Summarized Inspection and Assessment Results

- PACM Insulation wiring in Electrical base board heaters
- PACM. electrical wiring, gaskets and insulation pads associated with mechanical equipment
- PACM floor tile, sheet-vinyl and mastic unless indicated
- PACM 12"x12" ceiling tiles and 2'x4' drop ceiling tile
- PACM pipe insulation and mechanical components in walls and ceiling cavities (Chases abated by Homeworks) 10th floor janitor room has ACM on pipe fittings
- PACM undercoating on Unit sinks if coated
- PACM Consider all drywall/joint compound asbestos <1%
- PACM Elevator brakes and elevator door lining
- PACM roofing material and vent seal
- Storage room in community PACM floor tile

Note: Please be aware that even though L&I doe's not consider results <1% to constitute an asbestos project. WISHA's work practices requirements as given in WAC 296-62-17712(2) particularly use of wet, non aggressive methods and prompt clean up. Vacuums used must be HEPA filtered. Workers training must include asbestos awareness and hands on training as given in WAC 296-62-07755(5). Respiratory protection must be based on overall dust levels. A competent person must be assigned and trained under the requirements of WAC 296-62-07728.

035- University House Unit Floor Abatement

Please Call Hazmat @ (206) 770-6745 for current list.
Note - All units abated may still have asbestos flooring under the cabinets.

Common Area Floor Abatement

- Common Laundry Room
- Common Rest Rooms
- 1st floor hallway and lobby
- Community Room's and Kitchen

<u>Note:</u> The possibility exists that additional ACMs may be present in wall and ceiling cavities. Any previously unidentified material encountered during construction activities should be sampled prior to impact. Work that may impact asbestos should only be performed by personnel having proper training and utilizing proper worker protection according to WISHA standards.

Report prepared by:	Report reviewed by:
Terry Fyre	Lorrie lord Sarrie Land
AHERA Building Inspector #143697 (Exp. 9-4-	14) AHERA Building Inspector #142772 (Exp. 6/19/14)
Seattle Housing Authority, 810 MLK	Jr. Way South, Seattle, WA 98144 (206) 770-6745

Definitions:

1.0 SCOPE OF WORK

Limited Good Faith Asbestos Survey University House

A limited investigative survey for asbestos-containing materials (ACM) was conducted at <u>University House</u> high-rise apartment building located at <u>4700 12th Ave NE</u>, <u>Seattle, WA 98105.</u>

The purpose of this inspection was to identify asbestos containing materials that would be impacted by Seattle Housing Authority staff for operations repairs, routine maintenance, remodeling, renovation or demolition and for outside construction contractor's.

This inspection was performed by Terry Fyre, an EPA AHERA Certified Building Inspector (Cert # 113444, expires September 13, 2012) and Vincent Scott (Cert # 112478, expires July 5, 2012). Sampling was performed in selected accessible areas in common areas spaces and units. Inaccessible areas are defined as those requiring demolition such as chases in wall and ceiling cavities, fall protection or confined space entry protocol to gain access.

The asbestos survey section is written to comply with the AHERA asbestos sampling procedures as stated in 40 CFR 763.86. This protocol is required under the Puget Sound Clean Air Agency (PSCAA Regulation III, Article IV, rev. July 13, 2000) for all asbestos surveys prior to a building demolition.

The asbestos survey also satisfies the "good faith" asbestos inspection requirements as stated in Washington Administrative Code (WAC 296-62-077221(2), "identification"). As stated in this regulation, the owner of a structure scheduled to be renovated/demolished must provide a contractor with a written report of the Asbestos-Containing Materials to be disturbed during renovation/demolition.

The National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR Part 61 requires a survey by an accredited asbestos inspector prior to demolition of a structure.

Definitions:

2.0 SURVEY METHOD

Asbestos Survey Method

A walk-through inspection of all accessible areas of this structure was performed to identify potential asbestos-containing materials. The walk-through inspection included a review of the internal and external aspects of this structure. Prior to walk-through inspection, all asbestos sampling results and abatement records available were reviewed and noted.

Suspected asbestos-containing material was either tested or presumed to be asbestos –containing material. All samples, if taken, were given a unique identification number with sample location and description.

Homogeneous Materials

Homogeneous materials are defined as an area of asbestos-containing material or presumed asbestos-containing material which appears similar throughout in terms of color, texture, and date of material application. The report listing for homogenous materials will appear as follows:

Sample No.	Sample Location	Type of Material	Lab Description In Layers	Asbestos %	Amt.	Friable

Under OSHA Guidelines, a minimum of three negative analyses of a single suspect homogeneous material are required to prove a negative result for surfacing materials and thermal system insulation.

