YEAR BEING REPORTED:	2023

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water License # 3BM-PON2025 issued to the Municipality of Pond Inlet, Nunavut.

i) - iii) tabular summaries of all data generated under the "Monitoring Program"; monthly and annual quantities in cubic metres of freshwater obtained from all sources; monthly and annual quantities in cubic metres of each and all wastes discharged.

Attached are quantities of water used as reported in our On Tap Water Delivery System and the estimated discharge of sewage waste based on quantities used.

Month Reported	Quantity of Water Obtained from all sources (m^3)	Quantity of Sewage Waste Discharged (Estimated)
January	4,401.116	Same
February	4,210.870	Same
March	4,674.972	Same
April	4,300.212	Same
May	4,658.995	Same
June	4,367.556	Same
July	4,357.308	Same
August	4,512.341	Same
September	4,430.654	Same
October	4,612.278	Same
November	4,406.135	Same
December	4,539.536	Same
Annual Total	53,471.974	Same

Note: The average consumption volume is considered equal to the discharge volume in each month because there is no meter at the end of the discharge pipe.

iv. A summary of modifications and/or major maintenance work carried out on the Water Supply and Waste Disposal Facilities, including all associated structures and facilities.

Solid Waste Disposal Area and Sewage Lagoon had waste oil, batteries, and propane tanks removed and conducted during this reporting period.

The floating water intake at the Truck fill station has been upgraded from a single pump system to a dual pumping system, along with a new heat trace system to maintain the intake infrastructure until a new permanent intake can be constructed.

- v. A list of unauthorized discharges and a summary of follow-up action taken. None.
- vi. A summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year.

No abandonment or restoration activities took place during this reporting year.

vii. A summary of any studies requested by the Board that relate to waste disposal, water use, or reclamation, and a brief description of any future studies planned;

The Planning Study for the new WTP is now completed. The area is being investigated for any archaeological concerns. Completion of the new Water Treatment Plant which will include new water intake infrastructure is scheduled to be completed in 2026. Amendment/renewal application will be submitted in 2024.

viii. Any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and

Suspected sewage lagoon leakage has been identified and confirmed. Presently the berm is acting as an exfiltration structure. As per the completed Dam Safety Report sewage lagoon berm(s) are not considered structurally compromised. Municipality and CGS will continue to follow the recommendations outlined in the Dam Safety Report.

ix. Updates or revisions to the approved Operation and Maintenance Plans.

There are no updates or revisions on approved Operation and Maintenance Plans until the new water station is operational in 2026.

x. ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

Hamlet's Public Works Department is working hard to follow GN 's technical staff's and CIRNAC inspector's advice to operate the water-licensed facilities. CGS will support the Public Works Department with sampling water, wastewater and leachate and have them tested in Caducean Lab in Ottawa.

The Municipality of Pond Inlet also participated in a pilot project by the GN Department of Environment to remove hazardous waste from the community. This was done to demonstrate if the project was feasible despite logistical challenges, and to show the financial implications of hazardous waste removal. The following work was completed:

- Over 870 drums were emptied;
- 18 totes were shipped south for disposal;
- 80 drums were packaged;
- 74 toes were winterized and are half full;
- 2 Quatrex bags are full and ready to be shipped.

The project report provided by the GN Department of Environment is found in Appendix E.

xi. FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

Hamlet has currently an active water license. They are working closely with CGS technical staff to keep the water-licensed facilities in Compliance.

