

Stream Crossing Data Sheet

Site ID: BT-9013

General Information

Stream Name: Mason Creek Road Name: E. Duck Lake Rd.
 Name of Observer(s): _____ Date: 3-2-20
 GPS Waypoint: _____ GPS Lat/Long: 44.63131, -85.72129
 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° 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: 1 % Inlet Outlet In Pipe
 Crushed: 1 % 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):¹ 36 ft Structure Width (ft):¹ 27 ft Structure Height (ft):¹ 11 ft
 Structure Water Depth (ft):¹ inlet 0.5 ft outlet 0.5 ft Perch Height (ft):¹ _____ or NA
 Embedded Depth of Structure (ft):¹ inlet _____ outlet _____
 Structure Water Velocity (ft/sec):¹ inlet 3.8 ft/sec outlet 3.2 ft/sec
 Structure Water Velocity Measured: At Surface or .3 ft Below Surface Measured With: Meter or Float Test

Stream Information

Stream Flow: None < 1/2 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): 0.3 ft Bankfull Width (ft): 16.2 Wetted Width (ft): 13.2 ft Water Velocity (ft/sec): 1.9 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): 34 ft Location of Low Point: At Stream Other Runoff Path: Roadway Ditch
 Embankment: Upstream Fill Depth (ft): 0 Slope: Vertical 1:1.5 1:2 >1:2
 Downstream Fill Depth (ft): 0 Slope: Vertical 1:1.5 1:2 >1:2
 Left Approach: Length (ft): 300 ft Slope: 0% 1-5% 6-10% >10% Ditch Vegetation: None Partial Heavy
 Right Approach: Length (ft): 50 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.

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.

