



**Valdez Airport**

**Valdez, Alaska**

**Hazardous Material Inspection Report**

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**Prepared for:**

**City of Valdez**

**212 Chenega Avenue**

**Valdez, AK 99686**

**Prepared by:**

**White Environmental Consultants, Inc.**

**383 Industrial Way, Suite 300**

**Anchorage, AK 99501**

**September 16, 2013**

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## **Scope of Work**

On September 6th, 2013 White Environmental Consultants Inc. (WEC) performed a hazardous material inspection of the Valdez Airport located at 300 Airport Road Valdez, Alaska.

The purpose of this survey is to provide our client, the City of Valdez, with professional guidance from which they may fulfill all relevant environmental and worker health and safety obligations through compliance with applicable Environmental Protection Agency (EPA), Alaska Department of Environmental Conservation (ADEC), and the Federal Occupational Safety and Health Administration (OSHA) and the Alaska's Department of Occupational Safety and Health (AKOSH) regulations during renovation activities conducted at the aforementioned property.

The interior of the building was inspected and/or sampled for asbestos containing materials (ACM) and suspected lead-containing paint (LCP) to determine specific renovation and disposal activities required if these materials are present.

WEC collected 22 samples consisting of 22 layers of suspected asbestos containing materials (ACM). Suspect materials identified and sampled include:

- a. Joint Compound
- b. Ceiling Tile
- c. Thermal System Insulation
- d. Gasket
- e. Ceramic Grout
- f. Marlite Mastic
- g. Roofing Debris

The materials listed above are an inventory of suspect ACM found throughout the building located at 300 Airport Road Valdez, AK; sample results by material will be addressed in the findings section of the report.

WEC collected 2 samples of suspect lead containing paints from various locations throughout the building. The purpose of the paint sampling was to characterize suspect paints to determine the need, if any, of lead compliance measures during the demolition process. Analysis was performed by flame atomic absorption spectroscopy EPA Method SW846-7420.

## **Inspection Findings**

### **Valdez Airport- Asbestos Containing Materials (ACM)**

WEC personnel collected 22 samples for a total of 22 discrete layers of suspected asbestos containing building materials from the building located at 300 Airport Road Valdez, AK. Of the 22 sample layers collected, 5 samples were found to contain asbestos. A summary of the materials containing asbestos is shown below and is described as positive along with the percentage of asbestos contained in the product. The inspection was specific to the 1<sup>st</sup> and second floor bathrooms and the boiler room and associated rooms. The inspection was not structure wide.

SAMPLE ID#	MATERIAL	LOCATION	ASBESTOS CONTENT
178-008	Gasket	HS/HR Line	40%
178-011	Gasket	Boiler Air, B-1 Red Line	40%
178-012	Gasket	Boiler Air, B-2 Red Line	40%
178-014	Joint Compound	Boiler Room Ceiling	4%
178-015	Joint Compound	Boiler Room Ceiling	4%

## Compliance Recommendations – Asbestos

### Joint Compound:

Five samples of joint compound were taken throughout the building at specific sample locations. Of these samples, two were found to contain asbestos in quantities greater than one percent. Asbestos containing joint compound was found to be present in the boiler room ceiling. All wall systems in the boiler room should be assumed to contain asbestos containing joint compound. Joint compound tested behind marlite panels in the first floor bath rooms was negative. There was no fished seam tape on drywall behind marlite panels in the second floor baths.

Joint compound in wall systems is considered to be a non-friable Category II asbestos containing material by the Environmental Protection Agency, and subject to Class II removal procedures as described by the Occupational Safety and Health Administration (OSHA) in 29 CFR.1910.1011. Any disturbance of gypsum wallboard in the rooms should only be performed by state certified asbestos abatement personnel.

