PORT OF TACOMA
TACOMA, WASHINGTON
W. SITCUM BLDGS. 900, 700, 975, 575 AND 75 ROOF REPLACEMENTS

PROJECT NO. 201062.04
CONTRACT NO. 071126

Appendices A Part 1

Trevor Thornsley, P.E.

Director, Engineering

Elly Bulega, P.E.

Project Manager

END OF PROJECT TITLE PAGE

PROCUREMENT AND CONTRACTING REQUIREMENTS

SPECIFICATIONS

APPENDIX A

HAZARDOUS BUILDING MATERIALS INVESTIGATION REPORT

SAFE ENVIRONMENT OF AMERICA, INC. dba
MED-TOX NORTHWEST

October 23, 2018

Mr. Lee Davenport
Helix Design Group, Inc.
6021 12th Street East, Suite 201
Tacoma, Washington 98424

Subject: Port of Tacoma 8-Building Roof Replacement
Building 700 Domestic Equipment Control Building
Hazardous Building Materials Investigation
Tacoma, Washington
Med-Tox Northwest Project No. A-8772.4

Dear Lee;

Shaun Childress of Med-Tox Northwest performed a limited asbestos and hazardous building materials (HBM) survey of Port of Tacoma Building 700 Domestic Equipment Control building located at the end of 14 East 11th Street at the Port of Tacoma in Tacoma, Washington. The investigation was performed on September 17, 2018 and was limited to the roof system and roof top mechanical systems.

The purpose of the investigation was to assist the Port of Tacoma with communicating the presence and location of asbestos-containing materials (ACM) and potential lead hazards to employees and contractors working on the roof replacement project. It was also performed to meet the requirements for an asbestos survey by Puget Sound Clean Air Agency (PSCAA) and a good faith inspection as required by Washington State Department of Labor and Industries' Division of Occupational Safety and Health (DOSH) regulation Washington Administrative Code (WAC) 296-62-077 prior to renovation.

As required by WAC 296-62-077 and PSCAA Regulation III, Article 4, an Asbestos Hazard Emergency Response Act (AHERA) accredited building inspecter performed the survey. A copy of the building inspector certificate is attached to this letter report.

BUILDING INFORMATION

Building 700 is a three-story structure with approximately 5,060 square feet. Roof access is available via a building access ladder and stairwell. The roof system is a built-up roof with 5 to 6-inches of foam insulation which is applied on a wood roof substrate. Renovations will include demolition of the existing roof system and demolition of roof top heating, ventilation and air conditioning (HVAC) systems.

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ASBESTOS SURVEY

In total, 9 samples were collected of suspect asbestos-containing materials. Of the 9 samples collected, all were determined to be negative for asbestos by Polarized Light Microscopy (PLM) analysis. For a complete list of all materials sampled, please refer to the Summary of Materials Sampled for Asbestos attached to the laboratory report.

Table 1 summarizes ACM identified by homogeneous material (HM) surveyed by MTNW. Friability was determined by conditions observed during the survey and by how the material behaves during mechanical demolition.

Table 1. Summary of Asbestos-Containing Materials

Material	Location	Friable	Quantity
There were no asbestos-containing materials identified.			

Note: This table is not to be used without the complete survey document including appendices for additional information.

Bulk samples were analyzed by Polarized Light Microscopy (PLM) dispersion staining EPA Method 600/R-93/116 by Seattle Asbestos Test, Inc. (SAT). SAT is accredited through the National Voluntary Laboratory Accreditation Program (NVLAP) of the U. S. Department of Commerce. This accreditation does not constitute endorsement, but rather a finding of laboratory competence (certification copy is attached).

LEAD ASSESSMENT

HVAC units on the roof have factory applied coating on recyclable metal components; these coatings are assumed to contain lead and heavy metal content. Factory coated metal roof flashing or other metal building components are also assumed to contain lead and heavy metal content.

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SUMMARY/CONCLUSION

There were no asbestos-containing materials identified in the roofing samples collected from building 700.

MTNW recommends that this survey report be placed on-site during renovation and/or demolition and copies provided to the contractor(s) bidding and performing work. WISHA, OSHA and PSCAA require that the report be on-site and available for review during the entire project duration.

WAC 296-155-176, the Lead in Construction standard, has not defined a minimum concentration for regulating lead and has clarified that lead at any detectable concentration shall be considered regulated (WAC 296-155-176, Lead). Med-Tox Northwest recommends the contractor performing demolition of the HVAC units provide a written lead compliance plan and implement the requirements of WAC 296-155-176 for any work disturbing painted surfaces.

If you have any questions or need additional information, please contact me at (253) 351-0677.

Sincerely,

Anthony Fullerton
Project Manager

Attachments

Photograph 1: Building 700.

Photograph 2: Built-up roof system. All suspect materials were determined to be negative for asbestos.

Certificate of Completion

This is to certify that

Shaun Z. Childress

has satisfactorily completed
4 hours of refresher training as an

AHERA Building Inspector

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

163731
Certificate Number

ARGUS PACIFIC
TRAINING • CONSULTING
A Terracon COMPANY

Oct 18, 2017 Expires in 1 year.
Date(s) of Training

Exam Score: N/A
If appropriate:

Instructor

ARGUS PACIFIC, INC / 1900 WEST NICKERSON ST, SUITE 315 / SEATTLE, WASHINGTON 98119 / 206.285.3373 / ARGUSPACIFIC.COM

Summary of Materials Sampled for Asbestos

Sample	Material	Location	AHERA Type	HM	Result
8772.4-SC-700-093	Built up	Upper roof, South wall, center	Miscellaneous	1	ND
8772.4-SC-700-094	Built up	Upper roof, North wall, center	Miscellaneous	1	ND
8772.4-SC-700-095	Built Up	Upper roof, West wall, center	Miscellaneous	1	ND
8772.4-SC-700-096	Torch down	Lower roof, center	Miscellaneous	2	ND
8772.4-SC-700-097	Torch down	Lower roof, Northeast corner	Miscellaneous	2	ND
8772.4-SC-700-098	Torch down	Lower roof, Southeast corner	Miscellaneous	2	ND
8772.4-SC-700-099	Gray seam sealant	Lower roof, East wall, center	Miscellaneous	3	ND
8772.4-SC-700-100	Gray seam sealant	Upper roof, Northeast corner	Miscellaneous	3	ND
8772.4-SC-700-101	Gray seam sealant	Upper roof, Southeast corner	Miscellaneous	3	ND

HM = homogeneous material, ND = none detected.

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200768-0

Seattle Asbestos Test, LLC

Lynnwood, 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 17025:2005. 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).