Definitions:

3.0 LABORATORY INFORMATION

Laboratory Analysis: Asbestos

Samples are analyzed in our laboratory using polarized light microscopy (PLM) with dispersion staining. If samples are not homogeneous, then sub-samples of the components are analyzed separately. All bulk samples are analyzed using EPA Method 600/R-93/116 with the following measurement uncertainties for reported % asbestos (1%=0-3%, 5%≥1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%).

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

Laboratory Accreditation

Professional accreditations for NVL Laboratories, Inc. include the following:

NVL Laboratories, Inc. is currently accredited by the National Institute of Standards and Technology (NIST) under the National Volunteer Laboratory Accreditation Program (NVLAP) program for bulk asbestos fiber analysis.

NVLAP Lab Code 102063-0

NVL Laboratories, Inc. is approved by the American Industrial Hygiene Association (AIHA) Asbestos Analysts Registry (AAR) program for airborne asbestos fiber analysis.

AAR Counter ID 7412

NVL Laboratories, Inc. is currently accredited by the American Industrial Hygiene Association (AIHA) under the Industrial Hygiene Laboratory Accreditation Program (IHLAP). The IHLAP program is designed specifically for laboratories involved in analyzing samples to evaluate workplace exposure.

IHLAP Certification Number 563

Definitions:

4.0 BUILDING DESCRIPTION 035- University House
General Building Type: Built 1971
High-rise apartment complex with <u>11</u> Stories and <u>101</u> units.
101- 1 Bedroom units. Average unit size 452 SF
Primary External Components: The exterior of the structure Brick
Type of Foundation: concrete
The roofing is made up: Built up roofing
Window Types: Vinyl
Flooring: Sheet vinyl, 12" floor tile and carpet
Water Heater: 1 st floor utility room - Gas
Heat Type: Base board and HVAC system. New HVAC system in Community kitchen storage room
Thermal Systems with Insulation Types: Locations Homeworks abated pipes in risers. 10 th floor Janitor has ACM pipe fittings at ceiling above sink.
<u>Note:</u> The possibility exists that additional ACMs may be present in wall and ceiling cavities. Any previously unidentified material encountered during construction activities should be sampled prior to impact. Work that may impact asbestos should only be performed by personnel having proper training and utilizing proper worker protection according to WISHA standards.

Definitions:

ACM= Asbestos Containing Material PACM= Presumed Asbestos Containing Material UND= Undetermined TSI= Thermal System Insulation

5

2/2014

Limited Good Faith Asbestos Survey – University House

Limited Good Faith Asbestos Survey

Building Name University House Yr. Built 1971 Sq.Ft. 46,104
Building Address 4700 12th Ave NE, Seattle WA 98105 Floors 11 Units 101 Basement: No

Managers Office:

Locations: 1st floor- Flooring: Carpet; no tile under carpet Ceiling: 2'x4 drop ceiling panels

Walls: Drywall Lighting: Fluorescent Heat: Electric baseboard **PACM**

• Drywall tested <1%, use safe work practices

Social Service Office: Unit 102:

Locations: 1st floor-Flooring: Carpet, 12"x12" tile/mastic PACM, Sheet vinyl PACM

Ceiling: Concrete Walls: Drywall Lighting: Fluorescent Heat: Electric baseboard PACM

• Drywall tested <1%, use safe work practices

Community Room

Locations: 1st floor- Flooring: 12"x12" tile/mastic non-ACM Ceiling: 12"x12" glued on ceiling tiles and 2'x4' drop ceiling panels Walls: Drywall Lighting: Fluorescent Heat:

Electric baseboard PACM

Kitchen within Community Room:

New sheet vinyl/mastic flooring- non ACM

Storage room in Community room

Flooring 12"x12" tile/mastic PACM Ceiling: Concrete Walls: Drywall, New HVAC unit

• Drywall tested <1%, use safe work practices

Common Area Restrooms: Men's/Women's

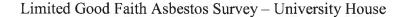
Locations: 1st floor – Flooring: Sheet vinyl non- ACM Walls/Ceiling: Drywall Lighting: Fluorescent No heat

• Drywall tested <1%, use safe work practices

Definitions:

ACM= Asbestos Containing Material PACM= Presumed Asbestos Containing Material UND= Undetermined TSI= Thermal System Insulation

2/2014 6





Locations: 1st Floor Floors: 12" floor tile/mastic and Sheet vinyl/mastic non-ACM Ceiling:

Concrete Walls: Concrete and drywall Heat: Electric baseboard Lighting: Fluorescent

• Drywall tested <1%, use safe work practices

Utility Room:

Location: 1st Floor Floor and Ceiling: Concrete Walls: Brick and Block

Hot Water Tank: Gas Fire Door: PACM Lighting: Fluorescent No Heat

Trash Rooms:

Locations: 1st floor Floor and Ceiling: Concrete Walls: concrete and block

Fire Doors: PACM Lighting: Fluorescent No heat

Janitor Room

Location: 1st Floor Floor: Concrete Ceiling: Drywall Walls: Concrete and Block

Hot Water Tank: Gas Lighting: Incandescent No Heat

Drywall tested <1%, use safe work practices

Hallway/Lobby

Locations: 1st floor Floor: 12" floor tile/mastic non ACM Ceiling: 2'x4' drop ceiling panels

Walls: concrete and drywall Lighting: Fluorescent Heat: electric baseboard

Drywall tested <1%, use safe work practices

Hallway's

Locations: 2nd thru 11th floor Floor: 12" floor tile/mastic PACM Ceiling: 2'x4' drop ceiling panels Walls: drywall Lighting: Fluorescent Heat: HVAC

• Drywall tested <1%, use safe work practices

Janitor Room's

Location: 2nd thru 11th Floor Floor and Ceiling: Concrete Walls: Concrete and Block

Lighting: Incandescent No Heat ACM pipe fittings in 10th floor janitor room only

Definitions:

ACM= Asbestos Containing Material PACM= Presumed Asbestos Containing Material UND= Undetermined TSI= Thermal System Insulation

2/2014 7

Maintenance Room's Location: 2 nd thru 11 th Floor - Floor, walls and ceiling: Concrete Lighting: None No Heat
Meter Room's Location: 2-4-6-8-10 Floors -Floor, walls and ceiling: Concrete Lighting: None No Heat
Fire Doors:
Locations: PACM Stairwells
Elevator Room:
Location: on Roof Walls, floors and ceiling: concrete Elevator: Doors: PACM Floors: Abated by Hazmat-No ACM
Elevator Brake Pads: PACM
Thermal System Insulation TSI Locations: Chases abated by homeworks
ACM pipe fittings in 10 th floor janitor room
sampled prior to impact. Work that may impact asbestos should only be performed by personnel having proper training and utilizing proper worker protection according to WISHA standards. <u>Units</u>
Floors: Tile: PACM Mastic: PACM (Some units abated, see attached list or call Hazmat)
Sheet-vinyl: PACM Mastic: PACM Sink undercoating: PACM
Walls/Ceiling: drywall/joint_<1% Brick Block
Lighting: Incandescent Bathroom: Ceramic tile mastic: PACM
Cove base Mastic: Heater Type: Electric baseboard PACM insulation
Inner walls: Pipe fittings abated by homeworks
Exterior: Siding: Masonry X Concrete: X
Drywall/Joint Compound: No Siding Vapor Paper <u>Undetermined</u>
Roof: Built Up: X Mastic Roof Paper/Felt PACM Vents: seal coating PACM
Definitions: ACM= Asbestos Containing Material PACM= Presumed Asbestos Containing Material
UND= Undetermined TSI= Thermal System Insulation

Asbestos Sample Results

Sample No.	Location	Material Description by layer	Asbestos	Quanity	Friable
101409TFAB01	Unit 901 Bathroom drywall/joint	Off white compact powder mat.w/paint Off white chalky mat. w/paper	2%* ND	**	1. Yes 2. No
101409TFAB02	Unit 901 Ceramic tile mastic	Clear soft material Off white ceramic tile Tan soft mastic	2%* ND ND	**	1. Yes 2. No 3. No
102908TFAB01	Unit 402 Bathroom drywall/joint	1. White compact powder mat.w/paint 2. Off white compact powder mat.w/paint 3. Off white compact powder mat.w/paper 4. Off white chalky mat. w/paper	ND 2% 2% ND	**	1. No 2. Yes 3. Yes 4. No
072009TFAB01	Unit 502 Bathroom ceiling/joint	Off white chalky mat. w/paper/paint	ND	**	No
060409TFAB01	Unit 608 Bedroom drywall/joint	Off white compact powder mat.w/paint Off white compact powder mat.w/paper Off white chalky mat. w/paper	2% 2% ND	**	1. Yes 2. Yes 3. No
012009TFAB02	Unit 610 living rom drywall/joint	Off white chalky mat. w/paper/paint	ND	**	No
070709TFAB01	Unit 801 Bathroom ceiling drywall/joint	White chalky mat. w/white/paint	ND	**	No
121108TFAB13	Unit 705 Bedroom drywall/joint	Off white compact powder mat.w/paint Off white chalky mat. w/paper	2% ND	**	1. Yes 2. No

