

2025 ANNUAL REPORT FOR THE MUNICIPALITY OF CAMBRIDGE BAY

YEAR BEING REPORTED: 2025

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water License No. 3BM-CAM2030 issued to the Municipality of Cambridge Bay.

- a) **Tabular summaries of all data generated under the “Monitoring Program”;**
- b) **Monthly and annual quantities in cubic metres of fresh Water obtained at the Water Supply Facility and/or for all purposes under the licence;**
- c) **Monthly and annual quantities in cubic metres of all Waste discharged;**

Attached are quantities of water used as reported by the Municipality and the estimated discharge of sewage waste based on quantities used.

Month Reported	Quantity of Water Obtained from all sources (m³)	Quantity of Sewage Waste Discharged (Estimated, m³)
January	7,224.56	Same
February	6,085.82	Same
March	6,648.49	Same
April	6,273.18	Same
May	6,278.10	Same
June	6,029.70	Same
July	6,495.97	Same
August	6,346.06	Same
September	6,794.07	Same
October	6,841.00	Same
November	6,372.88	Same
December	6,305.65	Same
ANNUAL TOTAL	77,695.48	Same

Note: Monthly sewage discharge volume is considered equal to the monthly water consumption volume.

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- d) **A summary of any open burning undertaken under Part D, Item 10, including quantity and details of the waste being burned, along with photographic evidence of site cleanup;**

Open burning was limited to days when westerly winds prevailed.

- e) **Summary of modifications and/or major maintenance work carried out on the Water Supply Facility and Waste Disposal Facilities, including all associated structures;**

There were no modifications and/or major maintenance work carried out on the Water Supply Facility and Waste Disposal Facilities in 2025.

- f) **A list of unauthorized discharges and summary of follow-up action taken;**

There were no unauthorized discharges in 2025.

- g) **A summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;**

There was no abandonment and restoration work completed during 2025. There is no abandonment and restoration work anticipated for 2026.

- h) **Any Addendum with updates or revisions for manuals and plans (including *Operations and Maintenance Manuals/Plans*) as required by changes in operation and/or technology;**

There were no addendums with updates or revisions for manuals and plans in 2025.

- i) **A summary of any studies or reports requested by the Board that relate to the use of Water and Waste disposal or restoration, and a brief description of any future studies planned;**

There were no reports requested for 2025 and there are no future studies currently planned.

- j) **Any other details on Water or Waste deposit requested by the Board by November 1 of the year being reported.**

There were no other details on Water or Waste deposit requested by the Board by November 1, 2025.

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ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL

The 2024 CIRNAC Inspection report was received September 24, 2024. As per the inspection report, 'The licensee is to provide a plan 2 weeks after receiving the report to ensure the following concerns are addressed, this plan shall include a timeline for implementation'. A plan was not received by the Municipality for submission deadline of the 2025 Annual Report.

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

The CIRNAC Inspection did not take place in 2025.

**2025 ANNUAL REPORT
FOR THE MUNICIPALITY OF CAMBRIDGE BAY**

List of Appendices

Appendix A: CAM-5 and CAM-6 Effluent Quality Limits 2025

Appendix B: Certificate of Analyses 2025

- **Certificate of Analysis 06/26/2025 – 6 pages**
- **Certificate of Analysis 09/11/2025 – 6 pages**
- **Certificate of Analysis 09/24/2025 – 6 pages**

Appendix C: Cambridge Bay 2025 Sampling Summary

**2025 ANNUAL REPORT
FOR THE MUNICIPALITY OF CAMBRIDGE BAY**

Appendix A: CAM-5 and CAM-6 Effluent Quality Limits 2025

Parameter	Maximum Concentration of any grab sample for CAM-5 & CAM-6	CAM-5 11-Sep-25	CAM-6 11-Sep-25	CAM-5 24-Sep-25	CAM-6 24-Sep-25
CBOD	100 mg/L	22	18	22	23
Total Suspended Solids	120 mg/L	35	20	46	37
Fecal Coliforms	1 x 10 ⁶ CFU/100mL	510	580	1.11 x 10 ³	560
Oil & Grease	no visible sheen	Non-visible	Non-visible	Non-visible	Non-visible
pH	between 6 and 9	7.69	7.62	7.48	7.64

All parameters at sample locations CAM-5 and CAM-6 during both sample dates in September are compliant with the maximum parameter concentrations listed in the water licence.

