SWCAA
Southwest Clean Air Agency

# Notice of Intent to Remove Asbestos

Case #: 24-765
Amendment: 0

11815 NE 99th Street, Suite 1294
Vancouver, WA 98662
Voice: 360-574-3058
Fax: 360-576-0925
Web: https://www.swcleanair.gov
Email: Tina@swcleanair.gov

Date Received: 11/7/2024
Date Paid: 11/7/2024
SWCAA Fee: $738.00
Receipt #: 165691715

**This notification MUST be present at all times at the asbestos project sit**

*** EMERGENCY NOTICE ***

Quantity to be removed: 323 Square Feet 0 Linear Feet
Workshift days: M F
Project starting date: 11/8/2024 Project Completion date: 11/17/2024
Workshift hours: 10AM-4PM, 8am-4p

Site Name: Tony Sahli
Site address: 13811 NW 239th
Location of Asbestos: bathroom, Office
City/State/Zip: Battle Ground WA 98604
☐ Demolition of Structure (Notification of Demolition required)
County: CLARK COUNTY

☑ Asbestos survey conducted?
No survey reason:
AHERA Inspector: Stephen Strickland
Certification #: ON-4644-11135-121222

## Material to be Removed:

☐ Fireproofing ☐ Popcorn Ceiling ☐ CAB ☑ Sheet Vinyl ☐ Boiler Insulation ☐ Duct Tape
☐ Duct Paper ☐ Mag Pipe Insulation ☐ Air Cell ☐ CA Pipe ☐ VAT
☐ Other

## Control Methods:

☑ N.P Enclosure ☐ Glove Bag ☐ Mini Enclosure ☐ Wrap and Cut ☑ Water ☑ HEPA Vac
☐ Other

**Asbestos Contractor:** Abatement Services of Washington
Phone: 503-765-5257
Mailing Address: PO Box 747, Beavercreek, OR, 97004
Email: tristan@abateservices.com
Certification ##: ABCN00001610
Supervisor: Isais Rodriquez
Phone: 971-710-8856

**Property Owner:** 13811 NW 239th
Phone: 360-600-6700
Mailing Address: 13811 NW 239th,Battle Ground WA 98604

**Asbestos Disposal Site:** Hillsboro Landfill: 3205 SE Minter Bridge Rd, Hillsboro, OR, 97123-

I DO HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THIS NOTIFICATION IS, TO THE BEST OF MY KNOWLEDGE, ACCURATE AND COMPLETE.

**Submitter Name:** Ashley Morales
**Representing:** Asi
**Submitter Title:**
Date Submitted: 11/7/2024

**Reviewed by SWCAA:** Brian Fallon
☑ Approved

SWCAA
Southwest Clean Air Agency

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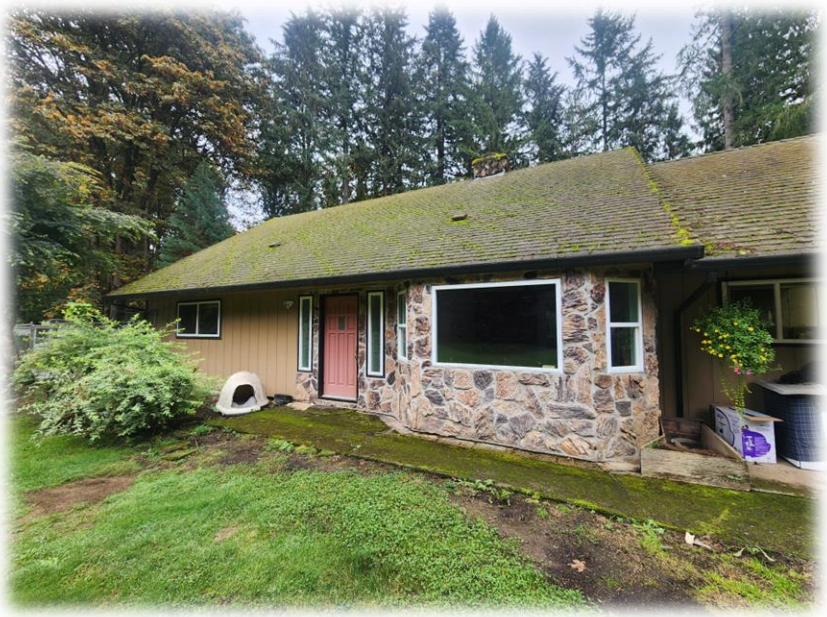
ADVANTAGE Environmental INC.
www.Advantage-Enviro.com

# Limited Asbestos Building Material Survey & TEM Dust Wipe Sampling Report



Conducted for:
Krieg Construction
P.O. Box 387
Beaverton, OR 97019

Prepared By:
Advantage Environmental Inc.
9317 NE Hwy 99, Suite D
Vancouver, WA 98665

**Conducted at**
**13811 NW 239th St.**
**Battleground, WA 98604**

**Inspection Date(s)**
**Wednesday, October 23, 2024**

**EPA/AHERA Inspector(s)**
**Stephen Strickland**
**360-839-0370**
**AHERA# ON-4644-11135-120723**
**Expires: 12/07/2024**

ADVANTAGE Environmental INC.