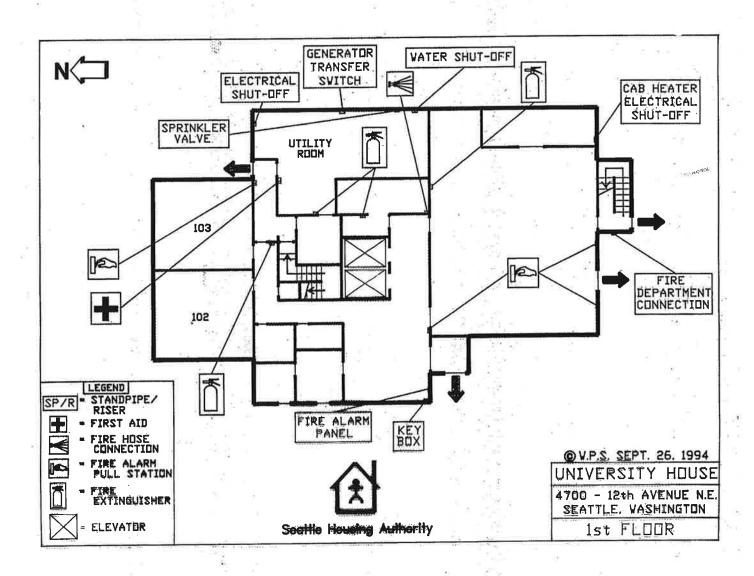
Type of asbestos present in samples identified=Chrysotile
*Composite analysis for the drywall samples were found to be less than 1% asbestos
**Quantities must be verified by asbestos abatement contractor

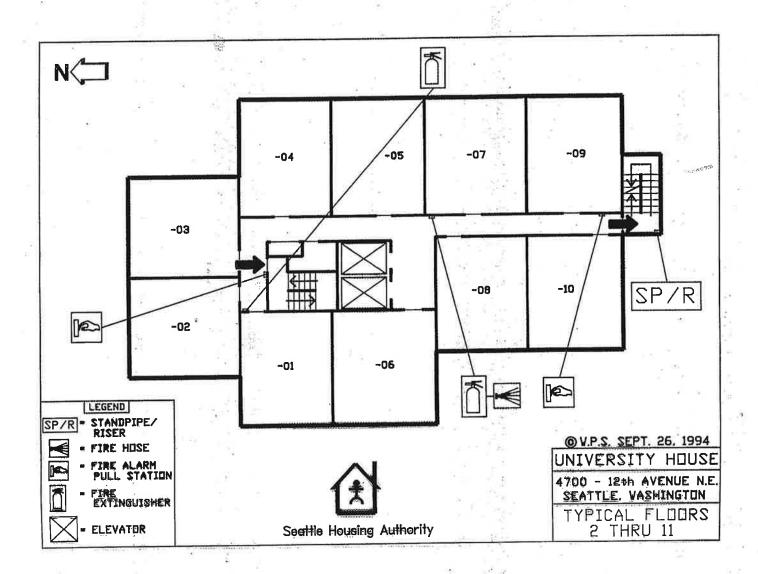
Note: Please be aware that even though L&I doe's not consider results <1% to constitute an asbestos project. WISHA's work practices requirements as given in WAC 296-62-17712(2) particularly use of wet, non aggressive methods and prompt clean up. Vacuums used must be HEPA filtered. Workers training must include asbestos awareness and hands on training as given in WAC 296-62-07755(5). Respiratory protection must be based on overall dust levels. A competent person must be assigned and trained under the requirements of WAC 296-62-07728.

Definitions:

ACM= Asbestos Containing Material PACM= Presumed Asbestos Containing Material UND= Undetermined TSI= Thermal System Insulation

2/2014 9





December 12, 2008

Terry Fyre

Seattle Housing Authority
7500 Detroit Ave. SW

Seattle, WA 98126



RE: Bulk Asbestos Fiber Analysis, NVL Batch # 2815471.00

Dear Mr. Fyre,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. 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/600/R-93/116 Test Method.

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 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. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

This report is considered highly confidential and will not be released without your approval. 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,

Nick Ly, Technical Director

NVLAP Lab Code 102063-0

NVL LABORATORIES, INC 4708 AURORA AVE N SEATTLE, WA 98103.6516

& Industrial Hygiene

See alhalqap.org for details

TEL **206.547.0100**FAX 206.634.1936

nvllabs@nvllabs.com

Enc.: Sample Results



4708 Aurora Ave N, Seattle, WA 98103 Tel: 206.547.0100 Emerg.Cell: 206.914.4646

CHAIN of CUSTODY SAMPLE LOG

2815471.00

Fax: 206.634.193	6 1.888.	NVL.LAŖS (685.5	5227)			201341	1.00
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Phone	: (206) 71	6-1310 Fav	(206) 76	37_4350	Email address		
			(200) /((NIOSH 7402)	Cell: (206) 786-8	35/8	
Asbestos E	Bulk	M (EPA/600/R-9)	3/116)	PIM (FPA Poi	nt Count) PLM (EPA	TEM (EPA Level II)	Other
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A					hips in cn Cadmium (☐ Nickel (Ni) ☐ Zinc (Zn)
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Seq. # Lab II					evere damage (spillage)		
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* Composite Anneyer Sample If RESULTS AR >1000 Pour Court

4708 Aurora Ave. N., Seattle, WA 98103 Tel: 206.547.0100. Fax: 206.634.1936 www.nvllabs.com

For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Seattle Housing Authority Address: 7500 Detroit Ave. SW

Seattle, WA 98126

Attention: Mr. Terry Fyre

Project Location: 035-705 4700 12th N.E.

