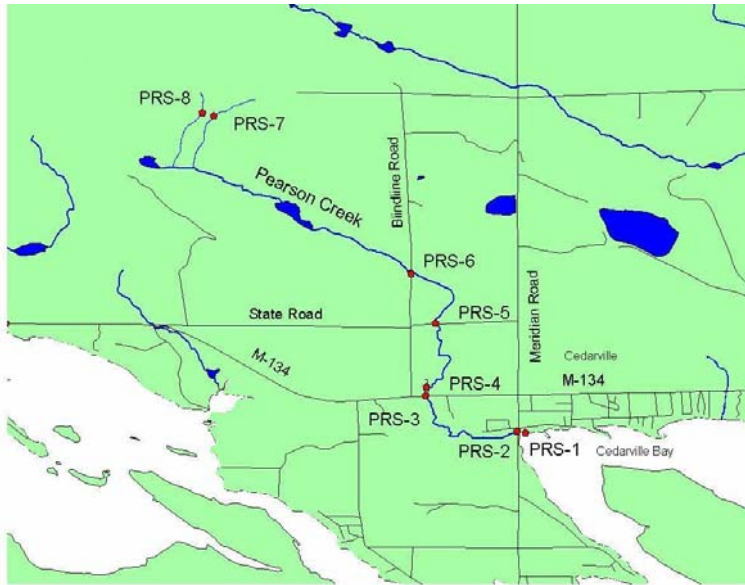


# Pearson Creek

at Meridian Road  
PRS-2



Upstream



Downstream



# Pearson Creek

at Meridian Road  
PRS-2

**Pearson Creek at Meridian Road**

**Site I.D.:** PRS-2  
  
**GPS Coordinates:** N 45.9958  
W 84.36299  
  
**Township:** Clark  
  
**County:** Mackinac  
  
**Adjacent Landowners:** Private

**Road Information**

**Jurisdiction:** MCRC  
  
**Surface:** Paved  
  
**Width at Crossing:** 24 feet  
  
**Maintenance:** Year around  
  
**Low point:** At stream  
  
**Drainage Control Features:** None  
  
**Approach Length:** Left: 0.575 mile  
Right: 0.5 mile  
  
**Slope:** Left: 1-5 percent  
Right: 1-5 percent  
  
**Ditch/shoulder vegetation:** Left: Heavy  
Right: Partial  
  
**Average Width of Grade:** 44 feet  
  
**Runoff Path:** Roadway

**Stream Characteristics**

**Average Width:** Upstream: 6 feet  
Downstream: 15 feet  
  
**Average Depth:** Upstream: 12 inches  
Downstream: 12 inches  
  
**Average Current:** Upstream: Moderate  
Downstream: Moderate  
  
**Substrate Type:** Upstream: Sand/grav/muck  
Downstream: Sand/grav/muck

**Adjacent Wetlands:**

Yes  
  
**Visible Down Cutting:** No

**Culvert Information**

**Culvert Type:** Tripple  
  
**Length:** 41 feet  
  
**Diameter:** 4 feet  
  
**Material:** Galvanized  
  
**Condition:** Good  
  
**Culvert Flow:** Clear  
  
**Fish Passage Problem:** No  
  
**Fill Depth:** Inlet: 8 inches  
Outlet: 8 inches  
  
**Embankment Slopes:** Inlet: 1.5:1  
Outlet: 1.5:1

# Pearson Creek

at Meridian Road  
PRS-2

## Conditions and Treatment

### Erosion Conditions

- Streambank erosion beside crossing
- Embankment erosion

### Recommended Treatment

- Replace culverts with bridge with pedestrian/bicycle accommodation
- Reshape and stabilize

**Erosion Severity Rating:** Moderate (26)

**Overall Condition Rating:** Severe

**Cost:** See BMP Cost Tables

**Comments:** Pearson Creek is suffering the negative impacts of the Meridian Road crossing in downtown Cedarville. The crossing has three separated, perched culverts in which the upstream concrete embankment is separating from the roadside embankment, creating both a hazard to pedestrian and vehicular traffic as well as an erosion site. The north side stream bank on the downstream side is a vertical wall stabilized with weathered cedar posts. This riparian area, which is now a restaurant parking lot, is also in danger of collapsing and depositing sediment into the creek mouth. The preferred treatment at this site would be a bridge that would have walking access across the creek with a future pedestrian structure providing safe walking from the downtown area to the public boat launch and parking area. 2 ft wide gully(top) + 1 ft at bottom/2 x .5 ft. deep x 10 feet long x .055 tons/cu.ft. / 10 years = .0275