Appendix A: PON-4 Effluent Quality Limits

Appendix B: Certificate of Analysis – July 7, 2023

Appendix C: Hazardous Materials Spill 2023

Appendix D: 2023 CIRNAC Inspection Report

Appendix E: Hazardous Material Report provided by GN Department of Environment

Appendix A

PON-4 Effluent Quality limits

Parameter	Maximum Concentration of any Grab Sample	DATE: July 7, 2023
BOD ₅	120 mg/L	3 mg/L
Total Suspended Solids	180 mg/L	3 mg/L
Fecal Coliform	1x10 ⁶ CFU/100 mL	<10 cfu/100mL
Oil and Grease	No visible sheen	<1 mg/L
рН	Between 6 and 9	6.65 pH Units

Appendix B

CERTIFICATE OF ANALYSIS



Final Report

C.O.C.: G 096052 REPORT No: 23-016711 - Rev. 0

Report To:

Hamlet of Pond Inlet

SAMPLE MATRIX:

P.O Box 379

Pond Inlet, NVT X0A 0S0

CADUCEON Environmental Laboratories

2378 Holly Lane

Ottawa, ON K1V 7P1

Attention: David Stockley

DATE RECEIVED: 2023-Jul-10 DATE REPORTED: 2023-Jul-24

2023-Jul-24 Waste Water **CUSTOMER PROJECT:**

P.O. NUMBER:

180

Of tivil EE 100 (11 (1) (.						
Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	2	OTTAWA	VKASYAN	2023-Jul-12	A-IC-01	SM 4110B
BOD5 (Liquid)	2	KINGSTON	MDUBIEN	2023-Jul-13	BOD-001	SM 5210B
Cond/pH/Alk Auto (Liquid)	2	OTTAWA	SBOUDREAU	2023-Jul-10	COND-02/PH-02/A	SM 2510B/4500H/
					LK-02	2320B
Fecal Coliforms (Liquid)	2	OTTAWA	SLOZO	2023-Jul-10	FC-001	SM 9222D
ICP/MS Total (Liquid)	2	OTTAWA	TPRICE	2023-Jul-13	D-ICPMS-01	EPA 6020
ICP/OES Total (Liquid)	2	OTTAWA	NHOGAN	2023-Jul-12	D-ICP-01	SM 3120B
Mercury (Liquid)	2	OTTAWA	TBENNETT	2023-Jul-18	D-HG-02	SM 3112B
Ammonia & o-Phosphate (Liquid)	2	KINGSTON	AMANIYA	2023-Jul-17	NH3-001	SM 4500NH3
Oil & Grease (Liquid)	2	KINGSTON	TMCBRYDE	2023-Jul-24	O&G-001	SM 5520
Phenols (Liquid)	2	KINGSTON	KWELCH	2023-Jul-17	PHEN-01	MECP E3179
Total Organic Carbon (TOC)	2	OTTAWA	VKASYAN	2023-Jul-10	C-OC-01	EPA 415.2
TSS (Liquid)	2	KINGSTON	JMACINNES	2023-Jul-17	TSS-001	SM 2540D

R.L. = Reporting Limit

AVA

NC = Not Calculated

Test methods may be modified from specified reference method unless indicated by an *

REPORT No: 23-016711 - Rev. 0

		ent I.D.	PON-4 (Sampled)	PON-5 (Frozen - Sampled from Lagoon @ Discharge Point)
	Sam _l Date Co	ple I.D. Hected	23-016711-1 2023-07-07	23-016711-2 2023-07-07
Parameter	Units	R.L.	-	-
Fecal Coliform	CFU/100mL	1	<10	300000
Alkalinity(CaCO3) to pH4.5	mg/L	5	22	398
pH @25°C	pH units	-	6.65	7.79
Conductivity @25°C	uS/cm	1	83	1140
Chloride	mg/L	0.5	9.0	65.9
Nitrate (N)	mg/L	0.05	1.35	0.11
Nitrite (N)	mg/L	0.05	0.07	<0.05
Sulphate	mg/L	1	2	6
BOD5	mg/L	3	3	36
Total Suspended Solids	mg/L	3	3	35
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	1.56	96.8
Total Organic Carbon	mg/L	0.2	7.4	108
Phenolics	mg/L	0.001	<0.001	0.643
Hardness (as CaCO3)	mg/L	-	20	60
Aluminum (Total)	mg/L	0.01	0.09	0.12
Cadmium (Total)	mg/L	0.005	<0.005	<0.005
Calcium (Total)	mg/L	0.02	3.17	11.3
Chromium (Total)	mg/L	0.002	<0.002	<0.002
Cobalt (Total)	mg/L	0.005	<0.005	<0.005
Copper (Total)	mg/L	0.002	0.005	0.127
Iron (Total)	mg/L	0.005	0.181	0.676

