

# Stream Crossing Data Sheet

Site ID: \_\_\_\_\_

## 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 \_\_\_\_\_

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 \_\_\_\_\_

Multiple Culverts/Spans				
Number the culverts/spans left to right, facing downstream. Include #s in site sketch on back page				
Culvert/ Span #	Width (ft)	Length (ft)	Height (ft)	Material

Structure Length (ft):<sup>1</sup> \_\_\_\_\_ Structure Width (ft):<sup>1</sup> \_\_\_\_\_ Structure Height (ft):<sup>1</sup> \_\_\_\_\_

Structure Water Depth (ft):<sup>1</sup> inlet \_\_\_\_\_ outlet \_\_\_\_\_ Perch Height (ft):<sup>1</sup> \_\_\_\_\_ or NA

Embedded Depth of Structure (ft):<sup>1</sup> inlet \_\_\_\_\_ outlet \_\_\_\_\_

Structure Water Velocity (ft/sec):<sup>1</sup> 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 \_\_\_\_\_

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

**Erosion Information**

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

Location of Erosion Ditch, approach, or streambank Left or right facing downstream	Erosion Dimensions (ft)			Eroded Material Reaching Stream?		Material Eroded Sand, Silt, Clay, Gravel, Loam, Sandy Loam or Gravelly Loam.
	Length	Width	Depth	Yes	No	
				Yes	No	
				Yes	No	
				Yes	No	
				Yes	No	
				Yes	No	

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 \_\_\_\_\_
- Inlet \_\_\_\_\_
- Outlet \_\_\_\_\_
- Upstream Conditions \_\_\_\_\_
- Road Approach – Left \_\_\_\_\_
- Downstream Conditions \_\_\_\_\_
- 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.