

## Municipal Water License Annual Report

### Community Government of Gameti

License #: W2018L3-0001

Reporting year: 2021

Expires: December 22, 2028

The Licensee shall file an Annual Report with the Board not later than March 31<sup>st</sup> of the year following the calendar year reported which shall contain the following information:

1. Water Usage (Schedule 1, Condition 1a) (Licensed Water Volume Withdrawal: 12,000 m <sup>3</sup> )			
Total volume withdrawn for reporting year: <u>10968.8821</u> m <sup>3</sup>			
Table 1: Monthly & Annual withdrawal volumes pumped (SNP 003-01)			
Month	Volume from main source (m <sup>3</sup> )	Volume from any other source (m <sup>3</sup> )	TOTAL Volume (m <sup>3</sup> )
January	1101.0049	0	1101.0049
February	905.43420	0	905.43420
March	900	0	900
April	900	0	900
May	900	0	900
June	900	0	900
July	900	0	900
August	900	0	900
September	900	0	900
October	914.48170	0	914.48170
November	847.96130	0	847.96130
December	900	0	900
TOTALS	10968.8821		10968.8821
% Increase/decrease from previous year	-9.73		-9.73
Reasons for increase/decrease:			
Gameti water truck volume tracker was not working as expected so manual tracker was used. Estimate based on regular volumes delivered in same times in prior years.			
Reasons for exceeding licensed withdrawal volumes (if applicable)			
None			
General information (e.g. information regarding any modifications to the water withdrawal procedure or facilities should be included here. If necessary, please attach any relevant reports to the end of this document):			
None			

**2. Solid Waste Disposal (Schedule 1, Condition 1b)**

Approximate total yearly volume of solid waste deposited: 1,890 m<sup>3</sup>

**Table 2: Monthly solid waste disposal volumes**

Month	Volume of solid waste deposited (m <sup>3</sup> )
January	157.5
February	157.5
March	157.5
April	157.5
May	157.5
June	157.5
July	157.5
August	157.5
September	157.5
October	157.5
November	157.5
December	157.5
TOTALS	1,890
% Increase/decrease from previous year	N/A

*GNWT – MACA has provided a standard formula for estimating the amount of solid waste deposited into a Solid Waste Facility in the absence of a metered Garbage Truck. The following can be used: Volume per person per day X number of days X population*

*e.g. 0.015 m<sup>3</sup> X 30 days X 860 people = 387 m<sup>3</sup> of domestic trash deposited into the Solid Waste Facility in a 30 day month*

Reasons for increase/decrease (e.g. an industrial project close to Gameti or a large influx of people into town):

N/A

General information (e.g. information regarding any agreements with outside organizations to be a waste receiving facility should be outlined here along with an estimate of the amount and type of waste to be received):

N/A

**3. Sewage Deposited to Primary Sewage Cells/Detention Ponds (Schedule 1, Condition 1c)**

**Table 3: Monthly sewage waste volumes deposited**

Month	Volume of sewage waste deposited (m <sup>3</sup> )		
	Pumper Truck	Utilidor	TOTAL
January	1101.0049		1101.0049
February	905.43420		905.43420
March	900		900
April	900		900
May	900		900
June	900		900
July	900		900
August	900		900
September	900		900
October	914.48170		914.48170
November	847.96130		847.96130
December	900		900
TOTALS	10968.8821		10968.8821
Is this an estimated volume?		(YES)	NO
% Increase/decrease from previous year	-9.73		-9.73

*To calculate monthly sewage waste deposited to the Primary Lagoon, please provide the above information if metered information is available. If metered information is not available, please fill in the table using the corresponding TOTAL water volumes from Table 1. This provides estimation only and equals water in/sewage out.*

Reasons for increase/decrease (e.g. an industrial project close to Gameti or a large influx of people into town):

None

Approximate volume of sludge in the Primary Sewage Cells/Detention Ponds for reporting year: 2018 m<sup>3</sup>

No estimated volume available in the new Sewer Lagoon yet.

Has any sludge been removed from the sewage lagoon or from Rae Lakes during this reporting year? If so, what volume of sludge was removed? What testing was completed on the sludge and where it was disposed of? Please provide documentation for testing and GNWT Water License Inspector approval of placement.

