

C.O.C.: G23554

REPORT No. B12-22622

Report To:

Hamlet of Arctic Bay
Box 150,
Arctic Bay NU X0A 0A0 Canada

Attention: Micheal Rowan

Caduceon Environmental Laboratories

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

DATE RECEIVED: 05-Sep-12

JOB/PROJECT NO.: 2012 Decant

DATE REPORTED: 11-Sep-12

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

Parameter			BOD	Total Suspended Solids			
Units			mg/L	mg/L			
M.D.L.			3	3			
Reference Method			SM 5210B	SM 2540D			
Date Analyzed/Site			06-Sep-12/O	07-Sep-12/O			
Client I.D.	Sample I.D.	Date Collected					
Beginning Decanting	B12-22622-1	29-Aug-12	14	14			
Middle Decanting	B12-22622-2	29-Aug-12	63	136			
End Decanting	B12-22622-3	29-Aug-12	90	88			

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

K. Pipin

Krystyna Pipin, M. Sc.

Lab Supervisor

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C.O.C.: G

REPORT No. B12-20295

Report To:

Hamlet of Arctic Bay
Box 150,
Arctic Bay NU X0A 0A0 Canada

Attention: Sam Willie

Caduceon Environmental Laboratories

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

DATE RECEIVED: 13-Aug-12

JOB/PROJECT NO.:

DATE REPORTED: 21-Aug-12

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

			Client I.D.	Raw Reservoir			
			Sample I.D.	B12-20295-1			
			Date Collected	13-Aug-12			
Parameter	Units	M.D.L.	Reference Method	Date/ Site Analyzed			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	14-Aug-12/O	14		
Alkalinity (as CaCO ₃)	mg/L	5	SM 2320B	14-Aug-12/O	8		
Conductivity	µmho/cm	1	SM 2510B	14-Aug-12/O	36		
pH	pH Units		SM 4500H	14-Aug-12/O	7.32		
Chloride	mg/L	0.5	SM4110C	13-Aug-12/O	3.7		
Fluoride	mg/L	0.1	SM4110C	13-Aug-12/O	< 0.1		
Nitrite (N)	mg/L	0.1	SM4110C	13-Aug-12/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	13-Aug-12/O	0.2		
Sulphate	mg/L	1	SM4110C	13-Aug-12/O	3		
Colour	TCU	1	SM 2120C	14-Aug-12/O	8		
Turbidity	NTU	0.1	SM 2130	17-Aug-12/O	2.3		
Calcium	mg/L	0.02	SM 3120	14-Aug-12/O	2.92		
Magnesium	mg/L	0.01	SM 3120	14-Aug-12/O	1.58		
Sodium	mg/L	0.2	SM 3120	14-Aug-12/O	1.8		
Potassium	mg/L	0.1	SM 3120	14-Aug-12/O	0.3		
Copper	mg/L	0.002	SM 3120	14-Aug-12/O	< 0.002		
Iron	mg/L	0.005	SM 3120	14-Aug-12/O	0.034		
Manganese	mg/L	0.001	SM 3120	14-Aug-12/O	0.002		
Silica	mg/L	0.02	SM 3120	14-Aug-12/O	0.91		
Zinc	mg/L	0.005	SM 3120	14-Aug-12/O	< 0.005		
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	16-Aug-12/O	< 0.01		
Total Kjeldahl Nitrogen	mg/L	0.05	MOEE 3367	15-Aug-12/O	< 0.05		
Organic Nitrogen	mg/L	0.05	MOEE 3367	17-Aug-12/O	< 0.05		
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	15-Aug-12/O	1.0		
Phenolics	mg/L	0.001	MOEE 3179	20-Aug-12/O	< 0.001		
Tannins and Lignins	mg/L	0.1	N/A	17-Aug-12	< 0.1		
Total Coliform	cfu/100mL	1	MOE E3407	13-Aug-12/O	4		
E coli	cfu/100mL	1	MOE E3407	13-Aug-12/O	0		

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Gord Murphy

Lab Supervisor

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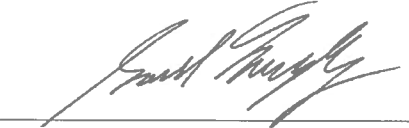
SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

			Client I.D.	Raw Reservoir			
			Sample I.D.	B12-20295-1			
			Date Collected	13-Aug-12			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Background	cfu/100mL	1	MOE E3407	13-Aug-12/O	36		
Anion Sum	meq/L		Calc.	16-Aug-12/O	0.338		
Cation Sum	meq/L		Calc.	16-Aug-12/O	0.362		
% Difference	%		Calc.	16-Aug-12/O	3.39		
Ion Ratio	AS/CS		Calc.	16-Aug-12/O	0.934		
Sodium Adsorption Ratio	-		Calc.	16-Aug-12/O	0.210		
TDS(ion sum calc.)	mg/L		Calc.	16-Aug-12/O	18.8		
Conductivity (calc.)	µmho/cm		Calc.	16-Aug-12/O	39.5		
TDS(calc.)/EC(actual)	-		Calc.	16-Aug-12/O	0.519		
EC(calc.)/EC(actual)	-		Calc.	16-Aug-12/O	1.09		
Langelier Index(25 °C)	S.I.		Calc.	16-Aug-12/O	-2.62		
Benzene	µg/L	0.5	EPA 8260	13-Aug-12/O	< 0.5		
Toluene	µg/L	0.5	EPA 8260	13-Aug-12/O	< 0.5		
Ethylbenzene	µg/L	0.5	EPA 8260	13-Aug-12/O	< 0.5		
Xylene, m,p-	µg/L	1.0	EPA 8260	13-Aug-12/O	< 1.0		
Styrene	µg/L	0.5	EPA 8260	13-Aug-12/O	< 0.5		
Xylene, o-	µg/L	0.5	EPA 8260	13-Aug-12/O	< 0.5		
Dichloroethane-d4,1,2-(SS)	%		EPA 8260	13-Aug-12/O	106		
Toluene-d8 (SS)	%		EPA 8260	13-Aug-12/O	101		
Bromofluorobenzene,4(SS)	%		EPA 8260	13-Aug-12/O	104		
PHC F1 (C6-C10)	µg/L	50	MOE E3421	17-Aug-12/O	< 50		
PHC F2 (>C10-C16)	µg/L	50	MOE PHC E3421	16-Aug-12/K	< 50		
PHC F3 (>C16-C34)	µg/L	500	MOE PHC E3421	16-Aug-12/K	< 500		
PHC F4 (>C34-C50)	µg/L	500	MOE PHC E3421	16-Aug-12/K	< 500		
Comment-extractable	-		-	16-Aug-12	-		

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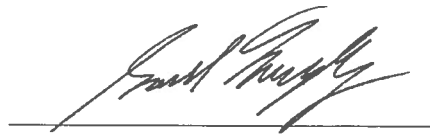
WATERWORKS NO.

			Client I.D.	Raw Reservoir			
			Sample I.D.	B12-20295-1			
			Date Collected	13-Aug-12			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Comment-purgeable	-		-	17-Aug-12/O	-		

1 subcontracted to Paracel Labs

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