**2025 ANNUAL REPORT
FOR THE MUNICIPALITY OF CAMBRIDGE BAY**

Appendix B: Certificate of Analyses 2025



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

Taiga Batch No.:
250843

- FINAL REPORT -

Prepared For: Hamlet of Cambridge Bay

Address: P.O. Box 16
Cambridge Bay, NU
X0B 0C0

Attn: Jim MacEachern

Facsimile: (867) 983-2186

Final report has been reviewed and approved by:

Shalene Manickum
Laboratory Manager

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, July 10, 2025

Print Date: *Thursday, July 10, 2025*



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

Taiga Batch No.:
250843

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **CAM-3**

Taiga Sample ID: **001**

Client Project: Cambridge Bay Water Licence

Sample Type: Solid Waste Sampling Site

Received Date: 27-Jun-25

Sampling Date: 26-Jun-25

Sampling Time:

Location: Cambridge Bay Sewage System

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Cations by ICP-MS</u>						
Calcium	35.4	0.1	mg/L	07-Jul-25	TEL035	
Magnesium	29.6	0.1	mg/L	07-Jul-25	TEL035	
Potassium	17.7	0.1	mg/L	07-Jul-25	TEL035	
Sodium	89.0	0.1	mg/L	07-Jul-25	TEL035	
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	18.4	0.105	mg/L	07-Jul-25	TEL068	210
Biochemical Oxygen Demand	34	2	mg/L	27-Jun-25	TEL019	
CBOD	33	2	mg/L	27-Jun-25	TEL019	
Organic Carbon, Total	39.7	0.5	mg/L	07-Jul-25	TEL033	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	236	0.4	mg/L	02-Jul-25	TEL060	
Conductivity, Specific (@25C)	997	0.4	µS/cm	02-Jul-25	TEL059	
pH	7.79		pH units	02-Jul-25	TEL058	
Solids, Total Suspended	28	3	mg/L	02-Jul-25	TEL008	

Major Ions

ReportDate: Thursday, July 10, 2025

Print Date: **Thursday, July 10, 2025**



Taiga Environmental Laboratory

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

Taiga Batch No.:
250843

- CERTIFICATE OF ANALYSIS -

Client Sample ID: CAM-3

Taiga Sample ID: 001

Chloride	144	1.4	mg/L	28-Jun-25	TEL055	210
Nitrate+Nitrite as Nitrogen	0.36	0.01	mg/L	28-Jun-25	TEL055	
Sulphate	24	1	mg/L	28-Jun-25	TEL055	

Microbiology

Coliforms, Fecal	172	4	CFU/100mL	27-Jun-25	TEL017	210
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Organics

Oil and Grease, visible	non-visible			08-Jul-25	Visual Exam	
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Trace Metals, Total

Aluminum	9.2	0.6	µg/L	07-Jul-25	TEL035	
Arsenic	0.9	0.2	µg/L	07-Jul-25	TEL035	
Cadmium	< 0.04	0.04	µg/L	07-Jul-25	TEL035	
Chromium	0.2	0.1	µg/L	07-Jul-25	TEL035	
Cobalt	0.4	0.1	µg/L	07-Jul-25	TEL035	
Copper	20.9	0.2	µg/L	07-Jul-25	TEL035	
Iron	476	5	µg/L	07-Jul-25	TEL035	
Lead	0.2	0.1	µg/L	07-Jul-25	TEL035	
Manganese	96.1	0.1	µg/L	07-Jul-25	TEL035	
Nickel	1.6	0.1	µg/L	07-Jul-25	TEL035	
Zinc	11.1	0.4	µg/L	07-Jul-25	TEL035	

ReportDate: Thursday, July 10, 2025

Print Date: *Thursday, July 10, 2025*



Taiga Environmental Laboratory

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

Taiga Batch No.:
250843

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **CAM-4 Cell Closest to Fence**

Taiga Sample ID: **002**

Client Project: Cambridge Bay Water Licence

Sample Type: Solid Waste Sampling Site

Received Date: 27-Jun-25

Sampling Date: 26-Jun-25

Sampling Time:

Location: Cambridge Bay Sewage System

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Cations by ICP-MS</u>						
Calcium	189	0.1	mg/L	07-Jul-25	TEL035	
Magnesium	52.4	0.1	mg/L	07-Jul-25	TEL035	
Potassium	46.9	0.1	mg/L	07-Jul-25	TEL035	
Sodium	111	0.1	mg/L	07-Jul-25	TEL035	
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.165	0.005	mg/L	07-Jul-25	TEL068	
Biochemical Oxygen Demand	37	2	mg/L	27-Jun-25	TEL019	
CBOD	34	2	mg/L	27-Jun-25	TEL019	
Organic Carbon, Total	63.3	0.5	mg/L	07-Jul-25	TEL033	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	203	0.4	mg/L	02-Jul-25	TEL060	
Conductivity, Specific (@25C)	1770	0.4	µS/cm	02-Jul-25	TEL059	
pH	7.32		pH units	02-Jul-25	TEL058	
Solids, Total Suspended	44	3	mg/L	02-Jul-25	TEL008	
<u>Major Ions</u>						
Chloride	144	7.7	mg/L	30-Jun-25	TEL055	210

ReportDate: Thursday, July 10, 2025

Print Date: **Thursday, July 10, 2025**



Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

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

Taiga Batch No.:
250843

- CERTIFICATE OF ANALYSIS -

Client Sample ID: CAM-4 Cell Closest to Fence

Taiga Sample ID: 002

Nitrate+Nitrite as Nitrogen	0.22	0.01	mg/L	30-Jun-25	TEL055	
Sulphate	529	11	mg/L	30-Jun-25	TEL055	210

Microbiology

Coliforms, Fecal	3	1	CFU/100mL	27-Jun-25	TEL017	
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Organics

Oil and Grease, visible	non-visible			08-Jul-25	Visual Exam	
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Trace Metals, Total

Aluminum	58.2	0.6	µg/L	07-Jul-25	TEL035	
Arsenic	3.0	0.2	µg/L	07-Jul-25	TEL035	
Cadmium	0.20	0.04	µg/L	07-Jul-25	TEL035	
Chromium	1.9	0.1	µg/L	07-Jul-25	TEL035	
Cobalt	4.9	0.1	µg/L	07-Jul-25	TEL035	
Copper	47.8	0.2	µg/L	07-Jul-25	TEL035	
Iron	6320	5	µg/L	07-Jul-25	TEL035	
Lead	3.3	0.1	µg/L	07-Jul-25	TEL035	
Manganese	69.4	0.1	µg/L	07-Jul-25	TEL035	
Nickel	20.7	0.1	µg/L	07-Jul-25	TEL035	
Zinc	77.2	0.4	µg/L	07-Jul-25	TEL035	

ReportDate: Thursday, July 10, 2025

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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.:

250843

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **CAM-4 Cell Closest to Fence**

Taiga Sample ID: **002**

- DATA QUALIFIERS -

Data Qualifier Descriptions:

210 *Detection limit adjusted for required dilution.*

*** 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: Thursday, July 10, 2025

Print Date: *Thursday, July 10, 2025*

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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.:

251422

- FINAL REPORT -

Prepared For: Hamlet of Cambridge Bay

Address: P.O. Box 16
Cambridge Bay, NU
X0B 0C0

Attn: Jim MacEachern

Facsimile: (867) 983-2186

Final report has been reviewed and approved by:

Bradley Koswan
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.
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 - USEPA
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- Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.
- All data provided by the customer will be represented by the blue colour used in this statement.



Taiga Batch No.:
251422

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **CAM-5**

Taiga Sample ID: 001

Client Project:

Sample Type: **Sewage Effluent**

Received Date: 12-Sep-25

Sampling Date: **11-Sep-25**

Sampling Time: 9:45

Location: **Cambridge Bay Water System**

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.967	0.005	mg/L	18-Sep-25	TEL068	
Biochemical Oxygen Demand	23	2	mg/L	12-Sep-25	TEL019	
CBOD	22	2	mg/L	12-Sep-25	TEL019	
Organic Carbon, Total	51.6	0.5	mg/L	19-Sep-25	TEL033	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	222	0.4	mg/L	12-Sep-25	TEL060	
Conductivity, Specific (@25C)	1120	0.4	µS/cm	12-Sep-25	TEL059	
pH	7.69		pH units	12-Sep-25	TEL058	
Solids, Total Suspended	35	3	mg/L	16-Sep-25	TEL008	
<u>Major Ions</u>						
Chloride	200	7.7	mg/L	12-Sep-25	TEL055	210
Nitrate+Nitrite as Nitrogen	2.61	0.01	mg/L	12-Sep-25	TEL055	
Sulphate	34	1	mg/L	12-Sep-25	TEL055	
<u>Microbiology</u>						
Coliforms, Fecal	510	10	CFU/100mL	12-Sep-25	TEL017	210 3
<u>Organics</u>						