None

Was there any decanting at Rae Lakes this reporting year? Please provide dates. What was the decant duration and the approximate volume decanted? As this is a Surveillance Network Program (SNP) site, the resulting testing is to be presented as part of the tabular SNP data to be provided as per the Water License.

None

**4. Problems, modifications or repairs completed during the year on water supply and waste disposal facilities (Schedule 1, Condition 1d)**

Include any work done to infrastructure for all facilities completed during the year in this section. This includes any changes, repairs and modifications. If any problems occurred during the year, please note them here. If there are no changes, make note of that. If required, please attach any as-built drawings or reports as appendices to this report.

Facility	Problems	Modifications/Repairs done in the previous year to address problems
<i>Water Treatment Facility</i>	None	None
<i>Solid Waste Facility</i>	None	None
<i>Wastewater Facility</i>	None	None
<i>Other Facility (please specify):</i>	None	None

**5. Surveillance Network Program Data (Schedule 1, Condition 1e)**

Surveillance Network Program (SNP) information is to be submitted in a tabular format and shall indicate date of testing, parameters tested for and any other information requested by the GNWT Water License Inspector or the WLWB. [Laboratory results should be summarized. A results table has been provided below for your convenience].

Surveillance Network Program Lab Results Summary

	SNP 003-2					SNP 003-3					SNP 003-4				
	June	July	Aug	Sept	Oct	June	July	Aug	Sept	Oct	June	July	Aug	Sept	Oct
Ammonia-Nitrogen	15.9	9.42	53.6			<0.005	<0.005	<0.005			Not required for SNP 003-4				
BOD <sub>5</sub>	61	45	22			<2	<2	<2							
CBOD	74	33	15			3	<2	<2							
pH	7.32	6.93	7.16			6.37	8.33	8.43			7.96	8.27	8.31		
Suspended Solids	94	142	258			<3	<3	8			<3	4	12		
Total Phosphate											Not required for SNP 003-4				
Faecal Coliforms		<1	2000				<1	14							
Oil and Grease*	<2.0		4.8			<2.0		<2.0							
Mercury	<0.04	0.04	0.09			0.02	<0.01	<0.01			<0.01	<0.01	<0.01		
Arsenic	Not required for SNP 003-2 and 003-3										0.3	0.3	0.2		
Aluminum											21.2	12.4	3.2		
Barium											19.2	23.0	20.7		
Boron															
Cadmium											<0.04	<0.1	<0.04		
Chromium											<0.1	0.2	0.2		
Copper											0.6	0.7	0.6		
Iron											30	52	7		
Lead											<0.1	<0.1	<0.1		
Manganese											2.8	6.2	3.2		
Molybdenum											0.3	0.5	0.5		
Nickel											0.2	0.6	0.1		
Selenium											<0.3	<0.5	<0.3		
Strontium											170	193	181		
Uranium											1.5	2.4	1.2		
Zinc											1.0	<5.0	0.9		

**6. Unauthorized discharges (Schedule 1, Condition f)**

List any unauthorized discharges here including any spills, how and when they were reported, and how they were cleaned up. Please attach copies of spill reports, correspondence with the GNWT Water Licence Inspector or any other pertinent documentation as appendices to this report.

None

**7. Spill Training and Communications Exercises (Schedule 1, Condition 1h)**

List any spill training and communications exercises that have been carried out including courses on spills prevention, waste management, SNP sampling, etc.

None

**8. Closure and Reclamation (Schedule 1, Condition 1i)**

Include any closure and reclamation details here including any work anticipated to be completed during the next year. If required, please attach any as-built drawings or reports as appendices to this report.

None

**9. Studies requested by the Board (Schedule 1, Condition 1j)**

If the Board has requested that specific studies be completed, include details of the plan in this section with a summary of the outcome. Include any attachments with the submission of the Annual Report.

None

**10. Updates or revisions to approved plans (Schedule 1, Condition 1k)**

Details on any changes to approved plans such as the O&M Plan, the Closure and Reclamation Plan, the Spill Contingency Plan, or any other that is specific to this Municipal Water License. Please attach documents as appendices to this report.

None

**11. Other Information (Schedule 1, Condition 1m)**

- Include any other information here that may be valuable to the WLWB or to GNWT.
- Include details on upcoming studies that will be completed.
- Please include any non-compliance items identified in the GNWT Water License Inspection report and detail how the Community Government of Gameti is addressing them.
- If there are any contaminated soil piles currently in use (land farming), please list the details of containment, remediation and progress in this section.
- Please identify any on-going compliance issues for the Community Government of Gameti. This can facilitate discussions to resolve the issues.

