Your Project #: B849593
Your C.O.C. #: B849593-QUEV-01-01

Attention:
(SUBCONT) CUSTOMER SERVICE EBC

MAXXAM ANALYTICS
4606 Canada Way
Burnaby, BC
CANADA V5G 1K5

Report Date: 2018/06/28
Report #: R2379331
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B824563
Received: 2018/06/22, 09:15

Sample Matrix: WATER
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Primary Reference
Resin and Fatty Acids	1	2018/06/26	2018/06/28	STL SOP-00152	MA414-Aci-g-r-1.0R3m

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.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
Note: RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Note: All parameters included in the present certificate are accredited by the MDDELCC unless stated otherwise.

889 Montée de Liesse, Ville St-Laurent, Québec, Canada H4T 1P5 Tel: (514) 448-9001 Fax: (514) 448-9199 Ligne sans frais : 1-877-4MAXXAM (462-9926)

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Encryption Key

Karima Dlimi
Project Manager
28 Jun 2018 17:50:11

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Karima Dlimi, B.Sc., Chemist, Project Manager
Email: KDlimi@maxxam.ca
Phone# (514)448-9001 Ext:7066270
==========

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.

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Maxxam Job #: B824563
Report Date: 2018/06/28

MAXXAM ANALYTICS
Client Project #: B849593

RESIN AND FATTY ACIDS BY GCMS (WATER)

Maxxam ID		FL3235		
Sampling Date		2018/06/20 08:00		
COC Number		B849593-QUEV-01-01		
	Units	**TR7084-COMMUNITY WELL #1**	**RDL**	**QC Batch**
Palmitoleic acid †	ug/L	<3.0	3.0	1910407
Palmitic acid †	ug/L	<30	30	1910407
Linoleic acid	ug/L	<3.0	3.0	1910407
Linolenic acid	ug/L	<3.0	3.0	1910407
Oleic acid	ug/L	<3.0	3.0	1910407
Stearic acid	ug/L	<30	30	1910407
9,10-Dichlorostearic acid	ug/L	<3.0	3.0	1910407
Total Fatty Acids	ug/L	<30	30	1910407
Pimaric acid	ug/L	<3.0	3.0	1910407
Sandaracopimaric acid	ug/L	<3.0	3.0	1910407
Isopimaric acid	ug/L	<3.0	3.0	1910407
Palustric acid	ug/L	<3.0	3.0	1910407
Levopimaric acid	ug/L	<3.0	3.0	1910407
Dehydroabietic acid	ug/L	<5.0	5.0	1910407
Abietic acid	ug/L	<5.0	5.0	1910407
Neoabietic acid	ug/L	<3.0	3.0	1910407
14-Chlorodehydroabietic acid	ug/L	<3.0	3.0	1910407
12-Chlorodehydroabietic acid	ug/L	<3.0	3.0	1910407
Total Resin Acids	ug/L	<5.0	5.0	1910407
Surrogate Recovery (%)				
O-Methylpodocarpic acid	%	98	N/A	1910407

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
† Parameter is not accreditable
N/A = Not Applicable

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GENERAL COMMENTS

RESIN AND FATTY ACIDS BY GCMS (WATER)

Un-rounded results are used in the totals "Total Resin Acids" and "Total Fatty Acids" calculation. These totals results are then rounded to two significant figures.

The total indicated is calculated only for the requested parameters.

Results relate only to the items tested.

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Maxxam Job #: B824563
Report Date: 2018/06/28

MAXXAM ANALYTICS
Client Project #: B849593

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits
1910407	CB5	Spiked Blank	O-Methylpodocarpic acid	2018/06/27		92	%	60 - 130
			Palmitoleic acid	2018/06/27		89	%	60 - 130
			Palmitic acid	2018/06/27		140 (1)	%	60 - 130
			Linoleic acid	2018/06/27		86	%	60 - 130
			Linolenic acid	2018/06/27		76	%	60 - 130
			Oleic acid	2018/06/27		85	%	60 - 130
			Stearic acid	2018/06/27		136 (1)	%	60 - 130
			9,10-Dichlorostearic acid	2018/06/27		84	%	60 - 130
			Pimaric acid	2018/06/27		83	%	60 - 130
			Sandaracopimaric acid	2018/06/27		86	%	60 - 130
			Isopimaric acid	2018/06/27		91	%	60 - 130
			Palustric acid	2018/06/27		79	%	60 - 130
			Levopimaric acid	2018/06/27		65	%	60 - 130
			Dehydroabietic acid	2018/06/27		95	%	60 - 130
			Abietic acid	2018/06/27		121	%	60 - 130
			Neoabietic acid	2018/06/27		76	%	60 - 130
			14-Chlorodehydroabietic acid	2018/06/27		99	%	60 - 130
			12-Chlorodehydroabietic acid	2018/06/27		96	%	60 - 130
1910407	CB5	Method Blank	O-Methylpodocarpic acid	2018/06/27		89	%	60 - 130
			Palmitoleic acid	2018/06/27	<3.0		ug/L	
			Palmitic acid	2018/06/27	<30		ug/L	
			Linoleic acid	2018/06/27	<3.0		ug/L	
			Linolenic acid	2018/06/27	<3.0		ug/L	
			Oleic acid	2018/06/27	<3.0		ug/L	
			Stearic acid	2018/06/27	<30		ug/L	
			9,10-Dichlorostearic acid	2018/06/27	<3.0		ug/L	
			Total Fatty Acids	2018/06/27	<30		ug/L	
			Pimaric acid	2018/06/27	<3.0		ug/L	
			Sandaracopimaric acid	2018/06/27	<3.0		ug/L	
			Isopimaric acid	2018/06/27	<3.0		ug/L	
			Palustric acid	2018/06/27	<3.0		ug/L	
			Levopimaric acid	2018/06/27	<3.0		ug/L	
			Dehydroabietic acid	2018/06/27	<5.0		ug/L	
			Abietic acid	2018/06/27	<5.0		ug/L	
			Neoabietic acid	2018/06/27	<3.0		ug/L	
			14-Chlorodehydroabietic acid	2018/06/27	<3.0		ug/L	
			12-Chlorodehydroabietic acid	2018/06/27	<3.0		ug/L	
			Total Resin Acids	2018/06/27	<5.0		ug/L	

