Station Information

**Station Number:** S-624  
**Waterbody:** Sucker Brook (hampden) - Station 624  
**Town:** Hampden  
**Directions:** DOWNSTREAM OF OLD COUNTY ROAD  
**Log Number:** 2494  
**Type of Sample:** ROCK BAG  
**Replicates:** 3  
**Date Deployed:** 7/21/2016  
**Date Retrieved:** 8/18/2016  
**Model Result with P≥0.6:** NA  
**Final Determination:** NA  
**Reason for Determination:** Model  
**Statutory Class:** B  
**Stream Order:** 2  
**HUC8 Name:** Lower Penobscot  
**River Basin:** Penobscot  
**Latitude:** 44 46 23.74 N  
**Longitude:** 68 47 40.81 W

Sample Information

**Log Number:** 2494  
**Type of Sample:** ROCK BAG  
**Subsample Factor:** X1  
**Date Deployed:** 7/21/2016  
**Date Retrieved:** 8/18/2016  
**Date Last Calculated:** 4/5/2017  
**Report Printed:** 4/7/2017

Classification Attainment

**Statutory Class:** B  
**Final Determination:** NA  
**Reason for Determination:** Model  
**Date:** 4/7/2017

Model Probabilities

<table>
<thead>
<tr>
<th>First Stage Model</th>
<th>C or Better Model</th>
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<tbody>
<tr>
<td>Class A 0.00</td>
<td>Class A, B, or C 0.00</td>
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<tr>
<td>Class B 0.00</td>
<td>Non-Attainment 1.00</td>
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<tr>
<td>B or Better Model</td>
<td>A Model</td>
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<tr>
<td>Class A or B 0.00</td>
<td>Class A 0.00</td>
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<tr>
<td>Class C or Non-Attainment 1.00</td>
<td>Class B or C or Non-Attainment 1.00</td>
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Model Variables

<table>
<thead>
<tr>
<th>Taxon Name</th>
<th>Percent</th>
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<tbody>
<tr>
<td>Polyplectra</td>
<td>22.67</td>
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<tr>
<td>Micropsectra, Parachironomus, Helobdella</td>
<td>0.67</td>
</tr>
<tr>
<td>Cheumatopsycha</td>
<td>0.07</td>
</tr>
<tr>
<td>Acroneuria, Maccaffertium, Stenonema</td>
<td>0.33</td>
</tr>
<tr>
<td>Polypedilum</td>
<td>21.07</td>
</tr>
<tr>
<td>Girardia</td>
<td>10.00</td>
</tr>
<tr>
<td>Dubiraphia</td>
<td>10.00</td>
</tr>
<tr>
<td>Rheotanytarsus</td>
<td>21.07</td>
</tr>
<tr>
<td>Tanytarsus</td>
<td>19.73</td>
</tr>
<tr>
<td>Stenonema</td>
<td>10.53</td>
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</table>

Five Most Dominant Taxa

<table>
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<tr>
<th>Rank</th>
<th>Taxon Name</th>
<th>Percent</th>
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<tbody>
<tr>
<td>1</td>
<td>Polypedilum</td>
<td>22.67</td>
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<tr>
<td>2</td>
<td>Rheotanytarsus</td>
<td>21.07</td>
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<tr>
<td>3</td>
<td>Tanytarsus</td>
<td>19.73</td>
</tr>
<tr>
<td>4</td>
<td>Dubiraphia</td>
<td>10.53</td>
</tr>
<tr>
<td>5</td>
<td>Girardia</td>
<td>10.00</td>
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Report Printed: 4/7/2017  
Contact: biome@maine.gov or (207)287-7688
Waterbody: Sucker Brook (hampden) - Station 624

Station Number: S-624 Town: Hampden
Log Number: 2494 Waterbody: Sucker Brook (hampden) - Station 624
          Date Deployed: 7/21/2016 Date Retrieved: 8/18/2016

Sample Collection and Processing Information

Waterbody Information - Deployment

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>Temperature</td>
<td>17.9 deg C</td>
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<tr>
<td>Dissolved Oxygen</td>
<td>9.31 mg/l</td>
</tr>
<tr>
<td>Dissolved Oxygen Saturation</td>
<td>97.8 %</td>
</tr>
<tr>
<td>Specific Conductance</td>
<td>720 uS/cm</td>
</tr>
<tr>
<td>Velocity</td>
<td>9.1 cm/s</td>
</tr>
<tr>
<td>pH</td>
<td>8.01</td>
</tr>
<tr>
<td>Wetted Width</td>
<td>2.2 m</td>
</tr>
<tr>
<td>Bankfull Width</td>
<td>9 m</td>
</tr>
<tr>
<td>Depth</td>
<td>18 cm</td>
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Waterbody Information - Retrieval

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>Temperature</td>
<td>18.2 deg C</td>
</tr>
<tr>
<td>Dissolved Oxygen</td>
<td>8.6 mg/l</td>
</tr>
<tr>
<td>Dissolved Oxygen Saturation</td>
<td>91.3 %</td>
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<tr>
<td>Specific Conductance</td>
<td>579 uS/cm</td>
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<tr>
<td>Velocity</td>
<td>9.1 cm/s</td>
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<tr>
<td>pH</td>
<td>7.81</td>
</tr>
<tr>
<td>Wetted Width</td>
<td>2.9 m</td>
</tr>
<tr>
<td>Bankfull Width</td>
<td>9 m</td>
</tr>
<tr>
<td>Depth</td>
<td>18 cm</td>
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</tbody>
</table>

