ASBESTOS NORTHWEST
30620 Pacific Hwy S Suite 103 Federal Way, WA 98003
Tel: 253 941 4343 Fax: 253 941 4175

Asbestos Northwest, LLC - Survey Report

30620 Pacific Hwy S, #103, Federal Way, WA 98003
253.941.4343

Survey Location: **30601 1st Pl SW Federal Way WA**

Prepared for: City of Federal Way Code Enforcement

Date: March 22nd 2023

Asbestos Northwest Batch Number: 202311066

Inspector: Sean Butler (#18-5050)

E-mail: seanb@asbestosnw.com

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Contents

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1. Background Information and Scope of Work

On March 22nd 2023 Asbestos Northwest, LLC conducted an AHERA survey of the single-family residence located at 30601 1st Pl SW in Federal Way WA. AHERA-certified building inspector Sean Butler (#18-5050) conducted the survey to determine the presence of Asbestos Containing Materials (ACM's) prior to the demolition of the building after damage from a fire.

The home had contained a large amount of personal property and most of this was still in place, somewhat restricting access to the bathroom and one of the bedrooms. The fire appeared to have started in the living room and kitchen area resulting in extensive damage to this portion of the building. Smoke damage was present throughout the rest of the interior, and utilities had been disconnected.

The home had three bedrooms and a single bathroom all located at one end of the building, with common areas located on the other side. The overall layout of the building appeared to be conventional and largely unaltered. A carport was in place under the same roofline of the home, but there was no garage and no significant outbuildings on the property.

The home had undergone some alterations during its life, largely limited to changes in flooring materials. There was no clear distinction between different eras of work or types of materials in use. For the purposes of this inspection the building was considered to be a single homogenous area. Samples were taken from the interior and exterior of the buildings. All areas of the building were accessible to the inspector with the exception of the garage conversion. See the attached layout drawing with sample locations in Appendix B.

Materials were located and sampled following AHERA protocol in 40 CFR 763.86, then analyzed in-house at Asbestos Northwest per 40 CFR 763.86. See section 3 for detailed sampling information.

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2. Main Building Description

County records indicate that the building was originally constructed in 1961 and had a total finished area of roughly 800ft^2 over a single floor. It had three bedrooms and a single bathroom in a conventional layout, with a carport adjacent to the living room. It had suffered extensive damage from a fire, and appeared to have been unmaintained prior to the fire. The building will be demolished.

Structural System

The building was of wood-framed construction, on a concrete foundation with a crawl space below. The overall structure was likely unaltered from new.

Finishing Materials

The interior walls and most ceilings were finished drywall, which had been burned away in the living room and kitchen area. The home lacked popcorn ceilings and other heavy texture materials. Flooring appeared to have been mostly a mix of carpet and wood laminate, with vinyl in the bathroom and kitchen areas.

Mechanical system

The home had a forced air heating system with the furnace located in a hall closet and air supplied through metal ducting run below the floors. No suspect wrap or tape materials were encountered. A stove was stove was also located in the living room.

Electrical system

The electrical system was disabled at the time of the inspection. Visible wiring was rubber insulated. The electrical panel contained breakers and had no suspect backing materials visible.

Insulation

The home had wood fiber insulation in place. No vermiculite or other suspect insulation materials were encountered during the inspection process.

Roofing

The home had an asphalt shingle roof with a tar paper vapor barrier.

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3. Material Sampling Information

Asbestos survey work performed by Asbestos Northwest meets inspection regulatory requirements enforced by federal, state, and local agencies, including Asbestos Hazard Emergency Response Act (AHERA), WAC 296-62-077 (WISHA) and 40 CFR Part 61 (NESHAP) and 29 CFR Part 1926.1101 (OSHA)

Definitions

Homogenous – Materials with the same appearance, texture, color, and which were applied during the same general construction period.

Surfacing Material – Material that has been sprayed-on, troweled-on or otherwise applied to surfaces, such as acoustical plaster, texture and joint compound, and fireproofing materials on structural members.

Thermal System Insulation – Material applied to pipes, fittings, boilers, breaching, ducts, and other interior structural components to prevent heat loss or gain.

Miscellaneous Material – Building materials such as structural components, structural members or fixtures not included in surfacing and thermal insulation.

Survey Methodology

Before sampling began, inspectors documented the total surveyed area. A sketch of each space was created, and total square footage was roughly measured. The inspectors then determined the extent of each visible homogenous material throughout the survey area.

