



Hamlet of Paulatuk
Water Licence Number: N7L3-1619

Municipal Water Licence

Annual Report for the Year 2018

Date Prepared: May 23, 2019

Municipal Water Licence Annual Report

Hamlet of Paulatuk
Licence # N7L3-1619
Reporting year 2018

1. Water Usage

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

Month	Volume from Source (m ³ or L)	Volume from any other Source (m ³ or L)
January	888,542l	
February	772,926l	
March	906,230l	
April	849,419l	
May	889,053l	
June	906,644l	
July	997,732l	
August	1,022,554l	
September	881,188l	
October	933,732l	
November	953,761l	
December	878,104l	
TOTALS	10,879,885l	
ANNUAL TOTAL (m³ or L)		10,879,885l
% Increase or decrease from previous year		13% decrease

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 ³ or L)
January	1,021,824l
February	888,865l
March	1,042,165l
April	976,832l
May	1,022,411l
June	1,042,640l
July	1,147,392l
August	1,175,938l
September	1,013,366l
October	1,073,792
November	1,090,625
December	1,009,820l
ANNUAL TOTAL (m³ or L)	12,511,870
% Increase or decrease from previous year	13% decrease

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 ³ or L)	Type of hazardous waste transported off site (Volume in m ³ or L)
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		
ANNUAL TOTAL (m³ or L)	None accepted.	None transported off site.
% Increase or decrease from previous year		

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

No waste transported.

Please include treatment or disposal plans for the remaining quantities:

No plans at present time.

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

No changes.

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 ³ or L)	Disposal location
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		
ANNUAL TOTAL (m³ or L)	None removed.	
% Increase or decrease from previous year		

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.

Two cells at the waste disposal site were closed and a new cell opened.

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	June 15, 2018	
1619-3	June 15, 2018	
1619-4	June 15, 2018	

7. Spills and Unauthorized Discharges

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

No spills and 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.

No training carried out.

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.

Two Cells at Waste Disposal Site were closed and new cell opened.

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.

No upcoming studies.

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*

No changes.

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.

No Inspections.

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.

No Inspections.

14. Correspondence between the Inspector and the Licensee

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

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.



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

Taiga Batch No.:
180391

- FINAL REPORT -

Prepared For: Dillon Consulting Ltd.

Address: Suite 303 - 4920 47 St.
Box 1409
Yellowknife, NT
X1A 2L8

Attn: Crystal Sabel

Facsimile: (867) 873-3328

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

Taiga Batch No.:
180391

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1619-2

Taiga Sample ID: 001

Client Project: 17-6028
Sample Type: Sewage
Received Date: 14-Jun-18
Sampling Date: 13-Jun-18
Sampling Time: 11:00
Location: Paulatuk, NT
Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Biochemical Oxygen Demand	13	2	mg/L	15-Jun-18	SM5210:B	81
CBOD	13	2	mg/L	15-Jun-18	SM5210:B	81
<u>Inorganics - Physicals</u>						
pH	7.59		pH units	15-Jun-18	SM4500-H:B	
Solids, Total Suspended	8	3	mg/L	19-Jun-18	SM2540:D	
<u>Microbiology</u>						
Coliforms, Fecal	< 1,000	1000	CFU/100mL	14-Jun-18	SM9222:D	

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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.:
180391

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1619-3

Taiga Sample ID: 002

Client Project: 17-6028

Sample Type: Sewage

Received Date: 14-Jun-18

Sampling Date: 13-Jun-18

Sampling Time: 11:30

Location: Paulatuk, NT

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Biochemical Oxygen Demand	3	2	mg/L	15-Jun-18	SM5210:B	
CBOD	3	2	mg/L	15-Jun-18	SM5210:B	
<u>Inorganics - Physicals</u>						
pH	7.91		pH units	15-Jun-18	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	19-Jun-18	SM2540:D	
<u>Microbiology</u>						
Coliforms, Fecal	< 1	1	CFU/100mL	14-Jun-18	SM9222:D	

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Taiga Batch No.:
180391

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1619-4

Taiga Sample ID: 003

Client Project: 17-6028
Sample Type: Sewage
Received Date: 14-Jun-18
Sampling Date: 13-Jun-18
Sampling Time: 9:30
Location: Paulatuk, NT
Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Biochemical Oxygen Demand	2	2	mg/L	15-Jun-18	SM5210:B	
CBOD	< 2	2	mg/L	15-Jun-18	SM5210:B	
<u>Inorganics - Physicals</u>						
pH	7.93		pH units	15-Jun-18	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	19-Jun-18	SM2540:D	
<u>Microbiology</u>						
Coliforms, Fecal	< 1	1	CFU/100mL	14-Jun-18	SM9222:D	