Clean your world.

October 24, 2024

Krieg Construction
Joshua Krieg
P.O. Box 387
Corbett, OR 97019
jkrieg@kriegconstructionco.com
360-904-2535

Re: Limited Asbestos Building Material Survey & TEM Dust Wipe Sampling Report:
13811 NW 239th St, Battleground, WA 98604

Dear Mr. Kreig,

Advantage Environmental, Inc., (AEI) was retained by Kreig Construction to complete a limited asbestos building material survey & TEM dust wipe sampling report of the residential structure listed above. The results of the survey are provided in the accompanying report.

The purpose of this survey was to identify the location of asbestos containing materials prior to renovation and disposal of building material within the structure. The scope of work included a walk-through inspection, bulk sampling and analysis of specific suspect asbestos containing materials, TEM dust wipe sampling, and a written report documenting the results of the survey. This survey was limited to the material identified within the material summary tables section.

This is not a bidding document and all quantities of asbestos containing material should be verified by the abatement contractor prior to submitting their bid.

Thank you for choosing Advantage Environmental for this project. Please feel free to contact us at (360) 356-7628 if you have any questions.

Respectfully,
Advantage Environmental, Inc.
Trystan South
Project Manager
AHERA Building Inspector

## Asbestos Regulatory Background

The National Emissions Standards for Hazardous Air Pollutants (40 CFR Part 61) defines the three categories.

**RACMs are:**

- ***Friable asbestos materials***
- ***Category 1 & 2 non-friable materials which have become friable***
- ***Category 2 non-friable ACM that will or has been subjected to sanding grinding, cutting or abrading***
- ***Category 2 non-friable ACM that has a high probability of becoming or has become friable by the forces expected to act upon them in the course or demolition or renovation***

**Category 1** non-friable materials include gaskets, packings, resilient floor coverings and asphalt roofing products containing more than 1% asbestos.

**Category 2** non-friable materials are all non-friable materials not included in Category 1.

Homogeneous materials are materials that are considered consistent throughout an area of the building based on the material's appearance, including texture size and color, manufacturers' labels and or construction era.

Asbestos Containing Building Materials (ACBMs) are placed into one of three general material categories which include surfacing materials, thermal system insulation, and miscellaneous materials. Surfacing materials are spray or trowel applied materials such as plasters, acoustical, or texturing products. Thermal system insulation materials are associated with HVAC systems and include pipe, boiler, tank insulation, duct insulation, seam tape, pipe insulation, and chimney or flue insulation. The final category is miscellaneous materials, which includes any material that does not fall into one of the two prior categories. These include, but are not limited to: floor finishes, adhesives, cement asbestos boards, gypsum wall board, ceiling tiles, and window glazing.

After the category of building material is assessed, the condition is determined. Materials are divided into two condition categories: friable and non-friable. This describes the materials potential to release asbestos fibers. 17.74.352 defines friable asbestos containing materials as any material containing more than 1% asbestos applied on ceilings, walls, structural members, piping, ducting, or any other part of a structure which when dry may be crumbled, pulverized, or reduced to powder by hand pressure. This also includes non-friable material that may become damaged through such actions as sawing, grinding, abrading or chipping and may become friable and release fibers.

"Asbestos" means the asbestiform varieties of serpentine (chrysotile), riebeckite (crocidolite), cummingtonite-grunerite (amosite), anthophyllite, actinolite, and tremolite.

"Asbestos containing material" means a material containing more than one-percent asbestos by weight. (ACM)

In accordance with EPA regulations, any material which tests at less than 1% asbestos is not regulated by the EPA. However, the EPA requires that any material less than 1% asbestos be confirmed by EPA 600 Method 400 or 1000 Point Count. OSHA safety regulations still apply no matter the asbestos content.

## Building Description

The structure is a currently unoccupied single family residence built in 1976. It is a 2 story ~2,500 sq. ft. 4 bedroom, 2 bathroom, stick built house on concrete foundation. This survey was limited to the materials/locations indicated in the Material Summary Table on Page 6. Interior walls consisted of gypsum wallboard. The floors were wood with sheet vinyl flooring throughout the sampled areas. Interior ceilings were not sampled as part of this survey. TEM dust wipe samples were limited to the locations indicated in the Dust Wipe Sample Results Table on Page 5.

