

St. Louis River Data - Esko Schools

| Test | 5/6/1998 | 10/7/1998 | 5/12/1999 | 10/6/1999 | 5/3/2000 | 10/4/2000 | Test | 5/16/2001 | 10/9/2001 | 5/10/2002 | 10/2/2002 |
|--------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|--------------------|------------------|------------------|------------------|------------------|
| Air °C | | | | | | | Air °C | | | 14 | 9 |
| Water °C | 16 | 12 | 10 | 9 | 14 | 12.333 | Water °C | 14 | 12 | 9 | 14 |
| Transparency | | | | | 107.4 | | Transparency | 70 | ≥120 | | 117 |
| Turbidity | | | | | | | Turbidity | | | | |
| Dissolve Oxygen | 7.5 | 8 | 8.75 | 10 | 9 | 9 | Dissolve Oxygen | 9.5 | 10 | 10 | 9 |
| % Saturation | 76 | 74 | 78 | 85 | 84 | | % Saturation | 92 | | 86.5 | 91 |
| pH | 7.5 | 7.66 | 7.5 | 7.25 | 7.5 | 7.75 | pH | 7.5 | 7.5 | 7.6 | 7.67 |
| | | | | | | | | | | | |
| Nitrate | 0.088 | 4.4 | | 0.088 | | 0.14 | Nitrate | 0 | 0 | 0 | 0 |
| Phosphate | | | | | | | Phosphate | | 0.06 | 0 | 0 |
| BOD | 1.75 | 1 | 2 | 1 | 3 | 1 | BOD | 2 | | 3 | 3 |
| Stream Flow | | | | | | | Stream Flow | | | | |
| Bacteria | | | | | | | Bacteria | | | | |
| BMI Tally | 5/7/1998 | 10/7/1998 | 5/5/1999 | 10/6/1999 | 5/3/2000 | 10/4/2000 | BMI Tally | 5/16/2001 | 10/9/2002 | 5/10/2002 | 10/2/2002 |
| Stonefly | | | 3 | | | | Stonefly | | | | |
| Dobsonfly | | | 2 | | | | Dobsonfly | | | | |
| Snipe Fly | | | | | | | Snipe Fly | | | | |
| Alderfly | | | | | | | Alderfly | | | | |
| Caddisfly | 5 | 3 | 4 | 8 | 1 | 21 | Caddisfly | 2 | | 4 | 5 |
| Crane fly | | | | | | | Crane fly | 2 | | | |
| Dragonfly | 7 | 9 | 2 | 16 | | 14 | Dragonfly | | | | 1 |
| Clam | 4 | | 3 | 1 | | 4 | Clam | 2 | | | |
| Water Penny | | | | | | | Water Penny | | | | |
| Riffle Beetle | | | | | | | Riffle Beetle | 1 | | | |
| Crayfish | 1 | | 1 | 1 | | 1 | Crayfish | 1 | | 1 | |
| Damselfly | 10 | 11 | 3 | 30 | | 40 | Damselfly | 9 | | 7 | 15 |
| Mayfly | 25 | 13 | 81 | 22 | 2 | 18 | Mayfly | 28 | | 11 | 13 |
| Blackfly | | | | | | | Blackfly | | | | |
| Gilled/OrbSnail | 10 | 10 | 20 | 37 | | 7 | Gilled/OrbSnail | | | 1 | |
| Non-red Midge | | | 55 | 4 | | | Non-red Midge | | | | |
| Scud | 55 | 43 | 192 | 51 | 99 | 79 | Scud | 358 | | 42 | 76 |
| Pouch Snail | 20 | 15 | 40 | 60 | 4 | 20 | Pouch Snail | 5 | | 12 | 4 |
| Leech | 1 | | | | | | Leech | | | | |
| Sowbug | 5 | | 3 | | | 1 | Sowbug | 2 | | 5 | |
| Bloodworm | 23 | | 60 | 6 | 7 | 1 | Bloodworm | 26 | | 56 | 36 |
| Worms | 3 | | 18 | 1 | | | Worms | | | | |
| Index Score | 2.1 | 2.4 | 2.4 | 2.3 | 2 | 2.3 | Index Score | 2.4 | | 2.2 | 2.3 |

