CADUCEON™ ENVIRONMENTAL LABORATORIES
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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: ---

REPORT No. B22-22458

Report To:

Municipality of Clyde River
Box 89,
Clyde River Nunavut X0A 0E0 Canada
Attention: Jerry Natanine

Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 18-Jul-22
DATE REPORTED: 26-Jul-22
SAMPLE MATRIX: Waste Water

JOB/PROJECT NO.:
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		CLY-4	CLY-5	CLY-6A	CLY-6B
			Sample I.D.		B22-22458-1	B22-22458-2	B22-22458-3	B22-22458-4
			Date Collected		14-Jul-22	14-Jul-22	14-Jul-22	14-Jul-22
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				
Total Suspended Solids	mg/L	3	SM2540D	19-Jul-22/K	22	28	5	5
BOD(5 day)	mg/L	3	SM 5210B	20-Jul-22/K	111	103	4	3
Conductivity @25°C	µmho/cm	1	SM 2510B	18-Jul-22/O	912	915	135	135
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	18-Jul-22/O	307	308	40	38
Chloride	mg/L	0.5	SM4110C	19-Jul-22/O	51.3	51.6	10.1	10.2
Nitrite (N)	mg/L	0.1	SM4110C	19-Jul-22/O	< 0.1	< 0.1	< 0.1	< 0.1
Nitrate (N)	mg/L	0.1	SM4110C	19-Jul-22/O	< 0.1	< 0.1	0.5	0.5
Sulphate	mg/L	1	SM4110C	19-Jul-22/O	2	2	2	2
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	19-Jul-22/K	88.9	92.6	7.75	7.70
Phenolics	mg/L	0.001	MOEE 3179	20-Jul-22/K	0.840	0.888	< 0.001	< 0.001
Total Organic Carbon	mg/L	0.2	EPA 415.2	19-Jul-22/O	24.4	26.4	16.3	14.2
Hardness (as CaCO3)	mg/L	1	SM 3120	21-Jul-22/O	34	32	9	10
Arsenic	mg/L	0.0005	EPA 200.8	19-Jul-22/O	0.0008	0.0008	< 0.0005	< 0.0005
Calcium	mg/L	0.02	SM 3120	21-Jul-22/O	5.82	5.50	1.80	2.05
Cadmium	mg/L	).000070	EPA 200.8	19-Jul-22/O	< 0.000070	< 0.000070	< 0.000070	< 0.000070
Potassium	mg/L	0.1	SM 3120	21-Jul-22/O	22.1	20.9	3.5	4.0
Aluminum	mg/L	0.01	SM 3120	21-Jul-22/O	0.15	0.13	0.05	0.05
Chromium	mg/L	0.002	SM 3120	21-Jul-22/O	< 0.002	< 0.002	< 0.002	< 0.002
Cobalt	mg/L	0.005	SM 3120	21-Jul-22/O	< 0.005	< 0.005	< 0.005	< 0.005
Copper	mg/L	0.002	SM 3120	21-Jul-22/O	0.107	0.097	0.012	0.014
Lead	mg/L	0.0001	EPA 200.8	19-Jul-22/O	0.0009	0.0011	< 0.0001	< 0.0001
Iron	mg/L	0.005	SM 3120	21-Jul-22/O	1.41	1.31	0.176	0.196
Manganese	mg/L	0.001	SM 3120	21-Jul-22/O	0.119	0.112	0.012	0.013
Mercury	mg/L	0.00002	SM 3112 B	20-Jul-22/O	0.00003	0.00003	< 0.00002	< 0.00002
Nickel	mg/L	0.01	SM 3120	21-Jul-22/O	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	mg/L	0.005	SM 3120	21-Jul-22/O	0.062	0.053	0.013	0.013
pH @25°C	pH Units		SM 4500H	18-Jul-22/O	7.67	7.64	7.43	7.44

Tahir Yapici Ph.D
Lab Supervisor

R.L. = Reporting Limit
Test methods may be modified from specified reference method unless indicated by an *
Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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Municipality of Clyde River
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Clyde River Nunavut X0A 0E0 Canada
Attention: Jerry Natanine

Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 18-Jul-22
DATE REPORTED: 26-Jul-22
SAMPLE MATRIX: Waste Water

JOB/PROJECT NO.:
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		CLY-4	CLY-5	CLY-6A	CLY-6B
			Sample I.D.		B22-22458-1	B22-22458-2	B22-22458-3	B22-22458-4
			Date Collected		14-Jul-22	14-Jul-22	14-Jul-22	14-Jul-22
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				
Oil & Grease-Total	mg/L	1.0	SM 5520	20-Jul-22/K	18.2	17.2	1.6	1.7
Fecal Coliform	cfu/100mL	1	MOE E3371	18-Jul-22/O	31000	4600	< 100	< 100

Tahir Yapici Ph.D
Lab Supervisor

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DATE RECEIVED: 18-Jul-22
DATE REPORTED: 26-Jul-22
SAMPLE MATRIX: Waste Water

JOB/PROJECT NO.:
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		CLY-11			
			Sample I.D.		B22-22458-5			
			Date Collected		14-Jul-22			
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				
Total Suspended Solids	mg/L	3	SM2540D	19-Jul-22/K	6			
BOD(5 day)	mg/L	3	SM 5210B	20-Jul-22/K	< 3			
Conductivity @25°C	µmho/cm	1	SM 2510B	18-Jul-22/O	135			
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	18-Jul-22/O	40			
Chloride	mg/L	0.5	SM4110C	19-Jul-22/O	10.2			
Nitrite (N)	mg/L	0.1	SM4110C	19-Jul-22/O	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	19-Jul-22/O	0.5			
Sulphate	mg/L	1	SM4110C	19-Jul-22/O	2			
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	19-Jul-22/K	7.71			
Phenolics	mg/L	0.001	MOEE 3179	20-Jul-22/K	< 0.001			
Total Organic Carbon	mg/L	0.2	EPA 415.2	19-Jul-22/O	13.9			
Hardness (as CaCO3)	mg/L	1	SM 3120	21-Jul-22/O	9			
Arsenic	mg/L	0.0005	EPA 200.8	19-Jul-22/O	< 0.0005			
Calcium	mg/L	0.02	SM 3120	21-Jul-22/O	1.70			
Cadmium	mg/L	).000070	EPA 200.8	19-Jul-22/O	< 0.000070			
Potassium	mg/L	0.1	SM 3120	21-Jul-22/O	3.9			
Aluminum	mg/L	0.01	SM 3120	21-Jul-22/O	0.05			
Chromium	mg/L	0.002	SM 3120	21-Jul-22/O	< 0.002			
Cobalt	mg/L	0.005	SM 3120	21-Jul-22/O	< 0.005			
Copper	mg/L	0.002	SM 3120	21-Jul-22/O	0.013			
Lead	mg/L	0.0001	EPA 200.8	19-Jul-22/O	< 0.0001			
Iron	mg/L	0.005	SM 3120	21-Jul-22/O	0.182			
Manganese	mg/L	0.001	SM 3120	21-Jul-22/O	0.013			
Mercury	mg/L	0.00002	SM 3112 B	20-Jul-22/O	< 0.00002			
Nickel	mg/L	0.01	SM 3120	21-Jul-22/O	< 0.01			
Zinc	mg/L	0.005	SM 3120	21-Jul-22/O	0.008			
pH @25°C	pH Units		SM 4500H	18-Jul-22/O	7.42			

R.L. = Reporting Limit
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Tahir Yapici Ph.D
Lab Supervisor

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Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 18-Jul-22
DATE REPORTED: 26-Jul-22
SAMPLE MATRIX: Waste Water

JOB/PROJECT NO.:
P.O. NUMBER:
WATERWORKS NO.