*An action plan template for each facility is provided below for the Community's convenience. Please feel free to add more rows as necessary.*

<b>Compliance issues/Future Studies/Upgrades/Work related to</b>	<b>Plan</b>	<b>Timeline</b>
<i>Water Treatment Facility</i>	None	
<i>Solid Waste Facility</i>	None	
<i>Wastewater Treatment Facility</i>	None	
<i>Other (please specify):</i>	None	



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

**Taiga Batch No.:**  
211338

**- FINAL REPORT -**

**Prepared For:** Gameti Community Government

**Address:** P.O. Box 1  
Gameti, NT  
X0E 1R0

**Attn:** Memory Murefu

**Facsimile:** 867-997-3411

**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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**Print Date:** Tuesday, August 17, 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.:  
211338

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: SNP 003-2

Taiga Sample ID: 001

Client Project: W2018L3-0001  
Sample Type: SEWAGE Lagoon Outflow  
Received Date: 03-Aug-21  
Sampling Date: 03-Aug-21  
Sampling Time: 10:59  
Location:  
Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	53.6	0.005	mg/L	05-Aug-21	TEL068	
Biochemical Oxygen Demand	22	2	mg/L	04-Aug-21	TEL019	55
CBOD	15	2	mg/L	04-Aug-21	TEL019	
<b><u>Inorganics - Physicals</u></b>						
pH	7.16		pH units	04-Aug-21	TEL058	
Solids, Total Suspended	258	3	mg/L	04-Aug-21	TEL008	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	2000	100	CFU/100mL	04-Aug-21	TEL017	20
<b><u>Organics</u></b>						
Hexane Extractable Material	4.8	2	mg/L	16-Aug-21	TEL072	
<b><u>Trace Metals, Total</u></b>						
Mercury	0.09	0.01	µg/L	16-Aug-21	TEL035	

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

Taiga Batch No.:  
211338

- CERTIFICATE OF ANALYSIS -

Client Sample ID: SNP 003-3

Taiga Sample ID: 002

Client Project: W2018L3-0001  
Sample Type: SEWAGE Wetland Outflow  
Received Date: 03-Aug-21  
Sampling Date: 03-Aug-21  
Sampling Time: 10:43  
Location:  
Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	< 0.005	0.005	mg/L	05-Aug-21	TEL068	
Biochemical Oxygen Demand	< 2	2	mg/L	04-Aug-21	TEL019	
CBOD	< 2	2	mg/L	04-Aug-21	TEL019	
<b><u>Inorganics - Physicals</u></b>						
pH	8.43		pH units	04-Aug-21	TEL058	
Solids, Total Suspended	8	3	mg/L	04-Aug-21	TEL008	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	14	1	CFU/100mL	04-Aug-21	TEL017	
<b><u>Organics</u></b>						
Hexane Extractable Material	< 2.0	2	mg/L	16-Aug-21	TEL072	
<b><u>Trace Metals, Total</u></b>						
Mercury	< 0.01	0.01	µg/L	16-Aug-21	TEL035	

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## Taiga Environmental Laboratory

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

Taiga Batch No.:  
211338

### - CERTIFICATE OF ANALYSIS -

Client Sample ID: SNP 003-4

Taiga Sample ID: 003

Client Project: W2018L3-0001

Sample Type: Runoff

Received Date: 03-Aug-21

Sampling Date: 03-Aug-21

Sampling Time: 11:15

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Physicals</u></b>						
pH	8.31		pH units	04-Aug-21	TEL058	
Solids, Total Suspended	12	3	mg/L	04-Aug-21	TEL008	
<b><u>Trace Metals, Total</u></b>						
Aluminum	3.2	0.6	µg/L	16-Aug-21	TEL035	
Antimony	< 0.1	0.1	µg/L	16-Aug-21	TEL035	
Arsenic	0.2	0.2	µg/L	16-Aug-21	TEL035	
Barium	20.7	0.1	µg/L	16-Aug-21	TEL035	
Beryllium	< 0.1	0.1	µg/L	16-Aug-21	TEL035	
Cadmium	< 0.04	0.04	µg/L	16-Aug-21	TEL035	
Cesium	< 0.1	0.1	µg/L	16-Aug-21	TEL035	
Chromium	0.2	0.1	µg/L	16-Aug-21	TEL035	
Cobalt	< 0.1	0.1	µg/L	16-Aug-21	TEL035	
Copper	0.6	0.2	µg/L	16-Aug-21	TEL035	
Iron	7	5	ug/L	16-Aug-21	TEL035	
Lead	< 0.1	0.1	µg/L	16-Aug-21	TEL035	
Lithium	4.0	0.2	µg/L	16-Aug-21	TEL035	