Taiga Batch No.:
251422

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **CAM-5**

Taiga Sample ID: **001**

Oil and Grease, visible	Non-visible			12-Sep-25	Visual Exam	
<u>Trace Metals, Total</u>						
Aluminum	55.5	6	µg/L	16-Sep-25	TEL035	210
Arsenic	< 2.0	2	µg/L	16-Sep-25	TEL035	210
Cadmium	< 0.40	0.4	µg/L	16-Sep-25	TEL035	210
Chromium	< 1.0	1	µg/L	16-Sep-25	TEL035	210
Cobalt	< 1.0	1	µg/L	16-Sep-25	TEL035	210
Copper	10.8	2	µg/L	16-Sep-25	TEL035	210
Iron	1500	50	µg/L	16-Sep-25	TEL035	210
Lead	< 1.0	1	µg/L	16-Sep-25	TEL035	210
Manganese	72.8	1	µg/L	16-Sep-25	TEL035	210
Nickel	2.2	1	µg/L	16-Sep-25	TEL035	210
Zinc	13.0	4	µg/L	16-Sep-25	TEL035	210



Taiga Batch No.:
251422

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **CAM-6**

Taiga Sample ID: **002**

Client Project:

Sample Type: **Sewage Effluent Outfall**

Received Date: **12-Sep-25**

Sampling Date: **11-Sep-25**

Sampling Time: **9:00**

Location: **Cambridge Bay Water System**

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.804	0.005	mg/L	18-Sep-25	TEL068	
Biochemical Oxygen Demand	22	2	mg/L	12-Sep-25	TEL019	
CBOD	18	2	mg/L	12-Sep-25	TEL019	
Organic Carbon, Total	44.6	0.5	mg/L	19-Sep-25	TEL033	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	227	0.4	mg/L	12-Sep-25	TEL060	
Conductivity, Specific (@25C)	1120	0.4	µS/cm	12-Sep-25	TEL059	
pH	7.62		pH units	12-Sep-25	TEL058	
Solids, Total Suspended	20	3	mg/L	16-Sep-25	TEL008	
<u>Major Ions</u>						
Chloride	200	7.7	mg/L	12-Sep-25	TEL055	210
Nitrate+Nitrite as Nitrogen	2.59	0.01	mg/L	12-Sep-25	TEL055	
Sulphate	35	1	mg/L	12-Sep-25	TEL055	
<u>Microbiology</u>						
Coliforms, Fecal	580	10	CFU/100mL	12-Sep-25	TEL017	210 3
<u>Organics</u>						
Oil and Grease, visible	Non-visible			12-Sep-25	Visual Exam	



Taiga Batch No.:
251422

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **CAM-6**

Taiga Sample ID: **002**

Trace Metals, Total

Aluminum	66.0	6	µg/L	16-Sep-25	TEL035	210
Arsenic	< 2.0	2	µg/L	16-Sep-25	TEL035	210
Cadmium	< 0.40	0.4	µg/L	16-Sep-25	TEL035	210
Chromium	< 1.0	1	µg/L	16-Sep-25	TEL035	210
Cobalt	< 1.0	1	µg/L	16-Sep-25	TEL035	210
Copper	10.2	2	µg/L	16-Sep-25	TEL035	210
Iron	1440	50	µg/L	16-Sep-25	TEL035	210
Lead	< 1.0	1	µg/L	16-Sep-25	TEL035	210
Manganese	58.9	1	µg/L	16-Sep-25	TEL035	210
Nickel	2.1	1	µg/L	16-Sep-25	TEL035	210
Zinc	9.7	4	µg/L	16-Sep-25	TEL035	210



Taiga Batch No.:
251422

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **CAM-6**

Taiga Sample ID: 002

- DATA QUALIFIERS -

Data Qualifier Descriptions:

- 210 *Detection limit adjusted for required dilution.*
- 3 *Holding time exceeded before receipt of sample*

*** 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



Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

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

Taiga Batch No.:

251505

- FINAL REPORT -

Prepared For: Hamlet of Cambridge Bay

Address: P.O. Box 16
Cambridge Bay, NU
X0B 0C0

Attn: Jim MacEachern

Facsimile: (867) 983-2186

Final report has been reviewed and approved by:

Bradley Koswan
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;
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 - 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.
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- All data provided by the customer will be represented by the blue colour used in this statement.



