



**Hamlet of Paulatuk**

**Water Licence Number: N7L3-1619**

**Municipal Water Licence**

**Annual Report for the Year 2020**

**Date Prepared: March 9, 2021**

## Municipal Water Licence Annual Report

Hamlet of Paulatuk  
Licence # N7L3-169  
Reporting year 2020

### 1. Water Usage

Table 1: Monthly and annual quantities of fresh water obtained from all sources.

Month	Volume from Source (m <sup>3</sup> or L)	Volume from any other Source (m <sup>3</sup> or L)
January	967,161 L	
February	943,776 L	
March	856,855 L	
April	876,013 L	
May	860,465 L	
June	955,828 L	
July	973,161 L	
August	1,068,562 L	
September	947,670 L	
October	963,727 L	
November	896,320 L	
December	916,729 L	
<b>TOTALS</b>	11,226,266 L	
<b>ANNUAL TOTAL (m<sup>3</sup> or L)</b>	11,226,266 L	
<b>% Increase or decrease from previous year</b>	4% increase from previous year	

Reasons for increase / decrease (if applicable):

Reasons for exceeding licensed withdrawal volumes (if applicable):

General information:

## 2. Sewage Disposal

Table 2: Monthly and annual quantities of sewage discharged to the sewage disposal facilities.

Month	Volume of sewage discharged (m <sup>3</sup> or L)
January	1,112,235 L
February	1,085,342 L
March	985,383 L
April	1,007,414 L
May	989,535 L
June	1,099,202 L
July	1,362,425 L
August	1,228,847 L
September	1,089,821 L
October	1,108,286 L
November	1,030,768 L
December	1,054,239 L
<b>ANNUAL TOTAL (m<sup>3</sup> or L)</b>	13,153,497 L
<b>% Increase or decrease from previous year</b>	6% increase from previous year

## 3. Hazardous Waste Storage and Transportation

On Table 3, list the types of hazardous waste accepted into the facility including volumes.

Table 3: Monthly and annual quantities of hazardous waste stored on site and transported off site.

Month	Type of hazardous waste accepted (Volume in m <sup>3</sup> or L)	Type of hazardous waste transported off site (Volume in m <sup>3</sup> or L)
January	0	0
February	0	0
March	0	0
April	0	0
May	0	0
June	0	0
July	0	0
August	0	0
September	0	0
October	0	0
November	0	0
December	0	0
<b>ANNUAL TOTAL (m<sup>3</sup> or L)</b>	0	0
<b>% Increase or decrease from previous year</b>	No increase or decrease.	No increase or decrease.

If hazardous waste has been transported off site this year, please describe how it was transported and the final destination:

**No hazardous waste transported.**

Please include treatment or disposal plans for the remaining quantities:

**The Hamlet will be taking part in the Inuvik Regional Community Landfill Waste Diversion and Solid Waste Site Improvements Project that is being organized by MACA and funded through Infrastructure Canada's Investing in Canada Infrastructure Plan with clean-up work to start in the summer of 2021.**

Please describe any changes or improvements to temporary hazardous waste storage areas:

**There have been no changes to the temporary hazardous waste storage areas.**

#### **4. Sewage Sludge Removal**

Table 4: Monthly and annual quantities of sewage sludge removed from the sewage disposal facilities and disposal location.

Month	Volume of sewage sludge removed (m <sup>3</sup> or L)	Disposal location
January	0	
February	0	
March	0	
April	0	
May	0	
June	0	
July	0	
August	0	
September	0	
October	0	
November	0	
December	0	
<b>ANNUAL TOTAL (m<sup>3</sup> or L)</b>	0	
<b>% Increase or decrease from previous year</b>	No increase or decrease.	

## **5. Problems, Modifications or Repairs Completed During the Year on Water Supply and Waste Disposal Facilities**

*Include any changes to infrastructure of all facilities completed during the year, including any changes, repairs and modifications. Please note any problems that occurred during the year. If there are no changes, make note of that also.*

Work began on the construction of a berm and ditch around the Sewage Lagoon to prevent the inflow of surface water as per the construction plan and design prepared by Dillon Consulting in 2018 (copy of design submitted earlier).

## **6. SNP Data**

A condition of the Water Licence is the Surveillance Network Program (SNP). The SNP outlines the sampling requirements and frequency at monitoring stations. *In table 5, insert the sites sampled during the reporting year and the sampling period (sampling date). Attach the complete Taiga Laboratory results, with your “Municipal Water Licence Annual Report” to the Inuvialuit Water Board.*

Table 5: Sampling station and sampling period

Sampling station	After break-up	Prior to freeze-up
1619-2	09-Jun-20	Not done – site frozen before staff could sample.
1619-3	09-Jun-20	Not done-site frozen before staff could sample.
1619-4	09-Jun-20	Not done- site frozen before staff could sample.
1619-5	No sampling carried out.	
1619-6	No sampling carried out.	