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

**Taiga Batch No.:**  
211338

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: SNP 003-4**

**Taiga Sample ID: 003**

Manganese	3.2	0.1	µg/L	16-Aug-21	TEL035
Mercury	< 0.01	0.01	µg/L	16-Aug-21	TEL035
Molybdenum	0.5	0.1	µg/L	16-Aug-21	TEL035
Nickel	0.1	0.1	µg/L	16-Aug-21	TEL035
Rubidium	1.3	0.1	µg/L	16-Aug-21	TEL035
Selenium	< 0.3	0.3	µg/L	16-Aug-21	TEL035
Silver	< 0.1	0.1	µg/L	16-Aug-21	TEL035
Strontium	181	0.1	µg/L	16-Aug-21	TEL035
Thallium	< 0.1	0.1	µg/L	16-Aug-21	TEL035
Titanium	0.1	0.1	µg/L	16-Aug-21	TEL035
Uranium	1.2	0.1	µg/L	16-Aug-21	TEL035
Vanadium	0.1	0.1	µg/L	16-Aug-21	TEL035
Zinc	0.9	0.4	µg/L	16-Aug-21	TEL035

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

Taiga Batch No.:  
211338

### - CERTIFICATE OF ANALYSIS -

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Client Sample ID: SNP 003-4

Taiga Sample ID: 003

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### - DATA QUALIFIERS -

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*Data Qualifier Descriptions:*

- 20 *Possible matrix interference, reported result uncertain.*
- 55 *BOD result is inconclusive; residual DO was less than 1 mg/L. For evaluation purposes only.*

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

**Taiga Batch No.:**  
211050

**- FINAL REPORT -**

**Prepared For:** Gameti Community Government

**Address:** P.O. Box 1  
Gameti, NT  
X0E 1R0

**Attn:** Memory Murefu

**Facsimile:** 867-997-3411

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

Glen Hudy  
Quality Assurance Officer

**NOTES:**

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

Taiga Batch No.:  
211050

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: SNP 003-2

Taiga Sample ID: 001

Client Project: W2018L3-0001  
Sample Type: SEWAGE Lagoon Outflow  
Received Date: 05-Jul-21  
Sampling Date: 05-Jul-21  
Sampling Time: 11:00  
Location:  
Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	9.42	0.005	mg/L	07-Jul-21	SM4500-NH3:G	
Biochemical Oxygen Demand	45	2	mg/L	07-Jul-21	SM5210:B	
CBOD	33	2	mg/L	07-Jul-21	SM5210:B	
<b><u>Inorganics - Physicals</u></b>						
pH	6.93		pH units	06-Jul-21	SM4500-H:B	
Solids, Total Suspended	142	3	mg/L	06-Jul-21	SM2540:D	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	< 1	1	CFU/100mL	06-Jul-21	SM9222:D	
<b><u>Organics</u></b>						
Hexane Extractable Material		2.0	mg/L		EPA1664A	16
<b><u>Trace Metals, Total</u></b>						
Mercury	0.04	0.01	µg/L	20-Jul-21	EPA200.8	

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

Taiga Batch No.:  
211050

### - CERTIFICATE OF ANALYSIS -

Client Sample ID: SNP 003-3

Taiga Sample ID: 002

Client Project: W2018L3-0001

Sample Type: SEWAGE Wetland Outflow

Received Date: 05-Jul-21

Sampling Date: 05-Jul-21

Sampling Time: 10:45

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	< 0.005	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	
<b><u>Inorganics - Physicals</u></b>						
pH	8.33		pH units	06-Jul-21	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	06-Jul-21	SM2540:D	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	< 1	1	CFU/100mL	06-Jul-21	SM9222:D	
<b><u>Organics</u></b>						
Hexane Extractable Material		2.0	mg/L		EPA1664A	16
<b><u>Trace Metals, Total</u></b>						
Mercury	< 0.01	0.01	µg/L	20-Jul-21	EPA200.8	

