



MUNICIPAL WATER USE INSPECTION REPORT

Telephone: 867-767-9187 ext. 24193

Fax: 867-873-6230

August 15, 2023

Community Government of Wekweeti

Box 69

Community of Wekweeti, NT X0E 1W0

Attention: Senior Administrative Officer – Fred Behrens

File Number **W2017L3-0001**
Type of Operation **CLASS B - MUNICIPAL**
Location **Wekweètì, NT**

Dear Mr. Fred Behrens,

An inspection of the above noted operation was conducted on May 30, 2023 by Water Resource Officers Meaghan MacIntyre-Newell and Meg McCluskie.

No major concerns were identified during the inspection. Several minor concerns were identified during the inspection and include the following:

- Relocation of Surveillance Network Program (SNP) signage to be adjacent to SNP sample collection point;
- Increased sorting at the Solid Waste Facility; and
- Removal of bulky and hazardous materials from the Solid Waste Facility.

Enclosed is a copy of the Water Licence Inspection Report. If you have any questions or concerns, please contact me at 867-767-9187 ext. 24193.

Sincerely,

Meaghan MacIntyre-Newell
Water Resource Officer
Environment and Climate Change
North Slave Region

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Cc: Scott Stewart - North Slave Regional Superintendent - ECC
Wendy Bidwell – Senior Water Resource Officer – ECC
Roberta Judas – Regulatory Technician – WLWB
Rick Walbourne – Water Resources Manager – ECC

Attached: Attachment 1: Surveillance Network Program Sample – Certificate of Analysis

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LICENCE #:	W2017L3-0001	EXPIRY DATE:	September 22, 2027
LICENCEE:	Community Government of Wekweeti	PREVIOUS INSPECTION:	July 20, 2022
COMPANY REP:	Paul Football	INSPECTION DATE:	May 30, 2023

WATER SUPPLY

Source:	Snare Lake	Quantity Used:	Unknown*
Owner/Operator:	Community Government of Wekweeti	Meter Reading:	13980.48 m ³

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

Intake Facilities	A	Storage Structures	A	Treatment Systems	A	Recycling	N/A
Flow Meas. Device	A	Conveyance Lines	N/I	Pumping Stations	A	Chem. Storage	A
						Modifications	N/A

Water Supply Comments:

The water intake facilities were inspected and found to be in good condition. All meters were operational and log books were up-to-date.

*It is noted that the meter reading represents the total water used at the facility and not the annual water usage. These readings can be used in the future to estimate annual usage.

WASTE DISPOSAL – SEWAGE

Disposal Method		Natural Wetland					
Mechanical	No	Camp Sump	No	Natural Water Body	No	Wetland Treatment	Yes
Continuous Discharge	No	Intermittent Discharge	No	Seasonal Discharge	No	Land Spread	No
Accelerated Biological	No	Other					

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**



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Discharge Quality	A	Decant Process & Structures	A	Discharge Measurement Device	N/A
Freeboard	A	Sludge Disposal Method	N/I		
Periods Of Discharge	Continuous			SNP Samples Collected	Yes
Effluent Discharge Rates	Truckload				

Sewage Comments:

The sewage disposal facility discharge location was clearly labelled. A sample was collected at SNP Station 001-2 at the outflow of the sewage lagoon by the CGB during the inspection. Water quality met the Effluent Quality Criteria (EQC) outlined in Part D, Condition 4 of the Licence. The Inspector observed some garbage in the sewage lagoon and some plastics are present in the area where honey bags are disposed of (Photo 1). It would be beneficial to remove this however, public health should be contacted to ensure proper precautions are taken for the health and safety of personnel. In general, the sewage lagoon and honey bucket area are well maintained.

WASTE DISPOSAL – SOLID WASTE

Disposal Method		Landfill					
Open Dump	No	Landfill	Yes	Burn & Landfill	Yes	Underground	No
Offsite Removal	No	Other					
Owner / Operator	Community Government of Wekweètì						

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

Runoff Diversion	N/A	SNP Samples Collected	No
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Solid Waste Comments:

When the landfill was inspected, there were some minor concerns identified. The Inspectors noted that the fencing requires repair or replacement to prevent wildlife encounters, wildlife scavenging, and to contain windblown waste (Photo 2). Additionally, waste segregation efforts must be improved. Garbage must be separated appropriately so hazardous materials can be removed from the landfill and not buried with residential waste. Several one-hundred pound propane tanks appeared to have been disposed of outside of the fencing of the Solid Waste Facility (Photo 3). These tanks should be moved within the Solid Waste Facility and disposed of appropriately.



