



Asbestos Bulk Sample Results

Client: **City of Vancouver**
Location: **453 West 12 Avenue, Vancouver, BC (City Hall - Exterior Tank Bunker)**
Submitted By: **Rebecca Yanciw**

Project #: 17-12338
Date: 20-Jul-17
Submission Date: 13-Jul-17

The samples below have been analyzed in accordance with NIOSH Method 9002, Issue 2.

SAMPLE NUMBER	SAMPLE LOCATION & DESCRIPTION	PHASE / LAYER DESCRIPTION	PHASE / LAYER CONTENT % (Vol/Vol)	ASBESTOS RESULT		OTHER FIBRES DETECTED		NON-FIBROUS MATERIALS		LAB ANALYST
				TYPE	CONTENT % (Vol/Vol)	TYPE	CONTENT % (Vol/Vol)	TYPE	CONTENT % (Vol/Vol)	
17-12338.0001	A001 - Grey Putty at Edge of Tank Bunker Grey Putty	1) Stretchy Grey Putty Compound	100%	None Detected	N/A	None Detected	N/A	Putty Compound	100%	EH

Your P.O. #: 4700002203
Site Location: CITY HALL BOILER ROOM
Your C.O.C. #: 08441648

Attention: Rebecca Yanciw

City of Vancouver
West Broadway
320-507 West Broadway Avenue
Vancouver, BC
Canada V5Z 0B4

Report Date: 2017/07/14
Report #: R2412619
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B757705

Received: 2017/07/13, 16:10

Sample Matrix: PAINT
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Elements by ICP-AES (acid extr. solid)	1	2017/07/14	2017/07/14	BBY7SOP-00018	EPA 6010c R3 m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

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CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B757705
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Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Morgan Melnychuk, Burnaby Project Manager

Email: MMelnychuk@maxxam.ca

Phone# (604)638-8034 Ext:8034

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This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B757705
Report Date: 2017/07/14

City of Vancouver
Site Location: CITY HALL BOILER ROOM
Your P.O. #: 4700002203
Sampler Initials: RY

LEAD IN PAINT CHIPS (PAINT)

Maxxam ID		RM8148		
Sampling Date		2017/07/13		
COC Number		08441648		
	UNITS	L001 - WHITE PAINT ON ELECTRICAL BOARD	RDL	QC Batch
Total Metals by ICP				
Total Lead (Pb)	mg/kg	445	3.0	8694509
RDL = Reportable Detection Limit				

Maxxam Job #: B757705
Report Date: 2017/07/14

City of Vancouver
Site Location: CITY HALL BOILER ROOM
Your P.O. #: 4700002203
Sampler Initials: RY

GENERAL COMMENTS

Results relate only to the items tested.

Maxxam Job #: B757705
Report Date: 2017/07/14

QUALITY ASSURANCE REPORT

City of Vancouver
Site Location: CITY HALL BOILER ROOM
Your P.O. #: 4700002203
Sampler Initials: RY

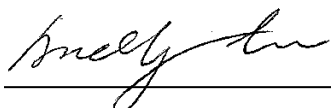
QC Batch	Parameter	Date	Method Blank		RPD		QC Standard	
			Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8694509	Total Lead (Pb)	2017/07/14	<3.0	mg/kg	22	35	87	80 - 120
<p>Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.</p> <p>QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.</p> <p>Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.</p>								

Maxxam Job #: B757705
Report Date: 2017/07/14

City of Vancouver
Site Location: CITY HALL BOILER ROOM
Your P.O. #: 4700002203
Sampler Initials: RY

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Burnaby: 4606



B757705 COC

Fax: (604) 731-2386, Toll Free: (800) 665-8566

COC 4



08441648

CHAIN OF CUSTODY RECORD

ber.

Page: 1 of 1

Invoice To: Require Report?

☒ ☐

Company Name:	City Of Vancouver	
Contact Name:	Accounts Payable	
Address:	PO BOX 7757 - 349 West Georgia St.	
	Vancouver	PC: V6B 0L5
Phone / Fax#:	Ph:	Fax:
E-mail	APInvoice@vancouver.ca	

Report To:

Company Name:	City Of Vancouver	
Contact Name:		
Address:	507 West Broadway	
	Office 320	PO:
Phone / Fax#:	Ph: 604-	Fax:
E-mail	rebceca.yanciw@vancouver.ca	

PO #:	
Quotation #:	
Project # :	
Proj. Name:	
Location:	City Hall Boiler Room
Sampled by:	R. Yanciw

REGULATORY REQUIREMENTS:

- ☐ CSR
☐ CCME
☒ BC Water Quality
☐ Other Lead
- DRINKING WATER

SERVICE REQUESTED:

- Regular Turn Around Time (TAT) ☐
(5 days for most tests) ☐
☒ **USH** (Please contact the lab)
1 Day 2 Day 3 Day

SPECIAL INSTRU	IONS:
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Return Cooler	Ship Sample Bottles (please specify)
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ANALYSIS REQUESTED

[illegible]

Print name and sign

Print name and sign

Laboratory Use Only

*Relinquished By:	Date (yy/mm/dd):	Time (24hr):	Received by :	Date (yy/mm/dd):	Time (24 hr):	<input type="checkbox"/> Time Sensitive	Temperature on Receipt (°C)	Custody Seal	Yes	No
R. Yanciw	17/07/13	09:00	<i>[Signature]</i> RON HAPPE	2017/07/13	16:10		A) <i>[Signature]</i> B) <input type="checkbox"/> C) <input type="checkbox"/>	Present?	<input type="checkbox"/>	<input type="checkbox"/>
							Just sampled & rec'd on ice: <input type="checkbox"/>	Intact?	<input type="checkbox"/>	<input type="checkbox"/>

IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDS. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.