			Client I.D.		CLY-11			
			Sample I.D.		B22-22458-5			
			Date Collected		14-Jul-22			
Parameter	**Units**	**R.L.**	**Reference Method**	**Date/Site Analyzed**				
Oil & Grease-Total	mg/L	1.0	SM 5520	20-Jul-22/K	1.6			
Fecal Coliform	cfu/100mL	1	MOE E3371	18-Jul-22/O	200			

R.L. = Reporting Limit
Test methods may be modified from specified reference method unless indicated by an *
Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Tahir Yapici Ph.D
Lab Supervisor

CADUCEON ENVIRONMENTAL LABORATORIES
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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: -

REPORT No: 24-011693 - 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: Ian Tigullaraq

DATE RECEIVED: 2024-Apr-29
DATE REPORTED: 2024-May-07
SAMPLE MATRIX: Waste Water

CUSTOMER PROJECT:
P.O. NUMBER:

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	1	OTTAWA	LMACGREGOR	2024-Apr-30	A-IC-01	SM 4110B
BOD5 (Liquid)	1	KINGSTON	JWOLFE2	2024-May-02	BOD-001	SM 5210B
Cond/pH/Alk Auto (Liquid)	1	OTTAWA	SBOUDREAU	2024-Apr-29	COND-02/PH-02/ALK-02	SM 2510B/4500H/2320B
Fecal Coliforms (Liquid)	1	OTTAWA	HALIPDA	2024-Apr-29	FC-001	SM 9222D
ICP/MS Total (Liquid)	1	OTTAWA	AOZKAYMAK	2024-May-02	D-ICPMS-01	EPA 6020
ICP/OES Total (Liquid)	1	OTTAWA	NHOGAN	2024-May-02	D-ICP-01	SM 3120B
Mercury (Liquid)	1	OTTAWA	TBENNETT	2024-May-02	D-HG-02	SM 3112B
Ammonia & o-Phosphate (Liquid)	1	KINGSTON	JYEARWOOD	2024-May-02	NH3-001	SM 4500NH3
PHC F1 (Liquid)	1	RICHMOND_HILL	FLENA	2024-May-02	C-VPHW-01	MECP E3421
PHC F2-4 (Liquid)	1	KINGSTON	STHOMPSON	2024-May-02	PHC-W-001	MECP E3421
Phenols (Liquid)	1	KINGSTON	JMACINNES	2024-May-02	PHEN-01	MECP E3179
Total Organic Carbon (TOC)	1	OTTAWA	VKASYAN	2024-May-01	C-OC-01	EPA 415.2
TP & TKN (Liquid)	1	KINGSTON	KDIBBITS	2024-May-06	TPTKN-001	MECP E3516.2
TSS (Liquid)	1	KINGSTON	DCASSIDY	2024-May-01	TSS-001	SM 2540D
VOC-Volatiles Full (Water)	1	RICHMOND_HILL	FLENA	2024-May-02	C-VOC-02	EPA 8260

µg/g = micrograms per gram (parts per million) and is equal to mg/Kg
F1 C6-C10 hydrocarbons in µg/g, (F1-btex if requested)
F2 C10-C16 hydrocarbons in µg/g, (F2-napth if requested)
F3 C16-C34 hydrocarbons in µg/g, (F3-pah if requested)
F4 C34-C50 hydrocarbons in µg/g
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
Any deviations from the method are noted and reported for any particular sample.
nC6 and nC10 response factor is within 30% of response factor for toluene:
nC10,nC16 and nC34 response factors within 10% of each other:
C50 response factors within 70% of nC10+nC16+nC34 average:
Linearity is within 15%:
All results expressed on a dry weight basis.
Unless otherwise noted all chromatograms returned to baseline by the retention time of nC50.

R.L. = Reporting Limit
NC = Not Calculated
Test methods may be modified from specified reference method unless indicated by an *

Unless otherwise noted all extraction, analysis, QC requirements and limits for holding time were met.
If analyzed for F4 and F4G they are not to be summed but the greater of the two numbers are to be used in application to the CWS PHC
QC will be made available upon request.