**Inaccessible Areas:** None noted.

## Sampling Methodology

**Asbestos**
A walk-through of the area was conducted by an EPA/AHERA accredited building inspector to identify the location of suspect hazardous materials. The location, approximate quantity and condition of each material were recorded on field data sheets. Bulk samples of each suspect material were then collected and submitted to the laboratory under chain of custody documentation for analysis of asbestos content.

Samples were collected from selected homogeneous materials to evaluate the presence or absence of hazardous materials. Determination of homogeneous material included material type, texture, pattern, color, and size. A total of 12 suspect asbestos containing material samples were analyzed including sub-layers.

All asbestos samples collected by AEI were placed into pre-labeled airtight containers and brought to AEI's laboratory for analysis of asbestos content. AEI's laboratory analyzed the samples using Polarized Light Microscopy (PLM) with dispersion staining to identify asbestos constituents as required by EPA regulation 40 CFR, Part 763.

Advantage Environmental, Inc. participates in the American Industrial Hygiene Association (AIHA) Proficiency Analytical Testing's BAPAT program and is currently rated as proficient, Participant ID 163978.

**TEM Dust Wipes**
A total of 3 TEM dust wipe samples were collected. All samples were collected, labeled, placed into an airtight container and shipped to McCall & Spero Environmental, Inc. located in Louisville, KY for analysis of asbestos content.

## Visual Assessment and Findings

Our survey activities began with visual observation of the property to identify homogeneous areas of suspect materials. Assessments were conducted throughout visually accessible areas of the property.

Building material identified as glass, wood, metal, or rubber were not considered suspect asbestos containing material.

Unidentified asbestos-containing material may be in place behind walls, ceilings, under floors, beneath carpeted areas, areas outside the scope of work at the time of inspection, and in other inaccessible areas.

***A table indicating sample numbers, material description, material location, material condition and content of each material sampled is included in the material summary table below.***

Laboratory analytical results, chain of custody documentation and notes are included in Appendix A. AHERA Building inspector credentials are included in Appendix B.

## Limitations

The report is limited to the samples shown below in the material summary pages. Upon discovery of asbestos containing material found during demolition, renovation, or after an unexpected emergency, the property owner or operator of the demolition or renovation company is required to stop work immediately. All exposed suspect materials will need to be sampled by an AHERA accredited inspector and sent to an accredited laboratory for sample analysis. Although due diligence was taken during the inspection, unidentified asbestos-containing materials may be behind wall systems, above ceiling systems, or beneath concrete slabs.

## Discussion & Recommendations

### Asbestos

**Based on the laboratory results the following asbestos containing materials were identified during this inspection. Locations include but may not be limited to the following:**

| Greater Than 1% Asbestos Containing Materials | | | | | | |
|---|---|---|---|---|---|---|
| **Sample Group Number** | **Material Type** | **Material Location** | **Condition** | **Quantity** | **Friable Or Non-Friable** | **Asbestos Concentration** |
| **1** | White texture/white joint compound | Throughout the drywall systems of the main level of the house. *Additional material may be present in areas not visually accessible or outside the scope of work at the time of inspection.* | Good | ~1,200 Sq. Ft. | Friable | 2% Chrysotile |
| **2** | Dark brown/light brown sheet flooring | Throughout the main level hallway bathroom. *Additional material may be present in areas not visually accessible or outside the scope of work at the time of inspection.* | Good | ~50 Sq. Ft. | Friable | 20% Chrysotile |

Asbestos-containing material must be removed by a licensed asbestos abatement contractor prior to any renovation, demolition, or repair work that will impact those materials.

Any materials encountered that are not specifically mentioned in this report should be considered asbestos containing until sufficient sampling has been completed to determine that these materials are non-asbestos containing.

**OSHA regulations**
(29 CFR 1926.1101) states that if asbestos containing materials, containing <1% asbestos, are to be removed by construction personnel, the employer shall provide awareness training, a written respirator protection program, respirators, and a negative exposure assessment.

The Occupational Safety and Health Administration (OSHA) classifies the removal or disturbance of asbestos containing material as Class I and Class II asbestos abatement projects. The removal of asbestos containing material requires the use of appropriate engineering controls, by a contractor licensed by the State of Washington. The work methods utilized must include the use of wet methods, negative pressure enclosure, and decontamination facility.