### Gaskets:

Gaskets are considered a Regulated Asbestos Containing Material (RACM) by the EPA and a Class II non friable asbestos containing material by the Occupational Health and Safety Administration (OHSA). If the gasket material can be crushed, pulverized, or reduced to powder by hand pressure it would make it

a making it a friable asbestos containing material. Eight samples of gaskets were taken throughout the Valdez Airport boiler room. Three of the samples were found to contain asbestos in quantities greater than one percent. Those samples were found to be present on the HS/HR line, boiler air B-1 red line, and the boiler air B-2 red line. Assume all flange valve gaskets to be asbestos containing on the boiler room. This material has to be removed from the structure prior to renovation or demolition. Any disturbance of the material should only be performed by state accredited asbestos abatement personnel.

## **Regulatory Authority**

Code of Federal Regulations EPA 40 CFR Part 61 Subpart M (NESHAP), §61.145 Standard for demolition and renovation requires the removal of all Regulated asbestos-containing materials (RACM) from a building being demolished or renovated before any activity begins that would break up, dislodge, or similarly disturb the material or preclude access to the material for subsequent removal. Regulated asbestos containing material (RACM) is defined as (a) friable asbestos material, (b) Category 1 non-friable ACM that has become friable, (c) Category I non-friable ACM that will or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

EPA 40 CFR 61 Subpart M National Emission Standard for Asbestos requires the removal of regulated asbestos containing materials prior to the renovation or demolition of a building.

OSHA 29 CFR 1926.1101 requires specific worker training and removal methods for all asbestos disturbances in renovation and demolition procedures.

Always test building materials before disturbing the material in any way. Disturbance is defined as any activity that could disrupt the material's matrix that secures asbestos fibers within the material. Disturbance includes, but is not limited to, sanding, cutting, screwing, and nailing into the substrate.

## **Valdez Airport - Lead Containing Paint (LCP)**

WEC personnel collected two samples of suspected lead containing paints from the interior of the building located at 300 Airport Road Valdez, AK. Samples were analyzed by EPA Method SW846 – 7420. Upon laboratory analysis no detectable levels of lead were found in either sample from there respected sample location. No lead compliance measures need to be implemented for work in those specific areas.

## **Limitations**

WEC performed an asbestos and lead paint inspection of the interior of the building located at 300 Airport Road Valdez, AK. Asbestos-containing materials may exist in areas not accessible at the time of inspection. No destructive sampling was performed as the building was occupied at the time of inspection. Other suspect materials discovered during demolition not covered in this survey should be assumed to contain asbestos and treated as such until further sampling shows materials do not contain asbestos.

**Appendix A: Bulk Asbestos Analytical Report / Field Collection  
Forms**

**Bulk Sample Analysis for Asbestos**

WL Project #: LA-003841  
Client Project#: 13-CSLT-178

Report #: 99485  
Report By: A.Velasco  
Report Date: 9/11/2013

Client: White Environmental Consultants, Inc  
Billing Number: 25006  
383 Industrial Way, Suite #200  
Anchorage, AK 99501

Collection Date: 9/6/2013  
Collection By: B.O'Bray  
TAT: 48 Hour  
Analysis By: D.Milton  
Analysis Date: 9/11/2013  
Received By: Velasco  
Received Date: 9/10/2013

# Samples: 22 # Layers: 22

Project Name/Location: City of Valdez- Valdez Airport

Client ID#	WL Lab ID#	Location	Material	Layer
001	AB13-7522	Boiler stack room	Insulation	1 of 1
<b>ASBESTOS</b>			Homo- genous	Color
None Detected			No	Gray
<i>Other Fibrous Materials</i>			% Other Fibrous Materials: 30%	
Fibrous Glass 30%			% Non-Fibrous Materials: 70%	

Client ID#	WL Lab ID#	Location	Material	Layer
002	AB13-7523	Boiler stack room	Insulation	1 of 1
<b>ASBESTOS</b>			Homo- genous	Color
None Detected			No	Gray
<i>Other Fibrous Materials</i>			% Other Fibrous Materials: 30%	
Fibrous Glass 30%			% Non-Fibrous Materials: 70%	

