



Engineering +
Environmental

Pre-Demolition Asbestos Survey Report Buildings 801, 805, 806, and 807

VA Northern California
Health Care System
Mather, CA

Prepared for:

K.F. Davis Engineering, Inc.

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Sample Inventories	2.1
Laboratory Data	Not Numbered
AHERA Certificates	Not Numbered

July 2016

Project No.: 73222.000 Phase No.: 003

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GENERAL INFORMATION

BUILDING DATA

VA Northern California
Mather, CA

CLIENT DATA

K.F. Davis Engineering, Inc.
530 La Gonda Wy., Ste. E
Danville, CA 94526

SURVEY SCOPE

PBS Engineering and Environmental Inc. (PBS) has performed a general asbestos survey of accessible building areas in accordance with OSHA in 29 CFR 1910.1001 and compiled a report with the following information:

- The type, location, and approximate quantity of suspect asbestos-containing materials
- Bulk sampling of selected suspect building materials
- Inspection summary
- Laboratory analytical data of bulk material sampled

With regard to asbestos, PBS endeavored to locate all the suspect asbestos-containing materials in the buildings; however, suspect asbestos-containing materials may be present and concealed within wall, ceiling, or floor spaces. If suspect materials are uncovered during demolition activities that are not identified in this report, testing should be performed prior to impact.


PBS has conducted a physical inspection of the building, compiled this report consistent with the survey scope, and certifies that the information is correct and accurate within the standards of professional quality and contractual obligations.

Derek May
Project Manager
Accreditation # IR-16-0009A


Signature

07.05.2016
Date

Rich Dufresne
Prime Inspector
Accreditation # IMR-16-0264A


Signature

07.05.2016
Date



INSPECTION SUMMARY

DATES	SURVEYED BY	ACTIVITY
6/6/2016	Rich Dufresne	Inspect and Sample

PBS has investigated accessible areas inside of the buildings to locate suspect asbestos-containing building materials (ACBM). Suspect materials may be present in concealed areas (e.g., behind walls and under carpet). The findings are listed below.

ASBESTOS MATERIALS

The following materials either tested positive, or, based on the experience of PBS field personnel, were not tested and should be considered asbestos-containing. Materials that had mixed results are considered positive. Materials not sampled may not contain asbestos and should be tested to verify asbestos content prior to impact through demolition, renovation, etc.

(+) Tested Positive, (M) Mixed Results, (P) Presumed Positive, (T) Previously Tested Positive.

<u>Result</u>	<u>Material (type)</u>	<u>Location</u>	<u>Approx. Quantity</u>
(P)	Built-up Roofing	Roofing, Lower Layers	3,600 SF

INSPECTION SUMMARY

MATERIALS THAT TESTED NEGATIVE FOR ASBESTOS

The following materials tested negative based on ASHARA sampling minimums and testing by NVLAP participating laboratories. Although no asbestos was detected, it is possible that further sampling could indicate asbestos content. It may be prudent to test prior to impact through demolition, renovation, etc.

<u>Material (type)</u>	<u>Location</u>
Vinyl Floor Tile/Mastic; 12" Beige	Building 801
Vinyl Floor Tile/Mastic; 12" Gray	Building 801
Vinyl Floor Tile/Mastic; 12" Rust	Building 801
Vinyl Floor Tile/Mastic; 12" White	Building 801
Covebase/Mastic; 4" Gray	Building 801
Covebase/Mastic; 4" Tan	Building 801
Lay-in Ceiling Tile	Building 801
Caulk/HVAC Sealant	Building 801
Gypsum Wallboard/Joint Compound	Building 801
Caulk/Exterior Building Sealant	Building 801; Exterior
Sheet Floor Covering	Building 801; Restroom
Caulk/Exterior Building Sealant	Building 805; Exterior
Covebase/Mastic; 4" Brown	Building 806
Sink Undercoating	Building 806
Lay-in Ceiling Tile; fissure pin perf pattern	Building 806
Lay-in Ceiling Tile; Star fissure pattern	Building 806
Sheet Floor Covering; White marble pattern	Building 806; restroom
Covebase/Mastic; 6" tan	Building 806; restroom
Gypsum Wallboard/Joint Compound	Building 806
Caulk/Exterior Building Sealant	Building 806
Yellow Carpet Mastic	Building 807
Covebase/Mastic; 4" Brown	Building 807
Gypsum Wallboard/Joint Compound	Building 807
Lay-in Ceiling Tile; fissure pin perf pattern	Building 807
Lay-in Ceiling Tile; Star fissure pattern	Building 807

INSPECTION SUMMARY

Sheet Floor Covering; White Marble	Building 807; Restroom
Caulk/Exterior Building Sealant	Building 807

INSPECTION SUMMARY

BACKGROUND

On June 6, 2016 PBS performed a pre-demolition asbestos survey of Buildings 801, 805, 806, and 807 at the Mather Veterans Affairs Medical Center in Rancho Cordova, California.

