

From: [taiga](#)
To: works@fortprovidence.ca; [Susan Christie \(sao@fortprovidence.ca\)](mailto:Susan.Christie(sao@fortprovidence.ca)); [Erica Janes](#); [Wendy Bidwell](#)
Subject: Emailing: 221132 - 2223 - FINAL REPORT, 221132 - 2223 - FINAL REPORT
Date: Friday, July 15, 2022 11:21:11 AM
Attachments: [221132 - 2223 - FINAL REPORT.pdf](#)
[221132 - 2223 - FINAL REPORT.xls](#)

Susan,

Please see attached for final report 221132.

Have a good day.

Mársı | Kinanāskomitin | Thank you | Merci | Hai' | Quana | Qujannamiik | Quyanainni | Máhsı | Máhsı | Mahsi
Glen Hudy
Chemist, Quality Assurance
Environmental Protection and Waste Management
Environment and Natural Resources
Government of the Northwest Territories

Taiga Environmental Laboratory
PO Box 1320
Yellowknife, NT X1A 2L9

Phone: 867-767-9235 Ext. 53154
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www.enr.gov.nt.ca

Survey: <https://www.surveymonkey.com/r/TaigaLab>

Your message is ready to be sent with the following file or link attachments:

221132 - 2223 - FINAL REPORT
221132 - 2223 - FINAL REPORT

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Taiga Environmental Laboratory
4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
221132

- FINAL REPORT -

Prepared For: Hamlet of Fort Providence

Address: General Delivery
Fort Providence, NT
X0E 0L0

Attn: Susan Christie

Facsimile: (867) 699-4624

Final report has been reviewed and approved by:

Glen Hudy
Quality Assurance Officer

NOTES:

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) to ISO/IEC 17025 as a testing laboratory for specific tests registered with CALA.
- Routine methods are based on recognized procedures from sources such as
 - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
 - Environment Canada
 - USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.

ReportDate: July-15-22

Print Date: *July-15-22*

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Taiga Environmental Laboratory

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Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
221132

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **2016-2**

Taiga Sample ID: **001**

Client Project:

Sample Type: Water

Received Date: 16-Jun-22

Sampling Date: 16-Jun-22

Sampling Time:

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ortho-Phosphate as Phosphorus	2.69	0.002	mg/L	17-Jun-22	TEL069	
Phosphorous, Total	4.67	0.002	mg/L	23-Jun-22	TEL069	
<u>Inorganics - Physicals</u>						
Conductivity, Specific (@25C)	619	0.4	µS/cm	16-Jun-22	TEL059	
pH	7.22		pH units	07-Jul-22	TEL058	11
Solids, Total Suspended	270	3	mg/L	22-Jun-22	TEL008	
<u>Major Ions</u>						
Calcium	240	0.1	mg/L	18-Jun-22	TEL055	
Magnesium	132	0.1	mg/L	18-Jun-22	TEL055	
Potassium	271	0.1	mg/L	18-Jun-22	TEL055	
Sodium	545	0.1	mg/L	18-Jun-22	TEL055	
Sulphate	3	1	mg/L	17-Jun-22	TEL055	
<u>Organics</u>						
Benzene	< 2.0	2	ug/L	27-Jun-22	TEL075	
Ethylbenzene	< 2.0	2	ug/L	27-Jun-22	TEL075	

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Taiga Sample ID: **001**

Hexane Extractable Material	11.0	2	mg/L	17-Jun-22	TEL072
Hydrocarbons, Volatile	< 0.3	0.3	mg/L	27-Jun-22	TEL076
Toluene	22.1	2	ug/L	27-Jun-22	TEL075
Xylenes	4.3	2	ug/L	27-Jun-22	TEL075
<u>Subcontracted Organics</u>					
F2: C10-C16	1.08	0.1	mg/L	27-Jun-22	EPA3510
F3: C16-C34	3.48	0.25	mg/L	27-Jun-22	EPA3510
F4: C34-C50	0.39	0.25	mg/L	27-Jun-22	EPA3510
Phenols, Total	0.8330	0.01	mg/L	01-Jul-22	AB ENV.06537
<u>Trace Metals, Total</u>					
Cadmium	0.3	0.1	µg/L	27-Jun-22	TEL035
Chromium	22.8	0.1	µg/L	27-Jun-22	TEL035
Cobalt	9.3	0.1	µg/L	27-Jun-22	TEL035
Copper	16.0	0.2	µg/L	27-Jun-22	TEL035
Iron	7890	5	µg/L	27-Jun-22	TEL035
Lead	3.4	0.1	µg/L	27-Jun-22	TEL035
Manganese	1190	0.1	µg/L	27-Jun-22	TEL035
Mercury	0.11	0.01	µg/L	27-Jun-22	TEL035
Nickel	54.2	0.1	µg/L	27-Jun-22	TEL035
Zinc	139	5	µg/L	27-Jun-22	TEL035

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Taiga Batch No.:
221132

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **1412-2**

Taiga Sample ID: **002**

Client Project:

Sample Type: Water

Received Date: 16-Jun-22

Sampling Date: 16-Jun-22

Sampling Time:

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	16.3	0.005	mg/L	22-Jun-22	TEL068	
CBOD	11	2	mg/L	17-Jun-22	TEL019	
Phosphorous, Total	4.33	0.002	mg/L	23-Jun-22	TEL069	
<u>Inorganics - Physicals</u>						
pH	9.07		pH units	17-Jun-22	TEL058	
Solids, Total Suspended	30	3	mg/L	22-Jun-22	TEL008	
<u>Major Ions</u>						
Nitrate as Nitrogen	0.31	0.01	mg/L	17-Jun-22	TEL055	
Nitrite as Nitrogen	0.59	0.01	mg/L	17-Jun-22	TEL055	
<u>Microbiology</u>						
Coliforms, Fecal	3	1	CFU/100mL	16-Jun-22	TEL017	
<u>Organics</u>						
Hexane Extractable Material	< 2.0	2	mg/L	17-Jun-22	TEL072	

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Client Sample ID: **1412-2**

Taiga Sample ID: **002**

- DATA QUALIFIERS -

Data Qualifier Descriptions:

11 *Holding time exceeded before sample analysis.*

*** Taiga analytical methods are based on the following standard analytical methods**

SM - Standard Methods for the Examination of Water and Wastewater

EPA - United States Environmental Protection Agency

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