*Additionally, OSHA regulations (29 CFR 1926.1101) require employers to meet standards regarding personal protection, labeling, signs, daily air monitoring, use of engineering controls, notification, and respiratory protection for all activities related to the removal or disturbance of asbestos containing building materials.*

**EPA**
***EPA recommends that bulk material found negative for asbestos or less than one percent asbestos by polarized light microscopy be reanalyzed by an additional method such as transmission electron microscopy.*

## TEM Dust Wipe Sample Results

### Asbestos TEM Dust Wipes

Limited sampling for asbestos contaminated dust was conducted as part of this inspection. Sample results with a “less than” (<) sign indicate the sample results were below the laboratories reporting limit. See laboratory results for more information.

| TEM Dust Wipe Sample Results | | | |
|---|---|---|---|
| **Sample Number** | **Sample Location** | **Area Of Sample** | **Results** |
| **W-1** | Top of fridge | 1 Sq. Ft. | 6 Chrysotile Structures Detected |
| **W-2** | Fireplace mantle | 1 Sq. Ft. | 2 Chrysotile Structures Detected |
| **W-3** | Countertop in office-Southeast Corner | 1 Sq. Ft. | 2 Chrysotile Structures Detected |

## Conclusion

Based on the laboratory analytical results, chrysotile asbestos contamination is present within the house. The house should be placed under containment and adequate negative pressure. All work should be performed by qualified personnel trained in asbestos abatement/removal. Only qualified personnel will be allowed within the house and proper PPE will be worn by all personnel at all times. Decontamination and cleaning procedures will need to be performed within the house. All waste will need to be disposed of following all local, state, and federal regulations. Once all cleanup and decontamination procedures have been completed, clearance air sampling will need to be performed prior to removal of containment. Additional TEM dust wipe sampling is recommended as well.

## Warranty

Advantage Environmental Inc. warrants that this report has been prepared in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances. No other warranties are implied or expressed.

## Material Summary Table

# Asbestos

Materials highlighted in red contain 1% asbestos content or greater as determined by laboratory analysis. These materials will need to be removed prior to disturbance, construction or demolition activities that may impact these materials.

| Sample Number | Material Description | Sample Locations | Condition | Approximate Quantity | Friable Yes/No | Asbestos Content |
|---|---|---|---|---|---|---|
| **1A** | White texture | Main floor office-Northeast Corner | Good | ~1,200 Sq. Ft. | Yes | 2% Chrysotile |
| | White joint compound | Main floor office-Northeast Corner | Good | ~1,200 Sq. Ft. | Yes | 2% Chrysotile |
| | White drywall | Main floor office-Northeast Corner | | | | Asbestos Not Present |
| **1B** | White texture | Laundry room-Northwest Corner | Good | ~1,200 Sq. Ft. | Yes | 2% Chrysotile |
| | White joint compound | Laundry room-Northwest Corner | Good | ~1,200 Sq. Ft. | Yes | 2% Chrysotile |
| | White drywall | Laundry room-Northwest Corner | | | | Asbestos Not Present |
| **1C** | White texture | Kitchen-Northeast Corner | Good | ~1,200 Sq. Ft. | Yes | 2% Chrysotile |
| | White joint compound | Kitchen-Northeast Corner | Good | ~1,200 Sq. Ft. | Yes | 2% Chrysotile |
| | White drywall | Kitchen-Northeast Corner | | | | Asbestos Not Present |
| **2** | Light brown/dark brown sheet flooring | Main level-hallway bathroom | Good | ~50 Sq. Ft. | Yes | 20% Chrysotile |
| | Tan flooring mastic | Main level-hallway bathroom | | | | Asbestos Not Present |
| **3** | Brown/gray wood-look floor tile | Main floor office | | | | Asbestos Not Present |

☐ **No ACM was identified during the survey. (mark if applicable)**

APPENDIX A
Laboratory Analytical Results
Chain of Custody

**ADVANTAGE Environmental INC.**

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9317 NE Hwy 99, Suite D, Vancouver, WA 98665 | 360-356-7628

## Polarized Light Microscopy Results

| | | | |
|---|---|---|---|
| **Lab No** | 146824 | **Property Address** | 13811 NW 239th St |
| **Layers Analyzed** | 12 | **City, State, Zip** | Battle Ground, WA |
| | | **Job Number** | Interior Remodel |
| **Date Received** | 10/23/2024 | **Client Name** | Kreig Construction |
| **Received By** | Talia Carroll | **Client Address** | |
| **Date Analyzed** | 10/24/2024 | **City, State, Zip** | |
| **Analyzed By** | Jonathan Gomes | **Phone & E-mail** | |