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

Taiga Batch No.:  
211050

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: SNP 003-4

Taiga Sample ID: 003

Client Project: W2018L3-0001  
Sample Type: Runoff  
Received Date: 05-Jul-21  
Sampling Date: 05-Jul-21  
Sampling Time: 10:15

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Physicals</u></b>						
pH	8.27		pH units	06-Jul-21	SM4500-H:B	
Solids, Total Suspended	4	3	mg/L	06-Jul-21	SM2540:D	
<b><u>Trace Metals, Total</u></b>						
Aluminum	12.4	5	µg/L	20-Jul-21	EPA200.8	
Antimony	< 0.1	0.1	µg/L	20-Jul-21	EPA200.8	
Arsenic	0.3	0.2	µg/L	20-Jul-21	EPA200.8	
Barium	23.0	0.1	µg/L	20-Jul-21	EPA200.8	
Beryllium	< 0.1	0.1	µg/L	20-Jul-21	EPA200.8	
Cadmium	< 0.1	0.1	µg/L	20-Jul-21	EPA200.8	
Cesium	< 0.1	0.1	µg/L	20-Jul-21	EPA200.8	
Chromium	0.2	0.1	µg/L	20-Jul-21	EPA200.8	
Cobalt	< 0.1	0.1	µg/L	20-Jul-21	EPA200.8	
Copper	0.7	0.2	µg/L	20-Jul-21	EPA200.8	
Iron	52	5	µg/L	20-Jul-21	EPA200.8	
Lead	< 0.1	0.1	µg/L	20-Jul-21	EPA200.8	
Lithium	4.0	0.2	µg/L	20-Jul-21	EPA200.8	

ReportDate: Tuesday, July 20, 2021

Print Date: Wednesday, July 21, 2021





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**Taiga Batch No.:**  
**211050**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: SNP 003-4**

**Taiga Sample ID: 003**

Manganese	6.2	0.1	µg/L	20-Jul-21	EPA200.8
Mercury	< 0.01	0.01	µg/L	20-Jul-21	EPA200.8
Molybdenum	0.5	0.1	µg/L	20-Jul-21	EPA200.8
Nickel	0.6	0.1	µg/L	20-Jul-21	EPA200.8
Rubidium	1.3	0.1	µg/L	20-Jul-21	EPA200.8
Selenium	< 0.5	0.5	µg/L	20-Jul-21	EPA200.8
Silver	< 0.1	0.1	µg/L	20-Jul-21	EPA200.8
Strontium	193	0.1	µg/L	20-Jul-21	EPA200.8
Thallium	< 0.1	0.1	µg/L	20-Jul-21	EPA200.8
Titanium	0.4	0.1	µg/L	20-Jul-21	EPA200.8
Uranium	2.4	0.1	µg/L	20-Jul-21	EPA200.8
Vanadium	0.2	0.1	µg/L	20-Jul-21	EPA200.8
Zinc	< 5.0	5	µg/L	20-Jul-21	EPA200.8

**ReportDate:** Tuesday, July 20, 2021

**Print Date:** Wednesday, July 21, 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.:  
211050

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- CERTIFICATE OF ANALYSIS -

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Client Sample ID: SNP 003-4

Taiga Sample ID: 003

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- DATA QUALIFIERS -

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*Data Qualifier Descriptions:*

16      *Test requested but no sample bottle received*

**\* 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

ReportDate: Tuesday, July 20, 2021

Print Date: Wednesday, July 21, 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.:  
 210788

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 003-~~14~~ *This was a typo* Taiga Sample ID: 003  
*This info is for sample ID 003-4*

Client Project: W2018L3-0001  
 Sample Type: Runoff  
 Received Date: 09-Jun-21  
 Sampling Date: 07-Jun-21  
 Sampling Time: 11:39