Taiga Batch No.:
251505

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **CAM-5**

Taiga Sample ID: 001

Client Project:

Sample Type: **Sewage Effluent**

Received Date: 25-Sep-25

Sampling Date: **24-Sep-25**

Sampling Time: 9:30

Location: **Cambridge Bay Sewage System**

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.339	0.055	mg/L	29-Sep-25	TEL068	210
Biochemical Oxygen Demand	24	2	mg/L	25-Sep-25	TEL019	
CBOD	22	2	mg/L	25-Sep-25	TEL019	
Organic Carbon, Total	38.4	0.5	mg/L	04-Oct-25	TEL033	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	224	0.4	mg/L	25-Sep-25	TEL060	
Conductivity, Specific (@25C)	1140	0.4	µS/cm	25-Sep-25	TEL059	
pH	7.48		pH units	25-Sep-25	TEL058	
Solids, Total Suspended	46	3	mg/L	01-Oct-25	TEL008	
<u>Major Ions</u>						
Chloride	216	0.7	mg/L	25-Sep-25	TEL055	
Nitrate+Nitrite as Nitrogen	2.64	0.01	mg/L	25-Sep-25	TEL055	
Sulphate	39	1	mg/L	25-Sep-25	TEL055	
<u>Microbiology</u>						
Coliforms, Fecal	1110	10	CFU/100mL	25-Sep-25	TEL017	210
<u>Organics</u>						

ReportDate: Monday, October 6, 2025

Print Date: *Monday, October 6, 2025*



Taiga Batch No.:
251505

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **CAM-5**

Taiga Sample ID: **001**

Oil and Grease, visible	Non-visible			25-Sep-25	Visual Exam	
<u>Trace Metals, Total</u>						
Aluminum	48.2	6	µg/L	01-Oct-25	TEL035	210
Arsenic	< 2.0	2	µg/L	01-Oct-25	TEL035	210
Cadmium	< 0.40	0.4	µg/L	01-Oct-25	TEL035	210
Chromium	< 1.0	1	µg/L	01-Oct-25	TEL035	210
Cobalt	< 1.0	1	µg/L	01-Oct-25	TEL035	210
Copper	9.9	2	µg/L	01-Oct-25	TEL035	210
Iron	1750	50	µg/L	01-Oct-25	TEL035	210
Lead	< 1.0	1	µg/L	01-Oct-25	TEL035	210
Manganese	73.9	1	µg/L	01-Oct-25	TEL035	210
Nickel	2.0	1	µg/L	01-Oct-25	TEL035	210
Zinc	9.7	4	µg/L	01-Oct-25	TEL035	210



Taiga Batch No.:
251505

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **CAM-6**

Taiga Sample ID: **002**

Client Project:

Sample Type: **Sewage Effluent Outfall**

Received Date: **25-Sep-25**

Sampling Date: **24-Sep-25**

Sampling Time: **9:45**

Location: **Cambridge Bay Sewage System**

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.076	0.055	mg/L	29-Sep-25	TEL068	210
Biochemical Oxygen Demand	24	2	mg/L	25-Sep-25	TEL019	
CBOD	23	2	mg/L	25-Sep-25	TEL019	
Organic Carbon, Total	55.6	0.5	mg/L	04-Oct-25	TEL033	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	225	0.4	mg/L	25-Sep-25	TEL060	
Conductivity, Specific (@25C)	1150	0.4	µS/cm	25-Sep-25	TEL059	
pH	7.64		pH units	25-Sep-25	TEL058	
Solids, Total Suspended	37	3	mg/L	01-Oct-25	TEL008	
<u>Major Ions</u>						
Chloride	214	0.7	mg/L	25-Sep-25	TEL055	
Nitrate+Nitrite as Nitrogen	2.39	0.01	mg/L	25-Sep-25	TEL055	
Sulphate	38	1	mg/L	25-Sep-25	TEL055	
<u>Microbiology</u>						
Coliforms, Fecal	560	10	CFU/100mL	25-Sep-25	TEL017	210
<u>Organics</u>						
Oil and Grease, visible	Non-visible			25-Sep-25	Visual Exam	

