

Your C.O.C. #: 483862-04-01

Attention:Barbara Silenieks

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

Report Date: 2016/02/05

Report #: R2127073 Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B607694 Received: 2016/02/02, 10:45

Sample Matrix: Water # Samples Received: 4

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
VOCs, VH, F1, LH in Water by HS GC/MS	2	2016/02/04	2016/02/04	BBY8SOP-00009	EPA 8260c R3 m
VOCs, VH, F1, LH in Water by HS GC/MS	2	2016/02/04	2016/02/05	BBY8SOP-00009	EPA 8260c R3 m

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

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.

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



City of Parksville

TRIHALOMETHANES (THM) IN WATER

Maxxam ID		OB0612		OB0613		OB0614	OB0615		
Sampling Date		2016/02/01 09:30		2016/02/01 09:35		2016/02/01 09:45	2016/02/01 09:55		
COC Number		483862-04-01		483862-04-01		483862-04-01	483862-04-01		
	UNITS	851 TEMPLE	RDL	450 WILLOW	RDL	CORFIELD	1116 HERRING GULL	RDL	QC Batch
Volatiles									
Chloroform	ug/L	1.0	1.0	<1.0	1.0	1.6	1.8	1.0	8183079
Chlorodibromomethane	ug/L	3.1	1.0	2.6	1.0	4.5	4.4	1.0	8183079
Bromodichloromethane	ug/L	<1.6 (1)	1.6	<1.4 (1)	1.4	2.8	3.1	1.0	8183079
Bromoform	ug/L	1.8	1.0	1.7	1.0	2.4	1.9	1.0	8183079
Surrogate Recovery (%)									
1,4-Difluorobenzene (sur.)	%	103		104		104	105		8183079
4-Bromofluorobenzene (sur.)	%	97		96		94	95		8183079
D4-1,2-Dichloroethane (sur.)	%	100		99		98	99		8183079
RDL = Reportable Detection Lir		ix interference						•	

⁽¹⁾ Detection limits raised due to matrix interference.



City of Parksville

GENERAL COMMENTS

Each te	emperature is the	average of up to t	three cooler temperatures taken at receipt
	Package 1	2.7°C	7
			-
Result	s relate only to th	e items tested.	



QUALITY ASSURANCE REPORT

City of Parksville

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8183079	1,4-Difluorobenzene (sur.)	2016/02/04	103	70 - 130	101	70 - 130	104	%		
8183079	4-Bromofluorobenzene (sur.)	2016/02/04	105	70 - 130	100	70 - 130	97	%		
8183079	D4-1,2-Dichloroethane (sur.)	2016/02/04	103	70 - 130	98	70 - 130	99	%		
8183079	Bromodichloromethane	2016/02/04	100	70 - 130	93	70 - 130	<1.0	ug/L	NC	30
8183079	Bromoform	2016/02/04	98	70 - 130	98	70 - 130	<1.0	ug/L	NC	30
8183079	Chlorodibromomethane	2016/02/04	104	70 - 130	96	70 - 130	<1.0	ug/L	NC	30
8183079	Chloroform	2016/02/04	102	70 - 130	94	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).



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).

Rob Reinert, Data Validation Coordinator

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INVOICE TO: Report Info						mation		No.		Project In	ormation		Laboratory Use Only		
any Name	#7634 City o	of Parksville	Company N	parry Name b						MM	Bottle Order #:				
t Name	Barbara Silen	Market and the second	Contact Na	me Barbara Sil	para Silenieks			P.O.#				3,975.00		A NORTH DESCRIPTION	
9	Parksville BC	and Operations Dpt PO Box 1390 V9P 2H3	Address	ddress			Project #	255	-	During to	11.92	Chain Of Custody Record	483862 Project Manage		
(250) 248-5412 Fax: (250) 248-6140 bsilenieks@parksville.ca		140 Phone			Fa	DC	Project Nam Site #		The Karthania				Shanaz Akbar		
		Email						Sampled By				C#483662-04-01			
Regulatory Criteria:		Spec	ial Instructions		-	ANALYSIS		S REQUESTED (PLEASE BE SPECIFIC)			Turnaround Time (TAT) Re Please provide edvance notice for re	1			
CSR CCME BC Water Quality Other						(IIIII) saa						Regular (Standard) TAT: [salt be applied if Rush TAT is not apocified): Standard TAT = 5-7 Working days for most tests Please note: Standard TAT for certain tests such as BOG and Dioxins/Fue days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission): 1 DAY 2 Day 3 Day Date Required:			
SA	MPLES MUST BE K	EPT COOL (< 10°C) FROM TIME OF SAMPLE	NG UNTIL DELIVERY	TO MAXXAM		Metals Field Fill	Diagonal Control of the Control of t					Rush C		ell lab for #)	
Sampl	a Barcodo Label	Sample (Location) Identification	16/62/01	9:30	Matrix			-				1000			
		851 Temple	10102/01	3.600.000.000.000				_	_	-		2			
		450 Willow	16/02/01	9:35		V						Z	-		
		450 Willow Corfield 1116 Herring Gull	18/02/01	9:45		L						2			
		1116 Herring Gull	9:55	16/02/61		1						2			
						8						70 J	02-Feb-1	6 10:45	
													Shanaz Akbar 	111111	
													AN0 SO131		
-													B607694_COC		
BOX	NQUISHED BY: (SI	The state of the s	2/61 10.3	< (MA In	ULL BU	Alaro	gnature/Print)	2016/02	2/02	10:45	# jars used and not submitted	Time Sensitive	Temperature (°C) on Receipt Cu	story Seal In on	

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