## **7. Spills and Unauthorized Discharges**

*List any spills and unauthorized discharges, how and when they were reported, and clean up methods.*

**No spills or unauthorized discharges.**

## **8. Spill Response Training and/or other Operator Training**

*Please provide a description of any Spill Response Training and/or other operator training carried out during the year.*

**There was no Spill Response Training and/or other operator training carried out during the year.**

## **9. Closure and Reclamation**

*Include a description of any closure, remediation and/or reclamation activities completed during the year and an outline of any work anticipated for next year.*

**No closure, remediation and/or reclamation activities completed in 2020.**

**The Hamlet anticipates carrying out remediation and/or reclamation activities as part of the regional MACA-ICIP Project in the summer of 2021.**

## **10. Studies Requested by the Board that Relate to Water Use, Waste Disposal or Closure and Reclamation**

*If the Board has requested that specific studies be completed or have asked for specific information be included in the annual report, include these details in this section. Include a summary report of the study completed and the results. Include as attachments with the submission of the Annual Report. Include details of any upcoming studies that will be completed by the Hamlet.*

**The Board has not requested for specific studies be completed or specific information be included in the annual report.**

## **11. Updates or Revisions to Approved Plans**

*Include details on any changes to approved plans such as the Solid and Sewage Waste Disposal Facilities Operating and Maintenance Plan (O&M Plan) or any other plans specific to your Water Licence.*

- *Spill Contingency Plan*
- *Solid Waste Disposal Facilities Operation and Maintenance Plan*
- *Sewage Disposal Facilities Operation and Maintenance Plan*
- *Hazardous Waste Management Plan*
- *Closure and Reclamation Plan*

**Updated Plans were submitted as part of the Water Licence Renewal Application.**

## **12. Inspection of Dams, Berms, Dykes and Control Structures**

*Include results of any inspections of all dams, berms, dykes and control structures related to the water intake facilities, solid waste disposal facilities, sewage disposal facilities and/or any other specific to your water licence.*

**There were no inspections carried out of the control structures related to the facilities.**

### **13. Inspections on all Water and Waste Disposal Facilities**

*Include results of regular staff inspections on all water and waste disposal facilities authorized under this licence and any corrective actions taken, as necessary.*

**Staff inspect the disposal facilities on a regular basis as part of normal operations and take corrective action as required but no formal reports are filed.**

### **14. Correspondence between the Inspector and the Licensee**

*Include all correspondence between the Inspector and the Licensee with your annual report.*

**There was no correspondence between the Inspector and Licensee.**

### **15. Other Information**

*Include any other details on waste disposal requested by the Board by November 1, of the year being reported. In this section you may include non-compliance items identified in the inspection reports and how the Hamlet is addressing them. If there are any contaminated soil piles currently in use, please list the details of containment, remediation, and progress in this section. Ongoing issues with compliance can be identified here. If the IWB is aware of ongoing problems with the licence, discussions can occur to find a resolution.*

**There were no other details on waste disposal requested by the Board and the Hamlet is not required to address any non-compliance items at present. There are no contaminated soil piles currently in use.**



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

**Taiga Batch No.:**  
**200266**

**- FINAL REPORT -**

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**Prepared For:** Hamlet of Paulatuk

**Address:** P.O. Box 98  
Paulatuk, NT  
XOE 1N0

**Attn:** John Holland

**Facsimile:**

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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.

**ReportDate:** Thursday, June 18, 2020

**Print Date:** *Thursday, June 18, 2020*

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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.:  
**200266**

### - CERTIFICATE OF ANALYSIS -

Client Sample ID: **1619-2**

Taiga Sample ID: **001**

**Client Project:**

**Sample Type:** Effluent Discharge

**Received Date:** 10-Jun-20

**Sampling Date:** 09-Jun-20

**Sampling Time:** 10:00

**Location:**

**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Biochemical Oxygen Demand	9	2	mg/L	11-Jun-20	SM5210:B	
CBOD	9	2	mg/L	11-Jun-20	SM5210:B	
<b><u>Inorganics - Physicals</u></b>						
pH	7.61		pH units	10-Jun-20	SM4500-H:B	
Solids, Total Suspended	14	3	mg/L	11-Jun-20	SM2540:D	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	790	10	CFU/100mL	10-Jun-20	SM9222:D	
<b><u>Organics</u></b>						
Hexane Extractable Material	< 2.0	2.0	mg/L	17-Jun-20	EPA1664A	

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

Taiga Batch No.:

200266

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **1619-3**

Taiga Sample ID: **002**

**Client Project:**

**Sample Type:** Effluent Discharge

**Received Date:** 10-Jun-20

**Sampling Date:** 09-Jun-20

**Sampling Time:** 10:00

**Location:**

**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Biochemical Oxygen Demand	2	2	mg/L	11-Jun-20	SM5210:B	
CBOD	2	2	mg/L	11-Jun-20	SM5210:B	
<b><u>Inorganics - Physicals</u></b>						
pH	7.78		pH units	10-Jun-20	SM4500-H:B	
Solids, Total Suspended	14	3	mg/L	11-Jun-20	SM2540:D	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	< 1	1	CFU/100mL	10-Jun-20	SM9222:D	
<b><u>Organics</u></b>						
Hexane Extractable Material	< 2.0	2.0	mg/L	17-Jun-20	EPA1664A	

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Taiga Batch No.:

200266

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **1619-4**

Taiga Sample ID: **003**

**Client Project:**

**Sample Type:** Effluent Discharge

**Received Date:** 10-Jun-20

**Sampling Date:** 09-Jun-20

**Sampling Time:** 10:00

**Location:**

**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Biochemical Oxygen Demand	2	2	mg/L	11-Jun-20	SM5210:B	
CBOD	2	2	mg/L	11-Jun-20	SM5210:B	
<b><u>Inorganics - Physicals</u></b>						
pH	7.59		pH units	10-Jun-20	SM4500-H:B	
Solids, Total Suspended	12	3	mg/L	11-Jun-20	SM2540:D	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	1	1	CFU/100mL	10-Jun-20	SM9222:D	
<b><u>Organics</u></b>						
Hexane Extractable Material	< 2.0	2.0	mg/L	17-Jun-20	EPA1664A	

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Taiga Batch No.:

**200266**

### - CERTIFICATE OF ANALYSIS -

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Client Sample ID: **1619-4**

Taiga Sample ID: **003**

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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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