Only**

**Print Name**  
Kelly AuVu

**Signature**  
Kelly AuVu

**Company**  
NVL

**Date**  
5/13/21

**Time**  
1540

---

**Fax**  
NVL

**Emailed**  
NVL

**Results Called by**  
Akane Yoshikawa

**Date**  
5/17/21

**Time**  
1540

---

**Special Instructions:**

---

Date: 5/13/2021

Time: 4:17 PM

Entered By: Kelly AuVu

---

page 10 of 14
Company: AECOM-Seattle
Address: 1111 3rd Avenue Ste. 1600
Seattle, WA 98101
Project Manager: Mr. Aaron Heath
Phone: (206) 438-2700
Fax: (866) 495-5288

NVL Batch Number: 2108726.00
TAT: 3 Days
Rush TAT: No
Due Date: 5/18/2021
Time: 3:40 PM
Email: Aaron.heath@aecom.com

Project Name/Number: 60657981
Project Location: Discover 150/152

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

Total Number of Samples: 25

<table>
<thead>
<tr>
<th>Lab ID</th>
<th>Sample ID</th>
<th>Description</th>
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Print Name: Kelly AuVu
Date: 5/13/2021
Time: 4:17 PM

Special Instructions:

Date: 5/13/2021
Time: 4:17 PM
Entered By: Kelly AuVu
**ASBESTOS CHAIN OF CUSTODY**

**Company:** AECOM  
**Address:** 1111 3rd Ave, Suite 1600  
**Seattle, WA 98101**  
**Phone:** 206-438-2700

**Project Manager:** AARON HEATH

<table>
<thead>
<tr>
<th>Project Name/Number</th>
<th>Project Location</th>
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<tbody>
<tr>
<td>207478</td>
<td>DISCOVERY 150/152</td>
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</table>

- PCM Air (NIOSH 7400)  
- PLM (EPA 600/R-93-116)  
- PLM Gravimetry (600/R-93-116)  
- Asbestos Friable/Non-Friable (EPA 600/R-93/116)  
- TEM (NIOSH 7402)  
- TEM (AHERA)  
- EPA 400 Points (600/R-93-116)  
- Asbestos in Vermiculite (EPA 600/R-04/004)  
- EPA 1000 Points (600/R-93-116)  
- Asbestos in Sediment (EPA 1900 Points)  
- Other

**Reporting Instructions**

- Call ( )  
- Fax ( )  
- Email mike.kosoff@aecom.com

---

**Total Number of Samples:** 25

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**Sampled by:** Mike Kosoff  
**Relinquish by:** Mike Kosoff  
**Print Name:** AECOM  
**Company:** AECOM  
**Date:** 5/13/21  
**Time:** 15:40

**Office Use Only**

**Received by:**  
**Analyzed by:**  
**Called by:**  
**Faxed/Email by:**  

4708 Aurora Ave N, Seattle, WA 98103  
P 206.547.0100  
F 206.634.1936  
www.nvlabs.com  
Page 12 of 14
Company: AECOM
Address: 1111 3rd Ave, Suite 1600
Seattle, WA 98101
Phone: 206-438-2700
Project Manager: AARON HEATH
Cell: ( )
Email: 
Fax: ( )

Project Name/Number: 207478
Project Location: DISCOVERY 150/152

- PCM Air (NIOSH 7400)
- TEM (NIOSH 7402)
- TEM (AHERA)
- PLM (EPA 600/R-93-116)
- EPA 400 Points (600/R-93-116)
- PLM Gravimetry (600/R-93-116)
- Asbestos in Vermiculite (EPA 600/R-04/004)
- Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- Other

Reporting Instructions:
- Call ( )
- Fax ( )
- Email: mike.kosoff@aecom.com

Total Number of Samples: 25

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Sampled by: Mike Kosoff
Relinquish by: Mike Kosoff

Print Name: Mike Kosoff
Signature: [Signature]
Company: AECOM
Date: 5/13/21
Time: 15:40

Office Use Only

Received by: [Signature]
Company: [Signature]
Date: 5/13/21
Time: 15:40
I dropped off 25 bulk samples and three paint samples this afternoon on a three-day turnaround. Please change the project number on the COCs from 207478 to 60657981.

Thank you,
Mike Kosoff
Abatement Designer/Environmental Technician
Cell 206-730-3127
Desk 206-438-2019
mike.kosoff@aecom.com

AECOM
1111 Third Avenue, Suite 1600
Seattle, WA 98101
206-438-2700 Fax 866-495-5288
www.aecom.com
Appendix D. Lead Analytical Results
RE:  Total Metal Analysis  
Method: EPA 7000B Lead by FAA <paint>  
Item Code: FAA-02

Client Project: 60657981  
Location: Discovery 150/152

Dear Mr. Heath,

NVL Labs received 3 sample(s) for the said project on 5/13/2021. 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. 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,

