

Your Project #: CLO2 MFG FORMULA
Site Location: MONTREAL, QC
Your C.O.C. #: a109802

Attention:PIERRE STEWART

West Penetone Inc.
10900 Secant
Montreal, QC
Canada H1J 1S5

Report Date: 2014/12/05
Report #: R1698430
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B4A6707

Received: 2014/11/24, 08:50

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Chlorate and Chlorite by IC	2	N/A	2014/11/29	CAL SOP-00040	SM 22 4110 D m

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

Encryption Key  Sasha Gallant
05 Dec 2014 17:22:31 -07:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Sasha Gallant, Project Manager 2
Email: sgallant@maxxam.ca
Phone# (403)735-2204

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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.

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Site Location: MONTREAL, QC
Sampler Initials: PS

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		LF3609	LF3610		
Sampling Date		2014/11/21 10:10	2014/11/21 10:30		
COC Number		a109802	a109802		
	Units	CLO2 MIX- 2 PPM	CLO2 MIX- 1 PPM	RDL	QC Batch
Anions					
Dissolved Chlorate (ClO ₃)	mg/L	1.0	0.49	0.10	7736811
Dissolved Chlorite (ClO ₂)	mg/L	1.5	0.71	0.10	7736811
RDL = Reportable Detection Limit					

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	13.0°C
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Results relate only to the items tested.

QUALITY ASSURANCE REPORT

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
7736811	Dissolved Chlorate (ClO3)	2014/11/29	94	80 - 120	97	80 - 120	<0.10	mg/L	NC	20
7736811	Dissolved Chlorite (ClO2)	2014/11/29	91	80 - 120	93	80 - 120	<0.10	mg/L	NC	20

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.

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).

VALIDATION SIGNATURE PAGE

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



Michelle Fritz Gatehouse, Senior Analyst

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