| AEI Sample ID | Client Sample ID | Composition | Color/ Description | Asbestos (%) | Non-Asbestos Fiber (%) | Non Fibrous |
|---|---|---|---|---|---|---|
| 001 | 1A | Layered | White Texture | 2% Chrysotile | N/A | (White) Paint-CaCO3-Mica |
| 001A | | Layered | White Joint Compound | 2% Chrysotile | N/A | CaCO3-Mica |
| 001B | | Layered | White Drywall | Asbestos Not Present | 15% Cellulose | Gypsum-Sand |
| 002 | 1B | Layered | White Texture | 2% Chrysotile | N/A | (White) Paint-CaCO3-Mica |
| 002A | | Layered | White Joint Compound | 2% Chrysotile | N/A | CaCO3-Mica |
| 002B | | Layered | White Drywall | Asbestos Not Present | 15% Cellulose | Gypsum-Sand |
| 003 | 1C | Layered | White Texture | 2% Chrysotile | N/A | (White) Paint-CaCO3-Mica |
| 003A | | Layered | White Joint Compound | 2% Chrysotile | N/A | CaCO3-Mica |
| 003B | | Layered | White Drywall | Asbestos Not Present | 15% Cellulose | Gypsum-Sand |
| 004 | 2 | Layered | Light Brown/Dark Brown Sheet Flooring | 20% Chrysotile | 2% Cellulose | Vinyl-Foam-Binder-CaCO3-Mica |
| 004A | | Layered | Tan Flooring Mastic | Asbestos Not Present | N/A | CaCO3-Glue |
| 005 | 3 | Homogeneous | Brown/Gray Wood-Look Floor Tile | Asbestos Not Present | <1% Cellulose | Vinyl-Binder-CaCO3 |

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# Disclaimer

• EPA Method 600/M4-82-020 (1982) was used to determine the presence or absence of asbestos fibers in all materials referenced in the above report. PLM analysis is based on visual estimation, and due to limitations of PLM analysis NESHAP regulations recommend that any material determined to contain less than 10% asbestos by the above referenced method should either be assumed to contain greater than 1% asbestos by the owner/operator, or be verified by PLM Point Count or TEM analysis as containing less than 1% asbestos.

• We recommend that TEM analysis be conducted for confirmation of negative PLM analytical results of vinyl floor tiles and vermiculite. These materials may contain asbestos fibers that cannot be detected by PLM analysis due to their size (<0.25 microns in diameter)

• This report may not be used to represent any materials not analyzed and listed in the included report. Advantage Environmental Inc. cannot be held responsible for the interpretation of the results shown. This report may not be reproduced in part and may only be reproduced in full without prior written consent from Advantage Environmental Inc.

# ADVANTAGE Environmental INC.

## ASBESTOS CHAIN OF CUSTODY

9317 NE Hwy 99. Suite D • (360) 356-7628

**LEGAL DOCUMENT - PLEASE PRINT LEGIBLY**

| Lab Use Only | | | |
|---|---|---|---|
| Survey | ☑ | Lab No. | 146824 |
| Walk-In | ☐ | Accept | Reject |

| AHERA Inspector / Sampled By | | Project Information | |
|---|---|---|---|
| Date: | 10/23/2024 | Company Name: | Kreig Construction |
| Name: | Stephen Strickland | Project Name: | Interior Remodel |
| Phone: | 360-356-7628 | Project Location: | 13811 NW 239th St, Battleground, WA |
| Email: | Stephen.Strickland@advantage-enviro.com | P.O. Number: | |

| RELINQUISHED BY | | DATE & TIME | | VIA | RECEIVED BY | DATE & TIME |
|---|---|---|---|---|---|---|
| Name | Stephen Strickland | Date | 10/23/2024 | Drop-off | | 10-23-24 |
| Sign | | Time | 12:15 | | | |

## REQUESTED SERVICES

| PLM | TURNAROUND TIME | | | | |
|---|---|---|---|---|---|
| Bulk Analysis | ☐ Verbal | ☐ Rush | ☐ Same Day | ☑ 24-Hour | ☐ 3-Days |

| No. | Sample ID | Color | Description | Volume/Area (as applicable) | Comments / Notes | Condition | Friable |
|---|---|---|---|---|---|---|---|
| 1 | 1A | White | GWB/ Joint Compound | 1200 Sqft | Main floor office NE corner | G | Y |
| 2 | 1B | White | GWB/ Joint Compound | | NW corner laundry room | G | Y |
| 3 | 1C | White | GWB/ Joint Compound | | NE corner kitchen | G | Y |
| 4 | 2 | Tan | Sheet Flooring | 50 Sqft | Main level hallway bathroom | G | Y |
| 5 | 3 | Brown | Vinyl Floor Planks | 120 Sqft | Main floor office | G | N |
| 6 | | | | | | G \| F \| P | Y \| N |
| 7 | | | | | | G \| F \| P | Y \| N |
| 8 | | | | | | G \| F \| P | Y \| N |
| 9 | | | | | | G \| F \| P | Y \| N |
| 10 | | | | | | G \| F \| P | Y \| N |
| 11 | * | | | | *3 TEM Wipe Samples* | G \| F \| P | Y \| N |

| Sample # | Additional Notes | Sample # | Additional Notes |
|---|---|---|---|
| | | | |
| | | | |