2018-10-01 through 2019-09-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

SEATTLE ASBESTOS TEST, LLC
19711 Scriber Lake Rd. Suite D, Lynnwood, WA 98036
Tel: (425) 673-9850, Fax: (425) 673-9810 Website: seattleasbestostest.com

BATCH # 20181276 3

CHAIN OF CUSTODY

Analysis Type: Bulk Analysis _X_ Point Count 400 ___ Point Count 1000 ___ Point Count Gravimetric

Turn Around Time ___STD_____ Number of Samples___9___ Client Job #_8772.4_____

Client Name ____Med-Tox Northwest_____

Address _Post Office Box 1446_____ City _Auburn_____ State WA_ Zip_98071-1446

Phone 253-351-0677 Fax 253-351-0688 Email ___havelockj@medtoxnw.com & childresss@medtoxnw.com

Project Location: _Port of Tacoma - building 700_____Project Manager: _Jon Havelock_____

Sample Condition: Good_____ Damaged_____ Severe Damage (Spillage) _____

SEQ#	SAMPLE ID	SAMPLE DESCRIPTION	Lab ID	Comment	A/R
1					
2		See attached			
3		data sheet			
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

	Print	Signature	Company Name	Date	Time
Sampled by	**Shaun Childress**		**Med-Tox Northwest**	9/19/18	16:00
Relinquished by	**Shaun Childress**		**Med-Tox Northwest**	9/19/18	16:00
Delivered by	FedEx				
Received by	Betsy Kong	Betsy Kong	SAT	9/20/18	10:10
Analyzed by	Eric Terry		SAT	9/26/18	13:30
Result reported by					

Seattle Asbestos Test warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted, and disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. Seattle Asbestos Test accepts no legal responsibility for the purpose for which the client uses test results. By signing on this form, the clients agree to relieve Seattle Asbestos Test of any liability that may arise from the test results. Late payment may be charged of interest, invoices goes to collection causes 17-25% of collection fee. NSF is $50.

Result Reporting method: Phone_____, Fax_____, Email___XX_, Pick Up Report_____

Table C-1. Summary of Materials Sampled for Asbestos

Sample	Material	Location	AHERA Type	HM	Result
8772.4-SC-700-093	Built up	Upper roof, South wall, center	Misc.	1	
8772.4-SC-700-094	Built up	Upper roof, North wall, center	Misc.	1	
8772.4-SC-700-095	Built Up	Upper roof, West wall, center	Misc.	1	
8772.4-SC-700-096	Torch down	Lower roof, center	Misc.	2	
8772.4-SC-700-097	Torch down	Lower roof, Northeast corner	Misc.	2	
8772.4-SC-700-098	Torch down	Lower roof, Southeast corner	Misc.	2	
8772.4-SC-700-099	Gray seam sealant	Lower roof, East wall, center	Misc.	3	
8772.4-SC-700-100	Gray seam sealant	Upper roof, Northeast corner	Misc.	3	
8772.4-SC-700-101	Gray seam sealant	Upper roof, Southeast corner	Misc.	3	

HM = homogeneous material, Misc. = miscellaneous, ND = none detected, TSI = thermal system insulation.

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

ANALYTICAL LABORATORY REPORT

PLM by Method EPA/600/R-93/116

Attn.:	Jon Havelock	**Client:**	Med-Tox, Northwest	**Address:**	PO Box 1446, Auburn, WA 98071-1446
Job#:	8772.4	**Batch#:**	201812763	**Date Received:**	9/20/2018
Samples Rec'd:	9	**Date Analyzed:**	9/26/2018	**Samples Analyzed:**	9
Project Loc.:	Port of Tacoma - Building 700				

Analyzed by: Xianjie (Eric) Zeng

Reviewed by: Steve (Fanyao) Zhang, President

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
1	8772.4-SC-700-093	1	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	3	Cellulose
		2	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		3	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	21	Glass fibers, Cellulose
		4	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		5	Yellow fibrous material		None detected	Filler	91	Glass fibers
		6	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		7	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	28	Glass fibers, Cellulose
		8	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		9	Yellow fibrous material		None detected	Filler	83	Glass fibers
		10	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		11	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	24	Glass fibers, Cellulose
		12	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		13	Yellow fibrous material		None detected	Filler	86	Glass fibers
2	8772.4-SC-700-094	1	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	3	Cellulose
		2	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		3	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	32	Glass fibers, Cellulose
		4	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		5	Yellow fibrous material		None detected	Filler	81	Glass fibers
		6	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		7	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	30	Glass fibers, Cellulose
		8	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		9	Yellow fibrous material		None detected	Filler	95	Glass fibers

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

ANALYTICAL LABORATORY REPORT

PLM by Method EPA/600/R-93/116

Attn.:	Jon Havelock	**Client:**	Med-Tox, Northwest	**Address:**	PO Box 1446, Auburn, WA 98071-1446
Job#:	8772.4	**Batch#:**	201812763	**Date Received:**	9/20/2018
Samples Rec'd:	9	**Date Analyzed:**	9/26/2018	**Samples Analyzed:**	9
Project Loc.:	Port of Tacoma - Building 700				

Analyzed by: Xianjie (Eric) Zeng

Reviewed by: Steve (Fanyao) Zhang, President

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
2	8772.4-SC-700-094	10	Black asphaltic material		**None detected**	Asphalt/binder	2	Cellulose
		11	Black asphaltic material with fibrous material		**None detected**	Asphalt/binder, Filler	28	Glass fibers, Cellulose
		12	Black asphaltic material		**None detected**	Asphalt/binder	2	Cellulose
		13	Yellow fibrous material		**None detected**	Filler	92	Glass fibers
3	8772.4-SC-700-095	1	Black asphaltic material with sand		**None detected**	Asphalt/binder, Sand	3	Cellulose
		2	Black asphaltic material		**None detected**	Asphalt/binder	2	Cellulose
		3	Black asphaltic material with fibrous material		**None detected**	Asphalt/binder, Filler	20	Glass fibers, Cellulose
		4	Black asphaltic material		**None detected**	Asphalt/binder	2	Cellulose
		5	Yellow fibrous material		**None detected**	Filler	81	Glass fibers
		6	Black asphaltic material		**None detected**	Asphalt/binder	2	Cellulose
		7	Black asphaltic material with fibrous material		**None detected**	Asphalt/binder, Filler	34	Glass fibers, Cellulose
		8	Black asphaltic material		**None detected**	Asphalt/binder	2	Cellulose
		9	Yellow fibrous material		**None detected**	Filler	83	Glass fibers
		10	Black asphaltic material		**None detected**	Asphalt/binder	2	Cellulose
		11	Black asphaltic material with fibrous material		**None detected**	Asphalt/binder, Filler	27	Glass fibers, Cellulose
		12	Black asphaltic material		**None detected**	Asphalt/binder	2	Cellulose
		13	Yellow fibrous material		**None detected**	Filler	92	Glass fibers
4	8772.4-SC-700-096	1	Black asphaltic material with sand		**None detected**	Asphalt/binder, Sand	23	Glass fibers
		2	Black asphaltic material		**None detected**	Asphalt/binder	2	Cellulose
		3	Black asphaltic material with fibrous material		**None detected**	Asphalt/binder, Filler	28	Glass fibers, Cellulose
		4	Black asphaltic material		**None detected**	Asphalt/binder	2	Cellulose
		5	Black asphaltic material		**None detected**	Asphalt/binder	2	Cellulose