Batch #: 2815471.00

Client Project #: 75376 QD

Date Received: 12/11/2008

Samples Received: 1 Samples Analyzed: 1

Method: EPA/600R-93/116

Asbestos Type: %

Lab ID: 28097575 Client Sample #: 121108TFAB13

Location: 035-705 4700 12th N.E.

Comments: Composite result for whole sample is less than 1% asbestos

Laver 1 of 2 Description: Off-white compacted powdery material with paint

Asbestos Type: % Non-Fibrous Materials: Other Fibrous Materials:%

Binder/Filler, Calcareous particles, Paint None Detected ND Chrysotile

Layer 2 of 2 Description: Off-white chalky material with paper

> Non-Fibrous Materials: Other Fibrous Materials:%

> > Gypsum/Binder Cellulose 14% None Detected

Glass fibers 1%

Sampled by: Client

Analyzed by: Lyudmila Veh

Reviewed by: Nick Ly

Date: 12/12/2008

Date: 12/12/2008

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93/116 Method 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.

July 8, 2009

Terry Fyre

Seattle Housing Authority
3803 S Willow St.
Seattle, WA 98118



RE: Bulk Asbestos Fiber Analysis, NVL Batch # 2907533.00

Dear Mr. Fyre,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. 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/600/R-93/116 Test Method.

AIHA P
Environmental Lead & Industrial Hygiene See alhalqap.org for details

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 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. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

This report is considered highly confidential and will not be released without your approval. 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,

NVLAP Lab Code 102063-0

NVLLABORATORIES, INC 4708 AURORA AVE N SEATTLE, WA 58103.6516 TEL 206.547.0100 FAX 206.634.1936

nvilabs@nvilabs.com

Enc.: Sample Results

w w w . n v l l a b s . c o m 1.888.NVL.LABS (685.5227)

4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg.Cell: 206.914.4646
Eax: 206.634.1936 1.888 NVI LABS (685.5227

CHAIN of CUSTODY SAMPLE LOG

BATCH ID 2907533.00

ax: 206.634.											
CI	lient Seattle H	ousing Authority			NVL Batch Number						
Sti	reet 3803 S W	/illow St.			Client Job	Number	802094	OD			
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* Composite Analyze SAMPLE. IF RESULTS ARE >10% POINT COURT (5 DAY)
THANK YOU!

NA(VA)

4708 Aurora Ave. N., Seattle, WA 98103 Tel: 206.547.0100, Fax: 206.634.1936 www.nyllabs.com For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Seattle Housing Authority

Address: 3803 S Willow St.

Seattle, WA 98118

Batch #: 2907533.00

Client Project #: 802094 OD

Date Received: 07/07/2009

Samples Received: 1

Samples Analyzed: 1

Method: EPA/600R-93/116

Attention: Mr. Terry Fyre

Project Location: 035-801 4700 12th N.E

Lab ID: 29056383 Client Sample #: 070709TFAB01

Location: 035-801 4700 12th N.E

Layer 1 of 1 Description: White chalk

Description: White chalky material with white paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Gypsum/Binder, Paint

Cellulose 19%

None Detected ND

Glass fibers 2%

Sampled by: Client

Analyzed by: Alla Prysyazhnyuk

Reviewed by: Nick Ly

Date: 07/08/2009

Date: 07/08/2009

Nick Ey, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93/116 Method 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 1 of 1

October 14, 2009

Terry Fyre **Seattle Housing Authority** 3803 S Willow St. Seattle, WA 98118



RE: Bulk Asbestos Fiber Analysis, NVL Batch # 2912253.00

Dear Mr. Fyre,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. 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/600/R-93/116 Test Method.

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 visual estimation.

Environmental Lead & Industrial Hygiene See aihalqap.org for details

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. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

This report is considered highly confidential and will not be released without your approval. 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

Nick Ly, Technical Director

NVLAP Lab Code 102063-0

NVL LABORATORIES, INC 4708 AURORA AVE N SEATTLE. WA 98103,6516

TEL **206.547.0100**FAX 206.634.1936

nvllabs@nvllabs.com

Enc.: Sample Results

w w w . n v l l a b s . c o m 1.888.NVL.LABS (685.5227)

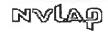
4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg.Cell: 206.914.4646
Fax: 206.634.1936 1.888.NVL.LABS (685,5227)