ReportDate: Monday, October 6, 2025

Print Date: Monday, October 6, 2025



Taiga Batch No.:
251505

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **CAM-6**

Taiga Sample ID: **002**

Trace Metals, Total

Aluminum	59.0	6	µg/L	01-Oct-25	TEL035	210
Arsenic	< 2.0	2	µg/L	01-Oct-25	TEL035	210
Cadmium	< 0.40	0.4	µg/L	01-Oct-25	TEL035	210
Chromium	< 1.0	1	µg/L	01-Oct-25	TEL035	210
Cobalt	< 1.0	1	µg/L	01-Oct-25	TEL035	210
Copper	9.6	2	µg/L	01-Oct-25	TEL035	210
Iron	1690	50	µg/L	01-Oct-25	TEL035	210
Lead	< 1.0	1	µg/L	01-Oct-25	TEL035	210
Manganese	65.1	1	µg/L	01-Oct-25	TEL035	210
Nickel	2.6	1	µg/L	01-Oct-25	TEL035	210
Zinc	9.9	4	µg/L	01-Oct-25	TEL035	210



Taiga Batch No.:
251505

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **CAM-6**

Taiga Sample ID: 002

- DATA QUALIFIERS -

Data Qualifier Descriptions:

210 *Detection limit adjusted for required dilution.*

*** 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

**2025 ANNUAL REPORT
FOR THE MUNICIPALITY OF CAMBRIDGE BAY**

Appendix C: Cambridge Bay 2025 Sampling Summary

Parameter	Unit	CAM-3	CAM-4
		June 26, 2025	June 26, 2025
CBOD	mg/L	33	34
TSS	mg/L	28	44
Fecal Coliforms	CFU/100ml	172	3
pH	pH	7.79	7.32
Conductivity	µS/cm	997	1770
Nitrate-Nitrite	mg/L	0.36	0.22
Oil and Grease	Visible	Non-Visible	Non-visible
Magnesium	mg/L	29.6	52.4
Calcium	mg/L	35.4	189
Sodium	mg/L	89.0	111
Potassium	mg/L	17.7	46.9
Chloride	mg/L	144	144
Sulphate	mg/L	24	529
Total Hardness	mg/L	-	-
Total Alkalinity	mg/L	236	203
Ammonia Nitrogen	mg/L	18.4	0.165
Total Cadmium	µg/L	<0.04	0.20
Total Cobalt	µg/L	0.4	4.9
Total Chromium	µg/L	0.2	1.9
Total Copper	µg/L	20.9	47.8
Total Aluminum	µg/L	9.2	58.2
Total Mercury	µg/L	-	-
Total Zinc	µg/L	11.1	77.2
Total Iron	µg/L	476	6320
Total Manganese	µg/L	96.1	69.4
Total Nickel	µg/L	1.6	20.7
Total Lead	µg/L	0.2	3.3
Total Arsenic	µg/L	0.9	3.0
Total Organic Carbon	mg/L	39.7	63.3

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Parameter	Unit	CAM-5		CAM-6	
		Sept 11	Sept 24	Sept 11	Sept 24
CBOD	mg/L	22	22	18	23
TSS	mg/L	35	46	20	37
Fecal Coliforms	CFU/100ml	510	1110	580	560
pH	pH	7.69	7.48	7.62	7.64
Conductivity	µS/cm	1120	1140	1120	1150
Nitrate-Nitrite	mg/L	2.61	2.64	2.59	2.39
Oil and Grease	Visible	Non-Visible	Non-Visible	Non-Visible	Non-Visible
Magnesium	mg/L	-	-	-	-
Calcium	mg/L	-	-	-	-
Sodium	mg/L	-	-	-	-
Potassium	mg/L	-	-	-	-
Chloride	mg/L	200	216	200	214
Sulphate	mg/L	34	39	35	38
Total Hardness	mg/L	-	-	-	-
Total Alkalinity	mg/L	-	224	227	225
Ammonia Nitrogen	mg/L	0.967	0.339	0.804	0.076
Total Cadmium	µg/L	< 0.40	< 0.40	< 0.40	<0.40
Total Cobalt	µg/L	< 1.0	< 1.0	< 1.0	<1.0
Total Chromium	µg/L	< 1.0	< 1.0	< 1.0	<1.0
Total Copper	µg/L	< 1.0	9.9	10.2	9.6
Total Aluminum	µg/L	55.5	48.2	66.0	59.0
Total Mercury	µg/L	-	-	-	-
Total Zinc	µg/L	13.0	9.7	9.7	9.9
Total Iron	µg/L	1500	1750	1440	1690
Total Manganese	µg/L	72.8	73.9	58.9	65.1
Total Nickel	µg/L	2.2	2.0	2.1	2.6
Total Lead	µg/L	< 1.0	< 1.0	< 1.0	<1.0
Total Arsenic	µg/L	< 2.0	< 2.0	< 2.0	<2.0
Total Organic Carbon	mg/L	51.6	38.4	44.6	55.6