

ANNUAL REPORT FOR THE MUNICIPALITY OF CLYDE RIVER

YEAR BEING REPORTED: 2023

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence 3BM-CLY1924 issued to the Municipality of Clyde River.

- 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 results for Monitoring station CLY-1 and CLY-4, as well as detailed chemical, physical and biological analysis required at CLY-5, CLY-6a and CLY-6b.

Month Reported	Quantity of Water Obtained from all sources	Quantity of Sewage Waste Discharged
January	3,286.86	3,286.86
February	2,958.22	2,958.22
March	3,062.98	3,062.98
April	3,495.03	3,495.03
May	3,099.68	3,099.68
June	2,857.00	2,857.00
July	3,367.82	3,367.82
August	4,181.85	4,181.85
September	3,163.91	3,163.91
October	3,178.31	3,178.31
November	2,891.14	2,891.14
December	2,842.50	2,842.50
ANNUAL TOTAL	38,385.30	38,385.30

Please indicate volumes in cubic metres - 1 cubic meter equals 1000 litres

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- 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;

Nothing for the year January to December 2023.

- v. a list of unauthorized discharges and summary of follow-up action taken;

Nothing for the year January to December 2023.

- vi. a summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;

Nothing for the year January to December 2023.

- 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 initial planning study for a new solid waste facility was completed in 2020/21. The cost estimates have indicated that the current funding cannot support the construction of a new state-of-the-art 20-year landfill. The focus of the project will shift to making improvements to the current site. A second planning contract to assess and prioritize the improvements to the current site is expected to be complete 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

Nothing for the year January to December 2023.

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- ix. updates or revisions to the approved Operation and Maintenance Plans.
Nothing for the year January to December 2023.
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ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

Certificate of Analysis for samples taken at CLY-5, CLY-6a and CLY-6b on August 3, 2023 is attached.

Effluent from CLY-5 did not exceed the effluent quality standards as per Part D, Item 2:

Parameter	Maximum Concentration of any Grab Sample	August 3, 2023
BOD ₅	120 mg/L	96 mg/L
Total Suspended Solids	180 mg/L	24 mg/L
Fecal Coliform	1x10 ⁶ CFU/dl	18100 CFU/100mL
Oil and Grease	No visible sheen	12.7 mg/L
pH	Between 6 and 9	7.52

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

None. No CIRNAC Inspection took place in 2023.

C.O.C.: G 107410

REPORT No: 23-020108 - Rev. 0

Report To:

Municipality of Clyde River
Box 89
Clyde River, NU X0A 0E0

CADUCEON Environmental Laboratories

2378 Holly Lane
Ottawa, ON K1V 7P1

Attention: Jerry Natanine

DATE RECEIVED: 2023-Aug-08
DATE REPORTED: 2023-Aug-16
SAMPLE MATRIX: Waste Water

CUSTOMER PROJECT:
P.O. NUMBER:

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	3	OTTAWA	VKASYAN	2023-Aug-09	A-IC-01	SM 4110B
BOD5 (Liquid)	3	KINGSTON	MDUBIEN	2023-Aug-10	BOD-001	SM 5210B
Cond/pH/Alk Auto (Liquid)	3	OTTAWA	MDON	2023-Aug-09	COND-02/PH-02/A LK-02	SM 2510B/4500H/ 2320B
Fecal Coliforms (Liquid)	3	OTTAWA	HALIPDA	2023-Aug-08	FC-001	SM 9222D
ICP/MS Total (Liquid)	3	OTTAWA	TPRICE	2023-Aug-09	D-ICPMS-01	EPA 6020
ICP/OES Total (Liquid)	3	OTTAWA	NHOGAN	2023-Aug-09	D-ICP-01	SM 3120B
Mercury (Liquid)	3	OTTAWA	TBENNETT	2023-Aug-10	D-HG-02	SM 3112B
Ammonia & o-Phosphate (Liquid)	3	KINGSTON	AMANIYA	2023-Aug-14	NH3-001	SM 4500NH3
Oil & Grease (Liquid)	3	KINGSTON	TMCBRYDE	2023-Aug-09	O&G-001	SM 5520
Phenols (Liquid)	3	KINGSTON	KWELCH	2023-Aug-10	PHEN-01	MECP E3179
Total Organic Carbon (TOC)	3	OTTAWA	VKASYAN	2023-Aug-09	C-OC-01	EPA 415.2
TSS (Liquid)	3	KINGSTON	AMANIYA	2023-Aug-11	TSS-001	SM 2540D

