

From: [taiga](#)
To: wtp@hayriver.com; [Erica Janes](#); [Wendy Bidwell](#)
Subject: Emailing: 211073 - 2122 - FINAL REPORT, 211073 - 2122 - FINAL REPORT
Date: Thursday, July 22, 2021 8:42:15 AM
Attachments: [211073 - 2122 - FINAL REPORT.pdf](#)
[211073 - 2122 - FINAL REPORT.xls](#)

John,

Please see attached for final report 211073.

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

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

211073 - 2122 - FINAL REPORT
211073 - 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.:
211073

- FINAL REPORT -

Prepared For: Town of Hay River

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

Attn: John Kay

Facsimile: (867) 874-3237

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.

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

Taiga Batch No.:
211073

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **MSS20210706-2**

Taiga Sample ID: **001**

Client Project:

Sample Type: Sewage

Received Date: 07-Jul-21

Sampling Date: 06-Jul-21

Sampling Time: 13:44

Location: SNP 0053-2

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.126	0.005	mg/L	07-Jul-21	SM4500-NH3:G	
Biochemical Oxygen Demand	< 2	2	mg/L	07-Jul-21	SM5210:B	
CBOD	< 2	2	mg/L	07-Jul-21	SM5210:B	
Organic Carbon, Total	39.1	0.5	mg/L	08-Jul-21	SM5310:B	
Ortho-Phosphate as Phosphorus	1.49	0.002	mg/L	07-Jul-21	SM4500-P:D	
Phosphorous, Dissolved	1.46	0.002	mg/L	08-Jul-21	SM4500-P:D	
Phosphorous, Total	1.81	0.002	mg/L	08-Jul-21	SM4500-P:D	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	245	0.4	mg/L	08-Jul-21	SM2320:B	
Conductivity, Specific (@25C)	576	0.4	µS/cm	08-Jul-21	SM2510:B	
pH	7.71		pH units	08-Jul-21	SM4500-H:B	
Solids, Total Dissolved	394	10	mg/L	08-Jul-21	SM2540:C	
Solids, Total Suspended	12	3	mg/L	08-Jul-21	SM2540:D	

Major Ions

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Client Sample ID: **MSS20210706-2**

Taiga Sample ID: **001**

Calcium	83.3	0.1	mg/L	08-Jul-21	SM4110:B
Chloride	38.7	0.7	mg/L	08-Jul-21	SM4110:B
Fluoride	< 0.1	0.1	mg/L	08-Jul-21	SM4110:B
Hardness	282	0.7	mg/L	08-Jul-21	SM4110:B
Magnesium	17.8	0.1	mg/L	08-Jul-21	SM4110:B
Nitrate as Nitrogen	0.10	0.01	mg/L	08-Jul-21	SM4110:B
Potassium	5.3	0.1	mg/L	08-Jul-21	SM4110:B
Sodium	30.4	0.1	mg/L	08-Jul-21	SM4110:B
Sulphate	< 1	1	mg/L	08-Jul-21	SM4110:B
<u>Microbiology</u>					
Coliforms, Fecal	50	10	CFU/100mL	07-Jul-21	SM9222:D
Enterococci	< 10.0	10	MPN/100ml	07-Jul-21	SM9223:B
<u>Organics</u>					
Hexane Extractable Material	< 2.0	2.0	mg/L	16-Jul-21	EPA1664A
<u>Subcontracted Nutrients</u>					
Kjeldahl Nitrogen, Total	1.69	0.05	mg/L	15-Jul-21	APHA4500-NORG (T

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Taiga Batch No.:
211073

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **MSS20210706-3**

Taiga Sample ID: **002**

Client Project:

Sample Type: Sewage

Received Date: 07-Jul-21

Sampling Date: 06-Jul-21

Sampling Time:

Location: SNP0053-3

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	27.1	0.005	mg/L	07-Jul-21	SM4500-NH3:G	
Biochemical Oxygen Demand	62	2	mg/L	07-Jul-21	SM5210:B	
CBOD	56	2	mg/L	07-Jul-21	SM5210:B	
Organic Carbon, Total	52.6	0.5	mg/L	08-Jul-21	SM5310:B	
Ortho-Phosphate as Phosphorus	6.43	0.002	mg/L	07-Jul-21	SM4500-P:D	
Phosphorous, Dissolved	6.32	0.002	mg/L	08-Jul-21	SM4500-P:D	
Phosphorous, Total	8.20	0.002	mg/L	08-Jul-21	SM4500-P:D	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO3)	417	0.4	mg/L	08-Jul-21	SM2320:B	
Conductivity, Specific (@25C)	1120	0.4	µS/cm	08-Jul-21	SM2510:B	
pH	7.32		pH units	08-Jul-21	SM4500-H:B	
Solids, Total Dissolved	604	10	mg/L	08-Jul-21	SM2540:C	
Solids, Total Suspended	92	3	mg/L	08-Jul-21	SM2540:D	
<u>Major Ions</u>						
Calcium	124	0.6	mg/L	08-Jul-21	SM4110:B	
Chloride	94.6	0.7	mg/L	08-Jul-21	SM4110:B	

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Client Sample ID: **MSS20210706-3**

Taiga Sample ID: **002**

Fluoride	< 0.1	0.1	mg/L	08-Jul-21	SM4110:B
Hardness	464	4.2	mg/L	08-Jul-21	SM4110:B
Magnesium	37.6	0.6	mg/L	08-Jul-21	SM4110:B
Nitrate as Nitrogen	< 0.01	0.01	mg/L	08-Jul-21	SM4110:B
Potassium	16.2	0.6	mg/L	08-Jul-21	SM4110:B
Sodium	64.8	0.6	mg/L	08-Jul-21	SM4110:B
Sulphate	26	1	mg/L	08-Jul-21	SM4110:B
<u>Microbiology</u>					
Coliforms, Fecal	8000	1000	CFU/100mL	07-Jul-21	SM9222:D
Enterococci	1610	100	MPN/100ml	07-Jul-21	SM9223:B
<u>Organics</u>					
Hexane Extractable Material	14.1	2.0	mg/L	16-Jul-21	EPA1664A
<u>Subcontracted Nutrients</u>					
Kjeldahl Nitrogen, Total	28.6	0.50	mg/L	15-Jul-21	APHA4500-NORG (T

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*** 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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