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SURVEILLANCE NETWORK PROGRAM

Samples Collected Licencee	Yes (001-2, 001-3, and 001-4)
Samples Collected ENR	Yes (001-3)

Signs Posted: SNP	Needs Updating	Warning	Yes
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Surveillance Network Program Comments:

The Inspectors collected a sample at 001-3, where the wetland flows into Snare Lake. The CGW sampled 001-2, 001-3, and 001-4. Results from samples collected by the CGW and the Inspectors met Effluent Quality Criteria outlined in the Licence. SNP Stations had signage along the access road. Although these signs are helpful to ensure the SNP Stations are accessible, additional signage should be located adjacent to the location that is sampled.

GENERAL CONDITIONS/REPORTS/PLANS

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

C &R Plan	N/A	Records & Reporting	A	Final Report	N/A
Geotechnical Inspection	N/A	Posting, Signage	U	Contingency Plan	A
Restorations Activities	A	Spills	N/A	O&M Plan	A
Maintenance	U	Modifications	NA	Annual Report	U

General Condition Comments:

The 2022 Annual Report was submitted to the WLWB but did not meet the requirements outlined in the Licence. An updated Annual Report should be submitted as soon as possible.

NON-COMPLIANCE/VIOLATIONS OF ACT OR LICENCE

- Part B Condition 2:** Prior to March 31 of the year following the calendar year reported, the Licensee shall file an Annual Report with the Board. The Annual Report shall contain the information set out in Schedule 1

Explanatory Remarks: The 2022 Annual Report was submitted to the WLWB but did not meet the requirements outlined in Schedule 1. An updated Annual Report should be submitted as soon as possible.

- Part D Condition 6:** All bagged toilet Wastes (honey bags) shall be disposed of in a manner satisfactory to an Inspector at the Bagged Toilet Waste Disposal Facility

Explanatory Remarks: The Bagged Toilet Waste Disposal Facility is generally well maintained; however, the Inspector noted some hard plastic material in the area which should be removed and discouraged from happening in the future. Additional signage may be helpful in discouraging individuals from disposing of hard plastics in the Bagged Toilet Waste Disposal Facility.



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INSPECTION IMAGES

Figure 1

Honey bag disposal facility





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Figure 2

Solid waste facility fencing in need of repair





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Figure 3

Propane tanks disposed of outside of solid waste facility





ATTACHMENT I
SURVEILLANCE NETWORK PROGRAM SAMPLES – CERTIFICATE OF ANALYSIS

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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.:
230731

- FINAL REPORT -

Prepared For: ECC - North Slave Region (Operations)

Address: Box 2668
Yellowknife, NT
X1A 1Y4

Attn: Meaghan MacIntyre-Newell

Facsimile:

Final report has been reviewed and approved by:

A handwritten signature in black ink, appearing to read 'Glen Hudy'.

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.
- Results are based on the specific tests at the time of analysis, does not represent the conditions during sampling and relates only to the items tested.

ReportDate: June 16, 2023

Print Date: *June 16, 2023*

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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.:
230731

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **SNP 001-3**

Taiga Sample ID: **001**

Client Project: W2017L3-0001

Sample Type: Sewage Outflow

Received Date: 31-May-23

Sampling Date: 30-May-23

Sampling Time: 13:40

Location: Wekweeti SNP 001-3

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.007	0.005	mg/L	02-Jun-23	TEL068	
Biochemical Oxygen Demand	2	2	mg/L	01-Jun-23	TEL019	
Phosphorous, Total	0.007	0.002	mg/L	08-Jun-23	TEL069	
<u>Inorganics - Physicals</u>						
pH	6.80		pH units	31-May-23	TEL058	
Solids, Total Suspended	< 3	3	mg/L	01-Jun-23	TEL008	
<u>Microbiology</u>						
Coliforms, Fecal	7	1	CFU/100mL	31-May-23	TEL017	
<u>Organics</u>						
Hexane Extractable Material	< 2.0	2	mg/L	02-Jun-23	TEL072	
<u>Trace Metals, Total</u>						
Mercury	< 0.01	0.01	µg/L	16-Jun-23	TEL035	

ReportDate: June 16, 2023

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Taiga Batch No.:
230731

- CERTIFICATE OF ANALYSIS -

Client Sample ID: SNP 001-3

Taiga Sample ID: 001

*** 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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