CHAIN of CUSTODY SAMPLE LOG

2912253.00

	attle Housing Authori	ILV	1	NVL Batch Numb	ner				
Street 90	03 S Willow St.			Client Job Number 802094 OD					
Se	attle, WA 98118			Total Sampl	177				
Project Manager Mr roject Location —	135-401	W. L		Turn Around Time 1-Hr 8-Hrs 2 Days 5 Days 2-Hrs 12-Hrs 3 Days 6-10 Day 4-Hrs 24-Hrs 4 Days Please call for TAT less than 24 Hrs					
/-				Email addre	ss tfyre@s	seattlehousing.org	nan 24 ms		
		: (206) 722		Cell: (206)					
	PCM (NIOSH 7400)			TEM (AHERA)	☐ TEM (I	EPA Level II)	Other		
Asbestos Bulk	PLM (EPA/600/R-9:				(EPA Gravi	metry) TEM BL	JLK		
☐ Mold/Fungus	☐ Mold Air ☐ Mold I	Bulk] F	Rotometer Calib	oration					
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Other Types of Analysis	☐ Fiberglass ☐ Silica	a 🗌 Nuisa	nnce Dust 🔲 R	espirable Dust 〔	☐ Other (Sp				
Condition of Pac	kage: 🗌 Good 🔲 Da	maged (no	spillage) 🗌 Se	vere damage (spi	illage)				
Seq. # Lab ID	Client Sample	e Number	Comments (e.	g Sample are, Sa	mple Volur	ne, etc)	A/R		
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*Composite Ausigne Sample #1. IF Prisers And Clop Pero Cour (5 Day)



4708 Aurora Ave. N., Seattle, WA 98103 Tel: 206.547.0100, Fax: 206.634.1936

www.nyllabs.com

For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Seattle Housing Authority

Address: 3803 S Willow St.

Seattle, WA 98118

Client Project #: 802094 OD

Batch #: 2912253.00

Date Received: 10/14/2009

Samples Received: 2

Samples Analyzed: 2 Method: EPA/600R-93/116

Asbestos Type: %

Chrysotile

Asbestos Type: %

2%

Attention: Mr. Terry Fyre

Project Location: 035-901

4700 12th Ave N.E

Lab ID: 29090773 Client Sample #: 101409TFAB01

Location: 035-901

Layer 2 of 2

Comments: Composite result for whole sample is less than 1% asbestos

Layer 1 of 2 Description: Off-white compacted powdery material with paint

Non-Fibrous Materials: Other Fibrous Materials:%

Calcareous particles, Binder/Filler, Paint None Detected

Description: Off-white chalky material with paper

Non-Fibrous Materials: Other Fibrous Materials:%

Fine particles, Gypsum/Binder, Mica Cellulose 23% None Detected

> Glass fibers 3%

Lab ID: 29090774 Client Sample #: 101409TFAB02

Location: 035-901

Layer 1 of 4 Description: Clear soft material

Non-Fibrous Materials: Other Fibrous Materials:% Asbestos Type: % None Detected

Binder/Filler None Detected ND

Layer 2 of 4 Description: Off-white ceramic tile with beige surface

> Asbestos Type: % Non-Fibrous Materials: Other Fibrous Materials:%

Fine particles, Ceramic/Binder None Detected None Detected

Layer 3 of 4 Description: Tan soft mastic

> Non-Fibrous Materials: Other Fibrous Materials:% Asbestos Type: %

Mastic/Binder None Detected ND None Detected

Layer 4 of 4 Description: Off-white compacted powdery material with paint

> Non-Fibrous Materials: Other Fibrous Materials:%

Asbestos Type: % Chrysotile 2%

Calcareous particles, Binder/Filler, Paint None Detected ND

Sampled by: Client

Analyzed by: Nadezhda Prysyazhnyuk Date: 10/14/2009

Reviewed by: Nick Ly Date: 10/14/2009 Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93/116 Method 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 1 of 1

wallboard

October 31, 2008

Terry Fyre **Seattle Housing Authority** 7500 Detroit Ave. SW Seattle, WA 98126

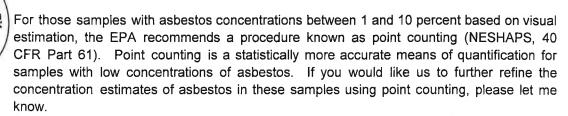


Bulk Asbestos Fiber Analysis, NVL Batch # 2813814.00

Dear Mr. Fyre,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. 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/600/R-93/116 Test Method.

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 visual estimation.