Shalini Patel, Lab Supervisor

Enc.: Sample results
# Analysis Report

## Total Lead (Pb)

**Client:** AECOM-Seattle  
**Address:** 1111 3rd Avenue Ste. 1600  
**Seattle, WA 98101**

**Attention:** Mr. Aaron Heath  
**Project Location:** Discovery 150/152

---

**Batch #:** 2108725.00  
**Matrix:** Paint  
**Method:** EPA 3051/7000B  
**Client Project #:** 60657981  
**Date Received:** 5/13/2021  
**Samples Received:** 3  
**Samples Analyzed:** 3

### Samples

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<th>Client Sample #</th>
<th>Sample Weight (g)</th>
<th>RL in mg/Kg</th>
<th>Results in mg/Kg</th>
<th>Results in percent</th>
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<td>54</td>
<td>&lt; 54</td>
<td>&lt;0.0054</td>
</tr>
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</table>

---

**Sampled by:** Client  
**Analyzed by:** Yasuyuki Hida  
**Reviewed by:** Shalini Patel  
**Date Analyzed:** 05/17/2021  
**Date Issued:** 05/17/2021  
**Bench Run No:** 2021-0517-5

---

**mg/Kg =** Milligrams per kilogram  
**RL =** Reporting Limit  
**'<' =** Below the reporting Limit  
**Note:** Method QC results are acceptable unless stated otherwise. Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

---

**FAA-02**

---

**Page 2 of 4**
**Lead Laboratory Services**

**Company**: AECOM-Seattle  
**Address**: 1111 3rd Avenue Ste. 1600  
Seattle, WA 98101  

**Project Manager**: Mr. Aaron Heath  
**Phone**: (206) 438-2700  
**Cell**: (206) 438-2700  

**NVL Batch Number**: 2108725.00  
**TAT**: 3 Days  
**Rush TAT**: No  
**Due Date**: 5/18/2021  
**Time**: 3:40 PM  
**Email**: Aaron.heath@aecom.com  
**Fax**: (866) 495-5288

---

**Project Name/Number**: 60657981  
**Project Location**: Discovery 150/152

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

---

**Total Number of Samples**: 3  
**Rush Samples**: No

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**Print Name**: Kelly AuVu  
**Signature**:  
**Company**: NVL  
**Date**: 5/13/21  
**Time**: 1540

**Received by**: Kelly AuVu  
**Company**: NVL  
**Date**: 5/13/21  
**Time**: 1540

**Analyzed by**: Yasuyuki Hida  
**Company**: NVL  
**Date**: 5/17/21  
**Time**: 1540

**Results Called by**: NVL  
**Fax**: No  
**Emailed**: Yes

---

**Special Instructions:**

---

Date: 5/13/2021  
Time: 4:15 PM  
Entered By: Kelly AuVu

---

Page 3 of 4
## Total Number of Samples

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**Sampled by:** Mike Kosoff  
**Relinquish by:** Mike Kosoff  
**Company:** AECOM  
**Date:** 5/13/21  
**Time:** 15:40

**Office Use Only**

- **Received by:**  
- **Signature:**  
- **Company:**  
- **Date:** 5/13/21  
- **Time:** 15:40

---

**Project Name/Number:** 207478  
**Project Location:** DISCOVERY ISO/152

**Reporting Instructions**
- **Call:**  
- **Fax:**  
- **Email:** mike.kosoff@aecom.com
Appendix E. Personnel and Laboratory Accreditations
Certificate of Completion

This is to certify that

Mike A. Kosoff

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
Certificate Number: 178882

Instructor: Andre Zwanenburg

Date(s) of Training: Sep 9, 2020
Exam Score: N/A
Expires in 1 year.
United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 102063-0

NVL Laboratories, Inc.
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 Communique dated January 2009).

2020-07-23 through 2021-09-30
Effective Dates

For the National Voluntary Laboratory Accreditation Program
SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

NVL Laboratories, Inc.
4708 Aurora Avenue N.
Seattle, WA 98103
Mr. Nghiep Vi Ly
Phone: 206-547-0100  Fax: 206-634-1936
Email: nick.l@nvllabs.com
http://www.nvllabs.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 102063-0

Bulk Asbestos Analysis

<table>
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<tr>
<td>18/A01</td>
<td>EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples</td>
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<tr>
<td>18/A03</td>
<td>EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials</td>
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For the National Voluntary Laboratory Accreditation Program

Effective 2020-07-23 through 2021-09-30
March 29, 2019

Nghiep Vi Ly
NVL Laboratories, Inc.
4708 Aurora Avenue N.
Seattle, WA 98103

Dear Mr./Ms. Ly:

Congratulations! The AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC’s Analytical Accreditation Board (AAB) has approved NVL Laboratories, Inc. as an accredited Industrial Hygiene, Environmental Lead, Environmental Microbiology and Unique Scope laboratory.