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Taiga Batch No.:
180391

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1619-4

Taiga Sample ID: 004

Client Project: 17-6028
Sample Type: Wastewater
Received Date: 14-Jun-18
Sampling Date: 13-Jun-18
Sampling Time: 10:30
Location: Paulatuk, NT
Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Physicals</u>						
pH	7.60		pH units	15-Jun-18	SM4500-H:B	
Solids, Total Suspended	8	3	mg/L	19-Jun-18	SM2540:D	
<u>Trace Metals, Total</u>						
Aluminum	55.3	0.6	µg/L	20-Jun-18	EPA200.8	
Antimony	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Arsenic	< 0.2	0.2	µg/L	20-Jun-18	EPA200.8	
Barium	8.1	0.1	µg/L	20-Jun-18	EPA200.8	
Beryllium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Cadmium	< 0.04	0.04	µg/L	20-Jun-18	EPA200.8	
Cesium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Chromium	0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Cobalt	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Copper	2.5	0.2	µg/L	20-Jun-18	EPA200.8	
Iron	78	5	ug/L	20-Jun-18	EPA200.8	
Lead	0.3	0.1	µg/L	20-Jun-18	EPA200.8	
Lithium	0.6	0.2	µg/L	20-Jun-18	EPA200.8	

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1619-4

Taiga Sample ID: 004

Manganese	4.6	0.1	µg/L	20-Jun-18	EPA200.8
Mercury	< 0.01	0.01	µg/L	20-Jun-18	EPA200.8
Molybdenum	1.0	0.1	µg/L	20-Jun-18	EPA200.8
Nickel	0.4	0.1	µg/L	20-Jun-18	EPA200.8
Rubidium	0.1	0.1	µg/L	20-Jun-18	EPA200.8
Selenium	< 0.3	0.3	µg/L	20-Jun-18	EPA200.8
Silver	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Strontium	6.6	0.1	µg/L	20-Jun-18	EPA200.8
Thallium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Titanium	3.0	0.1	µg/L	20-Jun-18	EPA200.8
Uranium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Vanadium	0.8	0.1	µg/L	20-Jun-18	EPA200.8
Zinc	2.3	0.4	µg/L	20-Jun-18	EPA200.8

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Taiga Batch No.:
180391

- CERTIFICATE OF ANALYSIS -

Client Sample ID: QAQC2

Taiga Sample ID: 005

Client Project: 17-6028
Sample Type: Water
Received Date: 14-Jun-18
Sampling Date: 13-Jun-18
Sampling Time:
Location: Paulatuk, NT
Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Physicals</u>						
pH	5.75		pH units	15-Jun-18	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	19-Jun-18	SM2540:D	
<u>Trace Metals, Total</u>						
Aluminum	< 0.6	0.6	µg/L	20-Jun-18	EPA200.8	
Antimony	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Arsenic	< 0.2	0.2	µg/L	20-Jun-18	EPA200.8	
Barium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Beryllium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Cadmium	< 0.04	0.04	µg/L	20-Jun-18	EPA200.8	
Cesium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Chromium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Cobalt	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Copper	< 0.2	0.2	µg/L	20-Jun-18	EPA200.8	
Iron	< 5	5	ug/L	20-Jun-18	EPA200.8	
Lead	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Lithium	< 0.2	0.2	µg/L	20-Jun-18	EPA200.8	

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: QAQC2

Taiga Sample ID: 005

Manganese	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Mercury	< 0.01	0.01	µg/L	20-Jun-18	EPA200.8
Molybdenum	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Nickel	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Rubidium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Selenium	< 0.3	0.3	µg/L	20-Jun-18	EPA200.8
Silver	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Strontium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Thallium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Titanium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Uranium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Vanadium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Zinc	< 0.4	0.4	µg/L	20-Jun-18	EPA200.8

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Taiga Environmental Laboratory

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

Taiga Batch No.:
180391

- CERTIFICATE OF ANALYSIS -

Client Sample ID: QAQC3

Taiga Sample ID: 006

Client Project: 17-6028

Sample Type: Water

Received Date: 14-Jun-18

Sampling Date: 13-Jun-18

Sampling Time:

Location: Paulatuk, NT

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Biochemical Oxygen Demand	13	2	mg/L	15-Jun-18	SM5210:B	81
CBOD	12	2	mg/L	15-Jun-18	SM5210:B	81
<u>Inorganics - Physicals</u>						
pH	7.55		pH units	15-Jun-18	SM4500-H:B	
Solids, Total Suspended	6	3	mg/L	19-Jun-18	SM2540:D	
<u>Microbiology</u>						
Coliforms, Fecal	< 100	100	CFU/100mL	14-Jun-18	SM9222:D	