This report is considered highly confidential and will not be released without your approval. 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,

Technical Director

NVL LABORATORIES, INC. 4708 AURORA AVE N SEATTLE, WA 98103.6516

Environmental Lead & Industrial Hygiene

See alhalqap.org for details

TEL 206.547.0100 FAX 206.634,1936

nvllabs@nvllabs.com

NVLAP Lab Code 102063-0

www.nvllabs.com 1.888.NVL.LABS (685.5227)

Enc.: Sample Results

4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg.Cell: 206.914.4646
Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

BATCH ID

MO35

2813814.00

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			WA 98126			Total Sa			
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	1	100	1- N.C.			E!l	Pleas	e call for TAT less that attlehousing.org	an 24 Hrs
	Phone: (206) 510	0-9141 Fax:	: (206) 76	67-4350		06) 786-8578	attleflousing.org	
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			M (EPA/600/R-93					etry) TEM BUL	
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4708 Aurora Ave. N., Seattle, WA 98103 Tel: 206.547.0100. Fax: 206.634.1936 www.nvllabs.com

For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Seattle Housing Authority Address: 7500 Detroit Ave. SW

Seattle, WA 98126

Attention: Mr. Terry Fyre

Project Location: 035-402 4700 12th N.E.

Batch #: 2813814.00

Client Project #: 75376 OD

Date Received: 10/30/2008

Samples Received: 1 Samples Analyzed: 1

Chrysotile

Asbestos Type: %

2%

Method: EPA/600R-93/116

Client Sample #: 102908TFAB01 Lab ID: 28087759

Location: 035-402 4700 12th N.E.

Composite result for Layer 2,3 & Layer 4 equals less than 1% asbestos Comments:

Description: White compacted powdery material with paint Layer 1 of 4

Asbestos Type: % Other Fibrous Materials:% Non-Fibrous Materials:

Binder/Filler, Perlite, Paint None Detected ND None Detected ND

Layer 2 of 4 Description: Off-white compacted powdery material with paint

> Asbestos Type: % Non-Fibrous Materials: Other Fibrous Materials:%

Binder/Filler, Calcareous particles, Paint None Detected ND

Description: Off-white compacted powdery material with paper Layer 3 of 4

Asbestos Type: % Other Fibrous Materials:% Non-Fibrous Materials:

Cellulose 38% Chrysotile Binder/Filler, Calcareous particles

Description: Off-white chalky material with paper Layer 4 of 4

> Other Fibrous Materials:% Non-Fibrous Materials:

Cellulose 32% None Detected Gypsum/Binder

Glass fibers <1%

Sampled by: Client

Analyzed by: Lyudmila Veh

Reviewed by: Nick Ly

Date: 10/31/2008

Date: 10/31/2008

Nick LV

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93/116 Method 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.

July 20, 2009

Terry Fyre **Seattle Housing Authority**3803 S Willow St.

Seattle, WA 98118



RE: Bulk Asbestos Fiber Analysis, NVL Batch # 2908108.00

Dear Mr. Fyre,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. 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/600/R-93/116 Test Method.



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 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. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

This report is considered highly confidential and will not be released without your approval. 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,

Nick Ly, Technical Director

Enc.: Sample Results

NVL LABORATORIES, INC 4708 AURORA AVE N

4708 AURORA AVE N SEATTLE. WA 98103,6516

TEL **206,547.0100**FAX 206.634,1936

nvilabs@nvilabs.com

NVLAP Lab Code 102063-0

W W W . n v l l a b s . c o m 1.889.NVL.LABS (695.5227)

4708 Aurora Ave N, Seattle, WA 98103

Tel: 206.547.0100 Emerg.Cell: 206.914,4646 Fax: 206.634.1936 1.888.NVL.LABS (685,5227)

CHAIN of CUSTODY **SAMPLE LOG**



BATCHID 2908108.00

Seattle, WA 98118 roject Manager Mr. Terry Fyre roject Location						Total Samples Turn Around Time. 1-Hr 8-Hrs 2 Days 5 Days 2-Hrs 12-Hrs 3 Days 6-10 Da 2-Hrs 24-Hrs 4 Days Please call for TAT less than 24 Hrs Email address tfyre@seattlehousing.org Cell: (206) 786-8578				
	721						ERA) TEN			*(*** b
-	7	☐ Mole			PLM (EPA Point (Rotometer Calibi		PLM (EPA Gra	vimetry) L	I IEM BUL	K
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* COMPOSITE ANALYZE SAMPLE. IF RESIL'S ARE > 1% POINT COUNT (5 DAY)

June 4, 2009

Terry Fyre

Seattle Housing Authority
3803 S Willow St.
Seattle, WA 98118



RE: Bulk Asbestos Fiber Analysis, NVL Batch # 2906091.00

Dear Mr. Fyre,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. 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/600/R-93/116 Test Method.