Michelle Dubien
Data Specialist

		Client I.D.	Leachate CLY-2
		Sample I.D.	24-011693-1
		Date Collected	2024-04-25
Parameter	**Units**	**R.L.**	-
Fecal Coliform	CFU/100mL	1	600000
Alkalinity(CaCO3) to pH4.5	mg/L	5	494
Conductivity @25°C	uS/cm	1	1480
pH @25°C	pH units	-	7.62
Chloride	mg/L	0.5	93.5
Nitrate (N)	mg/L	0.05	<0.05
Nitrite (N)	mg/L	0.05	<0.05
Sulphate	mg/L	1	<1
BOD5	mg/L	3	106
Total Suspended Solids	mg/L	3	37
Phosphorus (Total)	mg/L	0.01	15.2
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	152
Total Organic Carbon	mg/L	0.2	96.0
Phenolics	mg/L	0.001	<0.001
Hardness (as CaCO3)	mg/L	-	62.4
Aluminum (Total)	mg/L	0.01	0.22
Cadmium (Total)	mg/L	0.005	<0.005
Calcium (Total)	mg/L	0.02	10.8
Chromium (Total)	mg/L	0.002	0.002
Cobalt (Total)	mg/L	0.005	<0.005
Copper (Total)	mg/L	0.002	0.185

Michelle Dubien
Data Specialist

Parameter	Units	R.L.	Client I.D.: Leachate CLY-2 Sample I.D.: 24-011693-1 Date Collected: 2024-04-25 -
Iron (Total)	mg/L	0.005	2.44
Lead (Total)	mg/L	0.02	<0.02
Manganese (Total)	mg/L	0.001	0.213
Nickel (Total)	mg/L	0.01	<0.01
Potassium (Total)	mg/L	0.1	40.3
Zinc (Total)	mg/L	0.005	0.098
Arsenic (Total)	mg/L	0.0001	0.0011
Mercury	mg/L	0.00002	0.00005

Parameter	Units	R.L.	Client I.D.: Leachate CLY-2 Sample I.D.: 24-011693-1 Date Collected: 2024-04-25 -
Benzene	µg/L	0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5
Toluene	µg/L	0.5	131
Xylene, m,p-	µg/L	1	1
Xylene, m,p,o-	µg/L	1.1	1.6
Xylene, o-	µg/L	0.5	0.5
PHC F1 (C6-C10)	µg/L	25	168
PHC F2 (>C10-C16)	µg/L	50	331
PHC F3 (>C16-C34)	µg/L	400	2620
PHC F4 (>C34-C50)	µg/L	400	996

Michelle Dubien
Data Specialist

CADUCEON ENVIRONMENTAL LABORATORIES
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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G 111254 **REPORT No: 24-019556 - 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: Ian Tigullaraq

DATE RECEIVED: 2024-Jul-02
DATE REPORTED: 2024-Jul-10
SAMPLE MATRIX: Waste Water

CUSTOMER PROJECT:
P.O. NUMBER:

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	1	OTTAWA	PCURIEL	2024-Jul-03	A-IC-01	SM 4110B
BOD5 (Liquid)	1	KINGSTON	JWOLFE2	2024-Jul-04	BOD-001	SM 5210B
Cond/pH/Alk Auto (Liquid)	1	OTTAWA	SBOUDREAU	2024-Jul-03	COND-02/PH-02/ALK-02	SM 2510B/4500H/2320B
Fecal Coliforms (Liquid)	1	OTTAWA	HALIPDA	2024-Jul-02	FC-001	SM 9222D
ICP/MS Total (Liquid)	1	OTTAWA	TPRICE	2024-Jul-03	D-ICPMS-01	EPA 6020
ICP/OES Total (Liquid)	1	OTTAWA	JCASSIDY	2024-Jul-03	D-ICP-01	SM 3120B
Mercury (Liquid)	1	OTTAWA	TBENNETT	2024-Jul-04	D-HG-02	SM 3112B
Ammonia & o-Phosphate (Liquid)	1	KINGSTON	KDIBBITS	2024-Jul-04	NH3-001	SM 4500NH3
Oil & Grease (Liquid)	1	KINGSTON	TMCBRYDE	2024-Jul-05	O&G-001	SM 5520
PHC F1 (Liquid)	1	RICHMOND_HILL	FLENA	2024-Jul-05	C-VPHW-01	MECP E3421
PHC F2-4 (Liquid)	1	KINGSTON	STHOMPSON	2024-Jul-09	PHC-W-001	MECP E3421
Phenols (Liquid)	1	KINGSTON	JMACINNES	2024-Jul-04	PHEN-01	MECP E3179
SVOC - Semi-Volatiles (Liquid)	1	KINGSTON	EASIEDU	2024-Jul-09	NAB-W-001	EPA 8270D
Total Organic Carbon (TOC)	1	OTTAWA	VKASYAN	2024-Jul-05	C-OC-01	EPA 415.2
TP & TKN (Liquid)	1	KINGSTON	KDIBBITS	2024-Jul-10	TPTKN-001	MECP E3516.2
TSS (Liquid)	1	KINGSTON	DCASSIDY	2024-Jul-04	TSS-001	SM 2540D
VOC-Volatiles Full (Water)	1	RICHMOND_HILL	FLENA	2024-Jul-05	C-VOC-02	EPA 8260

µg/g = micrograms per gram (parts per million) and is equal to mg/Kg
F1 C6-C10 hydrocarbons in µg/g, (F1-btex if requested)
F2 C10-C16 hydrocarbons in µg/g, (F2-napth if requested)
F3 C16-C34 hydrocarbons in µg/g, (F3-pah if requested)
F4 C34-C50 hydrocarbons in µg/g
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
Any deviations from the method are noted and reported for any particular sample.
nC6 and nC10 response factor is within 30% of response factor for toluene:
nC10,nC16 and nC34 response factors within 10% of each other:
C50 response factors within 70% of nC10+nC16+nC34 average:
Linearity is within 15%:
All results expressed on a dry weight basis.
Unless otherwise noted all chromatograms returned to baseline by the retention time of nC50.

R.L. = Reporting Limit
NC = Not Calculated
Test methods may be modified from specified reference method unless indicated by an *

Unless otherwise noted all extraction, analysis, QC requirements and limits for holding time were met.
If analyzed for F4 and F4G they are not to be summed but the greater of the two numbers are to be used in application to the CWS PHC
QC will be made available upon request.

Steve Garrett
Director of Laboratory Services

Parameter	Units	R.L.	Client I.D.: CLY-2 (new monitoring station) Sample I.D.: 24-019556-1 Date Collected: 2024-06-27 -
Fecal Coliform	CFU/100mL	1	<100
Alkalinity(CaCO3) to pH4.5	mg/L	5	16
Conductivity @25°C	uS/cm	1	48
pH @25°C	pH units	-	6.84
Chloride	mg/L	0.5	4.2
Nitrate (N)	mg/L	0.05	0.10
Nitrite (N)	mg/L	0.05	<0.05
Sulphate	mg/L	1	<1
BOD5	mg/L	3	3
Total Suspended Solids	mg/L	3	11
Phosphorus (Total)	mg/L	0.01	0.06
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	<0.05
Total Organic Carbon	mg/L	0.2	5.8
Phenolics	mg/L	0.001	<0.001
Hardness (as CaCO3)	mg/L	0.02	12.9
Aluminum (Total)	mg/L	0.01	0.27
Cadmium (Total)	mg/L	0.005	<0.005
Calcium (Total)	mg/L	0.02	2.91
Chromium (Total)	mg/L	0.002	<0.002
Cobalt (Total)	mg/L	0.005	<0.005
Copper (Total)	mg/L	0.002	<0.002

