

Maxxam Job Number: B538612
Report Date: 2015/06/03

PUBLIC WORKS & GOVERNMENT SERVICES CANADA
Client Project #: R.065684.003
Site Location: NORTH PORTAL, SK
Your P.O. #: 20150507-091256

RESULTS OF CHEMICAL ANALYSES OF SOLID

Maxxam ID		MF4218		
Sampling Date		2015/04/29 13:00		
	Units	01-LP-02	RDL	QC Batch
Metals				
LEACHATE Lead (Pb)	mg/L	0.11	0.10	7920614

RDL = Reportable Detection Limit

Results relate only to the items tested.

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ASBESTOS IDENTIFICATION (SOLID)

Maxxam ID		MF4210	MF4211	MF4212	MF4213	MF4214	MF4215
Sampling Date		2015/04/29 13:00	2015/04/29 13:00	2015/04/29 13:00	2015/04/29 13:00	2015/04/29 13:00	2015/04/29 13:00
	Units	01-ACM-01	01-ACM-02	01-ACM-03	01-ACM-04	01-ACM-05	01-ACM-06
Asbestos Type							
Actinolite	% vol/vol	<0.5	<0.5	<0.5	<0.5	0.5-10	<0.5
Amosite	% vol/vol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthophyllite	% vol/vol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysotile	% vol/vol	<0.5	<0.5	10-30	<0.5	<0.5	<0.5
Crocidolite	% vol/vol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tremolite	% vol/vol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Others							
Cellulose	% vol/vol	10-30	0.5-20	<0.5	0.5-20	<0.5	90-99
Filler	% vol/vol	70-90	80-99	70-90	80-99	90-99	0.5-10
Glass Fibres	% vol/vol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hair	% vol/vol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Other Fibers	% vol/vol	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

RDL = Reportable Detection Limit

Results relate only to the items tested.

MF4216		
2015/04/29 13:00		
01-ACM-07	RDL	QC Batch
0.5-10	0.5	7905477
<0.5	0.5	7905477
<0.5	0.5	7905477
<0.5	0.5	7905477
<0.5	0.5	7905477
<0.5	0.5	7905477
<0.5	0.5	7905477
90-99	0.5	7905477
<0.5	0.5	7905477
<0.5	0.5	7905477
<0.5	0.5	7905477

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ELEMENTS BY ATOMIC SPECTROSCOPY (SOLID)

Maxxam ID		MF4217		MF4218	
Sampling Date		2015/04/29 13:00		2015/04/29 13:00	
	Units	01-LP-01	RDL	01-LP-02	QC Batch
TCLP Extraction Procedure					
Initial pH of Sample	pH			8.30	7918915
pH after HCl	pH			1.49	7918915
Final pH of Leachate	pH			5.62	7918915
pH of Leaching Fluid	pH			4.95	7918915
Total Metals by ICP					
Total Lead (Pb)	mg/kg	892	3.0		7901488

RDL = Reportable Detection Limit

Results relate only to the items tested.

GENERAL COMMENTS

All layers found are homogeneous

Site Location: North Portal, SK

Revised Report (2015/06/03): TCLP Lead added to sample.

Sample MF4210-01 : 2 layers: White vinyl sheet flooring and Grey fibrous backing

Sample MF4211-01 : 2 layers: Grey flooring material and Black fibrous backing

Sample MF4212-01 : 2 layers: Beige vinyl sheet flooring and Grey fibrous backing. Asbestos is found in the Grey fibrous backing

Sample MF4213-01 : 3 layers: Brownish flooring material, Black fibrous backing, and Red mix

Sample MF4214-01 : Vermiculite sample

Sample MF4215-01 : 2 layers: White paint and Yellow fibrous mix

Sample MF4216-01 : Vermiculite sample

Sample MF4218-01 : Insufficient sample received to use standard sample weight (100g) for TCLP extraction as per Reference Method EPA 1311 R1992. The uncertainty of the analysis may be increased.

Results relate only to the items tested.

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PUBLIC WORKS & GOVERNMENT SERVICES CANADA
Attention: LAURA BARZ
Client Project#: R.065684.003
Your P.O. #:20150507-091256
Site Location: NORTH PORTAL, SK

Quality Assurance Report
Maxxam Job Number: B538612

QA/QC Bat Init		QC Type	Parameter	Date Analy Value		Recovery	Units	QC Limits
7901488	JXV	QC Standard	Total Lead (Pb)	2015/05/14		94	%	80 - 120
7901488	JXV	Method Blank	Total Lead (Pb)	2015/05/14	<3.0		mg/kg	
7901488	JXV	RPD	Total Lead (Pb)	2015/05/14	NC		%	35
7920614	DJ	Matrix Spike	LEACHATE Lead (Pb)	2015/06/02		96	%	75 - 125
7920614	DJ	Spiked Blank	LEACHATE Lead (Pb)	2015/06/02		99	%	75 - 125
7920614	DJ	Method Blank	LEACHATE Lead (Pb)	2015/06/02	<0.10		mg/L	
7920614	DJ	RPD	LEACHATE Lead (Pb)	2015/06/02	NC		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).