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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.:
180391

- CERTIFICATE OF ANALYSIS -

Client Sample ID: QAQC4

Taiga Sample ID: 007

Client Project: 17-6028
Sample Type: Water
Received Date: 14-Jun-18
Sampling Date: 13-Jun-18
Sampling Time:
Location: Paulatuk, NT
Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Trace Metals, Total						
Aluminum	47.1	0.6	µg/L	20-Jun-18	EPA200.8	
Antimony	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Arsenic	< 0.2	0.2	µg/L	20-Jun-18	EPA200.8	
Barium	6.6	0.1	µg/L	20-Jun-18	EPA200.8	
Beryllium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Cadmium	< 0.04	0.04	µg/L	20-Jun-18	EPA200.8	
Cesium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Chromium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Cobalt	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Copper	0.4	0.2	µg/L	20-Jun-18	EPA200.8	
Iron	105	5	ug/L	20-Jun-18	EPA200.8	
Lead	0.2	0.1	µg/L	20-Jun-18	EPA200.8	
Lithium	0.4	0.2	µg/L	20-Jun-18	EPA200.8	
Manganese	5.3	0.1	µg/L	20-Jun-18	EPA200.8	
Mercury	< 0.01	0.01	µg/L	20-Jun-18	EPA200.8	
Molybdenum	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	

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Client Sample ID: QAQC4

Taiga Sample ID: 007

Nickel	0.2	0.1	µg/L	20-Jun-18	EPA200.8
Rubidium	0.1	0.1	µg/L	20-Jun-18	EPA200.8
Selenium	< 0.3	0.3	µg/L	20-Jun-18	EPA200.8
Silver	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Strontium	6.1	0.1	µg/L	20-Jun-18	EPA200.8
Thallium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Titanium	1.3	0.1	µg/L	20-Jun-18	EPA200.8
Uranium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Vanadium	0.1	0.1	µg/L	20-Jun-18	EPA200.8
Zinc	1.3	0.4	µg/L	20-Jun-18	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.:
180391

- CERTIFICATE OF ANALYSIS -

Client Sample ID: QCQC1 (TB)

Taiga Sample ID: 008

Client Project: 17-6028
Sample Type: Water
Received Date: 14-Jun-18
Sampling Date: 13-Jun-18
Sampling Time:
Location: Paulatuk, NT
Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Biochemical Oxygen Demand	< 2	2	mg/L	15-Jun-18	SM5210:B	
CBOD	2	2	mg/L	15-Jun-18	SM5210:B	
<u>Inorganics - Physicals</u>						
pH	5.89		pH units	15-Jun-18	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	19-Jun-18	SM2540:D	
<u>Microbiology</u>						
Coliforms, Fecal	< 1	1	CFU/100mL	14-Jun-18	SM9222:D	
<u>Trace Metals, Total</u>						
Aluminum	7.4	0.6	µg/L	20-Jun-18	EPA200.8	
Antimony	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Arsenic	< 0.2	0.2	µg/L	20-Jun-18	EPA200.8	
Barium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Beryllium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Cadmium	< 0.04	0.04	µg/L	20-Jun-18	EPA200.8	
Cesium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8	
Chromium	< 0.1	0.1	µg/L	20-Jun-18	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.:
180391

- CERTIFICATE OF ANALYSIS -

Client Sample ID: QCQC1 (TB)

Taiga Sample ID: 008

Cobalt	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Copper	0.6	0.2	µg/L	20-Jun-18	EPA200.8
Iron	< 5	5	ug/L	20-Jun-18	EPA200.8
Lead	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Lithium	< 0.2	0.2	µg/L	20-Jun-18	EPA200.8
Manganese	0.1	0.1	µg/L	20-Jun-18	EPA200.8
Mercury	< 0.01	0.01	µg/L	20-Jun-18	EPA200.8
Molybdenum	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Nickel	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Rubidium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Selenium	< 0.3	0.3	µg/L	20-Jun-18	EPA200.8
Silver	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Strontium	0.1	0.1	µg/L	20-Jun-18	EPA200.8
Thallium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Titanium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Uranium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Vanadium	< 0.1	0.1	µg/L	20-Jun-18	EPA200.8
Zinc	0.5	0.4	µg/L	20-Jun-18	EPA200.8

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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.:
180391

- CERTIFICATE OF ANALYSIS -

Client Sample ID: QCQC1 (TB)

Taiga Sample ID: 008

- DATA QUALIFIERS -

Data Qualifier Descriptions:

81 *Results are inconclusive due to insufficient depletion of sample, minimum 2 mg/L required over 5 days.*

*** 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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