Steve Garrett
Director of Laboratory Services

	Client I.D.		CLY-2 (new monitoring station)
	Sample I.D.		24-019556-1
	Date Collected		2024-06-27
Parameter	**Units**	**R.L.**	-
Iron (Total)	mg/L	0.005	1.24
Lead (Total)	mg/L	0.02	<0.02
Manganese (Total)	mg/L	0.001	0.066
Nickel (Total)	mg/L	0.01	<0.01
Potassium (Total)	mg/L	0.1	3.0
Zinc (Total)	mg/L	0.005	0.029
Arsenic (Total)	mg/L	0.0001	0.0003
Mercury	mg/L	0.00002	<0.00002

Steve Garrett

Director of Laboratory Services

		Client I.D.	CLY-2 (new monitoring station)
		Sample I.D.	24-019556-1
		Date Collected	2024-06-27
Parameter	**Units**	**R.L.**	-
Benzene	µg/L	0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5
Toluene	µg/L	0.5	2.2
Xylene, m,p-	µg/L	1	<1
Xylene, m,p,o-	µg/L	1.1	<1.1
Xylene, o-	µg/L	0.5	<0.5
PHC F1 (C6-C10)	µg/L	25	<25
PHC F2 (>C10-C16)	µg/L	50	<50
PHC F3 (>C16-C34)	µg/L	400	<400
PHC F4 (>C34-C50)	µg/L	400	<400
Oil & Grease (Total)	mg/L	1.0	1.7

Steve Garrett

Director of Laboratory Services

		Client I.D.	CLY-2 (new monitoring station)
		Sample I.D.	24-019556-1
		Date Collected	2024-06-27
Parameter	**Units**	**R.L.**	-
Acenaphthene	µg/L	0.05	<0.05
Acenaphthylene	µg/L	0.05	<0.05
Anthracene	µg/L	0.05	<0.05
Benzo[a]anthracene	µg/L	0.05	<0.05
Benzo(a)pyrene	µg/L	0.01	<0.01
Benzo(b)fluoranthene	µg/L	0.05	<0.05
Benzo(b+k)fluoranthene	µg/L	0.1	<0.1
Benzo(g,h,i)perylene	µg/L	0.05	<0.05
Benzo(k)fluoranthene	µg/L	0.05	<0.05
Chrysene	µg/L	0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	0.05	<0.05
Fluoranthene	µg/L	0.05	<0.05
Fluorene	µg/L	0.05	<0.05
Indeno(1,2,3,-cd)Pyrene	µg/L	0.05	<0.05
Methylnaphthalene,1-	µg/L	0.05	<0.05
Methylnaphthalene,2-(1-)	µg/L	1	<1
Methylnaphthalene,2-	µg/L	0.05	<0.05
Naphthalene	µg/L	0.05	<0.05
Phenanthrene	µg/L	0.05	<0.05
Pyrene	µg/L	0.05	<0.05
Total PAH	µg/L	0.1	0.2

Steve Garrett

Director of Laboratory Services

CADUCEON ENVIRONMENTAL LABORATORIES
Client committed. Quality assured. Canadian owned.

CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G 111254

REPORT No: 24-019563 - 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: Ian Tigullaraq

DATE RECEIVED: 2024-Jul-02
DATE REPORTED: 2024-Jul-09
SAMPLE MATRIX: Waste Water

CUSTOMER PROJECT:
P.O. NUMBER:

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	3	OTTAWA	PCURIEL	2024-Jul-03	A-IC-01	SM 4110B
BOD5 (Liquid)	3	KINGSTON	JWOLFE2	2024-Jul-04	BOD-001	SM 5210B
Cond/pH/Alk Auto (Liquid)	3	OTTAWA	SBOUDREAU	2024-Jul-03	COND-02/PH-02/ALK-02	SM 2510B/4500H/2320B
Fecal Coliforms (Liquid)	3	OTTAWA	HALIPDA	2024-Jul-02	FC-001	SM 9222D
ICP/MS Total (Liquid)	3	OTTAWA	TPRICE	2024-Jul-03	D-ICPMS-01	EPA 6020
ICP/OES Total (Liquid)	3	OTTAWA	AOZKAYMAK	2024-Jul-03	D-ICP-01	SM 3120B
Mercury (Liquid)	3	OTTAWA	TBENNETT	2024-Jul-04	D-HG-02	SM 3112B
Ammonia & o-Phosphate (Liquid)	3	KINGSTON	KDIBBITS	2024-Jul-04	NH3-001	SM 4500NH3
Oil & Grease (Liquid)	3	KINGSTON	TMCBRYDE	2024-Jul-05	O&G-001	SM 5520
Phenols (Liquid)	3	KINGSTON	JMACINNES	2024-Jul-04	PHEN-01	MECP E3179
Total Organic Carbon (TOC)	3	OTTAWA	VKASYAN	2024-Jul-05	C-OC-01	EPA 415.2
TSS (Liquid)	3	KINGSTON	DCASSIDY	2024-Jul-04	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

