

**C.O.C.: ---**

**REPORT No. B14-11619**

**Report To:**

**ATCO Structure & Logistics**

PO Box 88,  
NU X0A 0V0 Canada

**Attention:** Rick Gaulton

**Caduceon Environmental Laboratories**

2378 Holly Lane  
Ottawa Ontario K1V 7P1  
Tel: 613-526-0123  
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DATE RECEIVED: 22-May-14

JOB/PROJECT NO.: Hamlet of Resolute Bay

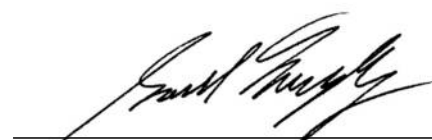
DATE REPORTED: 04-Jun-14

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

|                                         |          |         | Client I.D.      | Sewage Lagoon      |          |  |  |
|-----------------------------------------|----------|---------|------------------|--------------------|----------|--|--|
|                                         |          |         | Sample I.D.      | B14-11619-1        |          |  |  |
|                                         |          |         | Date Collected   | 20-May-14          |          |  |  |
| Parameter                               | Units    | M.D.L.  | Reference Method | Date/Site Analyzed |          |  |  |
| BOD                                     | mg/L     | 3       | SM 5210B         | 23-May-14/O        | 632      |  |  |
| Total Suspended Solids                  | mg/L     | 3       | SM 2540D         | 23-May-14/O        | 156      |  |  |
| Hardness (as CaCO <sub>3</sub> )        | mg/L     | 1       | SM 3120          | 23-May-14/O        | 181      |  |  |
| Alkalinity(CaCO <sub>3</sub> ) to pH4.5 | mg/L     | 5       | SM 2320B         | 24-May-14/O        | 383      |  |  |
| Conductivity @25°C                      | µmho/cm  | 1       | SM 2510B         | 23-May-14/O        | 1310     |  |  |
| pH @25°C                                | pH Units |         | SM 4500H         | 24-May-14/O        | 7.39     |  |  |
| Nitrite (N)                             | mg/L     | 0.1     | SM4110C          | 23-May-14/O        | < 0.1    |  |  |
| Nitrate (N)                             | mg/L     | 0.1     | SM4110C          | 23-May-14/O        | < 0.1    |  |  |
| Chloride                                | mg/L     | 0.5     | SM4110C          | 23-May-14/O        | 98.6     |  |  |
| Sulphate                                | mg/L     | 1       | SM4110C          | 23-May-14/O        | 68       |  |  |
| Total Organic Carbon                    | mg/L     | 0.2     | EPA 415.1        | 28-May-14/O        | 73.6     |  |  |
| Ammonia (N)-Total                       | mg/L     | 0.01    | MOEE 3364        | 03-Jun-14/O        | 74.1     |  |  |
| Phenolics                               | mg/L     | 0.001   | MOEE 3179        | 27-May-14/O        | 0.208    |  |  |
| Aluminum (total)                        | mg/L     | 0.01    | SM 3120          | 23-May-14/O        | 0.67     |  |  |
| Arsenic                                 | mg/L     | 0.0005  | EPA 200.8        | 23-May-14/O        | < 0.0005 |  |  |
| Calcium                                 | mg/L     | 0.02    | SM 3120          | 23-May-14/O        | 53.7     |  |  |
| Cadmium                                 | mg/L     | 0.005   | SM 3120          | 23-May-14/O        | < 0.005  |  |  |
| Cobalt                                  | mg/L     | 0.005   | SM 3120          | 23-May-14/O        | < 0.005  |  |  |
| Copper                                  | mg/L     | 0.002   | SM 3120          | 23-May-14/O        | 0.176    |  |  |
| Chromium                                | mg/L     | 0.002   | SM 3120          | 23-May-14/O        | 0.004    |  |  |
| Iron (Total)                            | mg/L     | 0.005   | SM 3120          | 23-May-14/O        | 0.940    |  |  |
| Lead                                    | mg/L     | 0.02    | SM 3120          | 23-May-14/O        | < 0.02   |  |  |
| Magnesium                               | mg/L     | 0.01    | SM 3120          | 23-May-14/O        | 11.4     |  |  |
| Manganese (Total)                       | mg/L     | 0.001   | SM 3120          | 23-May-14/O        | 0.212    |  |  |
| Mercury                                 | mg/L     | 0.00002 | SM 3112 B        | 23-May-14/O        | 0.00004  |  |  |
| Nickel                                  | mg/L     | 0.01    | SM 3120          | 23-May-14/O        | < 0.01   |  |  |
| Potassium                               | mg/L     | 0.1     | SM 3120          | 23-May-14/O        | 24.5     |  |  |



Gord Murphy  
Lab Supervisor

M.D.L. = Method Detection Limit

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

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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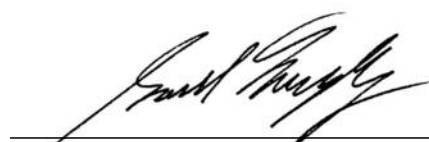
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|--------------------|-----------|--------|-----------------------|--------------------|---------|--|--|
|                    |           |        | <b>Sample I.D.</b>    | B14-11619-1        |         |  |  |
|                    |           |        | <b>Date Collected</b> | 20-May-14          |         |  |  |
| Parameter          | Units     | M.D.L. | Reference Method      | Date/Site Analyzed |         |  |  |
| Sodium             | mg/L      | 0.2    | SM 3120               | 23-May-14/O        | 80.9    |  |  |
| Zinc               | mg/L      | 0.005  | SM 3120               | 23-May-14/O        | 0.286   |  |  |
| Oil & Grease-Total | mg/L      | 1.0    | SM 5520               | 28-May-14/K        | 340     |  |  |
| Fecal Coliform     | cfu/100mL | 1      | MOE E3371             | 22-May-14/O        | 6600000 |  |  |



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