Steve Garrett
Director of Laboratory Services

REPORT No: 23-016711 - Rev. 0

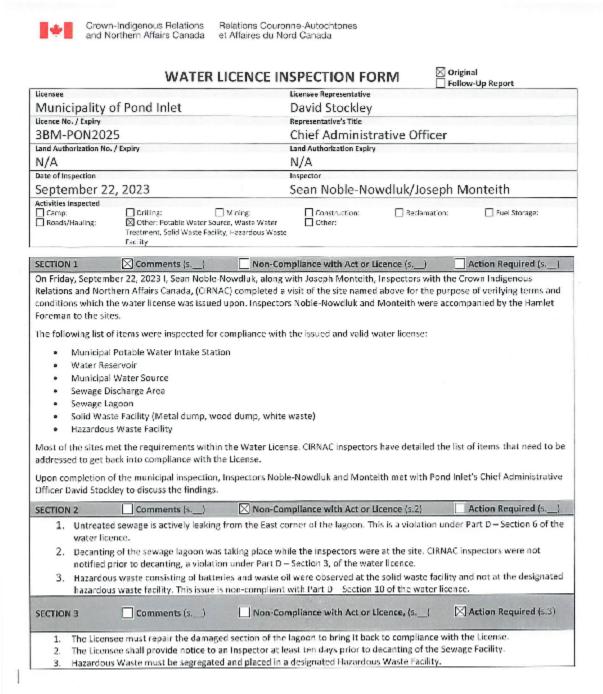
	Clie	ent I.D.	PON-4 (Sampled)	PON-5 (Frozen - Sampled from Lagoon @ Discharge Point)
	Sam	ple I.D.	23-016711-1	23-016711-2
	Date Co		2023-07-07	2023-07-07
Parameter	Units	R.L.		-
Lead (Total)	mg/L	0.02	<0.02	<0.02
Magnesium (Total)	mg/L	0.02	2.00	7.28
Manganese (Total)	mg/L	0.001	0.069	0.091
Nickel (Total)	mg/L	0.01	<0.01	<0.01
Potassium (Total)	mg/L	0.1	2.1	30.9
Sodium (Total)	mg/L	0.2	6.4	63.9
Zinc (Total)	mg/L	0.005	0.005	0.064
Arsenic (Total)	mg/L	0.0005	<0.0005	0.0008
Mercury	mg/L	0.00002	0.00008	0.00006
	Clie	ent I.D.	PON-4 (Sampled)	PON-5 (Frozen - Sampled from Lagoon @ Discharge Point)
	Sam	ple I.D.	23-016711-1	23-016711-2
	Date Co	llected	2023-07-07	2023-07-07
Parameter	 Units	R.L.	-	-
Oil & Grease (Total)	mg/L	1.0	<1.0	14.0

Steve Garrett
Director of Laboratory Services

Appendix C

No reported spills or unauthorized discharges during reporting period.

Appendix D





Appendix D

Crown-Indigenous Relations Relations Couronne-Autochtones and Northern Affairs Canada et Affaires du Nord Canada

Licensee or Representative	Inspector's Name
David Stockley	Sean Noble-Nowdluk/Joseph Monteith
Signature Square	Sean Noble-Nowdluk
Date Dict 24/2023	Date October 24, 2023