Materials were classified as surfacing, thermal insulation, or miscellaneous material, and friability was assessed according to AHERA specifications.

Materials were sampled according to 40 CFR 763.86. Depending on homogeneity, square footage, and material type, the proper number of samples needed to accurately assess the location and extent of asbestos was determined and collected. At the point of collection, samples were placed in an appropriate container and labeled. Location was noted on the building floor plan, and a description of the material was recorded with the label number.

Sampling tools were then wiped clean to prevent contamination between samples. Any suspect debris was sealed. The samples were then counted, and their label numbers were recorded on a chain of custody form. The inspector then signed and released the form to the laboratory with the samples. Samples were analyzed in-house at Asbestos Northwest.

Below is a list of all materials sampled. Appendix C contains the laboratory report and analytical results for each sample.

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Description	Material Type	Sample Numbers and Locations
Joint Compound Asbestos Containing	**Friable Surfacing Material**	**1- Back Corner Bedroom Wall 3- Front Corner Bedroom Wall 5- Bathroom Wall 8- Living Room Wall**
Texture Asbestos Containing	**Friable Surfacing Material**	**2- Back Corner Bedroom Wall 4- Front Corner Bedroom Wall 6- Bathroom Wall**
White Sheet Vinyl	Non-Friable Miscellaneous Material	7- Bathroom Floor
Texture	Friable Surfacing Material	9- Living Room Wall
White Vinyl Tile and Mastic	Non-Friable Miscellaneous Material	10- Kitchen Floor
Asphaltic Shingle and Tar Paper	Non-Friable Miscellaneous Material	11- Roof
Tar Paper	Non-Friable Miscellaneous Material	12- Under Siding
Brown Fibrous Insulation	Friable Miscellaneous Material	13- Attic

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4. Asbestos Containing Material

A homogenous material is considered ACM (Asbestos Containing Material) if one or more samples of the material are found to have greater than 1% asbestos. Analysis can result in both positive and negative conclusions in materials containing less than 10% asbestos, or materials that have very fine asbestos fibers, have been hand mixed, or have asbestos fibers tightly bound in the matrix; therefore, EPA recommends a minimum of three samples be analyzed by PLM for these types of materials. All materials that were sampled during the inspection were analyzed under PLM, EPA Method 600/R-93/116.

Laboratory results show that seven of the samples taken contained asbestos.

Description and Asbestos Type	Material Type and Estimated Quantity	Locations
Joint Compound **2% Chrysotile Asbestos**	Friable Surfacing Material See Conclusions	**1- Back Corner Bedroom Wall** **3- Front Corner Bedroom Wall** **5- Bathroom Wall** **8- Living Room Wall**
Texture **2% Chrysotile Asbestos**	Friable Surfacing Material See Conclusions	**2- Back Corner Bedroom Wall** **4- Front Corner Bedroom Wall** **6- Bathroom Wall**

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5. Conclusions

All four samples of joint compound taken from within the home were found to contain asbestos. These samples came from throughout the home. All joint compound within the home should be treated as asbestos containing.

Four of the five samples of texture taken from within the home were found to contain asbestos. These samples came from throughout the home. One sample of texture was asbestos free, this came from the living room area which was badly damaged by the fire. All texture within the home should be treated as asbestos containing.

None of the other materials sampled during the inspection process were found to contain asbestos. Materials in use within the building were generally simple and were consistent with a residential structure. The home lacked some of the materials seen in older homes, such as suspect window glazing putty materials, or suspect insulation products. Fire damage and personal property within the building did somewhat limit access to the interior.

Further materials may be identified during the demolition process that would warrant testing.

Any identified asbestos containing material must be abated before demolition can continue. A Certified Asbestos Abatement Contractor must carry out abatement.

Different materials require different abatement processes depending on the friability, type of asbestos, and amount of asbestos present. It is important that materials are treated by a Certified Asbestos Abatement Contractor.

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Appendix A – Certifications

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ilac-MRA

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200993-0

Asbestos Northwest, LLC
Federal Way, 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).

