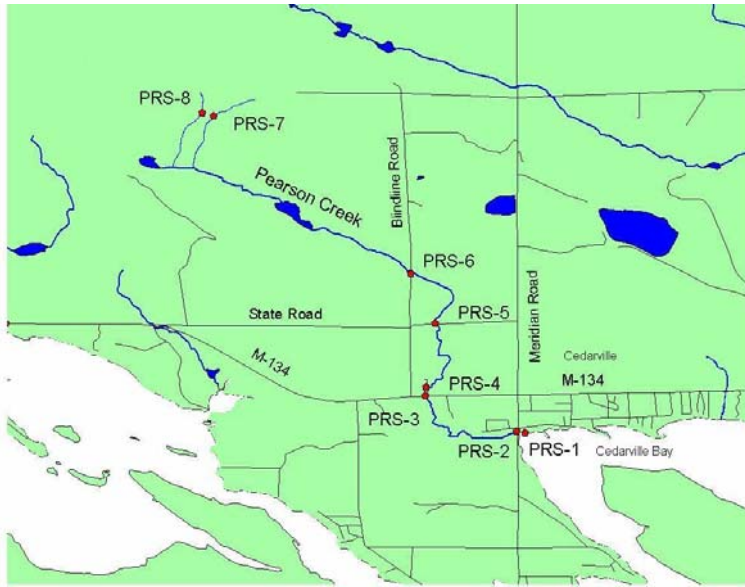


Pearson Creek

at State Road
PRS-5



Upstream



Downstream



Pearson Creek

at State Road
PRS-5

Pearson Creek at State Road

Site I.D.: PRS-5

GPS Coordinates: N 46.0063
W 84.37086

Township: Clark

County: Mackinac

Adjacent Landowners: Private

Road Information

Jurisdiction: MCRC

Surface: Gravel

Width at Crossing: 20 feet

Maintenance: Year around

Low point: Other—further west on State Road

Drainage Control Features: None

Approach Length: Left: 0 mile
Right: 0.2 mile

Slope: Left: 1-5 percent
Right: 1-5 percent

Ditch/shoulder vegetation: Left: Partial
Right: Partial

Average Width of Grade: 27 feet

Runoff Path: Ditch

Stream Characteristics

Average Width: Upstream: 6 feet
Downstream: 5 feet

Average Depth: Upstream: 8 inches
Downstream: 6 inches

Average Current: Upstream: Slow
Downstream: Fast

Substrate Type: Upstream: Sand
Downstream: Gravel

Adjacent Wetlands: Yes

Visible Down Cutting: No

Culvert Information

Culvert Type: Single

Length: 30 feet

Diameter: 5 feet

Material: Galvanized

Condition: Good

Culvert Flow: Obstructed

Fish Passage Problem: Yes

Fill Depth: Inlet: 6 inches
Outlet: 6 inches

Embankment Slopes: Inlet: Vertical
Outlet: Vertical

Pearson Creek

at State Road
PRS-5

Conditions and Treatment

Erosion Conditions

- Streambank erosion beside crossing
- Embankment erosion
- Culvert outlet erosion
- Shoulder/ditch erosion
- Sand/soil over crossing

Recommended Treatment

- Replace culvert with bridge or bottomless culvert
- Raise the road elevation
- Raise the approach elevations
- Restore ditch vegetation
- Install diversion outlets
- Install rip-rap

Erosion Severity Rating: Severe (32)

Overall Condition Rating: Severe

Cost: See BMP Cost Tables

Comments: It is recommended that a bridge or bottomless culvert large enough to accommodate natural creek channel be constructed at this location. The road over the 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 bank on the north side of State Road needs to be restored with vegetation and possibly rip-rap. 10 ft long x 3 ft high x .01 ft/yr x .055 tons/cu.ft. = .165 tons/year

