

2015 BAKER RIVER WATERSHED VRAP DATA

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

^A Specific conductance > 835 $\mu\text{S}/\text{cm}$ indicate exceedance of chronic chloride standard of 230 mg/L

^B Chronic water quality standard

^C Calculated using 1/2 of the 0.25 mg/L detection limit of Total Kjeldahl Nitrogen (0.125 mg/L) and/or 1/2 of the 0.05 mg/L detection limit for nitrate (NO_3) + nitrite (NO_2) (0.025 mg/L)

11-BKR, Baker River, Mooselauke Bridge, Warren

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance ($\mu\text{S}/\text{cm}$) | Water Temp. ($^{\circ}\text{C}$) | Chloride (mg/L) | <i>E. coli</i> (CTS/100mL) |
|------------|----------------|-----------|--------------------|---------|--------------------------|--|------------------------------------|------------------------|----------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835 $\mu\text{S}/\text{cm}$ ^A | NA | <230 mg/L ^B | <406 |
| 06/08/2015 | 08:12 | | | | | | | 9 | <10 |
| 07/06/2015 | 07:23 | | | | | | | 4 | <10 |
| 08/05/2015 | 09:31 | 8.51 | 81.5 | 6.42 | 0.2 | 32.8 | 15.4 | | |
| 08/10/2015 | 08:55 | | | | | | | 5 | <10 |
| 09/01/2015 | 11:15 | 7.89 | 101.5 | 6.29 | 0.3 | 31.6 | 18.5 | | |
| 09/08/2015 | 07:05 | | | | | | | <3 | <10 |

06A-BKR, Baker River, Silver Bridge, Saunders Hill Road, Wentworth

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | Chloride (mg/L) | <i>E. coli</i> (CTS/100mL) |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|------------------------|----------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <230 mg/L ^B | <406 |
| 06/08/2015 | 08:50 | | | | | | | 12 | 30 |
| 07/06/2015 | 08:24 | | | | | | | 8 | 20 |
| 08/06/2015 | 11:18 | 7.68 | 79.6 | 6.51 | 0.3 | 66.3 | 18.0 | | |
| 09/02/2015 | 11:08 | 8.82 | 95.7 | 6.26 | 0.4 | 80.6 | 19.1 | | |
| 09/08/2015 | 08:35 | | | | | | | 14 | 50 |

06-SBR, South Branch Baker River, North Dorchester Road Bridge, Wentworth - NHDES Trend Station

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | Chloride (mg/L) | <i>E. coli</i> (CTS/100mL) | <i>E. coli</i> Geometric Mean |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|------------------------|----------------------------|-------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <230 mg/L ^B | <406 | <126 |
| 04/08/2015 | 12:25 | 14.42 | 100.9 | 6.09 | 2.2 | 56.1 | 0.7 | 11 | <10 | |
| 06/29/2015 | 09:35 | 9.95 | 97.1 | 6.75 | 2.0 | 40.8 | 14.1 | 6 | 230 | |
| 07/27/2015 | 09:30 | 8.54 | 89.4 | 6.88 | 0.6 | 63.2 | 18.5 | 10 | <10 | |
| 08/10/2015 | 08:55 | | | | | | | 15 | 20 | 28 |
| 08/25/2015 | 09:40 | 8.73 | 96.6 | 6.82 | 0.6 | 66.4 | 20.0 | 10 | 510 | 37 |

| Date | Time of Sample | Total Phosphorus | Nitrite (NO ₂) + Nitrate (NO ₃) (mg/L) | Total Kjeldahl Nitrogen (TKN) (mg/L) | Total Nitrogen (mg/L) |
|------------|----------------|------------------|--|--------------------------------------|-----------------------|
| Standard | NA | NA | NA | NA | NA |
| 04/08/2015 | 12:25 | 0.0109 | 0.12 | < 0.25 | 0.245 ^C |
| 06/29/2015 | 09:35 | 0.0150 | <0.05 | 0.28 | 0.305 ^C |
| 07/27/2015 | 09:30 | 0.0078 | 0.10 | 0.48 | 0.578 |
| 08/25/2015 | 09:40 | 0.0054 | 0.10 | < 0.25 | 0.224 ^C |

05-BKR, Baker River, Sandhill Bridge, Rumney

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | Chloride (mg/L) | <i>E. coli</i> (CTS/100mL) |
|------------|----------------|-----------------|--------------------|---------|--------------------------|------------------------------|------------------|------------------------|----------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <230 mg/L ^B | <406 |
| 06/08/2015 | 09:15 | | | | | | | 10 | 30 |
| 07/05/2015 | 12:05 | 9.44 | 100.4 | 6.35 | 0.8 | 41.7 | 18.1 | | |
| 07/06/2015 | 07:20 | | | | | | | 7 | 50 |
| 08/10/2015 | 08:15 | | | | | | | 13 | 30 |
| 09/08/2015 | 08:15 | 7.91 | 88.0 | 6.31 | 0.5 | 86.0 | 20.5 | 12 | 50 |