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.

(1) Recovery or relative percent difference (RPD) for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria

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FUNDAMENTAL LABORATORY ACCEPTANCE GUIDELINE

Invoice To:
MAXXAM ANALYTICS
BURNABY
4606 Canada Way
Burnaby, BC
CANADA V5G 1K5
Client Contact:
(SUBCONT) CUSTOMER SERVICE EBC

Maxxam Job #:	B824563
Date Received:	2018/06/22
Your C.O.C. #:	B849593-QUEV-01-01
Your Project #:	B849593
Maxxam Project Manager:	Karima Dlimi
Quote #	B20512

No discrepancies noted.

Report Comments

Received Date:	**2018/06/22**	**Time:**	**09:15**	**By:**	
Inspected Date:		**Time:**		**By:**	
FLAG Created Date:		**Time:**		**By:**	

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Maxxam Job #: B824563
Report Date: 2018/06/28

MAXXAM ANALYTICS
Client Project #: B849593

VALIDATION SIGNATURE PAGE

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

Caroline Bougie, B.Sc. Chemist

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Maxxam
A Bureau Veritas Group Company

Sent to: Maxxam Montreal
889 Montee de Liesse
Viille St-Laurent, QC, H4T 1PS
Tel: (514) 448-9001

MAXXAM INTERLAB CHAIN OF CUSTODY RECORD

Page 01 of 01

COC # B849593-QUEV-01-01

REPORT INFORMATION	
Company:	Maxxam
Address:	4606 Canada Way, Burnaby, British Columbia, V5G 1K5
Contact Name:	BC Env Customer Service
Email:	Enviro.CS.BC@maxxam.ca, customerservicebc@maxxamanalytics.com
Phone:	
Maxxam Project #:	B849593
Client Invoice To:	Village of Tahsis (5529)
Client Report To:	Village of Tahsis (5529) — Incl. on Report? Yes / No

Job Barcode Label: B824563_COC

ANALYSIS REQUESTED

#	SAMPLE ID	MATRIX	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	SAMPLER INITIALS	# CONT.	RFA Water Subcontract	ADDITIONAL SAMPLE INFORMATION
1	TR7084-COMMUNITY WELL # 1	WATER	2018/06/20	08:00		1	X	(P: 11)
2								
3								
4								
5								
6								
7								
8								
9								
10								

SITE LOCATION:

SITE #:

PROJECT #:

PO/AFE, TASK ORDER/SERVICE ORDER, LINE ITEM:

REGULATORY CRITERIA: 2017 Canadian OW Quality

SPECIAL INSTRUCTIONS: Please inform Maxxam immediately if you are not accredited for the requested test(s).
Please return a copy of this form with the report.

REQUIRED EDDs:

TURNAROUND TIME: ☐ Rush Required
2018/06/28
Date Required
Please inform us if rush charges will be incurred.

COOLER ID:	YES	NO	Temp: (°C) 1	2	3
Custody Seal Present	✓		4	2	3
Custody Seal Intact	✓				
Cooling Media Present	✓				

COOLER ID:	YES	NO	Temp: (°C) 1	2	3
Custody Seal Present					
Custody Seal Intact					
Cooling Media Present					

COOLER ID:	YES	NO	Temp: (°C) 1	2	3
Custody Seal Present					
Custody Seal Intact					
Cooling Media Present					

RECEIVING LAB USE ONLY — Maxxam Job #

RELINQUISHED BY: (SIGN & PRINT)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (SIGN & PRINT)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	Samples Labelled By:	Labels Verified By:
1. Ndakazmi NDA KAZMI	2018/06/21	15:00	1. D. ANGIE DOWNEY N. Downey	2018/06/22	09:45		
2.			2.				