Location:  
 Report Status: Final



Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Physicals</u></b>						
pH	7.96		pH units	09-Jun-21	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	09-Jun-21	SM2540:D	
<b><u>Trace Metals, Total</u></b>						
Aluminum	21.2	0.6	µg/L	17-Jun-21	EPA200.8	
Antimony	< 0.1	0.1	µg/L	17-Jun-21	EPA200.8	
Arsenic	0.3	0.2	µg/L	17-Jun-21	EPA200.8	
Barium	19.2	0.1	µg/L	17-Jun-21	EPA200.8	
Beryllium	< 0.1	0.1	µg/L	17-Jun-21	EPA200.8	
Cadmium	< 0.04	0.04	µg/L	17-Jun-21	EPA200.8	
Cesium	< 0.1	0.1	µg/L	17-Jun-21	EPA200.8	
Chromium	< 0.1	0.1	µg/L	17-Jun-21	EPA200.8	
Cobalt	< 0.1	0.1	µg/L	17-Jun-21	EPA200.8	
Copper	0.6	0.2	µg/L	17-Jun-21	EPA200.8	
Iron	30	5	ug/L	17-Jun-21	EPA200.8	
Lead	< 0.1	0.1	µg/L	17-Jun-21	EPA200.8	
Lithium	3.9	0.2	µg/L	17-Jun-21	EPA200.8	

ReportDate: Friday, June 18, 2021  
 Print Date: Friday, June 18, 2021



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

**Taiga Batch No.:**  
210788

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: 003-1**

**Taiga Sample ID: 003**

Manganese	2.8	0.1	µg/L	17-Jun-21	EPA200.8
Mercury	< 0.01	0.01	µg/L	17-Jun-21	EPA200.8
Molybdenum	0.3	0.1	µg/L	17-Jun-21	EPA200.8
Nickel	0.2	0.1	µg/L	17-Jun-21	EPA200.8
Rubidium	1.3	0.1	µg/L	17-Jun-21	EPA200.8
Selenium	< 0.3	0.3	µg/L	17-Jun-21	EPA200.8
Silver	< 0.1	0.1	µg/L	17-Jun-21	EPA200.8
Strontium	170	0.1	µg/L	17-Jun-21	EPA200.8
Thallium	< 0.1	0.1	µg/L	17-Jun-21	EPA200.8
Titanium	0.9	0.1	µg/L	17-Jun-21	EPA200.8
Uranium	1.5	0.1	µg/L	17-Jun-21	EPA200.8
Vanadium	0.1	0.1	µg/L	17-Jun-21	EPA200.8
Zinc	1.0	0.4	µg/L	17-Jun-21	EPA200.8

**ReportDate:** Friday, June 18, 2021

**Print Date:** Friday, June 18, 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.:  
210788

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- CERTIFICATE OF ANALYSIS -

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Client Sample ID: 003-1

Taiga Sample ID: 003

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- DATA QUALIFIERS -

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*Data Qualifier Descriptions:*

- 105     *Samples received past hold time; analysis not possible.*  
88     *Samples analysed past holding time, as per client request.*

**\* 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

ReportDate: Friday, June 18, 2021  
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**Taiga Environmental Laboratory**  
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Tel: (867)-767-9235 Fax: (867)-920-8740

**Taiga Batch No.:**  
210788

**- FINAL REPORT -**

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**Prepared For:** Gameti Community Government

**Address:** P.O. Box 1  
Gameti, NT  
X0E 1R0

**Attn:** Memory Murefu

**Facsimile:** 867-997-3411

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

Taiga Batch No.:  
210788

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: SNP 003-2

Taiga Sample ID: 001

Client Project: W2018L3-0001  
Sample Type: SEWAGE Lagoon Outflow  
Received Date: 09-Jun-21  
Sampling Date: 07-Jun-21  
Sampling Time: 12:01  
Location:  
Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	15.9	0.005	mg/L	12-Jun-21	SM4500-NH3:G	
Biochemical Oxygen Demand	61	2	mg/L	10-Jun-21	SM5210:B	88
CBOD	74	2	mg/L	10-Jun-21	SM5210:B	88
<b><u>Inorganics - Physicals</u></b>						
pH	7.32		pH units	09-Jun-21	SM4500-H:B	
Solids, Total Suspended	94	3	mg/L	09-Jun-21	SM2540:D	
<b><u>Microbiology</u></b>						
Coliforms, Fecal		1	CFU/100mL		SM9222:D	105
<b><u>Organics</u></b>						
Hexane Extractable Material	< 2.0	2.0	mg/L	15-Jun-21	EPA1664A	
<b><u>Trace Metals, Total</u></b>						
Mercury	0.04	0.01	µg/L	17-Jun-21	EPA200.8	

Report Date: Friday, June 18, 2021  
Print Date: Friday, June 18, 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.:  
210788