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

ANALYTICAL LABORATORY REPORT

PLM by Method EPA/600/R-93/116

Attn.: Jon Havelock | Client: Med-Tox, Northwest | Address: PO Box 1446, Auburn, WA 98071-1446

Job#: 8772.4 | Batch#: 201812763 | Date Received: 9/20/2018

Samples Rec'd: 9 | Date Analyzed: 9/26/2018 | Samples Analyzed: 9

Project Loc.: Port of Tacoma - Building 700

Analyzed by: Xianjie (Eric) Zeng | Reviewed by: Steve (Fanyao) Zhang, President

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
4	8772.4-SC-700-096	6	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	20	Glass fibers, Cellulose
		7	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		8	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		9	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	35	Glass fibers, Cellulose
		10	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		11	Black asphaltic material with small sand		None detected	Asphalt/binder, Sand	10	Glass fibers
5	8772.4-SC-700-097	1	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	16	Glass fibers
		2	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		3	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	21	Glass fibers, Cellulose
		4	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
6	8772.4-SC-700-098	1	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	23	Glass fibers
		2	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		3	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	28	Glass fibers, Cellulose
		4	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		5	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		6	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	32	Glass fibers, Cellulose
		7	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		8	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		9	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	26	Glass fibers, Cellulose
		10	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

ANALYTICAL LABORATORY REPORT

PLM by Method EPA/600/R-93/116

Attn.: Jon Havelock **Client:** Med-Tox, Northwest **Address:** PO Box 1446, Auburn, WA 98071-1446

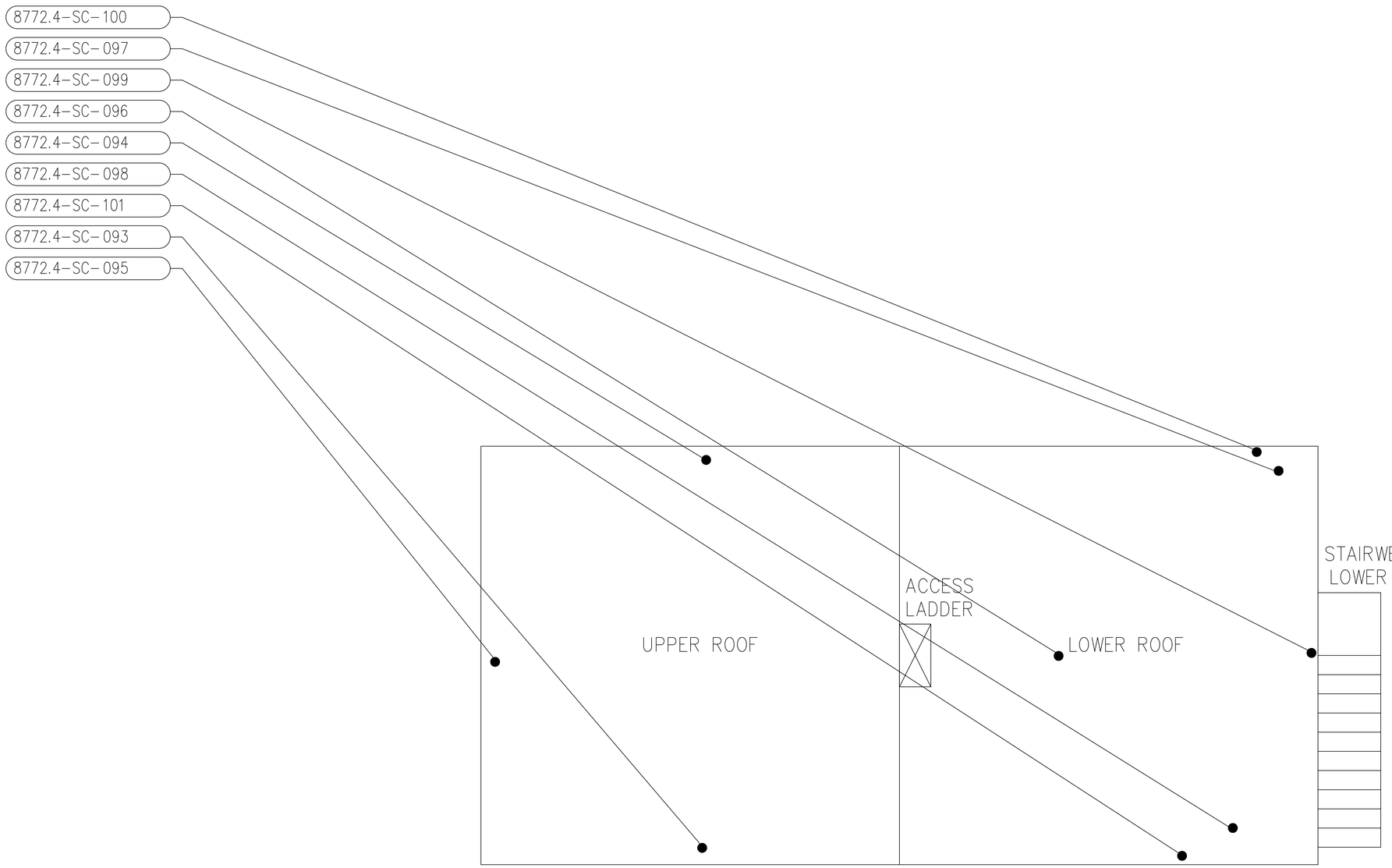
Job#: 8772.4 **Batch#:** 201812763 **Date Received:** 9/20/2018

Samples Rec'd: 9 **Date Analyzed:** 9/26/2018 **Samples Analyzed:** 9

Project Loc.: Port of Tacoma - Building 700

Analyzed by: Xianjie (Eric) Zeng Reviewed by: Steve (Fanyao) Zhang, President

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
6	8772.4-SC-700-098	11	Black asphaltic material with small sand		**None detected**	Asphalt/binder, Sand	10	Glass fibers
7	8772.4-SC-700-099	1	Gray soft/elastic material		**None detected**	Binder, Filler	3	Cellulose
8	8772.4-SC-700-100	1	Gray soft/elastic material		**None detected**	Binder, Filler	2	Cellulose
9	8772.4-SC-700-101	1	Gray soft/elastic material		**None detected**	Binder, Filler	3	Cellulose



BUILDING 700 – ROOF PLAN

SAMPLE LOCATIONS

SCALE: NTS

Symbol	Description	Date	Approved

Designed by: CHELSEA LEWIS
Dwn by: JAL
Chk by: CL
Date: 9/26/2018
File Name: A.8772.4
Plot Date:
Plot Scale: AS NOTED
Drawing Number:

MED-TOX NORTHWEST
SAFE ENVIRONMENT OF AMERICA, INC.-IBA
OCCUPATIONAL, ENVIRONMENTAL, HEALTH SERVICES
1721 WEST VALLEY HIGHWAY N., SUITE #1
AUBURN, WASHINGTON 98001
(253) 351-0677 (253) 351-0688 (FAX)

PROJECT NUMBER: A.8772.4

PROJECT: PORT OF TACOMA
CLIENT: HELIX

Sheet reference number

Sheet 1 OF 1

SAFE ENVIRONMENT OF AMERICA, INC. dba
MED-TOX NORTHWEST

October 23, 2018

Mr. Lee Davenport
Helix Design Group, Inc.
6021 12th Street East, Suite 201
Tacoma, Washington 98424

Subject: Port of Tacoma 8-Building Roof Replacement
Building 75 International Guard Station
Hazardous Building Materials Investigation
Tacoma, Washington
Med-Tox Northwest Project No. A-8772.4

Dear Lee;

Shaun Childress of Med-Tox Northwest performed a limited asbestos and hazardous building materials (HBM) survey of Port of Tacoma Building 75 International Guard Station located at the end of 1675 Lincoln Avenue at the Port of Tacoma in Tacoma, Washington. The investigation was performed on September 17, 2018 and was limited to the roof system and roof top mechanical systems.

The purpose of the investigation was to assist the Port of Tacoma with communicating the presence and location of asbestos-containing materials (ACM) and potential lead hazards to employees and contractors working on the roof replacement project. It was also performed to meet the requirements for an asbestos survey by Puget Sound Clean Air Agency (PSCAA) and a good faith inspection as required by Washington State Department of Labor and Industries' Division of Occupational Safety and Health (DOSH) regulation Washington Administrative Code (WAC) 296-62-077 prior to renovation.

As required by WAC 296-62-077 and PSCAA Regulation III, Article 4, an Asbestos Hazard Emergency Response Act (AHERA) accredited building inspecter performed the survey. A copy of the building inspector certificate is attached to this letter report.

BUILDING INFORMATION

Building 75 is a one-story structure with approximately 224 square feet. Roof access is available via extension ladder. The roof system is a built-up roof with 5 to 6-inches of foam insulation which is applied on a wood roof substrate Renovations will include removal and replacement of the existing roof system.

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ASBESTOS SURVEY

In total, 6 samples were collected of suspect asbestos-containing materials. Of the 6 samples collected, all were determined to be negative for asbestos by Polarized Light Microscopy (PLM) analysis. For a complete list of all materials sampled, please refer to the Summary of Materials Sampled for Asbestos attached to the laboratory report.

Table 1 summarizes ACM identified by homogeneous material (HM) surveyed by MTNW. Friability was determined by conditions observed during the survey and by how the material behaves during mechanical demolition.

Table 1. Summary of Asbestos-Containing Materials

Material	Location	Friable	Quantity
There were no asbestos-containing materials identified.			

Note: This table is not to be used without the complete survey document including appendices for additional information.

Bulk samples were analyzed by Polarized Light Microscopy (PLM) dispersion staining EPA Method 600/R-93/116 by Seattle Asbestos Test, Inc. (SAT). SAT is accredited through the National Voluntary Laboratory Accreditation Program (NVLAP) of the U. S. Department of Commerce. This accreditation does not constitute endorsement, but rather a finding of laboratory competence (certification copy is attached).

LEAD ASSESSMENT

Factory coated metal roof flashing and other metal building components are assumed to contain lead and heavy metal content.

SUMMARY/CONCLUSION

There were no asbestos-containing materials identified in the roofing samples collected from building 75.

MTNW recommends that this survey report be placed on-site during renovation and/or demolition and copies provided to the contractor(s) bidding and performing work. WISHA, OSHA and PSCAA require that the report be on-site and available for review during the entire project duration.

WAC 296-155-176, the Lead in Construction standard, has not defined a minimum concentration for regulating lead and has clarified that lead at any detectable concentration shall be considered regulated (WAC 296-155-176, Lead). Med-Tox Northwest recommends the contractor performing demolition of the HVAC units provide a written lead compliance plan and implement the requirements of WAC 296-155-176 for any work disturbing painted surfaces.

If you have any questions or need additional information, please contact me at (253) 351-0677.

Sincerely,

Anthony Fullerton

Anthony Fullerton
Project Manager

Attachments

Photograph 1: Building 75.

Photograph 2: Built-up roof system. All suspect materials were determined to be negative for asbestos.

Photograph 3: Built-up roof system

Certificate of Completion

This is to certify that

Shaun Z. Childress

has satisfactorily completed
4 hours of refresher training as an

AHERA Building Inspector

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

163731
Certificate Number

ARGUS PACIFIC
TRAINING • CONSULTING
A Terracon COMPANY

Oct 18, 2017 Expires in 1 year.
Date(s) of Training

Exam Score: N/A
If appropriate:

Instructor

ARGUS PACIFIC, INC / 1900 WEST NICKERSON ST, SUITE 315 / SEATTLE, WASHINGTON 98119 / 206.285.3373 / ARGUSPACIFIC.COM

Summary of Materials Sampled for Asbestos

Sample	Material	Location	AHERA Type	HM	Result
8772.4-SC-75-050	Built up	Southeast corner	Miscellaneous	1	ND
8772.4-SC-75-051	Built up	Northwest corner	Miscellaneous	1	ND
8772.4-SC-75-052	Built up	Southwest corner	Miscellaneous	1	ND
8772.4-SC-75-053	Gray seam sealant	Northwest corner, parapet cap	Miscellaneous	2	ND
8772.4-SC-75-054	Gray seam sealant	Southwest corner, parapet cap	Miscellaneous	2	ND
8772.4-SC-75-055	Gray seam sealant	Southeast corner, parapet cap	Miscellaneous	2	ND

HM = homogeneous material, Misc. = miscellaneous, ND = none detected, TSI = thermal system insulation.

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200768-0

Seattle Asbestos Test, LLC

Lynnwood, 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 17025:2005. 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).

