

**From:** [taiga](#)  
**To:** [Notmebu@gmail.com](mailto:Notmebu@gmail.com); [Erica Janes](#); [Wendy Bidwell](#)  
**Subject:** Emailing: 210687 - 2122 - FINAL REPORT, 210687 - 2122 - FINAL REPORT  
**Date:** Sunday, June 20, 2021 11:52:36 AM  
**Attachments:** [210687 - 2122 - FINAL REPORT.pdf](#)  
[210687 - 2122 - FINAL REPORT.xls](#)

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John,

Please see attached for final report 210687.

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  
Fax: 867-920-8740  
[www.enr.gov.nt.ca](http://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:

210687 - 2122 - FINAL REPORT  
210687 - 2122 - 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.:**  
**210687**

**- FINAL REPORT -**

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**Prepared For:** Town of Hay River

**Address:** 100 - 62 Woodland Drive  
Hay River, NT  
X0E 1G1

**Attn:** John Kay

**Facsimile:** (867) 874-3237

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**Final report has been reviewed and approved by:**

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**Glen Hudy**  
**Quality Assurance Officer**

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**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.

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**Print Date:** *Sunday, June 20, 2021*

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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.:  
**210687**

### - CERTIFICATE OF ANALYSIS -

Client Sample ID: **MSS20210526-2B-1**

Taiga Sample ID: **001**

Client Project: MSS20210526-2B-1

Sample Type: Sewage

Received Date: 27-May-21

Sampling Date: 26-May-21

Sampling Time: 13:25

Location: SN-0053-2B

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	1.56	0.005	mg/L	02-Jun-21	SM4500-NH3:G	
Biochemical Oxygen Demand	2	2	mg/L	28-May-21	SM5210:B	
CBOD	3	2	mg/L	28-May-21	SM5210:B	
Organic Carbon, Total	25.8	0.5	mg/L	28-May-21	SM5310:B	
Ortho-Phosphate as Phosphorus	1.11	0.002	mg/L	28-May-21	SM4500-P:D	
Phosphorous, Dissolved	1.13	0.002	mg/L	28-May-21	SM4500-P:D	
Phosphorous, Total	1.19	0.002	mg/L	28-May-21	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO <sub>3</sub> )	207	0.4	mg/L	27-May-21	SM2320:B	
Conductivity, Specific (@25C)	521	0.4	µS/cm	27-May-21	SM2510:B	
pH	7.82		pH units	27-May-21	SM4500-H:B	
Solids, Total Dissolved	316	10	mg/L	27-May-21	SM2540:C	
Solids, Total Suspended	6	3	mg/L	27-May-21	SM2540:D	

#### **Major Ions**

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

Taiga Batch No.:  
**210687**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **MSS20210526-2B-1**

Taiga Sample ID: **001**

Calcium	64.2	0.1	mg/L	28-May-21	SM4110:B
Chloride	36.6	0.7	mg/L	28-May-21	SM4110:B
Fluoride	< 0.1	0.1	mg/L	28-May-21	SM4110:B
Hardness	242	0.7	mg/L	28-May-21	SM4110:B
Magnesium	19.9	0.1	mg/L	28-May-21	SM4110:B
Nitrate as Nitrogen	0.61	0.01	mg/L	28-May-21	SM4110:B
Potassium	6.9	0.1	mg/L	28-May-21	SM4110:B
Sodium	26.6	0.1	mg/L	28-May-21	SM4110:B
Sulphate	3	1	mg/L	28-May-21	SM4110:B

**Microbiology**

Coliforms, Fecal		1	CFU/100mL	27-May-21	SM9222:D	97
Enterococci	< 1.0	1.0	MPN/100ml	27-May-21	SM9223:B	

**Organics**

Hexane Extractable Material	< 2.0	2.0	mg/L	04-Jun-21	EPA1664A
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**Subcontracted Nutrients**

Kjeldahl Nitrogen, Total	2.77	0.05	mg/L	15-Jun-21	APHA4500-NORG (T)
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Taiga Batch No.:  
**210687**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **MSS20210526-3-1**

Taiga Sample ID: **002**

Client Project: MSS20210526-3-1

Sample Type: Sewage

Received Date: 27-May-21

Sampling Date: 26-May-21

Sampling Time: 13:47

Location: SNP0053-3

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	25.3	0.005	mg/L	02-Jun-21	SM4500-NH3:G	
Biochemical Oxygen Demand	53	2	mg/L	28-May-21	SM5210:B	
CBOD	72	2	mg/L	28-May-21	SM5210:B	
Organic Carbon, Total	64.5	0.5	mg/L	28-May-21	SM5310:B	
Ortho-Phosphate as Phosphorus	2.59	0.002	mg/L	28-May-21	SM4500-P:D	
Phosphorous, Dissolved	2.60	0.002	mg/L	28-May-21	SM4500-P:D	
Phosphorous, Total	3.75	0.002	mg/L	28-May-21	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO3)	325	0.4	mg/L	27-May-21	SM2320:B	
Conductivity, Specific (@25C)	956	0.4	µS/cm	27-May-21	SM2510:B	
pH	7.39		pH units	27-May-21	SM4500-H:B	
Solids, Total Dissolved	500	10	mg/L	27-May-21	SM2540:C	
Solids, Total Suspended	24	3	mg/L	27-May-21	SM2540:D	
<b><u>Major Ions</u></b>						
Calcium	83.3	0.1	mg/L	28-May-21	SM4110:B	
Chloride	76.0	0.7	mg/L	28-May-21	SM4110:B	

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**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **MSS20210526-3-1**

Taiga Sample ID: **002**

Fluoride	0.3	0.1	mg/L	28-May-21	SM4110:B
Hardness	338	0.7	mg/L	28-May-21	SM4110:B
Magnesium	31.6	0.1	mg/L	28-May-21	SM4110:B
Nitrate as Nitrogen	0.35	0.01	mg/L	28-May-21	SM4110:B
Potassium	11.6	0.1	mg/L	28-May-21	SM4110:B
Sodium	54.7	0.1	mg/L	28-May-21	SM4110:B
Sulphate	35	1	mg/L	28-May-21	SM4110:B

**Microbiology**

Coliforms, Fecal	7600	100	CFU/100mL	27-May-21	SM9222:D
Enterococci	2050	10	MPN/100ml	27-May-21	SM9223:B

**Organics**

Hexane Extractable Material	3.7	2.0	mg/L	04-Jun-21	EPA1664A
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**Subcontracted Nutrients**

Kjeldahl Nitrogen, Total	28.4	0.5	mg/L	16-Jun-21	APHA4500-NORG (T) <b>224</b>
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Taiga Batch No.:

210687

### - CERTIFICATE OF ANALYSIS -

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Client Sample ID: **MSS20210526-3-1**

Taiga Sample ID: **002**

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### - DATA QUALIFIERS -

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*Data Qualifier Descriptions:*

- 224 *Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*
- 97 *Analyst error, analysis was not completed.*

**\* 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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