The purpose of the survey was to identify asbestos-containing building materials that may be impacted by the planned demolition of the structures.

This survey is compiled to satisfy the requirements to perform an asbestos inspection prior to renovation or demolition activities and OSHA hazard communication requirements. It is not intended to serve as an abatement specification or bidding document.

ASBESTOS SUMMARY

Bulk samples of suspect asbestos-containing materials (ACM) were collected by a PBS Asbestos Hazard Emergency Response Act (AHERA) accredited inspector and submitted under chain-of-custody to Lab/Cor, Inc. of Portland, Oregon, for polarized light microscopy (PLM) analysis.

No asbestos-containing building materials were identified during this investigation.

The roofing on building 801 is single ply EPDM membrane roofing. It was reported to the inspector that the EPDM roofing was installed over the existing built-up roofing. In order to maintain the integrity of the roofing system, and at the owner's request, PBS did not penetrate the roof membrane. The lower layers of roofing are presumed to be asbestos-containing until sampling can be performed that determines otherwise. Roof sampling may be warranted prior to building demolition.

Buildings 805, 806, and 807 have non-suspect metal roofing.

Building 805 was inaccessible at the time of this survey due to its secured occupancy. Buildings 805, 806, and 807 appear to be identical. No asbestos-containing building materials were identified in buildings 806 and 807. Prior to demolition it is prudent to ensure that building 805 finishes are homogeneous with those sampled in buildings 806 and 807.

Please refer to the bulk sample inventory, survey drawing, and photographs for additional material and location information.



Engineering +
Environmental

VA Northern California Health Care System
Building 801

Asbestos-Containing Building Materials
Probable Abatement Cost Estimate

Project No. 73222.000
Prepared by: Rich Dufresne
Date Prepared: July 2016

Item	Unit	Quantity	Unit Price (USD)	Amount (USD)
A. Mobilization, Permits & Fees	EA	1	\$ 2,250.00	\$ 2,250.00
B. Asbestos-Containing Material Abatement				\$ -
Built-Up Roofing	SF	3,600	\$ 3.00	\$ 10,800.00
Subtotal Estimated Project Costs				\$13,050.00
Contingency - 10%				\$1,305.00
TOTAL PROBABLE COSTS				\$14,355.00

Cost Estimate Assumptions:

1. Cost estimate presumes asbestos-containing roofing. Additional sampling may be warranted.

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
73222.000-0001	Vinyl Floor Tile/Mastic	Building 801; room 21, 12" white		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	hard vinyl, white	No Asbestos Detected	
73222.000-0002	Covebase/Mastic	Building 801; room 21, 4" gray		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, gray	No Asbestos Detected	
	Layer 2	mastic, gray	No Asbestos Detected	
	Layer 3	fine compact powder, off-white	No Asbestos Detected	
73222.000-0003	Lay-in Ceiling Tile	Building 801; room 20, smooth fissure, pin perf		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibers, gray	No Asbestos Detected	
73222.000-0004	Lay-in Ceiling Tile	Building 801; corridor, smooth fissure, pin perf		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibers, gray	No Asbestos Detected	
73222.000-0005	Duct Insulation	Building 801; room 20, fiberglass duct insulation		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	fibrous material, yellow	No Asbestos Detected	
	Layer 2	foil with fibrous backing, white	No Asbestos Detected	
73222.000-0006	Gypsum Wallboard/Joint Compound	Building 801; room 26, wallboard with joint compound and texture		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compact chalky material with paper, white	No Asbestos Detected	
73222.000-0007	Gypsum Wallboard/Joint Compound	Building 801; entry, wallboard with joint compound and texture		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	paint, white with fine compact powder, white	No Asbestos Detected	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
73222.000-0008	Caulk	Building 801; exterior, exterior building sealant		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, white	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
73222.000-0009	Sheet Floor Covering	Building 801; room 31, white sheet flooring		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	flexible vinyl, pebbled, gray/off-white	No Asbestos Detected	
	Layer 2	fibrous backing, white	No Asbestos Detected	
73222.000-0010	Vinyl Floor Tile/Mastic	Building 801; room 28, 12" white		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	hard vinyl, white	No Asbestos Detected	
	Layer 2	mastic, yellow	No Asbestos Detected	
73222.000-0011	Vinyl Floor Tile/Mastic	Building 801; corridor, 12" gray		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	hard vinyl, tan	No Asbestos Detected	
73222.000-0012	Vinyl Floor Tile/Mastic	Building 801; corridor, 12" beige		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	hard vinyl, white	No Asbestos Detected	
	Layer 2	thin mastic, yellow	No Asbestos Detected	
73222.000-0013	Vinyl Floor Tile/Mastic	Building 801; exam room 3, 12" rust		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	hard vinyl, white	No Asbestos Detected	
	Layer 2	thin mastic, yellow	No Asbestos Detected	
73222.000-0014	Covebase/Mastic	Building 801; room 15, 4" tan		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, tan	No Asbestos Detected	
	Layer 2	mastic, yellow	No Asbestos Detected	
73222.000-0015	Caulk	Building 801; exterior, exterior building sealant		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, white	No Asbestos Detected	
73222.000-0016	Lay-in Ceiling Tile	Building 801; corridor, 2 X 4 fissure, pin perf		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibers, gray	No Asbestos Detected	
73222.000-0017	Caulk	Building 801; exterior, exterior building sealant		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1		No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
73222.000-0101	Caulk	Building 805; exterior, exterior building sealant		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	hard mastic, tan	No Asbestos Detected	
73222.000-0102	Caulk	Building 805; exterior, exterior building sealant		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, white	No Asbestos Detected	
73222.000-0103	Caulk	Building 805; exterior, exterior building sealant		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, white	No Asbestos Detected	
73222.000-0201	Covebase/Mastic	Building 806; reception area, 4" brown		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, tan	No Asbestos Detected	
	Layer 2	mastic, yellow	No Asbestos Detected	
73222.000-0202	Sink Undercoating	Building 806; reception area, white sink undercoating		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compact flaky material, off-white	No Asbestos Detected	
73222.000-0203	Lay-in Ceiling Tile	Building 806; room 104, 2 X 4 fissure, pin perf		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibrous material, tan with paint, white	No Asbestos Detected	
73222.000-0204	Lay-in Ceiling Tile	Building 806; room 101, 2 X 4 star fissures		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibrous material, tan with paint, white	No Asbestos Detected	
73222.000-0205	Sheet Floor Covering	Building 806; restroom, white marble pattern		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	flexible vinyl, light gray	No Asbestos Detected	
	Layer 2	fibrous backing, gray	No Asbestos Detected	
	Layer 3	mastic, yellow	No Asbestos Detected	
73222.000-0206	Covebase/Mastic	Building 806; room 108A, 6" tan		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, tan	No Asbestos Detected	
	Layer 2	mastic, yellow	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
73222.000-0207	Covebase/Mastic	Building 806; room 106, 4" brown		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, tan	No Asbestos Detected	
	Layer 2	mastic, yellow	No Asbestos Detected	
73222.000-0208	Lay-in Ceiling Tile	Building 806; room 107, 2 X 4 random fissure, pin perf		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibrous material, tan with paint, white	No Asbestos Detected	
73222.000-0209	Gypsum Wallboard/Joint Compound	Building 806; room 108A, wallboard with joint compound		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	fine compact powder, off-white	No Asbestos Detected	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
73222.000-0210	Caulk	Building 806; exterior, exterior building sealant		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, gray	No Asbestos Detected	
73222.000-0211	Caulk	Building 806; exterior, exterior building sealant		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, off-white	No Asbestos Detected	
73222.000-0301	Mastic	Building 807; room 101, yellow carpet mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	mastic, orange	No Asbestos Detected	
73222.000-0302	Covebase/Mastic	Building 807; break room, 4" brown		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, gray	No Asbestos Detected	
	Layer 2	mastic, tan	No Asbestos Detected	
73222.000-0303	Gypsum Wallboard/Joint Compound	Building 807; break room, wallboard with joint compound		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	fine compact powder, white	No Asbestos Detected	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
73222.000-0304	Lay-in Ceiling Tile	Building 807; room 102 2 X 4 random fissure, pin perf		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibrous material, tan with paint, white	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
73222.000-0305	Lay-in Ceiling Tile	Building 807; room 107, 2 X 4 star fissures		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibrous material, tan with paint, white	No Asbestos Detected	
73222.000-0306	Sheet Floor Covering	Building 807; restroom, white marble pattern		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	flexible vinyl, light gray	No Asbestos Detected	
	Layer 2	fibrous backing, gray	No Asbestos Detected	
	Layer 3	mastic, yellow	No Asbestos Detected	
73222.000-0307	Covebase/Mastic	Building 807; room 108A, 6" beige		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, tan	No Asbestos Detected	
73222.000-0308	Gypsum Wallboard/Joint Compound	Building 807; room 108A, wallboard with joint compound and texture		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	mastic, tan	No Asbestos Detected	
	Layer 2	fine compact powder, white	No Asbestos Detected	
	Layer 3	compact chalky material with paper, white	No Asbestos Detected	
73222.000-0309	Caulk	Building 807; exterior, exterior building sealant		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	soft compact material, off-white	No Asbestos Detected	
73222.000-0310	Caulk	Building 807; exterior, exterior building sealant		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, gray	No Asbestos Detected	

