Stream Crossing Data Sheet

General Information
Stream Name: ____________________________ Road Name: ____________________________
Name of Observer(s): ____________________________ Date: ____________________________
GPS Waypoint: ____________________________ GPS Lat/Long: ____________________________
County: ____________________________ Township: ____________________________ Range: ______ Sec: ______
Adjacent Landowner Information: ____________________________ Additional Comments: ____________________________

Crossing Information
Crossing Type: Culvert(s) no.: ______ Bridge ______ Ford ______ Dam ______ Other: ______
Structure Shape: Round ______ Square/Rectangle ______ Open Bottom Square/Rectangle ______ Pipe Arch ______ Open Bottom Arch ______ Ellipse ______
Inlet Type: Projecting ______ Mitered ______ Headwall ______ Apron ______ Wingwall ______ 10-30° or 30-70° ______ Trash Rack ______ Other ______
Outlet Type: At Stream Grade ______ Cascade over Riprap ______ Freefall into Pool ______ Freefall onto Riprap ______ Outlet Apron ______ Other ______
Structure Material: Metal ______ Concrete ______ Plastic ______ Wood ______ Multiple Culverts/Spans
Substrate in Structure: None ______ Sand ______ Gravel ______ Rock ______ Mixture ______
General Condition: New ______ Good ______ Fair ______ Poor ______
Plugged: ______ % Inlet ______ Outlet ______ In Pipe ______
Crushed: ______ % Inlet ______ Outlet ______ In Pipe ______
Rusted Through? Yes ______ No ______ Structure Interior: Smooth ______ Corrugated ______
Structure Length (ft): ______ Structure Width (ft): ______ Structure Height (ft): ______
Structure Water Depth (ft): ______ inlet ______ outlet ______ Perch Height (ft): ______ or NA ______
Embedded Depth of Structure (ft): ______ inlet ______ outlet ______
Structure Water Velocity (ft/sec): ______ inlet ______ outlet ______
Structure Water Velocity Measured: At Surface ______ or ______ ft Below Surface ______ Measured With: Meter ______ or ______ Float Test ______

Stream Information
Stream Flow: None ______ < ½ Bankfull ______ < Bankfull ______ = Bankfull ______ > Bankfull ______
Scour Pool (if present) Length: _____ Width: _____ Depth: _____ Upstream Pond (if present) Length: _____ Width: _____

Riffle Information (measured in a riffle outside of zone of influence of crossing)
Water Depth (ft): ______ Bankfull Width (ft): ______ Wetted Width (ft): ______ Water Velocity (ft/sec): ______
Dominant Substrate: Cobble ______ Gravel ______ Sand ______ Organics ______ Clay ______ Bedrock ______ Silt ______ Measured With: Meter ______ or ______ Float Test ______

Road Information
Type: Federal ______ State ______ County ______ Town ______ Tribal ______ Private ______ Other: ______
Road Surface: Paved ______ Gravel ______ Sand ______ Native Surface ______
Condition: Good ______ Fair ______ Poor ______
Road Width at Culvert (ft): ______ Location of Low Point: At Stream ______ Other ______
Runoff Path: Roadway ______ Ditch ______
Embankment: Upstream Fill Depth (ft): ______ Slope: Vertical ______ 1:1.5 ______ 1:2 ______ >1:2 ______
Downstream Fill Depth (ft): ______ Slope: Vertical ______ 1:1.5 ______ 1:2 ______ >1:2 ______
Left Approach: Length (ft): ______ Slope: 0% ______ 1-5% ______ 6-10% ______ >10% ______ Ditch Vegetation: None ______ Partial ______ Heavy ______
Right Approach: Length (ft): ______ Slope: 0% ______ 1-5% ______ 6-10% ______ >10% ______ Ditch Vegetation: None ______ Partial ______ Heavy ______

1 - Fill out for primary culvert (culvert #1). If multiple culverts are used, number each and use embedded table.

Form Date: February 28, 2011
Erosion Information

Use a new row for each distinct gully/erosion location. Note prominent streambank erosion within 50 feet of crossing.

<table>
<thead>
<tr>
<th>Location of Erosion</th>
<th>Erosion Dimensions (ft)</th>
<th>Eroded Material Reaching Stream?</th>
<th>Material Eroded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ditch, approach, or streambank Left or right facing downstream</td>
<td>Length</td>
<td>Width</td>
<td>Depth</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Sand, Silt, Clay, Gravel, Loam, Sandy Loam or Gravelly Loam.</td>
</tr>
</tbody>
</table>

If there is erosion occurring, can corrective actions, such as road drainage measures, be installed to address the problem?  **Y  N**

**Extent of Erosion:**  Minor  Moderate  Severe  Stabilized

**Erosion Notes:**

**Photos – enter photo number in blank corresponding to location**

- Site ID
- Upstream Conditions
- Downstream Conditions
- Inlet
- Outlet
- Road Approach – Left
- Road Approach – Right

**Summary Information**

- Would you consider this a priority site?  Fish Passage  Erosion  Why?

- Would you recommend a future visit to this site?  Yes  No  Why?

- Were any non-native invasive species observed at the site?  Yes  No  If yes, what species were observed?

**Site Sketch**

Draw an overhead sketch of crossing. Be sure to mark North on the map and to indicate the direction of flow. Include major features documented on form, such as erosion sites, multiple culverts, scour pool, impounded water, etc.