04G-BKR, Baker River, USGS Gage Station, Rumney

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | Chloride (mg/L) | <i>E. coli</i> (CTS/100mL) |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|------------------------|----------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <230 mg/L ^B | <406 |
| 06/08/2015 | 09:30 | | | | | | | 10 | 20 |
| 07/05/2015 | 11:40 | 9.34 | 101.5 | 6.39 | 0.8 | 51.2 | 18.0 | | |
| 07/06/2015 | 07:34 | | | | | | | 7 | 40 |
| 08/10/2015 | 08:25 | | | | | | | 13 | 70 |
| 09/08/2015 | 08:43 | 8.43 | 94.3 | 6.33 | 0.7 | 86.0 | 20.6 | 12 | 260 |

04-BKR, Baker River, Stinson Lake Road Bridge/New Town Bridge, Rumney

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | Chloride (mg/L) | <i>E. coli</i> (CTS/100mL) |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|------------------------|----------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <230 mg/L ^B | <406 |
| 06/08/2015 | 08:15 | | | | | | | 11 | 40 |
| 07/05/2015 | 11:05 | 9.71 | 102.9 | 6.21 | 0.5 | 51.9 | 18.7 | | |
| 07/06/2015 | 07:43 | | | | | | | 7 | 100 |
| 08/10/2015 | 08:35 | | | | | | | 15 | 10 |
| 09/08/2015 | 08:55 | 7.95 | 88.9 | 6.41 | 0.6 | 92.0 | 20.9 | 12 | 30 |

03-BKR, Baker River, Route 25 D/S of School Street & Gravel Pit, Rumney

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | Chloride (mg/L) | <i>E. coli</i> (CTS/100mL) |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|------------------------|----------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <230 mg/L ^B | <406 |
| 06/08/2015 | 08:35 | | | | | | | 11 | 20 |
| 07/05/2015 | 10:25 | 8.63 | 91.2 | 6.43 | 0.7 | 52.0 | 17.6 | | |
| 07/06/2015 | 07:43 | | | | | | | 7 | 50 |
| 08/10/2015 | 08:55 | | | | | | | 14 | 70 |
| 09/08/2015 | 09:15 | 7.92 | 91.5 | 6.37 | 1.0 | 92.6 | 22.5 | 13 | 100 |

02-BKR, Baker River, Covered Bridge/Smith Bridge Road, Plymouth

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | Chloride (mg/L) | <i>E. coli</i> (CTS/100mL) |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|------------------------|----------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <230 mg/L ^B | <406 |
| 06/08/2015 | 08:20 | | | | | | | 12 | 20 |
| 07/06/2015 | 08:40 | 9.34 | 97.7 | 5.88 | 0.8 | 54.5 | 17.6 | 8 | 40 |
| 08/10/2015 | 07:55 | | | | | | | 16 | 40 |
| 09/08/2015 | 07:48 | 7.66 | 85.6 | 6.24 | 1.1 | 105.0 | 21.0 | 15 | 110 |

01A-BKR, Baker River, Tenney Mountain Highway Bridge, Plymouth

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | Chloride (mg/L) | <i>E. coli</i> (CTS/100mL) |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|------------------------|----------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <230 mg/L ^B | <406 |
| 06/08/2015 | 08:05 | | | | | | | 12 | 30 |
| 07/06/2015 | 08:40 | 9.01 | 93.5 | 5.73 | 1.0 | 55.3 | 17.3 | 8 | 120 |
| 08/10/2015 | 07:42 | | | | | | | 16 | 70 |
| 09/08/2015 | 07:25 | 7.19 | 80.0 | 6.37 | 1.3 | 109.0 | 20.7 | 16 | 90 |

01-BKR, Baker River, Green Bridge (Route 3/25 Bridge), Plymouth

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | Chloride (mg/L) | <i>E. coli</i> (CTS/100mL) |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|------------------------|----------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <230 mg/L ^B | <406 |
| 06/08/2015 | 07:50 | | | | | | | 12 | 10 |
| 07/06/2015 | 00:00 | 8.81 | 92.4 | 5.74 | 1.1 | 58.8 | 17.3 | 9 | 310 |
| 08/10/2015 | 07:05 | | | | | | | 18 | 80 |
| 09/08/2015 | 07:00 | 7.57 | 84.3 | 6.29 | 1.3 | 122.5 | 20.9 | 17 | 130 |