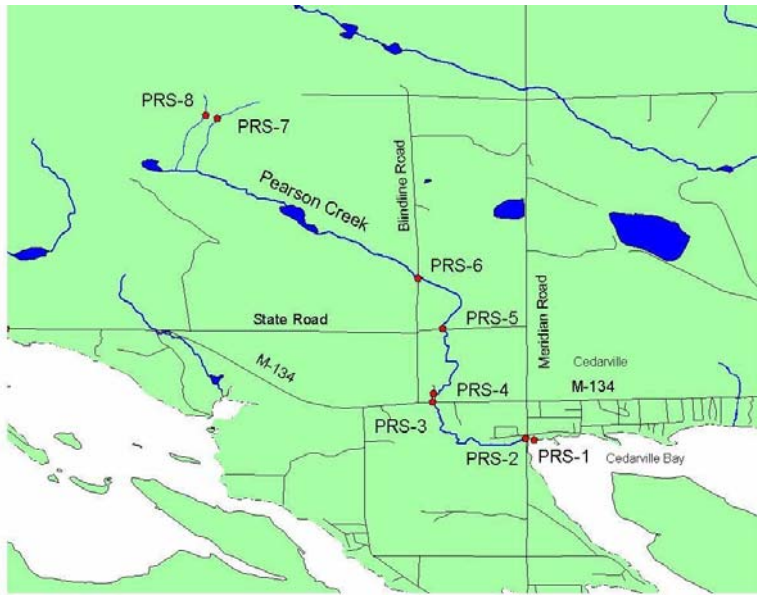


Pearson Creek

at Blindline Road
PRS-6



Upstream



Downstream



Pearson Creek

at Blindline Road
PRS-6

Pearson Creek at Blindline Road

Site I.D.: PRS-6

GPS Coordinates: N 46.01109
W 84.37321

Township: Clark
County: Mackinac
Adjacent Landowners: State/private

Road Information

Jurisdiction: MCRC

Surface: Gravel
Width at Crossing: 26 feet
Maintenance: Year around
Low point: At stream
Drainage Control Features: None
Approach Length: Left: 0.5 mile
Right: 1.5 miles
Slope: Left: 1-5 percent
Right: 1-5 percent
Ditch/shoulder vegetation: Left: Heavy
Right: Heavy
Average Width of Grade: 37 feet
Runoff Path: Ditch

Stream Characteristics

Average Width: Upstream: 5 feet
Downstream: 7 feet

Average Depth: Upstream: 4 inches
Downstream: 6 inches

Average Current: Upstream: Slow
Downstream: Moderate

Substrate Type: Upstream: Sand
Downstream: Gravel

Adjacent Wetlands:

Adjacent Wetlands: No

Visible Down Cutting: No

Culvert Information

Culvert Type: Single

Length: 50 feet
Diameter: 42 inches
Material: Galvanized
Condition: Good
Culvert Flow: Clear
Fish Passage Problem: No
Fill Depth: Inlet: 12 inches
Outlet: 12 inches

Embankment Slopes: Inlet: 1.5:1
Outlet: 2:1

Pearson Creek

at Blindline Road
PRS-6**Conditions and Treatment****Erosion Conditions**

- Streambank erosion beside crossing
- Embankment erosion
- Pool formation at culvert outlet
- Sand/soil over crossing

Recommended Treatment

- Bridge or box culvert
- Elevate road and approaches
- Restore streambank with vegetation

Erosion Severity Rating: Moderate (28)**Overall Condition Rating:** Moderate**Cost:** See BMP Cost Tables

Comments: It is recommended that a bridge or bottomless culvert large enough to accommodate natural creek channel be installed to allow unrestricted flow and permit fish passage. The road over bridge and at approaches should be raised and paved with structures installed to allow water to runoff road into vegetated ditches before reaching the creek. The stream banks west of the crossing need to be restored with stabilizing vegetation. The extent of erosion at the upstream site is calculated as 25 foot in length along banks x 2 ft high banks x 0.2 lateral recession rate x .055 soil weight x 2 (left and right bank)=1.1 tons of soil.

