# 2017 McQUESTEN BROOK WATERSHED VRAP DATA

Measurements not meeting New Hampshire surface water quality standards
Measurements not meeting NHDES quality assurance/quality control standards

[A] Specific conductance > 835 µS/cm indicate exceedance of chronic chloride standard of 230 mg/L
[B] Chronic water quality standard

## 05-MQB, McQuesten Brook, South Main Street, Manchester

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (µS/cm) | Water Temp. (°C) | Chloride (mg/L) |
|---|---|---|---|---|---|---|---|---|
| **Standard** | **NA** | **>5.0** | **>75% Daily Average** | **6.5-8.0** | **<10 NTU above background** | **<835 µS/cm[A]** | **NA** | **230[B]** |
| **06/28/2017** | 10:44 | 9.68 | 90.7 | 6.63 | 1.38 | 549.0 | 12.3 | |
| **07/12/2017** | 10:54 | 9.38 | 89.3 | 6.32 | 1.03 | 584.0 | 13.1 | |
| **08/09/2017** | 11:54 | 8.53 | 81.2 | 6.46 | 0.86 | 555.0 | 13.3 | 220 |
| **09/27/2017** | 10:36 | 9.74 | 93.6 | 6.42 | 0.49 | 532.0 | 13.4 | |

## 04A-MQB, McQuesten Brook, Former Deep Spot of McQuesten Pond, Manchester

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (µS/cm) | Water Temp. (°C) | Chloride (mg/L) |
|---|---|---|---|---|---|---|---|---|
| **Standard** | **NA** | **>5.0** | **>75% Daily Average** | **6.5-8.0** | **<10 NTU above background** | **<835 µS/cm[A]** | **NA** | **230[B]** |
| **06/28/2017** | 11:18 | 7.89 | 84.4 | 6.52 | 4.84 | 551.0 | 18.7 | |
| **07/12/2017** | 11:11 | 7.45 | 82.7 | 6.29 | 6.83 | 551.0 | 20.5 | |
| **08/09/2017** | 12:11 | 8.21 | 92.5 | 6.38 | 5.06 | 557.0 | 21.1 | 216 |
| **09/27/2017** | 11:05 | 8.46 | 90.8 | 6.35 | 2.65 | 552.0 | 18.7 | |

## 03D-MQB, McQuesten Brook, Hale Road Culvert, Manchester

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (µS/cm) | Water Temp. (°C) | Chloride (mg/L) |
|---|---|---|---|---|---|---|---|---|
| **Standard** | **NA** | **>5.0** | **>75% Daily Average** | **6.5-8.0** | **<10 NTU above background** | **<835 µS/cm[A]** | **NA** | **230[B]** |
| **06/28/2017** | 11:00 | 7.89 | 80.0 | 6.85 | 3.19 | 1782 | 15.6 | |
| **07/12/2017** | 10:38 | 7.60 | 79.3 | 6.83 | 6.28 | 1878 | 17.2 | |
| **08/09/2017** | 11:43 | 6.33 | 67.1 | 7.02 | 6.19 | 1922 | 18.0 | 730 |
| **09/27/2017** | 10:25 | 7.67 | 82.6 | 7.19 | 5.69 | 1880 | 18.3 | |

## 03-MQB, McQuesten Brook, McQuesten Pond Outlet, Manchester

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (µS/cm) | Water Temp. (°C) | Chloride (mg/L) |
|---|---|---|---|---|---|---|---|---|
| **Standard** | **NA** | **>5.0** | **>75% Daily Average** | **6.5-8.0** | **<10 NTU above background** | **<835 µS/cm[A]** | **NA** | **230[B]** |
| **06/28/2017** | 10:30 | 8.24 | 83.0 | 6.61 | 3.01 | 582.0 | 15.5 | |
| **07/12/2017** | 10:28 | 8.64 | 88.2 | 6.47 | 4.57 | 588.0 | 16.3 | |
| **08/09/2017** | 11:26 | 8.50 | 87.9 | 6.53 | 2.01 | 583.0 | 16.7 | 201 |
| **09/27/2017** | 10:10 | 8.63 | 85.7 | 6.45 | 2.23 | 284.2 | 15.3 | |

## 02-MQB, McQuesten Brook, Wathen Road Culvert, Bedford

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (µS/cm) | Water Temp. (°C) | Chloride (mg/L) | *E. coli* (cts/100ml) |
|---|---|---|---|---|---|---|---|---|---|
| **Standard** | **NA** | **>5.0** | **>75% Daily Average** | **6.5-8.0** | **<10 NTU above background** | **<835 µS/cm[A]** | **NA** | **230[B]** | **<406** |
| **06/28/2017** | 10:12 | 8.80 | 85.0 | 6.80 | 1.85 | 618.0 | 13.7 | 200 | 730 |
| **07/12/2017** | 10:02 | 8.87 | 88.3 | 6.60 | 2.84 | 634.0 | 15.1 | 186 | 280 |
| **08/09/2017** | 11:11 | 8.34 | 83.0 | 6.63 | 1.84 | 625.0 | 15.1 | 210 | 270 |
| **09/27/2017** | 10:00 | 8.63 | 86.0 | 6.66 | 2.30 | 615.0 | 15.2 | | |

| Date | Time of Sample | Total Phosphorus (mg/L) | Total Kjeldahl Nitrogen (mg/L) | Nitrite (NO2) + Nitrate(NO3) (mg/L) | Total Nitrogen (mg/L) [C] |
|---|---|---|---|---|---|
| **Standard** | **NA** | **Narrative** | **Narrative** | **Narrative** | **Narrative** |
| **06/28/2017** | 10:12 | 0.029 | 0.37 | 2.70 | 3.07 |
| **07/12/2017** | 10:02 | 0.021 | 0.31 | 2.90 | 3.21 |
| **08/09/2017** | 11:11 | 0.019 | 0.33 | 2.80 | 3.13 |

## 01-MQB, McQuesten Brook, Riverway Place Culvert, Bedford

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (µS/cm) | Water Temp. (°C) | Chloride (mg/L) |
|---|---|---|---|---|---|---|---|---|
| **Standard** | **NA** | **>5.0** | **>75% Daily Average** | **6.5-8.0** | **<10 NTU above background** | **<835 µS/cm[A]** | **NA** | **230[B]** |
| **06/28/2017** | 9:50 | 6.64 | 68.5 | 6.68 | 0.75 | 2121 | 16.5 | |
| **07/12/2017** | 9:45 | 5.99 | 64.2 | 6.68 | 2.69 | 2264 | 18.2 | |
| **08/09/2017** | 10:52 | 6.49 | 70.2 | 6.75 | 1.15 | 2235 | 19.0 | 773 |
| **09/27/2017** | 9:40 | 6.33 | 65.7 | 6.91 | 1.68 | 2164 | 19.3 | |