McCall and Spero Environmental, Inc.
Specialists in Microanalysis
1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 FAX (502) 244-7136
E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date: October 24, 2024

Attention: Sid Carter
Advantage Environmental

Subject: Analysis of dust samples for asbestos mineral fibers by Transmission Electron Microscopy (TEM)

RE: MSE-O244ADVD
Kreig Construction - 13811 NE 239th St; Battleground, WA Project

Dear Mr. Carter:

McCall and Spero Environmental, Inc. has completed the analyses of the dust samples we received from your office on October 24, 2024. These samples represent the TEM dust samples for the Kreig Construction - 13811 NE 239th St; Battleground, WA Project.

The dust samples were prepared using ASTM Method # D6480-99: Standard Test Method for Wipe Sampling of Surfaces, Indirect Preparation, and Analysis for Asbestos Structure Number Concentration by Transmission Electron Microscopy. The TEM counting rules described for asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0μm in length and greater than 5.0μm in length, which were added together for a total asbestos structure count. Results are expressed as the number of asbestos structures per square centimeter of non-airborne dust.

The results for the three (3) dust samples and one (1) blank are summarized in Tables I & II. TEM sample analysis printouts are also attached.

Thank you for consulting McCall & Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

S. Dewayne Lear, B.S.
Director of Testing Services

## SUMMARY OF TEM RESULTS

### TABLE I

### Dust Sample Analysis

Project Name: Kreig Construction - 13811 NE 239th St; Battleground, WA Project

McCall and Spero Project No: MSE-O244ADVD

| MSE Lab ID | Client ID | # of Asb. Struc. | Asb. Type | Area Sampled ($cm^2$) | Fraction Filtered | Calculated Analytical Sensitivity ($s/cm^2$) | Conc. ($s/cm^2$) |
|---|---|---|---|---|---|---|---|
| DW-01 | W-1 | 6 | CH | 929.03 | 0.025 | 441 | 2,644 |
| DW-02 | W-2 | 2 | CH | 929.03 | 0.025 | 441 | 881 |
| DW-03 | W-3 | 2 | CH | 929.03 | 0.025 | 441 | 881 |

Filter Type: MCE
Filter diameter: 47mm
Effective Filter Area: $962mm^2$
Pore Size: 0.22µm

Mean Grid Square Area: $0.00940mm^2$
Grid Openings Analyzed Per Sample: 10
Area Analyzed Per Sample: $0.0940mm^2$
Non-Asbestos Debris: Non-Fibrous Debris

Notes:
NSD = No Structures Detected
BDL = Below Detectable Limit
NA = Not Applicable
CH = Chrysotile
A = Amosite
$s/cm^2$ = asbestos structures per square centimeter
Analytical results have been rounded for reporting purposes.
* Single structure detection limits are used when one or less structures are counted.
Results apply only to the items listed.

The analysis was performed according to the TEM Method (ASTM # D6480-99).
This laboratory is in compliance with the specified method.
Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

Laboratory Director: _____ Date: 10/24/24

## SUMMARY OF TEM RESULTS

### TABLE II

### Dust Sample Analysis

Project Name: Kreig Construction - 13811 NE 239th St; Battleground, WA Project

McCall and Spero Project No: MSE-O244ADVD

| MSE Lab ID | Client ID | # of Asb. Struc. | Asb. Type | Area Sampled ($cm^2$) | Fraction Filtered | Calculated Analytical Sensitivity ($s/cm^2$) | Conc. ($s/cm^2$) |
|---|---|---|---|---|---|---|---|
| BL-04 | Lab Blank | NSD | NA | NA | 1.000 | NA | NA |

Filter Type: MCE
Filter diameter: 47mm
Effective Filter Area: 962$mm^2$
Pore Size: 0.22µm

Mean Grid Square Area: 0.00940$mm^2$
Grid Openings Analyzed Per Sample: 10
Area Analyzed Per Sample: 0.0940$mm^2$
Non-Asbestos Debris: Non-Fibrous Debris

Notes:
NSD = No Structures Detected
NA = Not Applicable
BDL = Below Detectable Limit
CH = Chrysotile
A = Amosite
$s/cm^2$ = asbestos structures per square centimeter
Analytical results have been rounded for reporting purposes.
* Single structure detection limits are used when one or less structures are counted.
Results apply only to the items listed.