### - CERTIFICATE OF ANALYSIS -

Client Sample ID: SNP 003-3

Taiga Sample ID: 002

Client Project: W2018L3-0001

Sample Type: SEWAGE Wetland Outflow

Received Date: 09-Jun-21

Sampling Date: 07-Jun-21

Sampling Time:

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	< 0.005	0.005	mg/L	12-Jun-21	SM4500-NH3:G	
Biochemical Oxygen Demand	< 2	2	mg/L	10-Jun-21	SM5210:B	88
CBOD	3	2	mg/L	10-Jun-21	SM5210:B	88
<b><u>Inorganics - Physicals</u></b>						
pH	6.37		pH units	09-Jun-21	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	09-Jun-21	SM2540:D	
<b><u>Microbiology</u></b>						
Coliforms, Fecal		1	CFU/100mL		SM9222:D	105
<b><u>Organics</u></b>						
Hexane Extractable Material	< 2.0	2.0	mg/L	15-Jun-21	EPA1664A	
<b><u>Trace Metals, Total</u></b>						
Mercury	0.02	0.01	µg/L	17-Jun-21	EPA200.8	

ReportDate: Friday, June 18, 2021

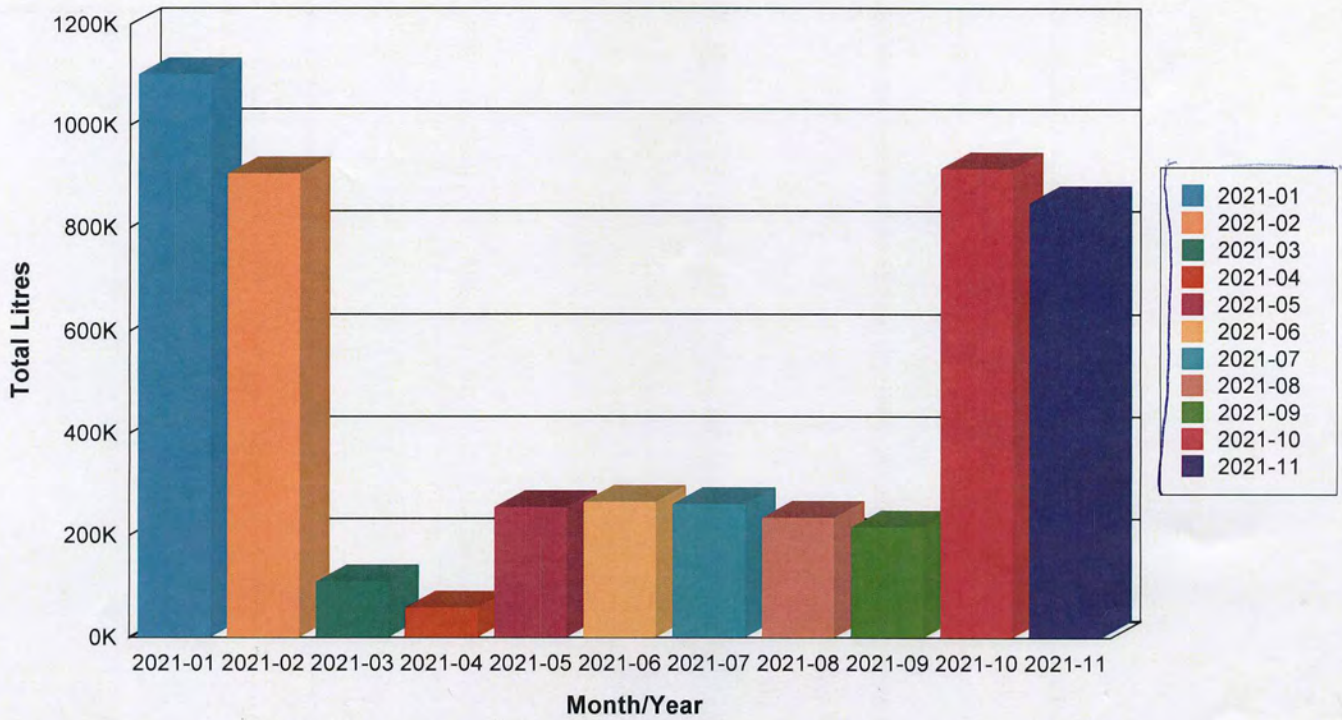
Print Date: Friday, June 18, 2021

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# Delivery Summary By Month and Year

