## Cramahe-Colborne Industrial Park - SBS Hydraulic Design Sheet - 2017 Capacity Assessment - Assumed Average Flow Conditions

|                                      | Pipe<br>Reach   | Location  |   |   | Resid  | iential  | Commercial                   |  |  | Design Flow Sewer Parameters |   |   |                                   |  | Flow Design  |  |  |   |   |   |  |   |                                     |   |
|--------------------------------------|---|---|---|---|--|--|------------------------------|--|--|------------------------------|---|---|-----------------------------------|--|--|--|--|---|---|---|--|---|-------------------------------------|---|
|                                      |   | 1   | 2   | 3   | 4  | 5  | 6                            | 7  | 8  | 9                            | 10  | 11  | 12                                | 13   | 14   | 15   | 16   | 17  | 18  | 19  | 20   | 21  | 22                                  | 23  |
| Phase                                |   | Location  | From  | То  | Residential<br>Connections   | Cumulative<br>Residential<br>Connections   | Commercial Avg<br>Flow (L/s) | Cumulative<br>Commercial Avg<br>Flow (L/s) | Commercial<br>Special Peak<br>Flow (L/s)                             | Avg Design<br>Flow, Q (L/s)  | Length<br>(m)   | U/S<br>Elevation<br>(m)                         | D/S<br>Elevation<br>(m)           | Overall<br>Pipe Slope<br>(%)                       | Min.<br>Pipe Slope<br>(%)                          | Pipe Dia.<br>(mm)  | Pipe<br>Capacity, Qf<br>(L/s)  | Flow Design<br>Ratio, Q/Qf  | Velocity<br>Design<br>Ratio, V/Vf   | Full Flow<br>Velocity, Vf<br>(m/s)  | Design<br>Velocity, V<br>(m/s)   | Time in Pipe<br>(min)   | Cumulative<br>Time in Pipe<br>(min) | Comments  |
|                                      |   |   |   |   |  |  |                              |  |  |                              |   |   |                                   |  |  |  |  |   |   |   |  |   |                                     |   |
| Г                                    | 1   | A-B   | 2+870   | 2+430                                     | 0  | 0  | 1.00                         | 1.00                                       |  | 1.00                         | 440.0   | 166.40  | 164.41                            | 0.45%  | 0.35%  | 100.8  | 3.12   | 0.32  | 0.75  | 0.39  | 0.29   | 25.08   | 25.08                               | Start of Run - existing (200  |
|                                      | 2   | C-B   | С   | 2+430                                     | 0  | 0  |                              | 0.00                                       |  | 0.00                         | 20.0  | 164.51  | 164.41                            | 0.50%  | 0.40%  | 193.3  | 18.94  | 0.00  | 0.00  | 0.65  | 0.00   | #DIV/0!   | #DIV/0!                             | Start of Run - proposed   |
|                                      | 3   | H-B   | Н   | 2+430                                     | 0  | 0  | 0.80                         | 0.80                                       |  | 0.80                         | 383.5   | 170.00  | 164.41                            | 1.46%  | 1.33%  | 72.7   | 2.55   | 0.31  | 0.75  | 0.61  | 0.46   | 13.94   | 13.94                               | Start of Run - existing (200  |
| 2017 Updated                         | 4   | B-J   | 2+430   | 2+235                                     | 0  | 0  | 0.16                         | 1.95                                       |  | 1.95                         | 235.0   | 164.41  | 163.51                            | 0.38%  | 0.33%  | 100.8  | 3.05   | 0.64  | 0.94  | 0.38  | 0.36   | 10.95   |                                     | Receiving from A, C and H   |
| for Capacity                         | 5   | I-J   |   | 2+235                                     | 0  | 0  | 0.16                         | 0.16                                       |  | 0.16                         | 89.0  | 166.50  | 163.51                            | 3.36%  | 3.36%  | 72.7   | 4.05   | 0.04  | 0.37  | 0.97  | 0.36   | 4.10  | 4.10                                | Start of Run - existing (200  |
| Study                                | 6   | J-D   | 2+235   | 2+020                                     | 0  | 0  | 0.06                         | 2.17                                       |  | 2.17                         | 215.0   | 163.51  | 162.06                            | 0.67%  | 0.25%  | 100.8  | 2.64   | 0.82  | 1.00  | 0.33  | 0.33   | 10.81   | 46.84                               | Receiving from J  |
|                                      | 7   | E-D   | E   | 2+020                                     | 0  | 0  | 0.00                         | 0.00                                       |  | 0.00                         | 20.0  | 162.16  | 162.06                            | 0.50%  | 0.50%  | 72.7   | 1.56   | 0.00  | 0.00  | 0.38  | 0.00   | #DIV/0!   | #DIV/0!                             | Start of Run - proposed   |