2018-10-01 through 2019-09-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

SEATTLE ASBESTOS TEST, LLC
19711 Scriber Lake Rd. Suite D, Lynnwood, WA 98036
Tel: (425) 673-9850, Fax: (425) 673-9810 Website: seattleasbestostest.com

BATCH # 20181276b

CHAIN OF CUSTODY

Analysis Type: Bulk Analysis X Point Count 400 ___ Point Count 1000 ___ Point Count Gravimetric

Turn Around Time STD Number of Samples 6 Client Job # 8772.4

Client Name Med-Tox Northwest

Address Post Office Box 1446 City Auburn State WA Zip 98071-1446

Phone 253-351-0677 Fax 253-351-0688 Email havelockj@medtoxnw.com & childresss@medtoxnw.com

Project Location: Port of Tacoma - building 75 Project Manager: Jon Havelock

Sample Condition: Good_____ Damaged_____ Severe Damage (Spillage) _____

SEQ#	SAMPLE ID	SAMPLE DESCRIPTION	Lab ID	Comment	A/R
1					
2					
3					
4		See attached			
5		data sheet			
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

	Print	Signature	Company Name	Date	Time
Sampled by	**Shaun Childress**		**Med-Tox Northwest**	9/19/18	16:00
Relinquished by	**Shaun Childress**		**Med-Tox Northwest**	9/19/18	16:00
Delivered by	FedEx				
Received by	BetsySong		SAT	9/20/18	10:10
Analyzed by	Eric Teng		SAT	9/26/18	15:00
Result reported by					

Seattle Asbestos Test warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted, and disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. Seattle Asbestos Test accepts no legal responsibility for the purpose for which the client uses test results. By signing on this form, the clients agree to relieve Seattle Asbestos Test of any liability that may arise from the test results. Late payment may be charged of interest, invoices goes to collection causes 17-25% of collection fee. NSF is $50.

Result Reporting method: Phone_____, Fax_____, Email XX, Pick Up Report_____

Table C-1. Summary of Materials Sampled for Asbestos

Sample	Material	Location	AHERA Type	HM	Result
8772.4-SC-75-050	Built up	Southeast corner	Misc.	1	
8772.4-SC-75-051	Built up	Northwest corner	Misc.	1	
8772.4-SC-75-052	Built up	Southwest corner	Misc.	1	
8772.4-SC-75-053	Gray seam sealant	Northwest corner, parapet cap	Misc.	2	
8772.4-SC-75-054	Gray seam sealant	Southwest corner, parapet cap	Misc.	2	
8772.4-SC-75-055	Gray seam sealant	Southeast corner, parapet cap	Misc.	2	

HM = homogeneous material, Misc. = miscellaneous, ND = none detected, TSI = thermal system insulation.

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

ANALYTICAL LABORATORY REPORT

PLM by Method EPA/600/R-93/116

Attn.:	Jon Havelock	**Client:**	Med-Tox, Northwest	**Address:**	PO Box 1446, Auburn, WA 98071-1446
Job#:	8772.4	**Batch#:**	201812766	**Date Received:**	9/20/2018
Samples Rec'd:	6	**Date Analyzed:**	9/26/2018	**Samples Analyzed:**	6

Project Loc.: Port of Tacoma - Building 75

Analyzed by: Xianjie (Eric) Zeng

Reviewed by: Steve (Fanyao) Zhang, President

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
1	8772.4-SC-75-050	1	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	13	Glass fibers
		2	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		3	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	29	Glass fibers, Cellulose
		4	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		5	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		6	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	27	Glass fibers, Cellulose
		7	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		8	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		9	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	30	Glass fibers, Cellulose
		10	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		11	Yellow fibrous material		None detected	Filler	93	Glass fibers
		12	Black asphaltic fibrous material		None detected	Asphalt/binder, Binder/filler	68	Cellulose, Glass fibers
		13	Yellow foamy material		None detected	Synthetic foam		None detected
2	8772.4-SC-75-051	1	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	13	Glass fibers
		2	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		3	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	27	Glass fibers, Cellulose
		4	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		5	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		6	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	32	Glass fibers, Cellulose
		7	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		8	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

ANALYTICAL LABORATORY REPORT

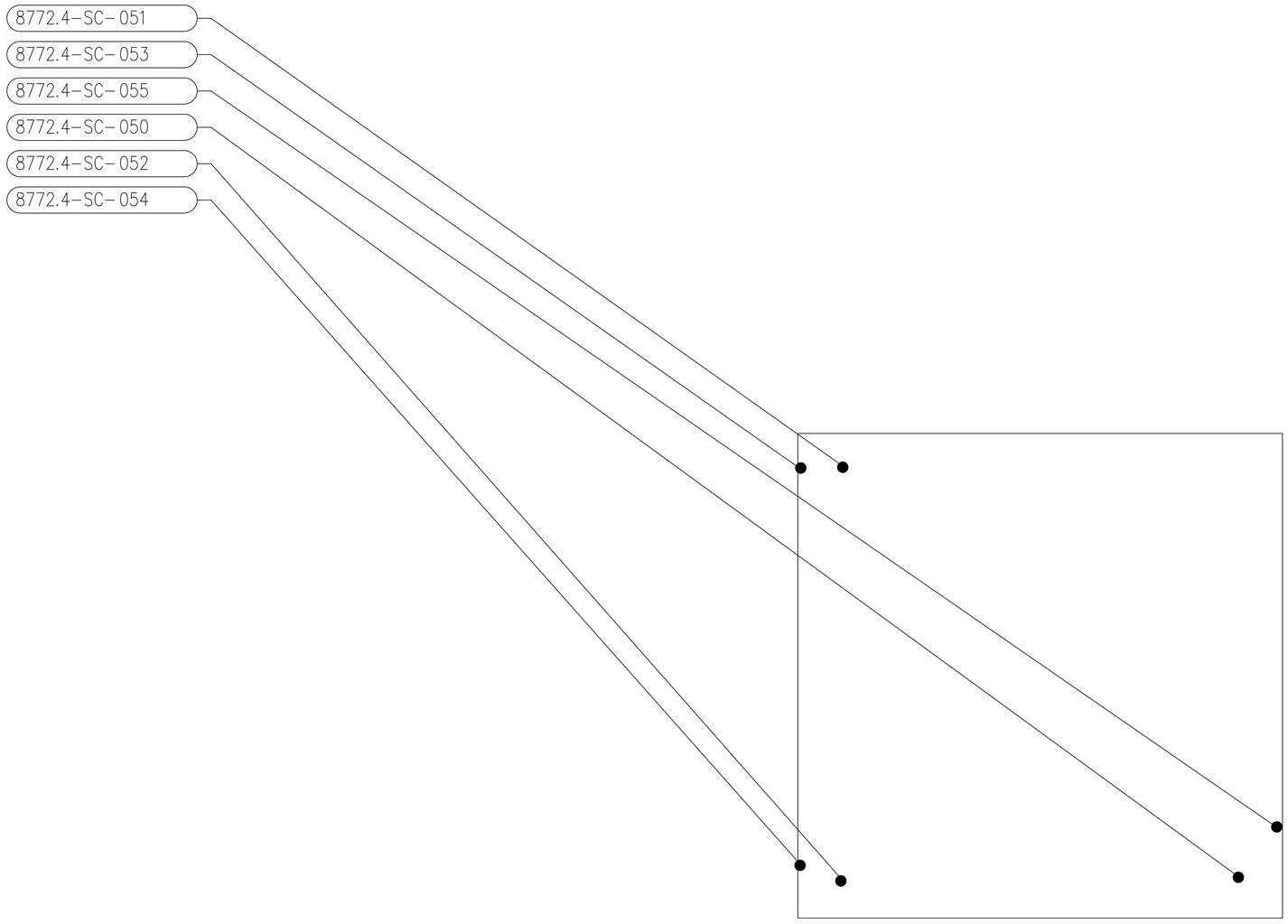
PLM by Method EPA/600/R-93/116

Attn.:	Jon Havelock	**Client:**	Med-Tox, Northwest	**Address:**	PO Box 1446, Auburn, WA 98071-1446
Job#:	8772.4	**Batch#:**	201812766	**Date Received:**	9/20/2018
Samples Rec'd:	6	**Date Analyzed:**	9/26/2018	**Samples Analyzed:**	6
Project Loc.:	Port of Tacoma - Building 75				