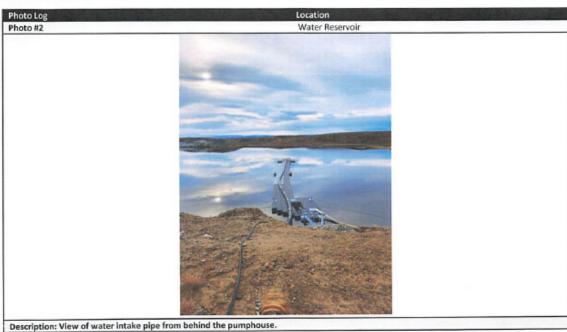
Appendix D



Crown-Indigenous Relations and Northern Affairs Canada

Relations Couronne-Autochtones et Affaires du Nord Canada







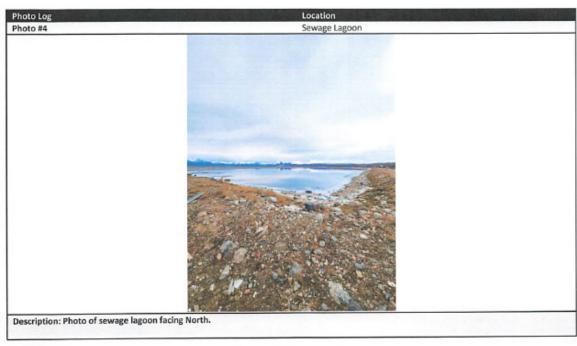
Appendix D



Crown-Indigenous Relations and Northern Affairs Canada

Relations Couronne-Autochtones et Affaires du Nord Canada







Appendix D



Crown-Indigenous Relations and Northern Affairs Canada Relations Couronne-Autochtones et Affaires du Nord Canada

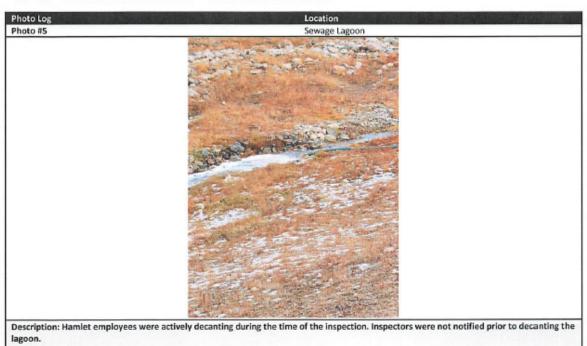


Photo #6

Sewage Lagoon

Description: Photo of Lagoon from Northeast corner. The leak in the lagoon seems to be coming from this general area.