R.L. = Reporting Limit

NC = Not Calculated

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



Steve Garrett
Director of Laboratory Services

CADUCEON Environmental Laboratories Certificate of Analysis

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Client I.D.			CLY-5	CLY-6a	CLY-6b
Sample I.D.			23-020108-1	23-020108-2	23-020108-3
Date Collected			2023-08-03	2023-08-03	2023-08-03
Parameter	Units	R.L.	-	-	-
Fecal Coliform	CFU/100mL	1	18100	2	<2
Alkalinity(CaCO3) to pH4.5	mg/L	5	294	81	13
pH @25°C	pH units	-	7.52	7.42	6.09
Conductivity @25°C	uS/cm	1	850	327	4810
Chloride	mg/L	0.5	52.9	27.7	1540
Nitrate (N)	mg/L	0.05	0.16	5.05	<0.40
Nitrite (N)	mg/L	0.05	<0.05	<0.05	<0.40
Sulphate	mg/L	1	<1	2	196
BOD5	mg/L	3	96	<3	<3
Total Suspended Solids	mg/L	3	24	<3	12
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	76.2	18.3	0.06
Total Organic Carbon	mg/L	0.2	44.0	16.6	<0.2
Phenolics	mg/L	0.001	0.636	<0.001	<0.001
Hardness (as CaCO3)	mg/L	-	30	20	400
Aluminum (Total)	mg/L	0.01	0.10	0.06	0.03
Cadmium (Total)	mg/L	0.005	<0.005	<0.005	<0.005
Calcium (Total)	mg/L	0.02	5.06	3.16	27.1
Chromium (Total)	mg/L	0.002	<0.002	<0.002	<0.002
Cobalt (Total)	mg/L	0.005	<0.005	<0.005	<0.005
Copper (Total)	mg/L	0.002	0.074	0.030	<0.002
Iron (Total)	mg/L	0.005	1.08	0.457	0.032



Steve Garrett
Director of Laboratory Services

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

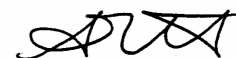
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			Client I.D.	CLY-5	CLY-6a	CLY-6b
			Sample I.D.	23-020108-1	23-020108-2	23-020108-3
			Date Collected	2023-08-03	2023-08-03	2023-08-03
Parameter	Units	R.L.		-	-	-
Lead (Total)	mg/L	0.02		<0.02	<0.02	<0.02
Magnesium (Total)	mg/L	0.02		3.88	2.19	80.3
Manganese (Total)	mg/L	0.001		0.096	0.076	0.002
Nickel (Total)	mg/L	0.01		<0.01	<0.01	<0.01
Potassium (Total)	mg/L	0.1		19.2	8.9	30.3
Sodium (Total)	mg/L	0.2		44.0	25.5	706
Zinc (Total)	mg/L	0.005		0.042	0.012	<0.005
Arsenic (Total)	mg/L	0.0005		0.0008	<0.0005	<0.0005
Mercury	mg/L	0.00002		<0.00002	<0.00002	<0.00002

			Client I.D.	CLY-5	CLY-6a	CLY-6b
			Sample I.D.	23-020108-1	23-020108-2	23-020108-3
			Date Collected	2023-08-03	2023-08-03	2023-08-03
Parameter	Units	R.L.		-	-	-
Oil & Grease (Total)	mg/L	1.0		12.7	6.5	1.5

Bacteria passed holding time.



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