Analyzed by: Xianjie (Eric) Zeng

Reviewed by: Steve (Fanyao) Zhang, President

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
2	8772.4-SC-75-051	9	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	25	Glass fibers, Cellulose
		10	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		11	Yellow fibrous material		None detected	Filler	88	Glass fibers
		12	Black asphaltic fibrous material		None detected	Asphalt/binder, Binder/filler	70	Cellulose, Glass fibers
		13	Yellow foamy material		None detected	Synthetic foam		None detected
3	8772.4-SC-75-052	1	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	15	Glass fibers
		2	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		3	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	32	Glass fibers, Cellulose
		4	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		5	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		6	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	31	Glass fibers, Cellulose
		7	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		8	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		9	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	29	Glass fibers, Cellulose
		10	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		11	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	30	Glass fibers, Cellulose
		12	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		13	Yellow fibrous material		None detected	Filler	88	Glass fibers
4	8772.4-SC-75-053	1	Gray soft/elastic material with paint		None detected	Binder, Filler, Paint	3	Cellulose
5	8772.4-SC-75-054	1	Gray soft/elastic material with paint		None detected	Binder, Filler, Paint	3	Cellulose
6	8772.4-SC-75-055	1	Gray soft/elastic material with paint		None detected	Binder, Filler, Paint	4	Cellulose



BUILDING 75 – ROOF PLAN

SAMPLE LOCATIONS

SCALE: NTS

Symbol	Description	Date	Approved

Designed by: CHELSEA LEWIS | Date: 9/26/2018

Dwn by: JAL | Chk by: CL | File Name: A.8772.4

Plot Date:

Plot Scale: AS NOTED

Drawing Number:

MED-TOX NORTHWEST
SAFE ENVIRONMENT OF AMERICA, INC./dba
OCCUPATIONAL, ENVIRONMENTAL, HEALTH SERVICES
TECHNICAL SERVICES FOR INDUSTRY
1720 WEST VALLEY HIGHWAY N. SUITE #1
AUBURN, WASHINGTON 98001
(253) 351-0677 (253) 351-0688 (FAX)

PROJECT NUMBER: A.8772.4

PROJECT:
PORT OF TACOMA
CLIENT: HELIX

Sheet reference number

Sheet 1 OF 1

SAFE ENVIRONMENT OF AMERICA, INC. dba
MED-TOX NORTHWEST

October 23, 2018

Mr. Lee Davenport
Helix Design Group, Inc.
6021 12th Street East, Suite 201
Tacoma, Washington 98424

Subject: Port of Tacoma 8-Building Roof Replacement
Building 575 Domestic Guard Station
Hazardous Building Materials Investigation
Tacoma, Washington
Med-Tox Northwest Project No. A-8772.4

Dear Lee;

Shaun Childress of Med-Tox Northwest performed a limited asbestos and hazardous building materials (HBM) survey of Port of Tacoma Building 575 Domestic Guard Station located at the end of 16 East 11th Street at the Port of Tacoma in Tacoma, Washington. The investigation was performed on September 17, 2018 and was limited to the roof system which is scheduled for replacement.

The purpose of the investigation was to assist the Port of Tacoma with communicating the presence and location of asbestos-containing materials (ACM) and potential lead hazards to employees and contractors working on the roof replacement project. It was also performed to meet the requirements for an asbestos survey by Puget Sound Clean Air Agency (PSCAA) and a good faith inspection as required by Washington State Department of Labor and Industries' Division of Occupational Safety and Health (DOSH) regulation Washington Administrative Code (WAC) 296-62-077 prior to renovation.

As required by WAC 296-62-077 and PSCAA Regulation III, Article 4, an Asbestos Hazard Emergency Response Act (AHERA) accredited building inspecter performed the survey. A copy of the building inspector certificate is attached to this letter report.

BUILDING INFORMATION

Building 75 is a one-story structure with approximately 396 square feet. Roof access is available via extension ladder. The roof system is a built-up roof with 5 to 6-inches of foam insulation which is applied on a wood roof substrate. Renovations will include removal and replacement of the existing roof system.

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ASBESTOS SURVEY

In total, 9 samples were collected of suspect asbestos-containing materials. Of the 9 samples collected, all were determined to be negative for asbestos by Polarized Light Microscopy (PLM) analysis. For a complete list of all materials sampled, please refer to the Summary of Materials Sampled for Asbestos attached to the laboratory report.

Table 1 summarizes ACM identified by homogeneous material (HM) surveyed by MTNW. Friability was determined by conditions observed during the survey and by how the material behaves during mechanical demolition.

Table 1. Summary of Asbestos-Containing Materials

Material	Location	Friable	Quantity
There were no asbestos-containing materials identified.			

Note: This table is not to be used without the complete survey document including appendices for additional information.

Bulk samples were analyzed by Polarized Light Microscopy (PLM) dispersion staining EPA Method 600/R-93/116 by Seattle Asbestos Test, LLC (SAT). SAT is accredited through the National Voluntary Laboratory Accreditation Program (NVLAP) of the U. S. Department of Commerce. This accreditation does not constitute endorsement, but rather a finding of laboratory competence (certification copy is attached).

LEAD ASSESSMENT

Factory coated metal roof flashing and other metal building components are assumed to contain lead and heavy metal content.

SUMMARY/CONCLUSION

There were no asbestos-containing materials identified in the roofing samples collected from building 575.

MTNW recommends that this survey report be placed on-site during renovation and/or demolition and copies provided to the contractor(s) bidding and performing work. WISHA, OSHA and PSCAA require that the report be on-site and available for review during the entire project duration.

WAC 296-155-176, the Lead in Construction standard, has not defined a minimum concentration for regulating lead and has clarified that lead at any detectable concentration shall be considered regulated (WAC 296-155-176, Lead). Med-Tox Northwest recommends the contractor performing demolition of painted roof components provide a written lead compliance plan and implement the requirements of WAC 296-155-176 for any work disturbing painted surfaces.

If you have any questions or need additional information, please contact me at (253) 351-0677.

Sincerely,

Jon A. Havelock, CSP, CHMM
Senior Project Manager

Attachments

Photograph 1: Building 575.

Photograph 2: Built-up roof system. All suspect materials were determined to be negative for asbestos.