Date Range From: Jan-01-2021 To: Nov-30-2021



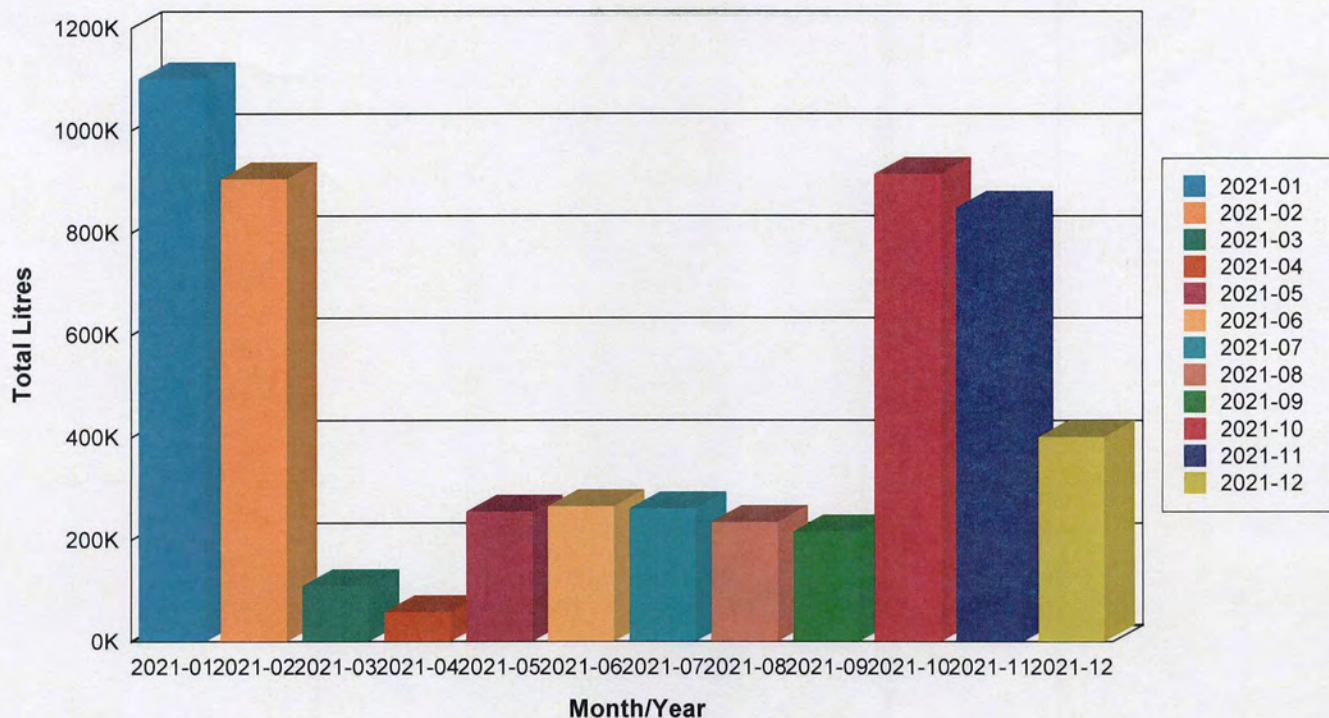
<u>Month / Year</u>	<u>Litres Delivered</u>
January 2021	1,101,004.90
February 2021	905,434.20
March 2021	108,470.70
April 2021	57,136.20
May 2021	254,122.50
June 2021	264,462.10
July 2021	260,053.90
August 2021	233,467.20
September 2021	215,250.90
October 2021	914,481.70
November 2021	847,961.30

**Grand Total:** 5,161,845.60

Jan 4, 2022, Reprint the same report to show 2021 12 months

# Delivery Summary By Month and Year

Date Range From: Jan-01-2021 To: Dec-31-2021



<u>Month / Year</u>	<u>Litres Delivered</u>
January 2021	1,101,004.90
February 2021	905,434.20
March 2021	108,470.70
April 2021	57,136.20
May 2021	254,122.50
June 2021	264,462.10
July 2021	260,053.90
August 2021	233,467.20
September 2021	215,250.90
October 2021	914,481.70
November 2021	847,961.30
December 2021	399,614.00

**Grand Total:** 5,561,459.60