Accreditation documentation includes the IHLAP, ELLAP, EMLAP and Unique Scopes accreditation certificate, scope of accreditation document and a copy of the current AIHA-LAP, LLC license agreement (if your completed agreement is not on file at AIHA-LAP, LLC). The accreditation symbol has been designed for use by all AIHA-LAP, LLC accredited laboratories. If your laboratory chooses to use the symbol in its advertising the laboratory’s accreditation, you must complete and return the AIHA-LAP, LLC license agreement to a Laboratory Accreditation Specialist. Once submitted, an electronic copy of the accreditation symbol will be sent to you.

Laboratory accreditation shall be maintained by continued compliance with IHLAP, ELLAP, EMLAP and Unique Scopes requirements (see Policy Modules 2B, 2C, 2D, 2E, and 6), which includes proficient participation in AIHA-LAP, LLC approved proficiency testing, demonstration of competency, or round robin program as indicated on the AIHA-LAP “Approved PT and Round Robin” webpage, its associated Scope/PT table, and as required in Policy Module 6, for all Fields of Testing (FoTs) for which the laboratory is accredited. An accredited laboratory that wishes to expand into a new FoT must submit an updated accreditation application to AIHA-LAP, LLC for review by the AAB.

Any changes in ownership, laboratory location, personnel, FoTs/Methods, or significant procedural changes shall be reported to AIHA-LAP, LLC in writing within twenty (20) business days of the change.

The accreditation certificate is the property of AIHA-LAP, LLC and must be returned to us should your laboratory withdraw or be removed from the IHLAP, ELLAP, EMLAP and Unique Scopes.

Again, congratulations. If you have any questions, please contact Lauren Schnack, Laboratory Accreditation Specialist, at (703) 846-0716.

Sincerely,

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

acknowledges that

NVL Laboratories, Inc.
4708 Aurora Avenue N., Seattle, WA 98103
Laboratory ID: 101861

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

LABORATORY ACCREDITATION PROGRAMS

✓ INDUSTRIAL HYGIENE Accreditation Expires: June 01, 2021
✓ ENVIRONMENTAL LEAD Accreditation Expires: June 01, 2021
✓ ENVIRONMENTAL MICROBIOLOGY Accreditation Expires: June 01, 2021
☐ FOOD Accreditation Expires:
✓ UNIQUE SCOPES Accreditation Expires: June 01, 2021

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

Elizabeth Bair
Chairperson, Analytical Accreditation Board

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

Revision 17 – 09/11/2018

Date Issued: 03/29/2019
The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory’s current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

**Industrial Hygiene Laboratory Accreditation Program (IHLAP)**

*Initial Accreditation Date: 04/01/1997*

<table>
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<tr>
<th>IHLAP Scope Category</th>
<th>Field of Testing (FoT) (FoTs cover all relevant IH matrices)</th>
<th>Technology sub-type/ Detector</th>
<th>Published Reference Method/Title of In-house Method</th>
<th>Method Description or Analyte (for internal methods only)</th>
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<tbody>
<tr>
<td>Spectrometry Core</td>
<td>Atomic Absorption</td>
<td>FAA</td>
<td>NIOSH 7082</td>
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<td>Inductively-Coupled Plasma</td>
<td>ICP/AES</td>
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A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at: [http://www.aihaaccreditedlabs.org](http://www.aihaaccreditedlabs.org)
AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

NVL Laboratories, Inc.  Laboratory ID: 101861
4708 Aurora Avenue N., Seattle, WA 98103  Issue Date: 03/29/2019

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 compositied wipes analyses are not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 02/07/1997

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<td>EPA SW-846 7000B</td>
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<td>Settled Dust by Wipe</td>
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<td>NIOSH 7082</td>
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A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: [http://www.aihaaccreditedlabs.org](http://www.aihaaccreditedlabs.org)
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.

### Environmental Microbiology Laboratory Accreditation Program (EMLAP)

**Initial Accreditation Date: 02/01/1997**

<table>
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<th>EMLAP Category</th>
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<td>SOP 12.133</td>
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<td>In-House: Bulk Analysis</td>
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<tr>
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<td>SOP 12.133</td>
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</tbody>
</table>

A complete listing of currently accredited Environmental Microbiology laboratories is available on the AIHA-LAP, LLC website at: [http://www.aihaaccreditedlabs.org](http://www.aihaaccreditedlabs.org)
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.

**Unique Scopes Laboratory Accreditation Program (Unique Scopes)**

**Initial Accreditation Date:** 04/01/2013

<table>
<thead>
<tr>
<th>Unique Scope Category</th>
<th>Field of Testing (FoT)</th>
<th>Method</th>
<th>Method Description (for internal methods only)</th>
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<tr>
<td>Consumer Product Testing</td>
<td>Lead in Paint and Other Similar Surface Coatings</td>
<td>CPSC-CH.E1003-10</td>
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<td>Total Lead in Metal Children’s Product</td>
<td>CPSC-CH.E1001-08</td>
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<td></td>
<td>Total Lead in Non-Metal Children’s Products</td>
<td>CPSC-CH.E1002-08</td>
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</tbody>
</table>

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