Certificate of Completion

This is to certify that

Shaun Z. Childress

has satisfactorily completed
4 hours of refresher training as an

AHERA Building Inspector

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

163731
Certificate Number

ARGUS PACIFIC
TRAINING • CONSULTING
A Terracon COMPANY

Oct 18, 2017 Expires in 1 year.
Date(s) of Training

Exam Score: N/A
If appropriate:

Instructor

ARGUS PACIFIC, INC / 1900 WEST NICKERSON ST, SUITE 315 / SEATTLE, WASHINGTON 98119 / 206.285.3373 / ARGUSPACIFIC.COM

Summary of Materials Sampled for Asbestos

Sample	Material	Location	AHERA Type	HM	Result
8772.4-SC-575-056	Built up	Northeast corner	Miscellaneous	1	ND
8772.4-SC-575-057	Built up	Southeast corner	Miscellaneous	1	ND
8772.4-SC-575-058	Built up	Southwest corner	Miscellaneous	1	ND
8772.4-SC-575-059	Gray seam sealant	Parapet cap, Northeast corner	Miscellaneous	2	ND
8772.4-SC-575-060	Gray seam sealant	Parapet cap, Northwest corner	Miscellaneous	2	ND
8772.4-SC-575-061	Gray seam sealant	Parapet cap, Southwest corner	Miscellaneous	2	ND
8772.4-SC-575-062	Gray seam sealant	Parapet wall, vertical seam, Northeast corner	Miscellaneous	3	ND
8772.4-SC-575-063	Gray seam sealant	Parapet wall, vertical seam, Northwest corner	Miscellaneous	3	ND
8772.4-SC-575-064	Gray seam sealant	Parapet wall, vertical seam, Southwest corner	Miscellaneous	3	ND

HM = homogeneous material, ND = none detected.

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200768-0

Seattle Asbestos Test, LLC

Lynnwood, 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 17025:2005. 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).

2018-10-01 through 2019-09-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

SEATTLE ASBESTOS TEST, LLC
19711 Scriber Lake Rd. Suite D, Lynnwood, WA 98036
Tel: (425) 673-9850, Fax: (425) 673-9810 Website: seattleasbestostest.com

BATCH # 201812765

CHAIN OF CUSTODY

Analysis Type: Bulk Analysis _X_ Point Count 400 ___ Point Count 1000 ___ Point Count Gravimetric

Turn Around Time ___STD_____ Number of Samples__9___ Client Job # 8772.4

Client Name ____Med-Tox Northwest_____

Address _Post Office Box 1446_____ City _Auburn_____ State WA_ Zip_98071-1446

Phone 253-351-0677 Fax 253-351-0688 Email ___havelockj@medtoxnw.com & childresss@medtoxnw.com

Project Location: __Port of Tacoma - building 575_____Project Manager: __Jon Havelock_____

Sample Condition: Good_____ Damaged_____ Severe Damage (Spillage) _____

SEQ#	SAMPLE ID	SAMPLE DESCRIPTION	Lab ID	Comment	A/R
1					
2		See attached			
3		data sheet			
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

	Print	Signature	Company Name	Date	Time
Sampled by	**Shaun Childress**		**Med-Tox Northwest**	9/19/18	16:00
Relinquished by	**Shaun Childress**		**Med-Tox Northwest**	9/19/18	16:00
Delivered by	FedEx				
Received by	Betsyling Tobyong		SAT	9/20/18	10:10
Analyzed by	Eric Terry		SAT	9/26/18	10:38
Result reported by					

Seattle Asbestos Test warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted, and disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. Seattle Asbestos Test accepts no legal responsibility for the purpose for which the client uses test results. By signing on this form, the clients agree to relieve Seattle Asbestos Test of any liability that may arise from the test results. Late payment may be charged of interest, invoices goes to collection causes 17-25% of collection fee. NSF is $50.

Result Reporting method: Phone_____, Fax_____, Email___XX_, Pick Up Report_____

Table C-1. Summary of Materials Sampled for Asbestos

Sample	Material	Location	AHERA Type	HM	Result
8772.4-SC-575-056	Built up	Northeast corner	Misc.	1	
8772.4-SC-575-057	Built up	Southeast corner	Misc.	1	
8772.4-SC-575-058	Built up	Southwest corner	Misc.	1	
8772.4-SC-575-059	Gray seam sealant	Parapet cap, Northeast corner	Misc.	2	
8772.4-SC-575-060	Gray seam sealant	Parapet cap, Northwest corner	Misc.	2	
8772.4-SC-575-061	Gray seam sealant	Parapet cap, Southwest corner	Misc.	2	
8772.4-SC-575-062	Gray seam sealant	Parapet wall, vertical seam, Northeast corner	Misc.	3	
8772.4-SC-575-063	Gray seam sealant	Parapet wall, vertical seam, Northwest corner	Misc.	3	
8772.4-SC-575-064	Gray seam sealant	Parapet wall, vertical seam, Southwest corner	Misc.	3	

HM = homogeneous material, Misc. = miscellaneous, ND = none detected, TSI = thermal system insulation.

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

ANALYTICAL LABORATORY REPORT

PLM by Method EPA/600/R-93/116

Attn.: Jon Havelock **Client:** Med-Tox, Northwest **Address:** PO Box 1446, Auburn, WA 98071-1446

Job#: 8772.4 **Batch#:** 201812765 **Date Received:** 9/20/2018

Samples Rec'd: 9 **Date Analyzed:** 9/26/2018 **Samples Analyzed:** 9

Project Loc.: Port of Tacoma - Building 575

Analyzed by: Xianjie (Eric) Zeng Reviewed by: Steve (Fanyao) Zhang, President

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
1	8772.4-SC-575-056	1	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	8	Glass fibers
		2	Black asphaltic material		None detected	Asphalt/binder	3	Cellulose
		3	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	29	Glass fibers, Cellulose
		4	Black asphaltic material		None detected	Asphalt/binder	3	Cellulose
		5	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	28	Glass fibers, Cellulose
		6	Black asphaltic material		None detected	Asphalt/binder	3	Cellulose
		7	Orange fibrous material		None detected	Filler	90	Glass fibers
		8	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	30	Glass fibers, Cellulose
		9	Yellow foamy material		None detected	Synthetic foam		None detected
2	8772.4-SC-575-057	1	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	7	Glass fibers
		2	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose
		3	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	31	Glass fibers, Cellulose
		4	Black asphaltic material		None detected	Asphalt/binder	4	Cellulose
		5	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	35	Glass fibers, Cellulose
		6	Black asphaltic material		None detected	Asphalt/binder	3	Cellulose
		7	Orange fibrous material		None detected	Filler	90	Glass fibers
		8	Black asphaltic material with fibrous material		None detected	Asphalt/binder, Filler	36	Glass fibers, Cellulose
		9	Yellow foamy material		None detected	Synthetic foam		None detected
3	8772.4-SC-575-058	1	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	5	Glass fibers
		2	Black asphaltic material		None detected	Asphalt/binder	2	Cellulose