**Lab/Cor Portland, Inc.**4321 SW Corbett Ave., Ste A
Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS**Phone: (503) 224-5055
<http://www.labcorpdx.net>*Asbestos and Environmental Analysis***Client:** PBS Engineering and Environmental
4412 SW Corbett Avenue
Portland, OR 97239**Report Number:** 162655R01**Report Date:** 06/16/2016**Job Number:** 162655**P.O. No:** n/a**Project Name:****Project Number:** 73222.000 Phase 0003**Project Notes:**

Client Sample ID:	73222.000-0001		Sample ID:	S1		Date Analyzed:	06/15/2016	
Client Sample Description:						Analyst:	Ryan Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Homogeneous								
hard vinyl, white	100 %	-	-	-				NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
	-	-	-	-	-	-	-	100 %

Client Sample ID:	73222.000-0002		Sample ID:	S2		Date Analyzed:	06/15/2016	
Client Sample Description:						Analyst:	Ryan Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Layer 01								
rubbery material, gray	80 %	-	-	-				NAD
Layer 02								
mastic, gray	15 %	-	-	-				NAD
Layer 03								
fine compact powder, off-white	5 %	-	-	-				NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
Layer 01	-	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	-	100 %

**Lab/Cor Portland, Inc.**4321 SW Corbett Ave., Ste A
Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS**Phone: (503) 224-5055
<http://www.labcorpdx.net>*Asbestos and Environmental Analysis***Job Number: 162655****Report Number: 162655R01****Report Date: 06/16/2016**

Client Sample ID: 73222.000-0003		Sample ID: S3			Date Analyzed: 06/15/2016			
Client Sample Description:					Analyst: Ryan Brown			
<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:			
Homogeneous								
compressed fibers, gray	100 %	-	-	-	NAD			
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			
	-	35 %	35 %	-	-	-	Matrix	
							20 %	
							Perlite	10 %

Client Sample ID: 73222.000-0004		Sample ID: S4			Date Analyzed: 06/15/2016			
Client Sample Description:					Analyst: Ryan Brown			
<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:			
Homogeneous								
compressed fibers, gray	100 %	-	-	-	NAD			
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			
	-	35 %	35 %	-	-	-	Matrix	
							20 %	
							Perlite	10 %

Client Sample ID: 73222.000-0005		Sample ID: S5			Date Analyzed: 06/15/2016			
Client Sample Description:					Analyst: Ryan Brown			
<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:			
Layer 01								
fibrous material, yellow	90 %	-	-	-	NAD			
Layer 02								
foil with fibrous backing, white	10 %	-	-	-	NAD			
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix		
Layer 01	-	-	99 %	-	-	-	1 %	
Layer 02	-	50 %	-	-	-	-	50 %	

**Lab/Cor Portland, Inc.**4321 SW Corbett Ave., Ste A
Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS**Phone: (503) 224-5055
<http://www.labcorpdx.net>*Asbestos and Environmental Analysis***Job Number: 162655****Report Number: 162655R01****Report Date: 06/16/2016**

Client Sample ID:	73222.000-0006		Sample ID:	S6		Date Analyzed:	06/16/2016	
Client Sample Description:						Analyst:	Ryan Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Homogeneous								
compact chalky material with paper, white	100 %	-	-	-				NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
	-	-	-	-	-	-	-	100 %

Client Sample ID:	73222.000-0007		Sample ID:	S7		Date Analyzed:	06/16/2016	
Client Sample Description:						Analyst:	Ryan Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Layer 01								
paint, white with fine compact powder, white	80 %	-	-	-				NAD
Layer 02								
compact chalky material with paper, white	20 %	-	-	-				NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
Layer 01	-	-	-	-	-	-	-	100 %
Layer 02	-	2 %	-	-	-	-	-	98 %

