# Maine DEP Biological Monitoring Unit
## Stream Macroinvertebrate Field Data Sheet

<table>
<thead>
<tr>
<th>Log Number</th>
<th>Directions</th>
<th>Type of Sampler</th>
</tr>
</thead>
<tbody>
<tr>
<td>___________</td>
<td>___________</td>
<td>___________</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Station Number</th>
<th>Date Deployed</th>
<th>Number Deployed</th>
<th>Date Retrieved</th>
<th>Number Retrieved</th>
<th>Agency/Collector(s) Put-In: Take-Out:</th>
</tr>
</thead>
<tbody>
<tr>
<td>___________</td>
<td>___________</td>
<td>___________</td>
<td>___________</td>
<td>___________</td>
<td>___________</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Waterbody</th>
<th>Lat-Long Coordinates (WGS84, meters)</th>
<th>Waterbody</th>
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<th>Waterbody</th>
<th>Lat-Long Coordinates (WGS84, meters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>___________</td>
<td>___________</td>
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<td>___________</td>
<td>___________</td>
<td>___________</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>River Basin</th>
<th>Latitude</th>
<th>Stream Basin</th>
<th>Waterbody</th>
<th>Latitude</th>
<th>Stream Basin</th>
<th>Waterbody</th>
<th>Latitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>___________</td>
<td>___________</td>
<td>___________</td>
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<td>___________</td>
<td>___________</td>
<td>___________</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Town</th>
<th>Longitude</th>
<th>Town</th>
<th>Longitude</th>
<th>Town</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>___________</td>
<td>___________</td>
<td>___________</td>
<td>___________</td>
<td>___________</td>
<td>___________</td>
</tr>
</tbody>
</table>

## 1. Land Use (surrounding watershed)

- [ ] Urban
- [ ] Upland conifer
- [ ] Cultivated
- [ ] Swamp hardwood
- [ ] Pasture
- [ ] Swamp conifer
- [ ] Upland hardwood
- [ ] Marsh

## 2. Terrain (surrounding watershed)

- [ ] Flat
- [ ] Rolling
- [ ] Hilly
- [ ] Mountains

## 3. Canopy Cover (surrounding view)

- [ ] Dense (75-100% shaded)
- [ ] Partly open (25-75% shaded)
- [ ] Open (0-25% shaded)

(% daily direct sun) ___________

## 4. Physical Characteristics of Bottom (estimate % of each component over 12 m stretch of site; total = 100%)

- [ ] Bedrock
- [ ] Cobble (2.5” – 10”)
- [ ] Sand (<1/8”)
- [ ] Clay
- [ ] Boulders (>10”)
- [ ] Gravel (1/8” – 2.5”)
- [ ] Silt
- [ ] Muck
- [ ] Detritus

## 5. Habitat Characteristics (immediate area)

<table>
<thead>
<tr>
<th>Deployment</th>
<th>Retrieval</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time _______ AM PM</td>
<td>Time _______ AM PM</td>
</tr>
<tr>
<td>Wetted Width (m) _______</td>
<td>Wetted Width (m) _______</td>
</tr>
<tr>
<td>Bank Full Width (m) _______</td>
<td>Bank Full Width (m) _______</td>
</tr>
<tr>
<td>Depth (cm) _______</td>
<td>Depth (cm) _______</td>
</tr>
<tr>
<td>Velocity (cm/s) _______</td>
<td>Velocity (cm/s) _______</td>
</tr>
<tr>
<td>Diss. O₂ (ppm) ___ (%)</td>
<td>Diss. O₂ (ppm) ___ (%)</td>
</tr>
<tr>
<td>Temp (°C) _______</td>
<td>Temp (°C) _______</td>
</tr>
<tr>
<td>SPC (µS/cm) _______</td>
<td>SPC (µS/cm) _______</td>
</tr>
<tr>
<td>pH _______</td>
<td>pH _______</td>
</tr>
<tr>
<td>DO Meter # _______ Cal? Y / N</td>
<td>DO Meter # _______ Cal? Y / N</td>
</tr>
<tr>
<td>SPC Meter # _______ Cal? Y / N</td>
<td>SPC Meter # _______ Cal? Y / N</td>
</tr>
</tbody>
</table>

## 6. Observations (describe, note date)

Temperature Probe # ____________

- [ ] deployed
- [ ] retrieved

## 7. Water Samples

- [ ] Standard
- [ ] Other

Lab Number: ____________

## 8. Photograph

- [ ] Put-In
  - Up
  - Down
- [ ] Take-Out
  - Up
  - Down

## 9. Landmarks of Sampler Placement (illustrate or describe landmarks to be used for relocation)

Flag location where measured

Location: ____________

Potential Stressor: ____________

Landmarks of Sampler Placement: ____________

Location: ____________

Potential Stressor: ____________

Landmarks of Sampler Placement: ____________

Location: ____________

Potential Stressor: ____________

Landmarks of Sampler Placement: ____________

Location: ____________

Potential Stressor: ____________

Landmarks of Sampler Placement: ____________
Options for 6. Observations:
- Fish
- Algae
- Macrophytes
- Habitat quality
- Dams/impoundments
- Discharges
- Nonpoint stressors

Options for Potential Stressor:
- Agricultural Runoff
- Altered Habitat
- Altered Hydrology
- BOD (Low DO)
- Bog Headwaters
- Chloride
- Gravel Pit
- Impounded
- Inorganic Solids
- Lake Outlet
- Logging
- Low Gradient
- LOW pH
- Metals
- NPS Pollution
- Nutrients
- Organic Solids
- Pesticides
- Regulated Flows
- Reseduce
- Reseduced Flows
- Sedimentation
- Superfund Site
- Toxic Organics
- Tidal Estuary
- Thermal

Options for Location:
- Above Road Crossing
- Below Road Crossing
- Above Dam
- Below Dam
- Below Forest NPS
- Above Forest NPS
- Above Above In-Place Contamination
- Below Above In-Place Contamination
- Below Forest Outlet
- Above Forest Outlet
- Below PFW
- Above PFW
- Above POTW
- Below POTW
- Below Point Source
- Above Point Source
- Above Above Confluence
- Below Above Confluence
- Below Below Confluence
- Above Below Confluence
- Above In-Place Contamination
- Below In-Place Contamination
- Above Confluence
- Below Confluence
- Above Road Crossing
- Below Above Road Crossing
- Below Below Road Crossing
- Above Road Crossing
- Above Point Source
- Below Point Source
- Above Farm NPS
- Below Farm NPS
- Above NPS Pollution
- Below NPS Pollution
- Above Urban NPS
- Below Urban NPS
- Above Urban NPS
- Below Urban NPS
- Above Impoundment
- Below Impoundment
- Above Dam
- Below Dam
- Above Dam
- Below Dam
- Above Dam
- Below Dam