

May 12, 2015

Lake Oswego School District #7J Rob Dreier Director of Facility Operations 2455 Country Club Road PO Box 70 Lake Oswego, Oregon 97034-0070

Re: Limited Asbestos, Lead Paint, and Fungal Investigation

Lake Oswego School District Swim Pool Building

PBS Project No. 21600.036 Phase 0001

Dear Mr. Dreier:

On April 13, 2015, PBS Engineering and Environmental Inc. (PBS) conducted a limited asbestos, lead paint, and fungal investigation on a wall assembly section located above the bleachers. The study area was approximately 4–6 square feet in size. Moisture impacts and deteriorated wallboard materials were observed. The wall assembly consisted of gypsum wallboard with mudded joints and wood framing. PBS tested the gypsum wallboard for asbestos and fungal impacts. The paint on the gypsum wallboard was also tested for lead content. Below is a summary of our findings.

FINDINGS

Asbestos Results

PBS collected one (1) bulk sample from the gypsum wallboard assembly. The joint compound layer tested positive for asbestos. Please refer to the attached PBS bulk sample inventory and associated laboratory report for further details.

Lead Paint Results

PBS collected one (1) lead paint sample from the impacted gypsum wallboard area above the bleachers. The white, peeling paint tested negative for lead paint. The results were below the limit of detection. Please refer to the attached lead sample inventory and associated laboratory report for further details.

Fungal Sampling and Results

PBS collected two (2) bulk samples from moisture impacted wall assembly. No fungi were observed on either sample. Please refer to the attached laboratory report for further details.

CONCLUSIONS/RECOMMENDATIONS

- Asbestos-containing joint compound was identified in the damaged wall assembly. This material must be handled, removed, and disposed of by certified asbestos abatement workers.
- Lead was not detected in the white paint found in this location.
- Fungal activity was not identified in this location.

Rob Dreier

Re: LOSD Swim Pool Building - Limited Asbestos, Lead Paint, and Fungal Investigation

May 12, 2015 Page 2 of 2

Feel free to contact me if you have any questions or concerns. My direct line is 503.417.7607.

Sincerely,

PBS Engineering and Environmental Inc.

Bob Kleckner Sr. Project Manager

Attachments: Photo Documentation

PBS Asbestos Bulk Sample Inventory

Lab/Cor Portland Inc. Asbestos Analysis Laboratory Report

PBS Lead Paint Sample Inventory

RJ Lee Group Lead Paint Analysis Laboratory Report

Lab/Cor Inc. Fungal Identification Analysis Laboratory Report

AHERA Certification



Photo 1: Gypsum wallboard impacts. Wall assembly above the bleachers.



Photo 2: Close-up of previous.

<u>Code</u>	<u>Material</u>		Location	Results	<u>Lab</u>
21600.036-0003	Gypsum Wallboard Compound	d/Joint	West wall; above bleachers, gyp compound	sum wallboard/joint	Lab Cor
		Layer:	Description:	Analysis:	
		Layer 1	fine compact powder, off- white, with paint, white, and fibrous backing	2% Chrysotile	
		Layer 2	chalky material, white	No Asbestos Detected	
		Layer 3	friable fibrous material, brown	No Asbestos Detected	

LabCor Portland Inc

Lab/Cor Portland, Inc.

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

BULK SAMPLE ASBESTOS ANALYSIS

Phone: (503) 224-5055 Fax: (503) 228-8282 http://www.labcorpdx.net

Asbestos and Environmental Analysis

<u>Client:</u> PBS Engineering and Environmental

4412 SW Corbett Avenue Portland, OR 97239 **Report Number:** 150912R01 **Report Date:** 04/20/2015

P.O. No: n/a

Job Number: 150912

Project Name: Project Number:

21600.036 Phase 0001

Project Notes:

Client Sample ID: 216 Client Sample Descript	600.036 ion:	-0003		Sample ID:	S1		Date Analyzed: Analyst:	04/20/2015 Ellie Brown	
Asbestos Mineral Fiber		Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Layer 01									
fine compact powder white, with paint, white and fibrous backing		40 %	2 %	-	-				2 %
Layer 02									
chalky material, white	е	15 %	-	-	-				NAD
Layer 03									
friable fibrous materia brown	al,	45 %	-	-	-				NAD
Other Fibers	Fibrous		Mineral						
	Glass	Cellulos	se Wool	Synthetic		Other			Matrix
Layer 01	-	3 %	-	-		-	-		95 %
Layer 02	-	Trace	-	-		-	-		100 %
Layer 03	10 %	5 %	-	-		-	-		85 %

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

Layered samples are considered non-homogeneous. "Misc" is miscellaneous. "NAD" is No Asbestos Detected. Asbestos consists of the following minerals: chrysotile, amosite, crocidolite, tremolite, actinolite, anthophyllite. Small diameter fibers such as those found in vinyl floor tiles, may not be detected by PLM.