|                                      | 88  | D-F   | 4+008   | 3+126                                     | 0  | 0  | 1.29                         | 3.46                                       |  | 3.46                         | 882.0   | 162.06  | 144.95                            | 1.94%  | 0.50%  | 148.5  | 10.48  | 0.33  | 0.76  | 0.61  | 0.46   | 31.96   | 78.80                               | Receiving from D  |
|                                      | 9   | F-G   | 3+126   | 2+836                                     | 0  | 0  |                              | 3.46                                       |  | 3.46                         | 290.0   | 144.95  | 128.79                            | 5.57%  | 0.32%  | 148.5  | 8.45   | 0.41  | 0.81  | 0.49  | 0.39   | 12.27   | 91.07                               | Receiving from F  |
| DESIGN ASSUMPTIONS:                  |   |   |   | Residential:                              |  | Commercial:  |                              |  | PROJECT: Cramahe-Colborne Industrial Park-Updated for Capacity Study |                              |   |   |                                   | DESIGNED BY:<br>G.Dumencu                          |  |  | LOCATION: DATE: Township of Cramahe, Ontario   |   |   | 2008/04/21  |  |   |                                     |   |
|                                      | Manning's co  |   |   |   | 0.013  |  |                              |  |  |                              |   |   |                                   |  |  |  |  |   |   |   |  |   |                                     |   |
| R = Maximum peak flow design ratio = |   |   |   | 60%                                       |  |  | PROJECT NO.                  |  |  |                              |   |   | 0.120,122                         |  |  |  | WATERSHED: REVISED:  |   |   |   |  |   |                                     |   |
| v = Minimum flow velocity =          |   |   | 0.15 m/s  |   |  |  | 04001                        |  |  |                              |   | Y.Wang  |                                   |  |  | Colborne Wastewater Treatment Plant  |  |   |   |   |  |   |                                     |   |
|                                      |   |   |   |   | 27,000   |  |                              |  |  | 1                            | 04001   |   |                                   |  |  | 1  | Y.Wang   |   |   | Colborne V  | vastewater i re  | eatment Plant   | 1                                   | 2017/07/19  |
|                                      |   | y per capita flow   | v =   |   | 350  | L/person/day   |                              | L/empl/shift                               |  |                              | 04001   |   |                                   |  |  |  | Y.Wang   |   |   | Colborne V  | vastewater i re  | eatment Plant   |                                     | 2017/07/19  |
| q =                                  | Average daily   | y per capita flow   |   |   | 350<br>3.1   | L/person/day<br>pers/residence   | 10                           | hr/shift                                   |  |                              | 04001   |   | to patrice                        |  |  | -  |  |   |   |   |  |   | L                                   |   |
| q =<br>I =                           | Average daily   | y per capita flow<br>aneous flow (ne  |   |   | 350<br>3.1<br>0  | L/person/day   | 10<br>0                      |  |  | C                            | 04001   | ΑF  | RF                                | <b>O</b> R   | D  | This docum   | ment has been<br>n with the proje  | ect for which is w  | vas prepared a  | property of Clea  | arford Industrie<br>I proprietary to                                       | s Inc. It is subm<br>Clearford Indus  | tries Inc. The                      | cified user solely for its use  |
| q =<br>I =<br>M =                    | Average daily  Average extra  Peaking Fact  | y per capita flow<br>raneous flow (ne<br>tor =                                  |   |   | 350<br>3.1<br>0  | L/person/day<br>pers/residence<br>L/cap/d  | 10<br>0                      | hr/shift<br>L/cap/d                        |  | C                            |   | AF  | RF(                               | OR<br>N K2K 3G4                                    |  | This docum   | ment has been<br>n with the proje<br>his document to   | ect for which is wo   | vas prepared a<br>arford Industric  | property of Clea<br>and is to be held<br>es Inc. upon rec                     | arford Industrie<br>I proprietary to<br>quest, and not                     | s Inc. It is subm<br>Clearford Indus<br>to reproduce, co                      | tries Inc. The oppy, lend, trans    | cified user solely for its use<br>user agrees by the accepta<br>mit or otherwise disclose o   |