Client Sample ID:	73222.000-0008		Sample ID:	S8		Date Analyzed:	06/16/2016	
Client Sample Description:						Analyst:	Ryan Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Homogeneous								
rubbery material, white	100 %	-	-	-				NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
	-	-	-	-	-	-	-	100 %

**Lab/Cor Portland, Inc.**4321 SW Corbett Ave., Ste A
Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS**Phone: (503) 224-5055
<http://www.labcorpdx.net>*Asbestos and Environmental Analysis***Job Number: 162655****Report Number: 162655R01****Report Date: 06/16/2016**

Client Sample ID: 73222.000-0009		Sample ID: S9			Date Analyzed: 06/16/2016	Percent Asbestos:
Client Sample Description:					Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		
Layer 01						
flexible vinyl, pebbled, gray/off-white	55 %	-	-	-	NAD	
Layer 02						
fibrous backing, white	45 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	99 %	-	1 %

Client Sample ID: 73222.000-0010		Sample ID: S10			Date Analyzed: 06/16/2016		Percent Asbestos:
Client Sample Description:					Analyst: Ryan Brown		
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite		
Layer 01							
hard vinyl, white		96 %	-	-	-	NAD	
Layer 02							
mastic, yellow		4 %	-	-	-	NAD	
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01		-	-	-	-	-	100 %
Layer 02		-	-	-	-	-	100 %

Client Sample ID: 73222.000-0011		Sample ID: S11			Date Analyzed: 06/16/2016		Percent Asbestos:
Client Sample Description:					Analyst: Ryan Brown		
<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite			
Homogeneous							
hard vinyl, tan	100 %	-	-	-	NAD		
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
	-	-	-	-	-	100 %	

**Lab/Cor Portland, Inc.**4321 SW Corbett Ave., Ste A
Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS***Asbestos and Environmental Analysis*Phone: (503) 224-5055
<http://www.labcorpdx.net>**Job Number: 162655****Report Number: 162655R01****Report Date: 06/16/2016**

Client Sample ID: 73222.000-0012		Sample ID: S12			Date Analyzed: 06/16/2016
Client Sample Description:					Analyst: Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
hard vinyl, white	99 %	-	-	-	NAD
Layer 02					
thin mastic, yellow	1 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
					Matrix
Layer 01	-	-	-	-	100 %
Layer 02	-	-	-	-	100 %

Client Sample ID: 73222.000-0013		Sample ID: S13			Date Analyzed: 06/16/2016	
Client Sample Description:					Analyst: Ryan Brown	
<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
hard vinyl, white	99 %	-	-	-	NAD	
Layer 02						
thin mastic, yellow	1 %	-	-	-	NAD	
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

Client Sample ID: 73222.000-0014		Sample ID: S14			Date Analyzed: 06/16/2016	
Client Sample Description:				Analyst: Ryan Brown		
<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
rubbery material, tan	92 %	-	-	-	NAD	
Layer 02						
mastic, yellow	8 %	-	-	-	NAD	
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

**Lab/Cor Portland, Inc.**4321 SW Corbett Ave., Ste A
Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS**Phone: (503) 224-5055
<http://www.labcorpdx.net>*Asbestos and Environmental Analysis***Job Number: 162655****Report Number: 162655R01****Report Date: 06/16/2016**

Client Sample ID: 73222.000-0015	Sample ID: S15	Date Analyzed: 06/16/2016	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
rubbery material, white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -		100 %

Client Sample ID: 73222.000-0016	Sample ID: S16	Date Analyzed: 06/16/2016	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
compressed fibers, gray	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 50 % 20 % - -		20 %
		Perlite	10 %

Client Sample ID: 73222.000-0017	Sample ID: S17	Date Analyzed: 06/16/2016	
Client Sample Description:		Analyst: Ryan Brown	
Comments: Sample not submitted for analysis with this set.			

Client Sample ID: 73222.000-0101	Sample ID: S18	Date Analyzed: 06/16/2016	
Client Sample Description:		Analyst: Ryan Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
hard mastic, tan	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -		100 %

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<http://www.labcorpdx.net>*Asbestos and Environmental Analysis***Job Number: 162655****Report Number: 162655R01****Report Date: 06/16/2016**

Client Sample ID:	73222.000-0102	Sample ID:	S19	Date Analyzed:	06/16/2016	
Client Sample Description:					Analyst:	Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
rubbery material, white	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client Sample ID:	73222.000-0103	Sample ID:	S20	Date Analyzed:	06/16/2016	
Client Sample Description:					Analyst:	Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
rubbery material, white	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client Sample ID:	73222.000-0201	Sample ID:	S21	Date Analyzed:	06/16/2016	
Client Sample Description:					Analyst:	Stephanie Golden
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
rubbery material, tan	98 %	-	-	-		NAD
Layer 02						
mastic, yellow	2 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