Asbestos detection interferences may result from material binders.

Qualitative and quantitative TEM analysis may be recommended for difficult samples.

Quantitative analysis by PLM point count or TEM is 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:

Ellie Brown
Analyst

Page No.: Page 1 of 1





Phase 0001

Engineering + Environmental

150912

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

tet and complete. The Sender should keep a copy and send the he original to the Sender. Receiver shall report damage of
RECEIVER
Date Received: 4-13-15 4:05 PM
Company: Lab Cor Address: 4321 SW Corbett Ave Ste A Portland, OR 97239 503-224-5055 Ryan Brown Name Mame H-13-15 Autilorized Signature Receiver's ID No.
ent using PLM with dispersion staining. PBSDate.

Project No.:

21600.036

<u>Code</u>	<u>Material</u>	<u>Analysis</u>	<u>Location</u>	<u>Lab</u>
PAINT				
LB21600.036-1001	Paint	<99.5 ppm	West wall above bleachers; wall, gypsum/joint compound, white, peeling condition	R.J. Lee Group



LABORATORY REPORT

PBS Environmental - Portland, OR 4412 Southwest Corbett Ave. Portland, OR 97239

Attn: Harmony Kilby Phone: 503-248-1939 Fax: 866-727-0140

Email: harmony.kilby@pbsenv.com

RJ Lee Group Job No.: PA140420150013 Samples Received: April 14, 2015 Report Date: April 21, 2015 Client Project: 21600.036 Phase 0001

Purchase Order No.: N/A Matrix: Solid

Prep/Analysis: EPA 3050B / EPA 7000B

				Sample C	oncentration	Minimum R	Leporting Limit		,
Client Sample ID	RJ Lee Group ID	Sampling Date	Analyte	Weight Percent (%)	Parts per Million (PPM) - mg/kg	Weight Percent (%)	Parts per Million (PPM) - mg/kg	Analysis Date	Q
LB21600.036-1001	PA140420150013-001	NP	Lead	< 0.00995	< 99.5	0.00995	99.5	04/14/2015	_

Comments:

Report Qualifiers (Q):

P: PA-DEP Accredited (PA DEP Lab ID 02-00396, NELAP)

N: NY ELAP Accredited (NY ELAP Lab Code 10884)

C: CA ELAP Accredited (CA ELAP Certificate 1970)

E = Value above highest calibration standard

J = Value below lowest calibration standard but above MDL (Method Detection Limit)

L = LCS (Laboratory Control Standard)/SRM (Standard Reference Material) recovery

outside accepted recovery limits

H = Holding times for preparation or analysis exceeded

B = Analyte detected in the associated Method Blank S = Spike Recovery outside accepted limits

R = RPD (relative percent difference) outside accepted limits

D = RL (reporting limit verification) outside accepted limits

NP = Not Provided

- : Test (analyte-matrix-preparation-analysis) is performed under R]LG's General Quality System requirements and is not part to any of the above scopes of accredidations

These results are submitted pursuant to RI Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples. This laboratory operates in accord with ISO 17025:2005 guidelines, and holds a limited scope of accreditations under different accrediting agencies; refer to http://www.rijg.com/about-us/accreditations/ for more information and current status. This report may not be used to claim product

endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or to the sample(s) as received by the laboratory. Any reproduction of this document must be in full for the report to be valid.

Unless otherwise noted (either in the comments section of the report and/or with the appropriate qualifiers under the report qualifiers (Q) column) the following apply: (a) Samples were received in good condition, (b) All QC samples are within acceptable established limits, (c) All samples designated as NELAP meet the requirements of the NELAC standard; if not applicable qualifiers will be used to designate the non-compliance and (d) Results have not been blank corrected. Quality Control data is available upon request.

Philip Servicelle
Philip Grindle



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PA140420150013

TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

Project No.:	21600.036 F	Phase 0001		
Individuals signing original. The Recei package immediate	iver should complete th	the information provided is cor re form, keep a copy and return	rect and complete. The Sender should k the original to the Sender. Receiver sha	eep a copy and send the ill report damage of
SENDER			RECEIVER	
Date Sent:	April 13, 2015		Date Received: 04-14	-15
4412 SW Corb Portland, OR S	97239 Fax: 866.727.014		Company: R.J. Lee Group Address: 350 Hochberg Ros Monroeville, PA 1 724-325-1776 Tashna Tiscus Name Authorized Signature	
Sender's ID No LB21600.036-1	-	Brief Description	Receiver's ID No.	
ANALYSIS R	EQUESTED:		eed 1 sample(s) for LEAD content using Ato ior notification if samples will be disposed.	mic Absorption
	Paint Wipe Soil/Misc. Air	Please fax and mail the re TURNAROUND DI 5 Day	esults to the above address.	
SPECIAL INS	TRUCTIONS:			