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 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. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

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

Sincerely,

Niek Ly, Technical Director

Enc.: Sample Results

NVL LABORATORIES, INC 4708 AURORA AVE N SEATTLE, WA 98103,6516

TEL 206.547.0100

FAX 206.634.1936

nvliabs@nvllabs.com

NVLAP Lab Code 102063-0

www.nvilabs.com 1.888.NVL.LABS (665.5227)

4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg.Cell: 206.914.4646

CHAIN of CUSTODY SAMPLE LOG

8ATCH ID 2906091.00

	·								
	attle Housing Authorit	<u> </u>	NVL Batch Number						
	03 S Willow St.		Client Job Number 802094 OD						
<u>\$</u>	attle, WA 98118		Total Samples						
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roject Location 🔔	033-618		□ 2-His □ 12-His □ 3 Days □ 6-10 Day □ 4-Hrs □ 24-Hrs □ 4 Days						
4	Tec 1/2 1.	6	Please call for TAT less than 24 Hrs						
Phone: (2)	06) 722-2548 Fax:	(206) 722 924	Email address tfyre@seattlehousing.org						
1	PCM (NIOSH 7400)	(206) 722-821	The state of the s						
			CH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM BULK						
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*Convenie Anage Ganice It Results And Den Pour Court (5 Day)

MA(TVO

4708 Aurora Ave. N., Seattle, WA 98103 Tel: 206.547.0100, Fax: 206.634.1936 www.nvllabs.com For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Seattle Housing Authority

Address: 3803 S Willow St.

Seattle, WA 98118

Batch #: 2906091.00

Client Project #: 802094 OD Date Received: 06/04/2009

Samples Received: 1

Samples Analyzed: 1 Method: EPA/600R-93/116

Asbestos Type: %

Attention: Mr. Terry Fyre

Project Location: 035-608

4700 12th N.E.

Lab ID: 29047335 Client Sample #: 060409TFAB01

Location: 035-608

Comments: Composite result for whole sample is less than 1% asbestos

Layer 1 of 3 Description: Off-white compacted powdery material with paint

Non-Fibrous Materials: Other Fibrous Materials:%

Calcareous particles, Binder/Filler, Paint None Detected ND Chrysotile 2%

Layer 2 of 3 Description: Off-white compacted powdery material with paper

Calcareous particles, Binder/Filler Cellulose 40% Chrysotile 2%

Layer 3 of 3 Description: Off-white chalky material with paper

Non-Fibrous Materials: Other Fibrous Materials: Asbestos Type: %

Fine particles, Gypsum/Binder Cellulose 25% None Detected ND

Glass fibers 3%

Sampled by: Client

Analyzed by: Nadezhda Prysyazhnyuk

Reviewed by: Nick Ly

Date: 06/04/2009

Date: 06/04/2009

Nick Ly, Fechnical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93/116 Method 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.

January 21, 2009

Terry Fyre

Seattle Housing Authority
3803 S Willow St.
Seattle, WA 98118



RE: Bulk Asbestos Fiber Analysis, NVL Batch # 2900709.00

Dear Mr. Fyre,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. 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/600/R-93/116 Test Method.



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 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. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

This report is considered highly confidential and will not be released without your approval. 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,

Nick Ly, Technical Director

Enc.: Sample Results

NVLLABORATORIÉS, INC 4708 AURORA AVE N SEATTLE. WA 98103.6516

TEL **206.547.0100**FAX 206.634.1936

nvllabs@nvllabs.com

NVLAP Lab Code 102063-0

www.nvllabs.com 1.888.NVL.LABS (685,5227)

4708 Aurora Ave N, Seattle, WA 98103
Tel: 206,547.0100 Emerg.Cell: 206.914,4646
Fax: 206.634.1936 1.888.NVL,LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

2900709.00

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* COMPOSITE ANALYZE SAMPLE. IF RESULTS AND 71076 POINT COURT (3 PMgs)

Seattle, WA 98119 206.285.3373

This certifies that

Lorrie T. Lord

has satisfactorily completed 4 hours of refresher training as an

Asbestos Building Inspector

complies with TSCA Title II / 40 CFR 763 (AHERA)

Instructor
EPA Provider Cert Number 1085

Cert. Num: Class Date Expires

142772 Jun 19, 2013 Jun 19, 2014

Certificate of Completion

This is to certify that

Lorrie T. Lord

4 hours of refresher training as an has satisfactorily completed

Asbestos Building Inspector

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

142772

Certificate Number



Instructor

Jun 19, 2013

Date(s) of Training

Exam Score: NA

Expiration Date: Jun 19, 2014

Argus Pacific, Inc. • 1900 W. Nickerson, Suite 315 • Seattle, Washington • 98119 • 206.285.3373 • fax 206.285.3927



Certificate of Completion

This is to certify that

Terry A. Fyre

has satisfactorily completed 4 hours of refresher training as an

Asbestos Building Inspector

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



Instructor

EPA Provider Cert. Number: 1085

113444

Certificate Number



Sep 14, 2011

Date(s) of Training

Exam Score: NA

Expiration Date: Sep 13, 2012

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