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Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS**Phone: (503) 224-5055
<http://www.labcorpdx.net>*Asbestos and Environmental Analysis***Job Number: 162655****Report Number: 162655R01****Report Date: 06/16/2016**

Client Sample ID: 73222.000-0202	Sample ID: S22	Date Analyzed: 06/16/2016	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
compact flaky material, off-white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 10 % - - -	-	90 %

Client Sample ID: 73222.000-0203	Sample ID: S23	Date Analyzed: 06/16/2016	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
compressed fibrous material, tan with paint, white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	10 % 50 % 10 % - -	-	20 %
		Perlite	10 %

Client Sample ID: 73222.000-0204	Sample ID: S24	Date Analyzed: 06/16/2016	
Client Sample Description:		Analyst: Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
compressed fibrous material, tan with paint, white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	15 % 50 % 15 % - -	-	10 %
		Perlite	10 %

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Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS**Phone: (503) 224-5055
<http://www.labcorpdx.net>*Asbestos and Environmental Analysis***Job Number: 162655****Report Number: 162655R01****Report Date: 06/16/2016****Client Sample ID: 73222.000-0205****Sample ID: S25****Date Analyzed: 06/16/2016****Client Sample Description:****Analyst: Stephanie Golden**

<u>Asbestos Mineral Fibers</u>		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01							
flexible vinyl, light gray		60 %	-	-	-		NAD
Layer 02							
fibrous backing, gray		30 %	-	-	-		NAD
Layer 03							
mastic, yellow		10 %	-	-	-		NAD
<u>Other Fibers</u>		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01		-	-	-	-	-	100 %
Layer 02		-	35 %	-	-	-	65 %
Layer 03		-	2 %	-	-	-	98 %

Client Sample ID: 73222.000-0206**Sample ID: S26****Date Analyzed: 06/16/2016****Client Sample Description:****Analyst: Stephanie Golden**

<u>Asbestos Mineral Fibers</u>		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01							
rubbery material, tan		70 %	-	-	-		NAD
Layer 02							
mastic, yellow		30 %	-	-	-		NAD
<u>Other Fibers</u>		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01		-	-	-	-	-	100 %
Layer 02		-	-	-	-	-	100 %

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<http://www.labcorpdx.net>*Asbestos and Environmental Analysis***Job Number: 162655****Report Number: 162655R01****Report Date: 06/16/2016****Client Sample ID: 73222.000-0207****Sample ID: S27****Date Analyzed: 06/16/2016****Analyst: Stephanie Golden****Client Sample Description:****Asbestos Mineral Fibers**

Layer Percent:	Chrysotile	Amosite	Crocidolite
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**Percent
Asbestos:****Layer 01**

rubbery material, tan	75 %	-	-	-	NAD
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Layer 02

mastic, yellow	25 %	-	-	-	NAD
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Other Fibers

Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
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Matrix

Layer 01	-	-	-	-	-	100 %
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Layer 02	-	-	-	-	-	100 %
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Client Sample ID: 73222.000-0208**Sample ID: S28****Date Analyzed: 06/16/2016****Analyst: Stephanie Golden****Client Sample Description:****Asbestos Mineral Fibers**

Layer Percent:	Chrysotile	Amosite	Crocidolite
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**Percent
Asbestos:****Homogeneous**

compressed fibrous material, tan with paint, white	100 %	-	-	-	NAD
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Other Fibers

Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
10 %	50 %	10 %	-	-

Matrix

Perlite 10 %

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<http://www.labcorpdx.net>*Asbestos and Environmental Analysis***Job Number: 162655****Report Number: 162655R01****Report Date: 06/16/2016**

Client Sample ID: 73222.000-0209		Sample ID: S29			Date Analyzed: 06/16/2016	
Client Sample Description:		Analyst: Stephanie Golden				
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
fine compact powder, off-white	3 %	-	-	-	NAD	
Layer 02						
compact chalky material with paper, white	97 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	5 %	-	-	-	95 %

Client Sample ID: 73222.000-0210		Sample ID: S30			Date Analyzed: 06/16/2016			
Client Sample Description:					Analyst: Stephanie Golden			
<u>Asbestos Mineral Fibers</u>		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:		
Homogeneous								
rubbery material, gray		100 %	-	-	-	NAD		
<u>Other Fibers</u>		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix	
		-	-	-	-	-	100 %	