2022-04-01 through 2023-03-31
Effective Dates

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

For the National Voluntary Laboratory Accreditation Program

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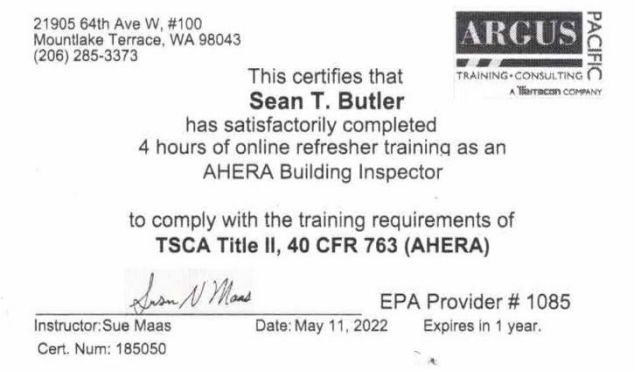

21905 64th Ave W, #100
Mountlake Terrace, WA 98043
(206) 285-3373

ARGUS PACIFIC
TRAINING • CONSULTING
A Terracon company

This certifies that
Sean T. Butler
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

Instructor: Sue Maas Date: May 11, 2022 Expires in 1 year.

Cert. Num: 185050

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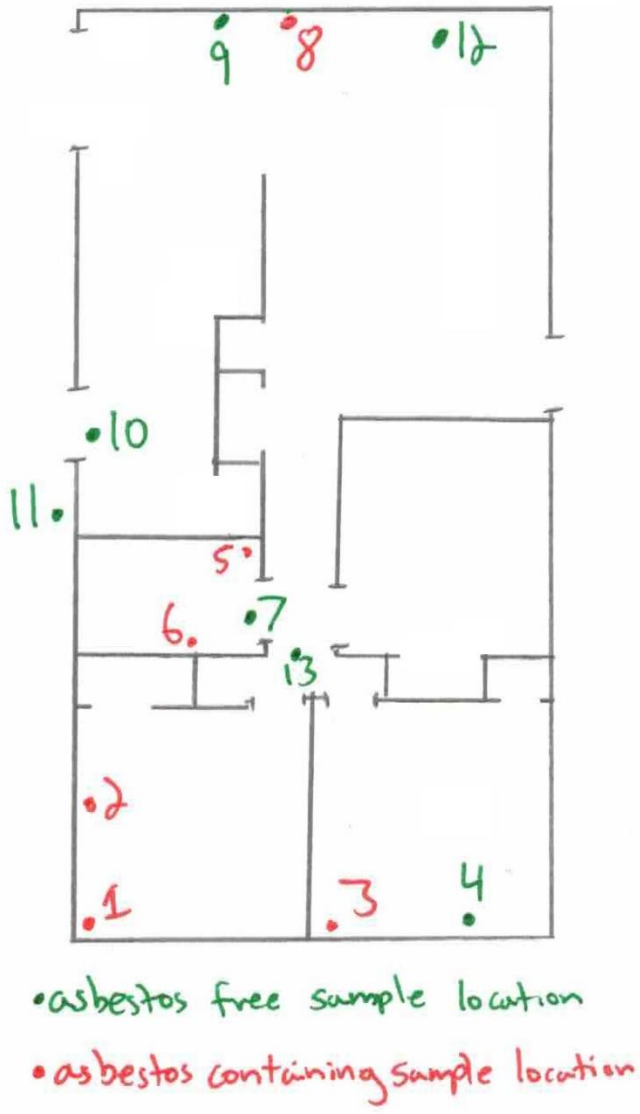
Appendix B – Building Layout



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Living Room

Kitchen

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Back Corner Bedroom

Front Middle Bedroom

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Appendix C – Laboratory Report

ASBESTOS NORTHWEST
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(253) 941-4343 NVLAP Lab Code: 200993-0

Asbestos NW Batch# 202311066

Bulk Samples Chain of Custody (EPA 600/R-93/116)

Name/Company: City of Federal Way Code Enforcement
Address: 33325 8th Ave S Federal Way WA 98023
Project Manager: Christina Dunlap
Project Location: 30601 1st Pl SW Federal Way WA 98023

Date: 3/22/2023
Phone: 253 835 2617
E-mail: Christina.Dunlap@cityoffederalway.com
Project #
Number of Samples: 13
Turn around time: 72

