

C.O.C.: G81594

REPORT No. B19-04128 (i)

Report To:

City of Kawartha Lakes
PO Box 9000, 12 Peel St
Lindsay ON K9V 5R8

Attention: Kerri Snoddy

Caduceon Environmental Laboratories

112 Commerce Park Drive
Barrie ON L4N 8W8
Tel: 705-252-5743
Fax: 705-252-5746

DATE RECEIVED: 14-Feb-19

JOB/PROJECT NO.: Lindsay OPS

DATE REPORTED: 22-Feb-19

P.O. NUMBER:

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

			Client I.D.	WPCP Pumping Chamber			
			Sample I.D.	B19-04128-1			
			Date Collected	14-Feb-19			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	19-Feb-19/O	599		
Conductivity @25°C	µmho/cm	1	SM 2510B	19-Feb-19/O	1780		
pH @25°C	pH Units		SM 4500H	19-Feb-19/O	7.68		
TDS(ion sum calc.)	mg/L	1	Calc.	20-Feb-19/O	1005		
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	21-Feb-19/O	13.4		
BOD(5 day)	mg/L	3	SM 5210B	15-Feb-19/K	19		
COD	mg/L	5	SM 5220D	20-Feb-19/O	62		
Phenolics	mg/L	0.002	MOEE 3179	19-Feb-19/K	< 0.002		
Chloride	mg/L	0.5	SM4110C	19-Feb-19/O	199		
Fluoride	mg/L	0.1	SM4110C	19-Feb-19/O	0.1		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH ₃ -H	19-Feb-19/K	17.6		
Sulphate	mg/L	1	SM4110C	19-Feb-19/O	42		
Nitrite (N)	mg/L	0.05	SM4110C	19-Feb-19/O	< 0.05		
Nitrate (N)	mg/L	0.05	SM4110C	19-Feb-19/O	0.15		
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	19-Feb-19/K	20.5		
Hardness (as CaCO ₃)	mg/L	1	SM 3120	20-Feb-19/O	596		
Aluminum	mg/L	0.01	SM 3120	20-Feb-19/O	0.12		
Antimony	mg/L	0.0001	EPA 200.8	19-Feb-19/O	< 0.0001		
Arsenic	mg/L	0.0001	EPA 200.8	19-Feb-19/O	0.0013		
Barium	mg/L	0.001	SM 3120	20-Feb-19/O	0.297		
Beryllium	mg/L	0.002	SM 3120	20-Feb-19/O	< 0.002		
Boron	mg/L	0.005	SM 3120	20-Feb-19/O	0.426		



Christine Burke
Lab Manager

R.L. = Reporting Limit

Test methods are 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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Cadmium	mg/L	0.000015	EPA 200.8	19-Feb-19/O	< 0.000015		
Calcium	mg/L	0.02	SM 3120	20-Feb-19/O	175		
Chromium	mg/L	0.001	SM 3120	20-Feb-19/O	0.011		
Cobalt	mg/L	0.005	SM 3120	20-Feb-19/O	0.007		
Copper	mg/L	0.0001	EPA 200.8	19-Feb-19/O	0.0011		
Iron	mg/L	0.005	SM 3120	20-Feb-19/O	11.0		
Lead	mg/L	0.00002	EPA 200.8	19-Feb-19/O	0.00012		
Magnesium	mg/L	0.02	SM 3120	20-Feb-19/O	38.6		
Manganese	mg/L	0.001	SM 3120	20-Feb-19/O	0.363		
Mercury	mg/L	0.00002	SM 3112 B	19-Feb-19/O	< 0.00002		
Molybdenum	mg/L	0.0001	EPA 200.8	19-Feb-19/O	0.0002		
Nickel	mg/L	0.01	SM 3120	20-Feb-19/O	0.01		
Potassium	mg/L	0.1	SM 3120	20-Feb-19/O	21.3		
Phosphorus-Total	mg/L	0.01	E3199A.1	19-Feb-19/K	0.03		
Phosphorus	mg/L	0.1	SM 3120	20-Feb-19/O	< 0.1		
Selenium	mg/L	0.001	EPA 200.8	19-Feb-19/O	< 0.001		
Silver	mg/L	0.0001	EPA 200.8	19-Feb-19/O	< 0.0001		
Sodium	mg/L	0.2	SM 3120	20-Feb-19/O	136		
Strontium	mg/L	0.001	SM 3120	20-Feb-19/O	0.715		
Thallium	mg/L	0.00005	EPA 200.8	19-Feb-19/O	< 0.00005		
Vanadium	mg/L	0.0001	EPA 200.8	19-Feb-19/O	0.0009		
Zinc	mg/L	0.005	SM 3120	20-Feb-19/O	0.009		
Anion Sum	meq/L		Calc.	20-Feb-19/O	18.5		



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Lab Manager

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Cation Sum	meq/L		Calc.	20-Feb-19/O	20.2			
% Difference	%		Calc.	20-Feb-19/O	4.51			
Ion Ratio	AS/CS		Calc.	20-Feb-19/O	0.914			
Conductivity (calc.)	µmho/cm		Calc.	20-Feb-19/O	1720			
Sodium Adsorption Ratio	-		Calc.	20-Feb-19/O	2.42			
TDS(calc.)/EC(actual)	-		Calc.	20-Feb-19/O	0.565			
Langelier Index(25°C)	S.I.		Calc.	20-Feb-19/O	1.19			



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