Client Sample ID: 73222.000-0211		Sample ID: S31			Date Analyzed: 06/16/2016		
Client Sample Description:					Analyst: Stephanie Golden		
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous							
rubbery material, off-white		100 %	-	-	-	NAD	
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
		-	-	-	-	-	100 %

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<http://www.labcorpdx.net>*Asbestos and Environmental Analysis***Job Number: 162655****Report Number: 162655R01****Report Date: 06/16/2016**

Client Sample ID:	73222.000-0301		Sample ID:	S32		Date Analyzed:	06/16/2016	
Client Sample Description:						Analyst:	Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Homogeneous								
mastic, orange	100 %	-	-	-				NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
	-	5 %	-	2 %	-	-		93 %

Client Sample ID:	73222.000-0302		Sample ID:	S33		Date Analyzed:	06/16/2016	
Client Sample Description:						Analyst:	Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Layer 01								
rubbery material, gray	90 %	-	-	-				NAD
Layer 02								
mastic, tan	10 %	-	-	-				NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
Layer 01	-	-	-	-	-	-		100 %
Layer 02	-	-	-	-	-	-		100 %

Client Sample ID:	73222.000-0303		Sample ID:	S34		Date Analyzed:	06/16/2016	
Client Sample Description:						Analyst:	Stephanie Golden	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Layer 01								
fine compact powder, white	25 %	-	-	-				NAD
Layer 02								
compact chalky material with paper, white	75 %	-	-	-				NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
Layer 01	-	-	-	-	-	-		100 %
Layer 02	2 %	3 %	-	-	-	-		95 %

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Portland, OR 97239**BULK SAMPLE ASBESTOS ANALYSIS***Asbestos and Environmental Analysis*Phone: (503) 224-5055
<http://www.labcorpdx.net>**Job Number: 162655****Report Number: 162655R01****Report Date: 06/16/2016****Client Sample ID: 73222.000-0304****Sample ID: S35****Date Analyzed: 06/16/2016****Client Sample Description:****Analyst: Stephanie Golden****Asbestos Mineral Fibers**

Layer Percent:	Chrysotile	Amosite	Crocidolite

**Percent
Asbestos:****Homogeneous**compressed fibrous
material, tan with paint,
white

100 % - - -

NAD**Other Fibers**

Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
10 %	50 %	10 %	-	-

Matrix
20 %
Perlite 10 %**Client Sample ID: 73222.000-0305****Sample ID: S36****Date Analyzed: 06/16/2016****Client Sample Description:****Analyst: Stephanie Golden****Asbestos Mineral Fibers**

Layer Percent:	Chrysotile	Amosite	Crocidolite

**Percent
Asbestos:****Homogeneous**compressed fibrous
material, tan with paint,
white

100 % - - -

NAD**Other Fibers**

Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
15 %	50 %	15 %	-	-

Matrix
10 %
Perlite 10 %

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<http://www.labcorpdx.net>*Asbestos and Environmental Analysis***Job Number: 162655****Report Number: 162655R01****Report Date: 06/16/2016****Client Sample ID: 73222.000-0306****Sample ID: S37****Date Analyzed: 06/16/2016****Client Sample Description:****Analyst: Stephanie Golden**

<u>Asbestos Mineral Fibers</u>		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01							
flexible vinyl, light gray		50 %	-	-	-		NAD
Layer 02							
fibrous backing, gray		49 %	-	-	-		NAD
Layer 03							
mastic, yellow		1 %	-	-	-		NAD
<u>Other Fibers</u>		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01		-	-	-	-	-	100 %
Layer 02		-	35 %	-	-	-	65 %
Layer 03		-	4 %	-	-	-	96 %

Client Sample ID: 73222.000-0307**Sample ID: S38****Date Analyzed: 06/16/2016****Client Sample Description:****Analyst: Stephanie Golden**

<u>Asbestos Mineral Fibers</u>		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous							
rubbery material, tan		100 %	-	-	-		NAD
<u>Other Fibers</u>		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
		-	-	-	-	-	100 %

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<http://www.labcorpdx.net>*Asbestos and Environmental Analysis***Job Number: 162655****Report Number: 162655R01****Report Date: 06/16/2016****Client Sample ID: 73222.000-0308****Sample ID: S39****Date Analyzed: 06/16/2016****Client Sample Description:****Analyst: Stephanie Golden**

Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01							
mastic, tan		2 %	-	-	-		NAD
Layer 02							
fine compact powder, white		10 %	-	-	-		NAD
Layer 03							
compact chalky material with paper, white		88 %	-	-	-		NAD
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01		-	-	-	-	-	100 %
Layer 02		-	-	-	-	-	100 %
Layer 03		-	3 %	-	-	-	97 %