	Client I.D.		CLY-4	CLY-5	CLY-6B
	Sample I.D.		24-019563-1	24-019563-2	24-019563-3
	Date Collected		2024-06-27	2024-06-27	2024-06-27
Parameter	**Units**	**R.L.**	-	-	-
Fecal Coliform	CFU/100mL	1	<10	62000	10
Alkalinity(CaCO3) to pH4.5	mg/L	5	11	211	37
Conductivity @25°C	uS/cm	1	64	652	354
pH @25°C	pH units	-	6.49	7.47	7.02
Chloride	mg/L	0.5	6.2	42.3	50.1
Nitrate (N)	mg/L	0.05	0.46	0.06	6.01
Nitrite (N)	mg/L	0.05	<0.05	<0.05	0.38
Sulphate	mg/L	1	2	3	5
BOD5	mg/L	3	11	83	13
Total Suspended Solids	mg/L	3	92	3640	16
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	0.33	70.1	12.6
Total Organic Carbon	mg/L	0.2	10.5	59.8	40.6
Phenolics	mg/L	0.001	<0.001	0.279	0.002
Hardness (as CaCO3)	mg/L	0.02	7.38	75.4	12.6
Aluminum (Total)	mg/L	0.01	0.29	14.4	0.13
Cadmium (Total)	mg/L	0.005	<0.005	<0.005	<0.005
Calcium (Total)	mg/L	0.02	1.50	10.7	2.36
Chromium (Total)	mg/L	0.002	<0.002	0.019	<0.002
Cobalt (Total)	mg/L	0.005	<0.005	0.010	<0.005
Copper (Total)	mg/L	0.002	0.003	0.114	0.027
Iron (Total)	mg/L	0.005	0.515	23.6	0.268

Steve Garrett

Director of Laboratory Services

		Client I.D.	CLY-4	CLY-5	CLY-6B
		Sample I.D.	24-019563-1	24-019563-2	24-019563-3
		Date Collected	2024-06-27	2024-06-27	2024-06-27
Parameter	**Units**	**R.L.**	-	-	-
Lead (Total)	mg/L	0.02	<0.02	<0.02	<0.02
Magnesium (Total)	mg/L	0.02	0.88	11.8	1.62
Manganese (Total)	mg/L	0.001	0.252	0.426	0.012
Nickel (Total)	mg/L	0.01	<0.01	0.01	<0.01
Potassium (Total)	mg/L	0.1	5.6	23.4	17.3
Sodium (Total)	mg/L	0.2	4.2	39.0	33.4
Zinc (Total)	mg/L	0.005	0.011	0.113	0.016
Arsenic (Total)	mg/L	0.0005	<0.0005	0.0039	0.0005
Mercury	mg/L	0.00002	<0.00002	<0.00002	0.00003

		Client I.D.	CLY-4	CLY-5	CLY-6B
		Sample I.D.	24-019563-1	24-019563-2	24-019563-3
		Date Collected	2024-06-27	2024-06-27	2024-06-27
Parameter	**Units**	**R.L.**	-	-	-
Oil & Grease (Total)	mg/L	1.0	1.8	17.6	1.2

Steve Garrett

Director of Laboratory Services