St. Louis River Data - Esko Schools

| 5/7/2003 | 10/10/2003 | Test | 5/5/2004 | 10/6/2004 | 5/1/2005 | 10/12/2005 | 5/3/2006 | 10/4/2006 | 5/2/2007 | Averages | 10/5/2007 | 5/2/2008 |
|----------|------------|--------------------|----------|-----------|----------|------------|----------|-----------|----------|----------|-----------|----------|
| 20 | 31 | Air °C | 10 | 23.5 | | 11 | 11 | 21 | 12.2 | 16.27 | 15 | 12.2 |
| 11 | 13.66 | Water °C | 14 | 12.5 | | 10 | 13 | 13.5 | 13.4 | 12.41 | 14.3 | 13.4 |
| 65 | 103.2 | Transparency | 66.25 | 71.6 | | 120 | 65 | 62 | 78 | 84.13 | 62.5 | 78 |
| | | Turbidity | | | | | | | | | | |
| 10.75 | 10.5 | Dissolve Oxygen | 12 | 12.5 | | 15.5 | 13.5 | 10 | 13 | 10.47 | 11 | 13 |
| 93 | 96 | % Saturation | | 112 | | 125 | 122 | 95 | 110 | 94.63 | 104 | 110 |
| 7.5 | 8 | pH | 7.75 | 7.5 | | 8 | 7.25 | 8 | 7.5 | 7.61 | 8 | 7.5 |
| | | | | | | | | | | | | |
| 0 | 0 | Nitrate | 0 | 0 | | 0 | 0 | 0 | 0 | 0.29 | 0 | 0 |
| 0 | 0 | Phosphate | 0 | 5.5 | | 2 | 0.5 | 0 | 0 | 0.73 | 0 | 0 |
| 3 | 2.5 | BOD | | 2 | | 5.5 | 2.5 | 1 | | 2.28 | 3 | |
| | | Stream Flow | | | | | | | | | | |
| | | Bacteria | | | | | | | | | | |
| 5/7/2003 | 10/10/2003 | BMI Tally | 5/5/2004 | 10/6/2004 | 5/1/2005 | 10/12/2005 | 5/3/2006 | 10/4/2006 | 5/2/2007 | Averages | 10/5/2007 | 5/2/2008 |
| | | Stonefly | | | | | | | | 3.00 | 1 | |
| | | Dobsonfly | | | | | | | | 2.00 | | |
| | | Snipe Fly | | | | | 1 | | | 1.00 | 1 | |
| | | Alderfly | | | | | | | | | | |
| | | Caddisfly | 5 | 11 | | 7 | 4 | 18 | 1 | 6.60 | 1 | 1 |
| | | Crane fly | | | | | | | 1 | 1.50 | | 1 |
| 1 | | Dragonfly | 1 | | | 3 | 1 | | | 5.50 | | |
| 3 | | Clam | 1 | 1 | | 1 | 2 | 5 | | 2.45 | | |
| | | Water Penny | | | | | | | | | | |
| | | Riffle Beetle | | | | | | | 1 | 1.00 | | 1 |
| | | Crayfish | | 1 | | 2 | | 3 | | 1.33 | | |
| 1 | 17 | Damselfly | 3 | 30 | | 30 | | 32 | 4 | 16.13 | 8 | 4 |
| 17 | 20 | Mayfly | 5 | | | 10 | 34 | 10 | 1 | 19.38 | 5 | 1 |
| | | Blackfly | | | | | | | | | | |
| 1 | 14 | Gilled/OrbSnail | 18 | 1 | | 1 | 10 | | 4 | 10.31 | | 4 |
| 1 | 1 | Non-red Midge | 17 | | | | 11 | | | 14.83 | | |
| 73 | 51 | Scud | 50 | 18 | | 55 | 42 | 4 | 239 | 89.82 | 50 | 239 |
| 3 | 15 | Pouch Snail | 9 | 28 | | 5 | 1 | 4 | | 15.31 | 3 | |
| | | Leech | | | | | | | 1 | 1.00 | | 1 |
| 3 | | Sowbug | 6 | 2 | | | | | 5 | 3.56 | | 5 |
| 14 | 3 | Bloodworm | 22 | 1 | | 5 | 54 | 7 | 3 | 20.25 | 1 | 3 |
| | | Worms | 3 | | | 2 | 22 | | 11 | 8.57 | 1 | 11 |
| 2.1 | 2 | Index Score | 2.1 | 2.1 | | 2.3 | 2.3 | 2.4 | 2.2 | 2.23 | 2.4 | 2.1 |

St. Louis River Data - Esko Schools

| 10/1/2008 | Test | | 10/7/2009 |
|-----------|--------------------|--|-----------|
| 12.75 | Air °C | | 12.3 |
| 15.3 | Water °C | | 12.1 |
| 118 | Transparency | | 107 |
| 18.8 | Turbidity | | 20.773 |
| 7.25 | Dissolve Oxygen | | 11.5 |
| 76.25 | % Saturation | | 106 |
| 7.93 | pH | | 7.15 |
| | Conductivity | | 259.7 |
| 0 | Nitrate | | 0 |
| 0 | Phosphate | | 0 |
| | BOD | | |
| | Stream Flow | | 0.03 |
| | Bacteria | | |
| 10/1/2008 | BMI Tally | | 10/7/2009 |
| | Stonefly | | |
| | Dobsonfly | | |
| | Snipe Fly | | |
| | Alderfly | | |
| 11 | Caddisfly | | 4 |
| | Cranefly | | |
| | Dragonfly | | |
| | Clam | | 1 |
| | Water Penny | | |
| | Riffle Beetle | | |
| 1 | Crayfish | | 2 |
| 27 | Damselfly | | 8 |
| 13 | Mayfly | | 6 |
| | Blackfly | | |
| 7 | Gilled/OrbSnail | | 8 |
| | Non-red Midge | | |
| 200 | Scud | | 45 |
| 9 | Pouch Snail | | |
| | Leech | | |
| 1 | Sowbug | | |
| 2 | Bloodworm | | |
| | Worms | | |
| 2.1 | Index Score | | 2.7 |