Summary of Habitat Characteristics

Landuse Name: Pasture  Canopy Cover: Partly Open  Terrain: Rolling
Upland Hardwood

Potential Stressor: Nutrients  Location: Below Urban NPS  Substrate: Bedrock 10 %
Urban Runoff

<table>
<thead>
<tr>
<th>Nutrients</th>
<th>Location</th>
<th>Substrate</th>
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<tr>
<td>Urban Runoff</td>
<td>Below Urban NPS</td>
<td>Bedrock 10 %</td>
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Landcover Summary - 2004 Data

<table>
<thead>
<tr>
<th>Total Area (ac)</th>
<th>High Int. Dev. %</th>
<th>Water %</th>
<th>Non-vegetated %</th>
<th>Med Int. Dev. %</th>
<th>Wetland %</th>
<th>Tilled Agriculture %</th>
<th>Low Int. Dev. %</th>
<th>Upland Woody %</th>
<th>Grassland %</th>
<th>Development %</th>
<th>Natural %</th>
<th>Human Altered %</th>
<th>Impervious %</th>
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<tbody>
<tr>
<td>1768</td>
<td>23.3</td>
<td>0.0</td>
<td>1.2</td>
<td>6.4</td>
<td>1.0</td>
<td>0.0</td>
<td>6.1</td>
<td>18.0</td>
<td>12.2</td>
<td>35.8</td>
<td>19.4</td>
<td>80.5</td>
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Sample Comments

8/18/2016: EEL NEAR ROCK BAGS.
SILTY.
<table>
<thead>
<tr>
<th>Taxon</th>
<th>Maine Taxonomic Code</th>
<th>Count (Mean of Samplers)</th>
<th>Hilsenhoff Functional Feeding Group</th>
<th>Relative Abundance %</th>
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<tbody>
<tr>
<td>Girardia</td>
<td>03010102002</td>
<td>Actual: 25.00</td>
<td>25.00</td>
<td>10.0 / 10.0</td>
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<tr>
<td>Prostoma</td>
<td>040101010001</td>
<td>Actual: 0.33</td>
<td>0.33</td>
<td>0.1 / 0.1</td>
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<tr>
<td>Naïdidae</td>
<td>08020202</td>
<td>Actual: 0.33</td>
<td>0.33</td>
<td>0.1 / 0.1</td>
</tr>
<tr>
<td>Aeshnidae</td>
<td>09020301</td>
<td>Actual: 0.33</td>
<td>0.33</td>
<td>0.1 / 0.1</td>
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<tr>
<td>Aeshna</td>
<td>090203010001</td>
<td>Actual: 0.67</td>
<td>0.67</td>
<td>0.3 / 0.3</td>
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<tr>
<td>Calopteryx</td>
<td>09020307043</td>
<td>Actual: 1.00</td>
<td>1.00</td>
<td>0.4 / 0.4</td>
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<td>Maccaffertium</td>
<td>09020402015</td>
<td>Actual: 0.33</td>
<td>0.33</td>
<td>0.1 / 0.1</td>
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<td>Nyctophylax</td>
<td>09020603009</td>
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<td>0.67</td>
<td>0.3 / 0.3</td>
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<tr>
<td>Polycentropus</td>
<td>09020603010</td>
<td>Actual: 6.00</td>
<td>6.00</td>
<td>2.4 / 2.4</td>
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<tr>
<td>Cheumatopsychus</td>
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<td>1.00</td>
<td>0.4 / 0.4</td>
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<td>Hydropsyche</td>
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<td>Actual: 0.33</td>
<td>0.33</td>
<td>0.1 / 0.1</td>
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<td>Antocha</td>
<td>09021001004</td>
<td>Actual: 0.33</td>
<td>0.33</td>
<td>0.1 / 0.1</td>
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<tr>
<td>Thienemannimyia</td>
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<td>12.00</td>
<td>4.8 / 4.8</td>
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<tr>
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<td>090210110200041</td>
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<td>12.00</td>
<td>4.8 / 4.8</td>
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<tr>
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<tr>
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<tr>
<td>Parametriocnemus</td>
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<tr>
<td>Rheotanytarsus</td>
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<td>21.1 / 21.1</td>
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<tr>
<td>Rheotanytarsus exiguus group</td>
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<td>Actual: 52.67</td>
<td>52.67</td>
<td>21.1 / 21.1</td>
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<tr>
<td>Tanytarsus</td>
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<td>19.7 / 19.7</td>
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<tr>
<td>Dicrotendipes</td>
<td>09021011085</td>
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<td>0.67</td>
<td>0.3 / 0.3</td>
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<td>Microtendipes</td>
<td>09021011094</td>
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<td>10.67</td>
<td>4.3 / 4.3</td>
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<td>Microtendipes pedellus group</td>
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<tr>
<td>Polypedilum</td>
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<td>Simulium</td>
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<td>0.1 / 0.1</td>
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<td>Empididae</td>
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<td>0.33</td>
<td>0.1 / 0.1</td>
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<td>Ectopria</td>
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<td>0.1 / 0.1</td>
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<tr>
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<td>0.1 / 0.1</td>
</tr>
<tr>
<td>Dubiraphia</td>
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<td>0.3 / 0.3</td>
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<tr>
<td>Promoresia tardella</td>
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<td>0.67</td>
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