

2012 ISINGLASS RIVER 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 $\mu\text{S}/\text{cm}$ indicate exceedance of chronic chloride standard of 230 mg/L

^B Chronic water quality standard

12-ISG, Isinglass River, Province Road Bridge, Strafford

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance ($\mu\text{S}/\text{cm}$) | Water Temp. ($^{\circ}\text{C}$) |
|-----------------|----------------|-----------|--------------------|---------|--------------------------|--|------------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835 $\mu\text{S}/\text{cm}^{\text{A}}$ | NA |
| 08/30/2012 | 18:55 | 7.70 | 91.1 | 5.76 | 0.0 | 48.0 | 23.9 |

11-ISG, Isinglass River, Route 202A Bridge, Strafford

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance ($\mu\text{S}/\text{cm}$) | Water Temp. ($^{\circ}\text{C}$) |
|-----------------|----------------|-----------|--------------------|---------|--------------------------|--|------------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835 $\mu\text{S}/\text{cm}^{\text{A}}$ | NA |
| 06/17/2012 | 11:10 | 7.31 | 80.2 | 5.76 | 0.89 | 49.5 | 19.4 |
| 07/28/2012 | 11:15 | 4.42 | 50.4 | 5.30 | 0.89 | 56.9 | 22.1 |

08-ISG, Isinglass River, Route 126 Bridge, Barrington

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance ($\mu\text{S}/\text{cm}$) | Water Temp. ($^{\circ}\text{C}$) |
|------------|----------------|-----------|--------------------|---------|--------------------------|--|------------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835 $\mu\text{S}/\text{cm}^{\text{A}}$ | NA |
| 06/17/2012 | 10:32 | | 82.8 | 5.54 | 0.31 | 52.3 | 18.9 |
| 07/28/2012 | 10:55 | 7.09 | 82.8 | 5.60 | 1.25 | 63.6 | 23.2 |
| 08/30/2012 | 17:55 | 6.61 | 77.1 | 5.54 | 0.53 | 58.0 | 22.9 |

07-ISG, Isinglass River, Route 202 Bridge, Barrington

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance ($\mu\text{S}/\text{cm}$) | Water Temp. ($^{\circ}\text{C}$) |
|------------|----------------|-----------|--------------------|---------|--------------------------|--|------------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835 $\mu\text{S}/\text{cm}^{\text{A}}$ | NA |
| 06/17/2012 | 10:15 | 8.51 | 92.2 | 5.62 | 0.92 | 51.9 | 18.6 |
| 07/28/2012 | 10:40 | 7.33 | 84.8 | 6.14 | 1.02 | 72.8 | 22.8 |
| 08/30/2012 | 17:40 | 7.73 | 89.6 | 6.03 | 0.41 | 61.0 | 22.7 |

04-ISG, Isinglass River, Green Hill Road Bridge, Barrington

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance ($\mu\text{S}/\text{cm}$) | Water Temp. ($^{\circ}\text{C}$) |
|------------|----------------|-----------|--------------------|---------|--------------------------|--|------------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835 $\mu\text{S}/\text{cm}^{\text{A}}$ | NA |
| 06/17/2012 | 9:55 | 9.27 | 97.7 | 5.89 | 1.04 | 54.0 | 17.8 |
| 07/28/2012 | 10:07 | 8.46 | 97.7 | 6.42 | 0.38 | 85.3 | 22.8 |
| 08/30/2012 | 17:10 | 7.54 | 88.4 | 6.29 | 0.07 | 70.0 | 22.9 |

03-ISG, Isinglass River, Route 125 Bridge, Rochester

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (µS/cm) | Water Temp. (°C) |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835 µS/cm ^A | NA |
| 06/17/2012 | 9:35 | 8.26 | 86.3 | 6.03 | 1.2 | 59.8 | 17.5 |
| 07/28/2012 | 9:47 | 6.17 | 71.1 | 5.88 | 1.4 | 106.6 | 22.6 |
| 08/30/2012 | 16:50 | 6.29 | 71.4 | 5.76 | 0.4 | 85.8 | 22.3 |

02-ISG, Isinglass River, Rochester Neck Road Bridge, Rochester

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (µS/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 | 835 µS/cm ^A | NA | <230 mg/L ^B | <406 |
| 06/17/2012 | 8:25 | 8.80 | 90.3 | 5.91 | 1.60 | 60.7 | 17.9 | | |
| 07/05/2012 | 9:24 | | | | | | | 16 | 60 |
| 07/26/2012 | 10:10 | 6.36 | 70.8 | 5.90 | 6.41 | 42.70 | 20.8 | 24 | 140 |
| 07/28/2012 | 9:30 | 7.25 | 81.2 | 6.11 | 3.29 | 127.5 | 21.1 | | |
| 08/21/2012 | | 7.82 | 86.9 | 5.97 | 1.91 | 81.60 | 20.7 | 10 | |
| 08/30/2012 | 16:15 | 8.42 | 89.5 | 5.82 | 0.60 | 94.1 | 20.2 | | |

| Date | Time of Sample | Total Phosphorus | Total Kjeldahl Nitrogen (TKN) (mg/L) | Nitrite (NO ₂) + Nitrate (NO ₃) (mg/L) | Total Nitrogen (mg/L) |
|------------|----------------|------------------|--------------------------------------|--|-----------------------|
| Standard | NA | NA | NA | NA | NA |
| 07/05/2012 | 9:24 | 0.027 | 0.35 | 0.097 | 0.447 |
| 07/26/2012 | 10:10 | 0.024 | <0.25 | 0.110 | 0.235 |
| 08/21/2012 | | 0.020 | 0.38 | | |