Client ID#	WL Lab ID#	Location	Material	Layer
003	AB13-7524	Boiler stack room	Insulation	1 of 1
<b>ASBESTOS</b>			Homo- genous	Color
None Detected			No	Gray
<i>Other Fibrous Materials</i>			% Other Fibrous Materials: 30%	
Fibrous Glass 30%			% Non-Fibrous Materials: 70%	

Client ID#	WL Lab ID#	Location	Material	Layer
004	AB13-7525	Ceiling at boiler stack	Joint Comp	1 of 1
<b>ASBESTOS</b>			Homo- genous	Color
None Detected			No	White
<i>Other Fibrous Materials</i>			% Non-Fibrous Materials: 100%	
None Detected				



**Bulk Sample Analysis for Asbestos**

WL Project #: LA-003841  
Client Project#: 13-CSLT-178

Report #: 99485  
Report By: A.Velasco  
Report Date: 9/11/2013

Client ID#	WL Lab ID#	Location	Material	Layer
005	AB13-7526	Ceiling at boiler stack	Joint Comp	1 of 1
<b>ASBESTOS</b>				
None Detected			Homogenous	Color
Other Fibrous Materials			No	White
None Detected			% Non-Fibrous Materials: 100%	
006	AB13-7527	Air-B-2-Boiler	Gasket	1 of 1
<b>ASBESTOS</b>				
None Detected			Homogenous	Color
Other Fibrous Materials			No	Brown
None Detected			% Other Fibrous Materials: 80%	
Cellulose			% Non-Fibrous Materials: 20%	
Fibrous Glass			<1%	
80%				
007	AB13-7528	Cold water line	Gasket	1 of 1
<b>ASBESTOS</b>				
None Detected			Homogenous	Color
Other Fibrous Materials			No	Brown
None Detected			% Non-Fibrous Materials: 100%	
008	AB13-7529	HS/HR Line	Gasket	1 of 1
<b>ASBESTOS</b>				
None Detected			Homogenous	Color
Chrysotile			No	Black
40%			% Asbestos: 40%	
Other Fibrous Materials			% Non-Fibrous Materials: 60%	
None Detected				
009	AB13-7530	Boiler Air-B-1	Gasket	1 of 1
<b>ASBESTOS</b>				
None Detected			Homogenous	Color
Other Fibrous Materials			No	Red
None Detected			% Non-Fibrous Materials: 100%	

**Bulk Sample Analysis for Asbestos**

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Report #: 99485  
Report By: A.Velasco  
Report Date: 9/11/2013

Client ID#	WL Lab ID#	Location	Material	Layer
010	AB13-7531	Rear of boiler Air-B-1	Gasket	1 of 1
<b>ASBESTOS</b>				
<b>None Detected</b>		% Other Fibrous Materials: 95%	Homo- genous No	Color White
<b>Other Fibrous Materials</b>		% Non-Fibrous Materials: 5%		
Mineral Wool	95%			
011	AB13-7532	Boiler Air-B-1 Red Line	Gasket	1 of 1
<b>ASBESTOS</b>				
<b>None Detected</b>		% Asbestos: 40%	Homo- genous No	Color Black
<b>Other Fibrous Materials</b>		% Non-Fibrous Materials: 60%		
Chrysotile	40%			
012	AB13-7533	Boiler Air-B-2 Red Line	Gasket	1 of 1
<b>ASBESTOS</b>				
<b>None Detected</b>		% Asbestos: 40%	Homo- genous No	Color Black
<b>Other Fibrous Materials</b>		% Non-Fibrous Materials: 60%		
Chrysotile	40%			
013	AB13-7534	Boiler Air-B-2 Green Line	Gasket	1 of 1
<b>ASBESTOS</b>				
<b>None Detected</b>		% Non-Fibrous Materials: 100%	Homo- genous No	Color Red
<b>Other Fibrous Materials</b>				
<b>None Detected</b>				
014	AB13-7535	Boiler room, ceiling	Joint Comp	1 of 1
<b>ASBESTOS</b>				
<b>None Detected</b>		% Asbestos: 4%	Homo- genous No	Color Off-White
<b>Other Fibrous Materials</b>		% Non-Fibrous Materials: 96%		
Chrysotile	4%			
<b>None Detected</b>				