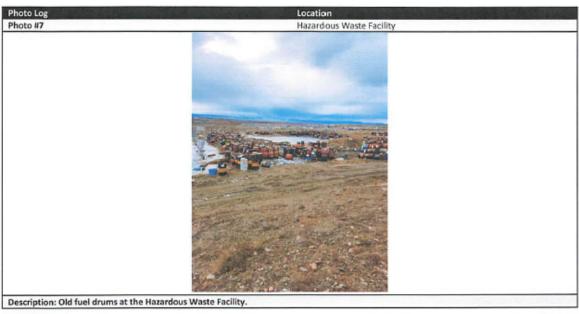


Appendix D



Crown-Indigenous Relations and Northern Affairs Canada

Relations Couronne-Autochtones et Affaires du Nord Canada



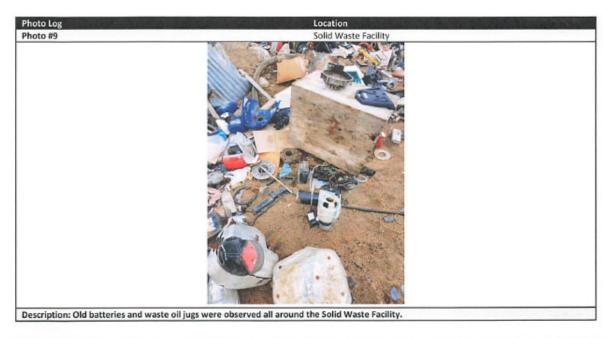


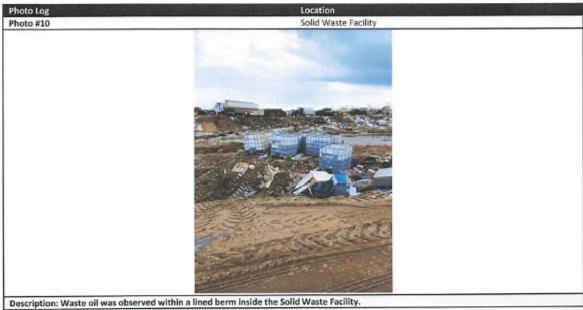


Appendix D



Crown-Indigenous Relations and Northern Affairs Canada Relations Couronne-Autochtones et Affaires du Nord Canada







Appendix E



Property located at:
Pond Inlet, Nunavut





Photo 1
Aerial view of the Site.



Property located at:
Pond Inlet, Nunavut



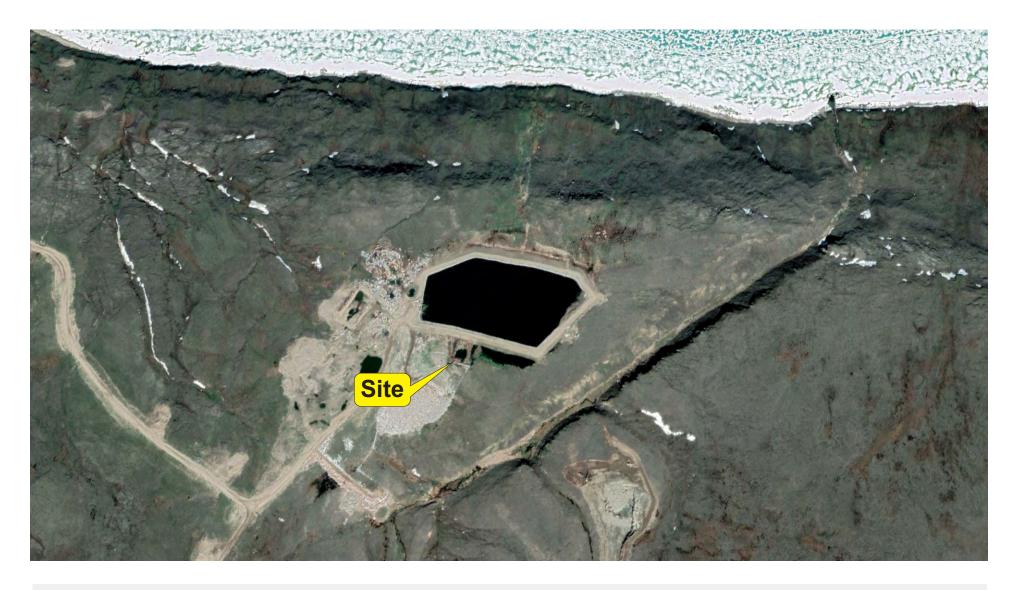


Photo 2
Closeup aerial view of the Site.



Property located at:
Pond Inlet, Nunavut





Photo 3

A view of all the drums identified and segregated before the liquid transfer.



Photo 4

A view of all the drums identified and segregated before the liquid transfer.



Property located at:
Pond Inlet, Nunavut





Photo 5

A view of the diaphragm pump, transferring mixed liquid waste into a tote tank.



Photo 6

A view of local workers transferring mixed liquid waste into a tote tank.



Property located at:
Pond Inlet, Nunavut







Photo 7

A view of the empty drums after day 3.



Photo 8

View of the packaged liquid after day 3.



Property located at:
Pond Inlet, Nunavut





Photo 9

A view of the wooden skids and tote tanks arriving in Pond Inlet on August 15.



Photo 10

A overview of the site during the fieldwork.



Property located at:
Pond Inlet, Nunavut





Photo 11

A view of the 18 packaged tote tanks at the beach barging area.



Photo 12

A view of the winterized containers at the end of the fieldwork.



Property located at:
Pond Inlet, Nunavut





Photo 13

A view of the winterized containers at the end of the fieldwork.