



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

Taiga Batch No.:
211278

- 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.

ReportDate: Tuesday, August 10, 2021

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Taiga Batch No.:
211278

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **MSS20210727-2**

Taiga Sample ID: **001**

Client Project: MSS20210727-2

Sample Type: Sewage

Received Date: 28-Jul-21

Sampling Date: 27-Jul-21

Sampling Time: 14:20

Location: SNP0053-2

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.832	0.005	mg/L	30-Jul-21	TEL068	
Biochemical Oxygen Demand	< 2	2	mg/L	28-Jul-21	TEL019	
CBOD	4	2	mg/L	28-Jul-21	TEL019	
Organic Carbon, Total	38.5	0.5	mg/L	30-Jul-21	TEL033	
Ortho-Phosphate as Phosphorus	1.64	0.002	mg/L	28-Jul-21	TEL069	
Phosphorous, Dissolved	1.71	0.002	mg/L	30-Jul-21	TEL069	
Phosphorous, Total	1.68	0.002	mg/L	30-Jul-21	TEL069	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	242	0.4	mg/L	28-Jul-21	TEL060	
Conductivity, Specific (@25C)	583	0.4	µS/cm	28-Jul-21	TEL059	
pH	7.80		pH units	28-Jul-21	TEL058	
Solids, Total Dissolved	382	10	mg/L	29-Jul-21	TEL009	
Solids, Total Suspended	10	3	mg/L	29-Jul-21	TEL008	

Major Ions

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Calcium	78.3	0.1	mg/L	29-Jul-21	TEL055
Chloride	36.1	0.7	mg/L	28-Jul-21	TEL055
Fluoride	0.1	0.1	mg/L	28-Jul-21	TEL055
Hardness	291	0.7	mg/L	29-Jul-21	TEL055
Magnesium	23.3	0.1	mg/L	29-Jul-21	TEL055
Nitrate as Nitrogen	0.20	0.01	mg/L	28-Jul-21	TEL055
Potassium	4.7	0.1	mg/L	29-Jul-21	TEL055
Sodium	28.3	0.1	mg/L	29-Jul-21	TEL055
Sulphate	1	1	mg/L	28-Jul-21	TEL055

Microbiology

Coliforms, Fecal	25	1	CFU/100mL	28-Jul-21	TEL017	20
Enterococci	28.8	1	MPN/100ml	28-Jul-21	TEL053	

Organics

Hexane Extractable Material	< 2.0	2	mg/L	27-Jul-21	TEL072	
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Subcontracted Nutrients

Kjeldahl Nitrogen, Total	2.35	0.05	mg/L	04-Aug-21	APHA4500-NORG (T	
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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **MSS20210727-3**

Taiga Sample ID: **002**

Client Project: MSS20210727-3

Sample Type: Sewage

Received Date: 28-Jul-21

Sampling Date: 27-Jul-21

Sampling Time: 14:35

Location: SNP0053-3

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	23.5	0.005	mg/L	30-Jul-21	TEL068	
Biochemical Oxygen Demand	31	2	mg/L	28-Jul-21	TEL019	
CBOD	54	2	mg/L	28-Jul-21	TEL019	
Organic Carbon, Total	40.4	0.5	mg/L	30-Jul-21	TEL033	
Ortho-Phosphate as Phosphorus	3.56	0.002	mg/L	28-Jul-21	TEL069	
Phosphorous, Dissolved	3.54	0.002	mg/L	30-Jul-21	TEL069	
Phosphorous, Total	3.97	0.002	mg/L	30-Jul-21	TEL069	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	430	0.4	mg/L	28-Jul-21	TEL060	
Conductivity, Specific (@25C)	1190	0.4	µS/cm	28-Jul-21	TEL059	
pH	7.47		pH units	28-Jul-21	TEL058	
Solids, Total Dissolved	636	10	mg/L	29-Jul-21	TEL009	
Solids, Total Suspended	30	3	mg/L	29-Jul-21	TEL008	
<u>Major Ions</u>						
Calcium	117	0.1	mg/L	29-Jul-21	TEL055	
Chloride	97.8	0.7	mg/L	28-Jul-21	TEL055	

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Fluoride	0.1	0.1	mg/L	28-Jul-21	TEL055	
Hardness	506	0.7	mg/L	29-Jul-21	TEL055	
Magnesium	52.1	0.1	mg/L	29-Jul-21	TEL055	
Nitrate as Nitrogen	0.01	0.01	mg/L	28-Jul-21	TEL055	
Potassium	13.9	0.1	mg/L	29-Jul-21	TEL055	
Sodium	53.4	0.1	mg/L	29-Jul-21	TEL055	
Sulphate	27	1	mg/L	28-Jul-21	TEL055	
<u>Microbiology</u>						
Coliforms, Fecal	35000	1000	CFU/100mL	28-Jul-21	TEL017	20
Enterococci	11500	100	MPN/100ml	28-Jul-21	TEL053	
<u>Organics</u>						
Hexane Extractable Material	6.5	2	mg/L	27-Jul-21	TEL072	
<u>Subcontracted Nutrients</u>						
Kjeldahl Nitrogen, Total	25.4	0.25	mg/L	04-Aug-21	APHA4500-NORG (T	

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- DATA QUALIFIERS -

Data Qualifier Descriptions:

20 *Possible matrix interference, reported result uncertain.*

*** 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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