**Bulk Sample Analysis for Asbestos**

WL Project #: LA-003841  
Client Project#: 13-CSLT-178

Report #: 99485  
Report By: A.Velasco  
Report Date: 9/11/2013

Client ID#	WL Lab ID#	Location	Material	Layer
015	AB13-7536	Boiler room, ceiling	Joint Comp	1 of 1
<b>ASBESTOS</b>			<b>Homogenous</b>	<b>Color</b>
None Detected			No	Off-White
<i>Other Fibrous Materials</i>			<b>% Asbestos: 4%</b>	
Chrysotile 4%			<b>% Non-Fibrous Materials: 96%</b>	
<b>None Detected</b>				
016	AB13-7537	Cold water line	Insulation	1 of 1
<b>ASBESTOS</b>			<b>Homogenous</b>	<b>Color</b>
None Detected			No	Tan
<i>Other Fibrous Materials</i>			<b>% Other Fibrous Materials: 20%</b>	
Cellulose 20%			<b>% Non-Fibrous Materials: 80%</b>	
<b>None Detected</b>				
017	AB13-7538	1st floor, men's east bathroom	Grout	1 of 1
<b>ASBESTOS</b>			<b>Homogenous</b>	<b>Color</b>
None Detected			No	Gray
<i>Other Fibrous Materials</i>			<b>% Non-Fibrous Materials: 100%</b>	
<b>None Detected</b>				
018	AB13-7539	1st floor, men's east bath	Marlite Mastic	1 of 1
<b>ASBESTOS</b>			<b>Homogenous</b>	<b>Color</b>
None Detected			No	Yellow
<i>Other Fibrous Materials</i>			<b>% Non-Fibrous Materials: 100%</b>	
<b>None Detected</b>				
019	AB13-7540	1st floor, men's east bath	Joint Comp	1 of 1
<b>ASBESTOS</b>			<b>Homogenous</b>	<b>Color</b>
None Detected			No	White
<i>Other Fibrous Materials</i>			<b>% Non-Fibrous Materials: 100%</b>	
<b>None Detected</b>				

**Bulk Sample Analysis for Asbestos**

WL Project #: LA-003841  
 Client Project#: 13-CSLT-178

Report #: 99485  
 Report By: A.Velasco  
 Report Date: 9/11/2013

Client ID#	WL Lab ID#	Location	Material	Layer
020	AB13-7541	2nd floor, men's bath-above ceiling	Roofing Debris	1 of 1
<b>ASBESTOS</b>			<b>Homogenous</b>	<b>Color</b>
None Detected			No	Black
<i>Other Fibrous Materials</i>			% Other Fibrous Materials: <1%	
			% Non-Fibrous Materials: 100%	
<i>Cellulose</i>		<1%		
<i>Fibrous Glass</i>		<1%		

Client ID#	WL Lab ID#	Location	Material	Layer
021	AB13-7542	2nd floor, men's bath	Ceiling Tile	1 of 1
<b>ASBESTOS</b>			<b>Homogenous</b>	<b>Color</b>
None Detected			No	Off-White
<i>Other Fibrous Materials</i>			% Other Fibrous Materials: 90%	
			% Non-Fibrous Materials: 10%	
<i>Cellulose</i>		30%		
<i>Mineral Wool</i>		60%		