Analysis Report Cover Final Report

Phone: (206) 781-0155 Fax: (206) 789-8424 http://www.labcor.net

Report Number: 150291R02

Report Date: 4/22/2015

A Professional Service Corporation in the Northwest

Job Number: 150291 **SEA**

Client: PBS Engineering + Environmental

Address: 4412 SW Corbett Ave Portland, OR 97239

Project Name: Lake Oswego Swim Ctr. Project No.: 21600.036

PO Number: 0002 Sub Project: Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

		•		-	
I	Lab/Cor Sample #	Client Sample # and Description	Analysis	Analysis Notes	Date Received:
1	50291 - S1	002 - West Wall, Above Bleachers, All Layers	NV, Bulk, Fungal ID Qual.	No Fungi Observed	4/15/2015
1	50291 - S2	003 - West Wall, Above Bleachers , Underlying Layers	NV, Bulk, Fungal ID Qual.	No Fungi Observed	4/15/2015

Nonviable Bulk Bulk samples follow preparation and analysis techniques outlined in Method 6 of the laboratory SOP. Sub-samples were collected from areas of known or suspected microbial growth on the submitted sample. If appropriate, each layer was separated and sampled to determine whether fungal colonization was present.

> Characteristic morphologies were observed by optical microscopy at a magnification of 600x. Bulk samples that were analyzed qualitatively were reported in Relative Abundance of fungal and particulate types; High, Moderate, Low, and Trace. The Minimum Reporting Limit for qualitative samples is Trace (1-10 count in sample portion examined). Bulk samples that were analyzed quantitatively were reported as the total concentration for each fungal and particulate type.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely.

Derk Wipprecht Laboratory Supervisor

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150291

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Funga	

Client: PB	Address: 44	City, State, Zip:	Contact: Ks	Phone: (503
Lab/Cor, Inc	7619 6 th Ave NW Seattle, WA 98117		Office (206) 781-0155	Fax (206) 789-8424

	Analysis Type:
JRS FOR SOFTING COM LAW TON	Nonviable Options:
	Lineal ID
3: 4412 SW Corpet Ave.	Fungal & Particulate
tope 7in Portland O.P. 97739	Particulate ID
duc, 24p.	Quantitative Analysis
For Kleckner	(Total Count)
(503) 209-1476 Fax:	Qualitative Analysis
the Wednera she and can	(Relative Abundance
	Viable Options.
Info:	Complete Analysis

Lab/Cor, Inc 7619 6th Ave NW Seattle, WA 98117 Office (206) 781-0155 Fax (206) 789-8424	Client: PBS Ensineering Address: 4412 SW Corber City, State, Zip: Portland OR Contact: Rob Kleck-Nec Phone: (503) 209-1476 Fax:		and Environmenta 4 Ave. 97289	ן	Merica	×	Analysis Type: Nonviable Options: Fungal ID Fungal & Particulate ID Particulate ID Ouantitative Analysis (Total Count)	Itype: nions: rriculate ID D Analysis t) Analysis		Turnar 1	Turnaround Time: 6 hr RUSH* 24 hours* 48 hours 3 days (NV Std) \$\times 5 \text{ days}	.
mail@labcor.net www.labcor.net	Email: beb. Clechas (a) Other Info:	wa pbse	pbsenv.com				(Ketanve Abundance) Viable Options: Complete Analysis Genera Only_Stachy Only	undance) otions: nalysis _Stachy C	nıly	(7)	(7-10 days)	
Project Name: Lake Oswego	Oswego Swim (41.		Project Number:	i I	21600,036		6 4 	P.O. Number:	ber:	2000	5	
			Sample Information	ormation			٠	Samp	ling Infe	Sampling Information		
	A	Sample Air Swab B	Sample Type Bulk Dust	st Tape	Me	Cype	Sample	Sample Time	Sam	Sample Flow Rate	Total Volume	al
Sample # Samp	Sample Description NV	VN V VN V	AN A	V NV	MEA Stateny	Omer	Date	On Off	Start	End A	Avg / Area	ea
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* Call ahead for TATs of 24 hours or less By signing below you are agreeing to comply with Lab/Cor's Requests, Tenders and Contracts. Receivedby Relinquished by: Nother

THIS IS TO CERTIFY THAT

NATHAN CARLSON

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:

07/11/2014

Course Location:

Portland, OR

Certificate:

IR-14-1775B

PBS

Engineering + Environmental

Expiration Date:

07/11/2015

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

David Stover

David Stover, Director of Training