The analysis was performed according to the TEM Method (ASTM # D6480-99).
This laboratory is in compliance with the specified method.
Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

Laboratory Director: _____ Date: 10/24/24

## DUST WIPE TEM SAMPLE ANALYSIS

MSE Project Number : MSE-O244ADVD
Client I.D. Number: W-1
Location: Top Of Fridge

MSE Lab I.D : DW-01
Date Received: October 24, 2024
Area Sampled (cm²): 929.03

## SAMPLING AND ANALYSIS PARAMETERS

Prep. Technique: ASTM - D6480-99
Filter Type: MCE
Filter Diameter: 47mm
Grid Openings Analyzed: 10
Grids Analyzed: 2
Analyst: SDL

Fraction Filtered : 0.025
Effective Filter Area: 962mm²
Magnification: 18,000
Mean Grid Square Area: 9400µm²
Instrument Serial No: D1002
Date Analyzed: October 24, 2024

## COUNT SHEET SUMMARY

| Grid Square | No. Structures | Structure Type* | | Structure Size | | SAED Pattern | EDS Spectra |
|---|---|---|---|---|---|---|---|
| | | Chrysotile | Amphibole | 0.5-5.0µm | >5.0µm | | |
| 1 | NSD | 0 | 0 | 0 | 0 | — | — |
| 2 | NSD | 0 | 0 | 0 | 0 | — | — |
| 3 | 2 | 1M,1F | 0 | 2 | 0 | 2 | — |
| 4 | NSD | 0 | 0 | 0 | 0 | — | — |
| 5 | 1 | 1F | 0 | 1 | 0 | 1 | — |
| 6 | 1 | 1F | 0 | 1 | 0 | 1 | — |
| 7 | NSD | 0 | 0 | 0 | 0 | — | — |
| 8 | 1 | 1B | 0 | 0 | 1 | 1 | — |
| 9 | NSD | 0 | 0 | 0 | 0 | — | — |
| 10 | 1 | 1M | 0 | 1 | 0 | 1 | — |
| Totals | 6 | 2M,3F,1B | 0 | 5 | 1 | 6 | — |

Notes:
F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry

1.0. Number of Asbestos Structures: 6

1.1. Chrysotile: 6

1.2. Amphibole: No Structures Detected Type: Not Applicable

2.0. Area of Filter Analyzed: 0.09400mm²

3.0. Analytical Sensitivity (s/cm²): 441

4.0. Total Asbestos Structures (s/cm²): 2,644

## DUST WIPE TEM SAMPLE ANALYSIS

MSE Project Number : MSE-O244ADVD
Client I.D. Number: W-2
Location: Fireplace Mantle

MSE Lab I.D : DW-02
Date Received: October 24, 2024
Area Sampled (cm²): 929.03

## SAMPLING AND ANALYSIS PARAMETERS

Prep. Technique: ASTM - D6480-99
Filter Type: MCE
Filter Diameter: 47mm
Grid Openings Analyzed: 10
Grids Analyzed: 2
Analyst: SDL

Fraction Filtered : 0.025
Effective Filter Area: 962mm²
Magnification: 18,000
Mean Grid Square Area: 9400µm²
Instrument Serial No: D1002
Date Analyzed: October 24, 2024

## COUNT SHEET SUMMARY

| Grid Square | No. Structures | Structure Type* | | Structure Size | | SAED Pattern | EDS Spectra |
|---|---|---|---|---|---|---|---|
| | | Chrysotile | Amphibole | 0.5-5.0µm | >5.0µm | | |
| 1 | NSD | 0 | 0 | 0 | 0 | — | — |
| 2 | NSD | 0 | 0 | 0 | 0 | — | — |
| 3 | 1 | 1F | 0 | 1 | 0 | 1 | — |
| 4 | NSD | 0 | 0 | 0 | 0 | — | — |
| 5 | NSD | 0 | 0 | 0 | 0 | — | — |
| 6 | NSD | 0 | 0 | 0 | 0 | — | — |
| 7 | 1 | 1F | 0 | 1 | 0 | 1 | — |
| 8 | NSD | 0 | 0 | 0 | 0 | — | — |
| 9 | NSD | 0 | 0 | 0 | 0 | — | — |
| 10 | NSD | 0 | 0 | 0 | 0 | — | — |
| Totals | 2 | 2F | 0 | 2 | 0 | 2 | — |