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

ANALYTICAL LABORATORY REPORT

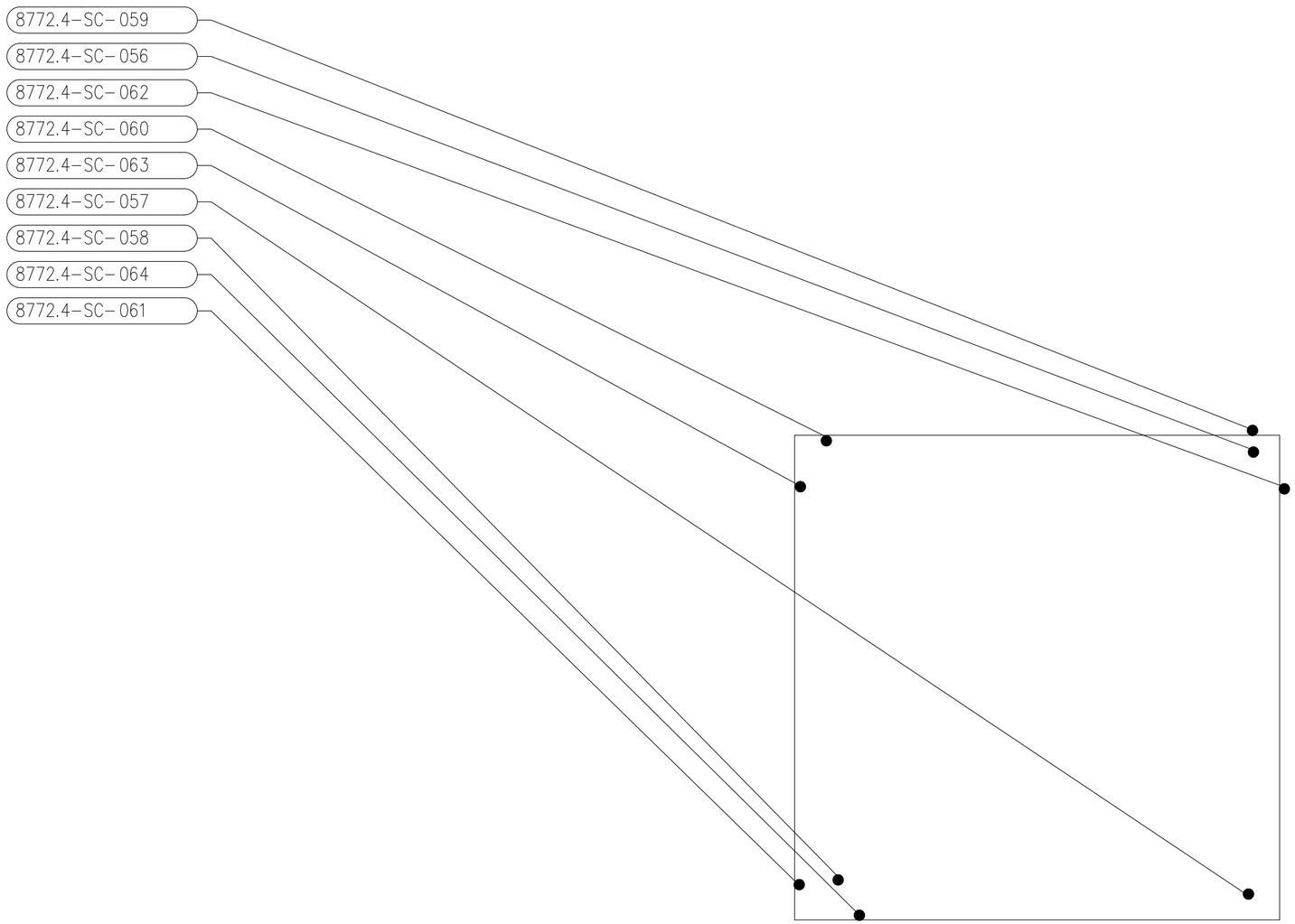
PLM by Method EPA/600/R-93/116

Attn.:	Jon Havelock	**Client:**	Med-Tox, Northwest	**Address:**	PO Box 1446, Auburn, WA 98071-1446
Job#:	8772.4	**Batch#:**	201812765	**Date Received:**	9/20/2018
Samples Rec'd:	9	**Date Analyzed:**	9/26/2018	**Samples Analyzed:**	9
Project Loc.:	Port of Tacoma - Building 575				

Analyzed by: Xianjie (Eric) Zeng

Reviewed by: Steve (Fanyao) Zhang, President

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
3	8772.4-SC-575-058	3	Black asphaltic material with fibrous material		**None detected**	Asphalt/binder, Filler	26	Glass fibers, Cellulose
		4	Black asphaltic material		**None detected**	Asphalt/binder	4	Cellulose
		5	Black asphaltic material with fibrous material		**None detected**	Asphalt/binder, Filler	24	Glass fibers, Cellulose
		6	Black asphaltic material		**None detected**	Asphalt/binder	3	Cellulose
		7	Orange fibrous material		**None detected**	Filler	88	Glass fibers
		8	Black asphaltic material with fibrous material		**None detected**	Asphalt/binder, Filler	28	Glass fibers, Cellulose
		9	Yellow foamy material		**None detected**	Synthetic foam		None detected
4	8772.4-SC-575-059	1	Gray/black soft/elastic material		**None detected**	Binder, Filler	3	Cellulose
5	8772.4-SC-575-060	1	Gray/black soft/elastic material		**None detected**	Binder, Filler	4	Cellulose
6	8772.4-SC-575-061	1	Gray/black soft/elastic material		**None detected**	Binder, Filler	3	Cellulose
7	8772.4-SC-575-062	1	Gray/black soft/elastic material		**None detected**	Binder, Filler	3	Cellulose
8	8772.4-SC-575-063	1	Gray/black soft/elastic material		**None detected**	Binder, Filler	3	Cellulose
9	8772.4-SC-575-064	1	Gray/black soft/elastic material		**None detected**	Binder, Filler	4	Cellulose



BUILDING 575 – ROOF PLAN

SAMPLE LOCATIONS

SCALE: NTS

Symbol	Description	Date	Approved

Designed by: CHELSEA LEWIS
Dwn by: JAL
Chk by: CL
Date: 9/26/2018
File Name: A.8772.4
Plot Date:
Plot Scale: AS NOTED
Drawing Number:

MED-TOX NORTHWEST
SAFE ENVIRONMENT OF AMERICA, INC.dba
OCCUPATIONAL, ENVIRONMENTAL, LEGAL & TECHNICAL SERVICES
1701 WEST VALLEY HIGHWAY N., SUITE #1
AUBURN, WASHINGTON 98001
(253) 351-0677 (253) 351-0688 (FAX)

PROJECT NUMBER: A.8772.4

PROJECT:
PORT OF TACOMA
CLIENT: HELIX

Sheet reference number

Sheet 1 OF 1