Client ID#	WL Lab ID#	Location	Material	Layer
022	AB13-7543	2nd floor, women's bath	Marlite Mastic	1 of 1
<b>ASBESTOS</b>			<b>Homogenous</b>	<b>Color</b>
None Detected			No	Yellow
<i>Other Fibrous Materials</i>			% Non-Fibrous Materials: 100%	
None Detected				

Milton Dave, Lab Analyst

Date 9/11/2013

Date 9/11/2013

Analysis performed by EPA Method 600/R-93/116. All quantities reported are based on visual estimation by PLM, unless point-counting method is requested and noted for the sample. Test report relates only to items tested and must not be used by client to claim product endorsement by NVLAP or any agency of the U.S. Government. Test reports must not be reproduced without the approval of WL, LLC, and are subject to WL, LLC. General Terms and Conditions (see reverse).



383 Industrial Way, Anchorage, Alaska 99501  
Phone (907) 258-8661 Fax (907) 258-8662

PROJECT NAME: Valdez Airport  
 LOCATION: Valdez PROJECT NO. 13CSC1-178  
 CLIENT: City of Valdez DATE: 9/6/13  
 CLIENT PROJECT# \_\_\_\_\_ SHEET NO. 1 OF 2

### CHAIN OF CUSTODY RECORD – ANALYTICAL REQUEST

ANALYSIS REQUESTED (circle) PCM <u>(PLM)</u> TEM LEAD	TURNAROUND REQUESTED <u>48 hr</u>	NO. OF SAMPLES <u>22</u>	COLLECTION DATE: <u>9/6/13</u>
RELINQUISHED BY: <u>Brett Obray</u>	DATE / TIME <u>9/6/13</u>	SAMPLES RECEIVED BY <u>[Signature]</u>	DATE / TIME <u>9-10-13 1630</u>
SHIPPING METHOD	COURIER (signature)	SAMPLES RECEIVED BY	DATE / TIME

COMMENTS

LA-003841

SAMPLE ID#	MATERIAL	LOCATION	COMMENTS
001	TSI (Boiler stack)	Boiler stack room	
002	" "	" "	
003	" "	" "	
004	joint temp	@ ceiling surrounding B. stack	
005	" "	" "	" "
006	Flange valve gasket	Air-B-2 Boiler	
007	Flange valve gasket	cold water line	
008	Flange valve gasket	HS / HR line	
009	" "	Boiler Air-B-1 green line	
010	" "	Rear of Boiler Air-B-1	
011	" "	Boiler Air-B-1 Red line	
012	" "	Boiler Air-B-2 Red line	
013	" "	Boiler Air-B-2 green line	
014	joint temp	Boiler Rm ceiling	
015	joint temp		





# Analysis for Lead Concentration in Paint Chips

by Flame Atomic Absorption Spectroscopy  
EPA SW-846 3rd Ed. Method No. 3050B/Method No. 7420



**Customer:** White Laboratories LLC  
383 Industrial Way  
Ste 300  
Anchorage AK 99501

**Attn:** Joel Hicklin  
Matt White

**Lab Order ID:** 1316598

**Analysis ID:** 1316598\_PBP

**Date Received:** 9/12/2013

**Date Reported:** 9/13/2013

**Project:** AK-0164,WEC/Valdez Airport

Sample ID	Description	Mass (g)	Analytical Sensitivity (% by weight)	Concentration (% by weight)
Lab Sample ID	Lab Notes			
P-001	Boiler room	0.0800	0.002%	< 0.005%
1316598PBP_1				
P-002	1st floor men's bathroom East	0.0626	0.002%	< 0.006%
1316598PBP_2				

The quality control samples run with the samples in this report have passed all AIHA required specifications unless otherwise noted. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by AIHA or any other agency of the U.S. government. (R.L. = 0.01 wt.%)

Melissa Sharps (2)

Analyst

Laboratory Director





## **Appendix B: Lead Sample Results/ Field Collection Forms**