#	Sample ID	Description	Location/Comments
1	1	Joint Compound	Back Corner Bedroom Wall
2	2	Texture	Back Corner Bedroom Wall
3	3	Joint Compound	Front Corner Bedroom Wall
4	4	Texture	Front Corner Bedroom Wall
5	5	Joint Compound	Bathroom Wall
6	6	Texture	Bathroom Wall
7	7	White Sheet Vinyl	Bathroom Floor
8	8	Joint Compound	Living Room Wall
9	9	Texture	Living Room Wall
10	10	White Vinyl Tile	Kitchen Floor
11	11	Asphaltic Shingle and Tar Paper	Roof
12	12	Tar Paper	Under Siding
13	13	Brown Fibrous Insulation	Attic
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	Print	Sign	Company	Date	Time
Sampled by:	Sean Butler		Asbestos Northwest	3/22/2023	1:00PM
Relinquished by:					
Delivered by:	Sean Butler		Asbestos Northwest	3/22/2023	2:00PM
Accepted by:	Dan Lafley		Asbestos Northwest	3/22/2023	2:00PM
Analyzed by:	Cathy Butler		Asbestos Northwest	3.23.23	

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Ph: (253) 941-4343

NVLAP TESTING
NVLAP LAB CODE 200993-0

Batch Number: 202311066

PLM Analysis by EPA Method 600/M4-82-020 and 600/R-93/116

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Attn: Christina Dunlap
City of Federal Way Code Enforcement
33325 8th Ave S Federal Way WA 98023

Date Received: 3/22/2023
Date Analyzed: 3/23/2022
Samples Received: 13
Samples Analyzed: 13

Location: 30601 1st Pl SW Federal Way WA 98023

Client Sample ID	Lab Sample ID	Layer	Description	Matrix	% Non-Asbestos Fibers	% Asbestos Fibers and Type
1		1	Tan powdery material with charred paint and paper	Binder/filler, Paint	10% Cellulose	**2% Chrysotile**
		2	White chalky material with paper	Filler/binder, Gypsum	25% Cellulose, Glass fibers	**None Detected**
2		1	Tan powdery material with charred paint	Binder/filler, Paint	2% Cellulose	**2% Chrysotile**
		2	White chalky material with paper	Filler/binder, Gypsum	25% Cellulose, Glass fibers	**None Detected**
3		1	Tan powdery material with paint and paper	Binder/filler, Paint	10% Cellulose	**2% Chrysotile**
		2	White chalky material with paper	Filler/binder, Gypsum	25% Cellulose, Glass fibers	**None Detected**
4		1	White chalky material with paint and paper	Filler/binder, Gypsum, Paint	25% Cellulose, Glass fibers	**None Detected**
5		1	Tan powdery material with paint and paper	Binder/filler, Paint	10% Cellulose	**2% Chrysotile**
		2	White chalky material with paper	Filler/binder, Gypsum	25% Cellulose, Glass fibers	**None Detected**
6		1	Tan powdery material with paint and paper	Binder/filler, Paint	10% Cellulose	**2% Chrysotile**
		2	White chalky material with paper	Filler/binder, Gypsum	25% Cellulose, Glass fibers	**None Detected**
7		1	Gray/green sheet vinyl	Vinyl/binder	None Detected	**None Detected**
		2	Black fibrous material with mastic	Filler, Mastic/binder	75% Cellulose, Synthetic fibers	**None Detected**

Analyzed by: Cathy Butler Cathy Butler

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Date Received: 3/22/2023
Date Analyzed: 3/23/2022
Samples Received: 13
Samples Analyzed: 13

Location: 30601 1st Pl SW Federal Way WA 98023

Client Sample ID	Lab Sample ID	Layer	Description	Matrix	% Non-Asbestos Fibers	% Asbestos Fibers and Type
8		1	Tan powdery material with charred paint and charred paper	Binder/filler, Paint	10% Cellulose	**2% Chrysotile**
9		1	White chalky material with charred paint and paper	Filler/binder, Gypsum, Paint	25% Cellulose, Glass fibers	**None Detected**
10		1	Off white tile	Vinyl/binder, Mineral grains	1% Cellulose	**None Detected**
		2	Yellow mastic	Mastic/binder	2% Cellulose	**None Detected**
11		1	Black asphaltic material with sand	Asphalt/binder, Sand	40% Cellulose, Glass fibers, Polyethylene	**None Detected**
		2	Black asphaltic fibrous material	Asphalt/binder	80% Cellulose, Glass Fibers	**None Detected**
12		1	Black asphaltic fibrous material	Asphalt/binder	80% Cellulose, Glass Fibers	**None Detected**
13		1	Brown fibrous material	Wood Aggregates	None Detected	**None Detected**

Analyzed by: Cathy Butler Cathy Butler