| q =<br>I =                           | Average daily  Average extra  Peaking Fact  | y per capita flow<br>raneous flow (ne<br>tor =                                  | ew) =   | Special                                   | 350<br>3.1<br>0  | L/person/day<br>pers/residence<br>L/cap/d  | 10<br>0                      | hr/shift<br>L/cap/d                        |  |                              | 100-515 L   |   |                                   | R, K2K 3G4   |  | This docum   | ment has been<br>n with the proje<br>his document to   | ect for which is wo   | vas prepared a<br>arford Industric  | property of Clea<br>and is to be held<br>es Inc. upon rec                     | arford Industrie<br>I proprietary to<br>quest, and not                     | s Inc. It is subm<br>Clearford Indus<br>to reproduce, co                      | tries Inc. The oppy, lend, trans    | cified user solely for its use  |
| q = I = M = Commercial Flow          | Average daily Average extra Peaking Fact Assumptions:   | y per capita flow<br>raneous flow (ne<br>tor =                                  | ew) =   | Special<br>Peak Flow                      | 350<br>3.1<br>0<br>2   | L/person/day<br>pers/residence<br>L/cap/d  | 10<br>0                      | hr/shift<br>L/cap/d                        |  |                              | 100-515 L   |   |                                   | <b>OR</b><br>N, K2K 3G4<br>-Free: 1-866-2          |  | This docum   | ment has been<br>n with the proje<br>his document to   | ect for which is wo   | vas prepared a<br>arford Industric  | property of Clea<br>and is to be held<br>es Inc. upon rec                     | arford Industrie<br>I proprietary to<br>quest, and not                     | s Inc. It is subm<br>Clearford Indus<br>to reproduce, co                      | tries Inc. The oppy, lend, trans    | cified user solely for its use<br>user agrees by the accepta<br>mit or otherwise disclose or  |
| q = I = M = Commercial Flow          | Average daily  Average extre Peaking Fact Assumptions:  Jser  | y per capita flow<br>raneous flow (ne<br>tor =                                  | ew) =   | Special<br>Peak Flow<br>0.14              | 350<br>3.1<br>0  | L/person/day<br>pers/residence<br>L/cap/d<br>for SBS   | 10<br>0                      | hr/shift<br>L/cap/d                        |  |                              | 100-515 L   |   |                                   |  |  | This docum   | ment has been<br>n with the proje<br>his document to   | ect for which is wo   | vas prepared a<br>arford Industric  | property of Clea<br>and is to be held<br>es Inc. upon rec                     | arford Industrie<br>I proprietary to<br>quest, and not                     | s Inc. It is subm<br>Clearford Indus<br>to reproduce, co                      | tries Inc. The oppy, lend, trans    | cified user solely for its use<br>user agrees by the accepta<br>mit or otherwise disclose or  |
| q =                                  | Average daily Average extra Peaking Fact Assumptions:   | y per capita flow<br>raneous flow (ne<br>tor =                                  | Average<br>Flow (L/s)   | Peak Flow                                 | 350<br>3.1<br>0<br>2   | L/person/day<br>pers/residence<br>L/cap/d<br>for SBS   | 10<br>0                      | hr/shift<br>L/cap/d                        |  |                              | 100-515 L   |   |                                   |  |  | This docum   | ment has been<br>n with the proje<br>his document to   | ect for which is wo   | vas prepared a<br>arford Industric  | property of Clea<br>and is to be held<br>es Inc. upon rec                     | arford Industrie<br>I proprietary to<br>quest, and not                     | s Inc. It is subm<br>Clearford Indus<br>to reproduce, co                      | tries Inc. The oppy, lend, trans    | cified user solely for its use<br>user agrees by the accepta<br>mit or otherwise disclose or  |
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| q =                                  | = Average daily<br>= Average extra<br>= Peaking Fact<br>/ Assumptions:<br>Jser<br>CCC Plastics<br>EMS Building  | y per capita flow raneous flow (netor = :                                       | Average<br>Flow (L/s)<br>0.16<br>0.10   | 0.14<br>1.11                              | 350 3.1 0 2 Comments Domestic + Pro  | L/person/day pers/residence L/cap/d for SBS  cess Water ck Wash cess Water                       | 10<br>0                      | hr/shift<br>L/cap/d                        |  | Tel: 613-5                   | 100-515 L<br>99-6474, F   | ax: 613-599                                     | -7478, Toll                       | -Free: 1-866-2                                     | 231-1104   | This documention or use of the dispose of the dispose of the ments meeting the control of the dispose of the di | ment has been in with the proje this document to the contents, o   | ect for which is w<br>o return it to Cle<br>directly or indirec   | vas prepared a<br>arford Industric<br>ctly, and not to                                      | property of Clea<br>and is to be held<br>es Inc. upon rec<br>use it for any p | arford Industrie<br>I proprietary to<br>quest, and not<br>surpose other to | s Inc. It is subm<br>Clearford Indus<br>to reproduce, co<br>han that for whic | tries Inc. The oppy, lend, trans    | cified user solely for its use<br>user agrees by the accepta<br>mit or otherwise disclose o   |
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