

Your C.O.C. #: 483862-02-01

Attention:Mike Squire

City of Parksville
Engineering and Operations Dpt
PO Box 1390
Parksville, BC
Canada V9P 2H3

Report Date: 2015/12/17
Report #: R2099231
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B5B1103

Received: 2015/12/15, 11:10

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
VOCs, VH, F1, LH in Water by HS GC/MS	4	2015/12/16	2015/12/16	BBY8SOP-00009	EPA 8260c R3 m

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.

Encryption Key

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

Shanaz Akbar, Project Manager

Email: SAKbar@maxxam.ca

Phone# (604)639-2618

=====

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 #: B5B1103
Report Date: 2015/12/17

City of Parksville

TRIHALOMETHANES (THM) IN WATER

Maxxam ID		NV5355	NV5356	NV5357	NV5358		
Sampling Date		2015/12/14 11:30	2015/12/14 11:50	2015/12/14 01:15	2015/12/14 01:00		
COC Number		483862-02-01	483862-02-01	483862-02-01	483862-02-01		
	UNITS	851 TEMPLE	450 WISTERIA	1116 HERRING GULL	CORFIELD	RDL	QC Batch
Volatiles							
Chloroform	ug/L	1.1	1.1	3.1	<1.0	1.0	8145765
Chlorodibromomethane	ug/L	3.2	3.2	4.9	3.3	1.0	8145765
Bromodichloromethane	ug/L	1.9	1.9	3.9	1.9	1.0	8145765
Bromoform	ug/L	1.7	1.6	1.8	1.6	1.0	8145765
Surrogate Recovery (%)							
1,4-Difluorobenzene (sur.)	%	100	105	103	103		8145765
4-Bromofluorobenzene (sur.)	%	92	97	94	94		8145765
D4-1,2-Dichloroethane (sur.)	%	99	105	103	102		8145765
RDL = Reportable Detection Limit							

Maxxam Job #: B5B1103
Report Date: 2015/12/17

City of Parksville

GENERAL COMMENTS

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

Package 1	9.3°C
-----------	-------

Results relate only to the items tested.

Maxxam Job #: B5B1103
Report Date: 2015/12/17

QUALITY ASSURANCE REPORT

City of Parksville

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8145765	1,4-Difluorobenzene (sur.)	2015/12/16	102	70 - 130	102	70 - 130	102	%		
8145765	4-Bromofluorobenzene (sur.)	2015/12/16	104	70 - 130	103	70 - 130	96	%		
8145765	D4-1,2-Dichloroethane (sur.)	2015/12/16	102	70 - 130	100	70 - 130	97	%		
8145765	Bromodichloromethane	2015/12/16	110	70 - 130	105	70 - 130	<1.0	ug/L	NC	30
8145765	Bromoform	2015/12/16	104	70 - 130	107	70 - 130	<1.0	ug/L	NC	30
8145765	Chlorodibromomethane	2015/12/16	108	70 - 130	105	70 - 130	<1.0	ug/L	NC	30
8145765	Chloroform	2015/12/16	112	70 - 130	106	70 - 130	<1.0	ug/L	NC	30

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.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

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).

Maxxam Job #: B5B1103
Report Date: 2015/12/17

City of Parksville

VALIDATION SIGNATURE PAGE

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



Andy Lu, Data Validation Coordinator

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 Analytics International Corporation o/a Maxxam Analytics
 4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-Free: 800-563-6266 Fax: (604) 731 2386 www.maxxam.ca

Chain Of Custody Record

Page 1 of 1

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7634 City of Parksville	Company Name	City of Parksville	Quotation #	B30230	Maxxam Job #	B5B1103
Contact Name	Barbara Sileniefs	Contact Name	Barbara Sileniefs	P.O. #		Bottle Order #:	483862
Address	Engineering and Operations Dpt PO Box 1390 Parksville BC V9P 2H3	Address		Project #		Chain Of Custody Record	Project Manager
Phone	(250) 248-5412 Fax: (250) 248-6140	Phone		Project Name		Shanaz Akbar	
Email	bsileniefs@parksville.ca	Email	bsileniefs@parksville.ca	Site #		CE483862-02-01	

Regulatory Criteria: <input type="checkbox"/> CSR <input type="checkbox"/> CCME <input type="checkbox"/> BC Water Quality <input type="checkbox"/> Other _____	Special Instructions	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	Turnaround Time (TAT) Required: Please provide advance notice for rush projects Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) 1 DAY <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Date Required: _____ Rush Confirmation Number: _____ (call lab for #)
--	----------------------	---	--

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM						Merata Field Filtered (Y/N)	Trihalomethanes (THM) in Water	# of Bottles	Comments
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix					
1 NV 5355	851 Temple	15/12/14	11:30		✓		2		
2 NV 5356	450 Wisteria	15/12/14	11:50		✓		2		
3 NV 5357	1116 Herring Gull	15/12/14	1:15		✓		2		
4 NV 5358	Corfield	15/12/14	1:00		✓		2		
5									
6									
7									
8									
9									
10									



B5B1103_COC

** RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive	Temperature (°C) on Receipt	Custody maintained on Cooler?
Barbara Sileniefs	15/12/14	1:25	Laurel Beamer	2015/12/15	11:10		<input type="checkbox"/>	99.10	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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