Notes:
F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry

1.0. Number of Asbestos Structures: 2

1.1. Chrysotile: 2

1.2. Amphibole: No Structures Detected Type: Not Applicable

2.0. Area of Filter Analyzed: 0.09400mm²

3.0. Analytical Sensitivity (s/cm²): 441

4.0. Total Asbestos Structures (s/cm²): 881

## DUST WIPE TEM SAMPLE ANALYSIS

MSE Project Number : MSE-O244ADVD
Client I.D. Number: W-3
Location: SE Corner Countertop In Office

MSE Lab I.D : DW-03
Date Received: October 24, 2024
Area Sampled (cm²): 929.03

## SAMPLING AND ANALYSIS PARAMETERS

Prep. Technique: ASTM - D6480-99
Filter Type: MCE
Filter Diameter: 47mm
Grid Openings Analyzed: 10
Grids Analyzed: 2
Analyst: SDL

Fraction Filtered: 0.025
Effective Filter Area: 962mm²
Magnification: 18,000
Mean Grid Square Area: 9400µm²
Instrument Serial No: D1002
Date Analyzed: October 24, 2024

## COUNT SHEET SUMMARY

| Grid Square | No. Structures | Structure Type* | | Structure Size | | SAED Pattern | EDS Spectra |
|---|---|---|---|---|---|---|---|
| | | Chrysotile | Amphibole | 0.5-5.0µm | >5.0µm | | |
| 1 | 1 | 1M | 0 | 1 | 0 | 1 | — |
| 2 | NSD | 0 | 0 | 0 | 0 | — | — |
| 3 | NSD | 0 | 0 | 0 | 0 | — | — |
| 4 | NSD | 0 | 0 | 0 | 0 | — | — |
| 5 | NSD | 0 | 0 | 0 | 0 | — | — |
| 6 | NSD | 0 | 0 | 0 | 0 | — | — |
| 7 | 1 | 1B | 0 | 1 | 0 | 1 | — |
| 8 | NSD | 0 | 0 | 0 | 0 | — | — |
| 9 | NSD | 0 | 0 | 0 | 0 | — | — |
| 10 | NSD | 0 | 0 | 0 | 0 | — | — |
| Totals | 2 | 1M,1B | 0 | 2 | 0 | 2 | — |

Notes:
F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry

1.0. Number of Asbestos Structures: 2

1.1. Chrysotile: 2

1.2. Amphibole: No Structures Detected Type: Not Applicable

2.0. Area of Filter Analyzed: 0.09400mm²

3.0. Analytical Sensitivity (s/cm²): 441

4.0. Total Asbestos Structures (s/cm²): 881

**McCall and Spero Environmental, Inc.**
Specialists in Microanalysis

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Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136
E-mail: customerservice@mselabs.com • Website: www.mselabs.com

# DUST SAMPLE CHAIN OF CUSTODY FORM

**Company:** Advantage Environmental **Telephone #** 360-839-0370 **Fax #:**
**Contact:** Sid Carter **Client Project Number:**
**Relinquished by:** Steve Strickland **Date:** 10/23/24 **Time:** 1215
**Written Report To:** Sid.Carter@advantage-enviro.com
**Project Name:** Kreig Construction - 13811 NE 239th St, Battleground, WA
**Analysis Requested (Circle One);** Dust MicroVac (ASTM D5755-02) or Dust Wipe (ASTM Method D 6480-99)
**Turn-Around (Circle One):** Same Day 24 Hour 2-3 Day 4-5 Day Weekend Rush After Hour Rush

*For Laboratory Use Only*

**MSE Project #** 0244AOVD
**Samples Received by:** [signature] **Date:** 10/24/24 **Time:** 1000

| Client Sample Number | Location | Area Sample (Example 4"x4") | Sampled By |
|---|---|---|---|
| W-1 | Top of fridge | 1sqft | Steve S. |
| W-2 | Fireplace mantle | ↓ | ↓ |
| W-3 | SE corner countertop in office | | |
| | | | |
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Results Transmitted/Date: _____ Fax/Phone By: _____

APPENDIX B
AHERA Building Inspector
Certification

# THE ASBESTOS INSTITUTE

*Certifies that*

# Stephen Strickland

has attended and received instruction in the EPA approved course

## AHERA Building Inspector Refresher

on

## December 07, 2023

and successfully completed and passed the competency exam.

Certificate:
ON-4644-11135-120723

Date of Examination:
7-Dec-2023

Date of Expiration:
07-Dec-2024

William T. Cavness
Director

Approved Instructor

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

*The person receiving this certificate has completed the requisite training for asbestos accreditation under TSCA Title II.*