Client Sample ID: 73222.000-0309**Sample ID: S40****Date Analyzed: 06/16/2016****Client Sample Description:****Analyst: Stephanie Golden**

Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous							
soft compact material, off-white		100 %	-	-	-		NAD
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
		-	-	-	-	-	100 %

Client Sample ID: 73222.000-0310**Sample ID: S41****Date Analyzed: 06/16/2016****Client Sample Description:****Analyst: Stephanie Golden**

Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous							
rubbery material, gray		100 %	-	-	-		NAD
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
		-	-	-	-	-	100 %



4321 SW Corbett Ave., Ste A
Portland, OR 97239

Asbestos and Environmental Analysis

Phone: (503) 224-5055
<http://www.labcorpdx.net>

Report Date: 06/16/2016

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Testing method is per 40 CFR 763 Subpart E, Appendix A, PLM.

- "NAD" is No Asbestos Detected.
- Asbestos consists of the following minerals: chrysotile, amosite, crocidolite, tremolite, actinolite, anthophyllite.
- Material binders, such as those found in vinyl floor tiles, may prevent the detection of small diameter asbestos fibers. A gravimetric preparation and point-count is recommended for such samples.
- Quantitative analysis by PLM point count or TEM may be recommended for samples testing at < or = to 1% asbestos.
- The following estimate of error for this method by visual estimation of asbestos percent are as follows:
 - 1% asbestos: 0-3% error, 5% asbestos: 1-9% error, 10% asbestos: 5-15% error, 20% asbestos: 10-30% error.
- This report pertains only to the samples listed on the report. Report considered valid only when signed by analyst

Reviewed by:

Ryan Brown

Ryan Brown
Analyst



Engineering +
Environmental

162655

162565

P1/s

162665

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 73222.000 Phase 0003

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: June 13, 2016

PBS Engineering and Environmental Inc.
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Hailey Edmeades
Name

H Edmeades
Authorized Signature

6/13 10:40A
Date Time

RECEIVER

Date Received: 6/13/16

Company: Lab Cor
Address: 4321 SW Corbett Ave Ste A
Portland, OR 97239
503-224-5055

Alex Schuman
Name

A Schuman
Authorized Signature

6/13/16 10:40
Date Time

Sender's ID No.

Brief Description

Receiver's ID No.

73222.000-0001

73222.000-0002

73222.000-0003

73222.000-0004

73222.000-0005

73222.000-0006

73222.000-0007

73222.000-0008

73222.000-0009

73222.000-0010

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73222.000-0014



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

73222.000-0015

73222.000-0016

73222.000-0017

73222.000-0101

73222.000-0102

73222.000-0103

73222.000-0201

73222.000-0202

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73222.000-0210

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73222.000-0309



Engineering +
Environmental

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TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

73222.000-0310 _____

Please analyze the enclosed 41 sample(s) for asbestos content using PLM with dispersion staining. PBS requests prior notification if samples will be disposed.

Request verbal results by: _____ AM/PM _____ Date.

Please fax and mail the results to the above address.

TURNAROUND DESIRED: 72 Hour

SPECIAL INSTRUCTIONS:

THIS IS TO CERTIFY THAT

DEREK MAY

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ASBESTOS INSPECTOR REFRESHER

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

Course Date: 04/07/2016

Course Location: Portland, OR

Certificate: IR-16-0009A



Engineering +
Environmental

Expiration Date: 04/07/2017

AHERA is the Asbestos Hazard
Emergency Response Act enacting Title II
of Toxic Substance Control Act (TSCA)

For verification of the authenticity of this
certificate contact:
PBS Environmental
4412 SW Corbett Avenue
Portland, OR 97239
(503) 248-1939

A handwritten signature in black ink, reading "Gregory N. Baker", is written over a horizontal line.

Greg Baker, Instructor

THIS IS TO CERTIFY THAT

RICH A. DUFRESNE

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

**ASBESTOS INSPECTOR / MANAGEMENT
PLANNER REFRESHER**

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

Course Date: 04/07/2016

Course Location: Portland, OR

Certificate: IMR-16-0264A



**Engineering +
Environmental**

Expiration Date: 04/07/2017

AHERA is the Asbestos Hazard
Emergency Response Act enacting Title II
of Toxic Substance Control Act (TSCA)

For verification of the authenticity of this
certificate contact:
PBS Environmental
4412 SW Corbett Avenue
Portland, OR 97239
(503) 248-1939

A handwritten signature in black ink, which appears to read "Greg M. Baker", is written over a horizontal line.

Greg Baker, Instructor