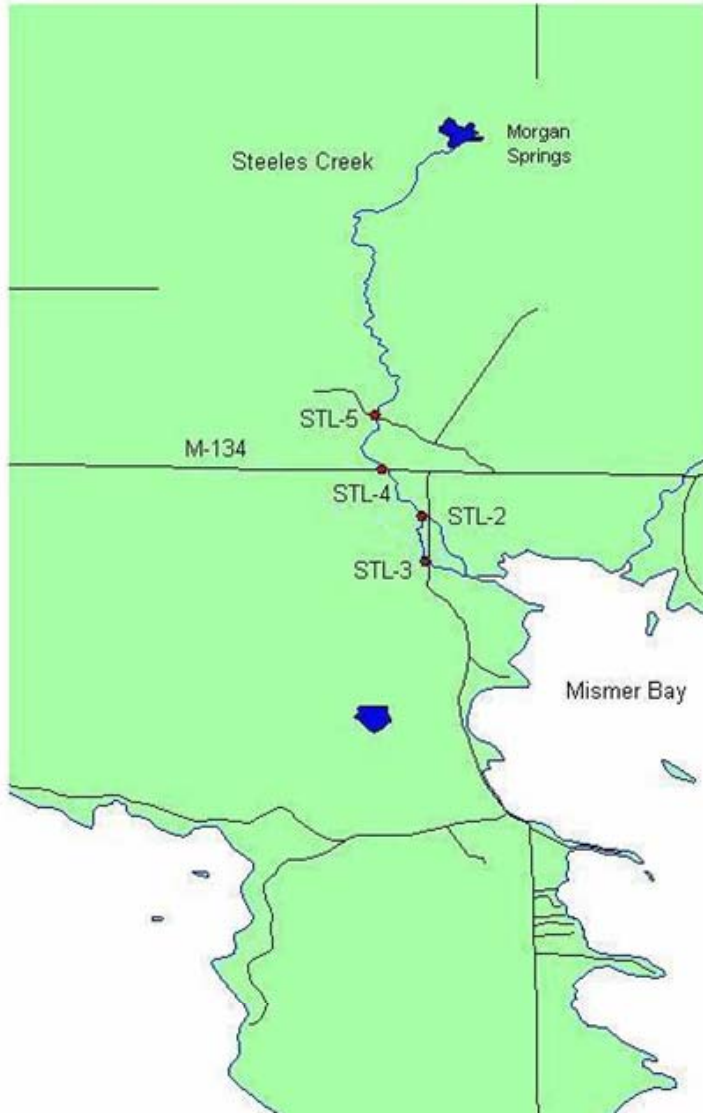


Steeles Creek

Point Brulee Road
STL-2



Upstream



Downstream



Steeles Creek

Point Brulee Road
STL-2

Steeles Creek at Point Brulee Road

Site I.D.: STL-2

GPS Coordinates: N 46.0114
W 84.47318

Township: Clark

County: Mackinac

Adjacent Landowners: Private

Road Information

Jurisdiction: MCRC

Surface: Gravel

Width at Crossing: 23 feet

Maintenance: Year around

Low point: Level

Drainage Control Features: None

Approach Length: Left: 0.25 mile
Right: 0.15 mile

Slope: Left: 0 percent
Right: 0 percent

Ditch/shoulder vegetation: Left: Heavy
Right: Heavy

Average Width of Grade: 39 feet

Runoff Path: Ditch along adjacent wetland

Stream Characteristics

Average Width: Upstream: 8 feet
Downstream: 10 feet

Average Depth: Upstream: 3 feet
Downstream: 3 inches

Average Current: Upstream: Slow
Downstream: Slow

Substrate Type: Upstream: Muck
Downstream: Sand/gravel

Adjacent Wetlands: Yes

Visible Down Cutting: Yes, 6 inches

Culvert Information

Culvert Type: Twin

Length: 60 feet

Diameter: 4 feet

Material: Galvanized

Condition: Good

Culvert Flow: Obstructed

Fish Passage Problem: Yes

Fill Depth: Inlet: One foot
Outlet: One foot

Embankment Slopes: Inlet: >2:1
Outlet: 2:1

Steeles Creek

Point Brulee Road
STL-2**Conditions and Treatment****Erosion Conditions**

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

Recommended Treatment

- Replace culverts—larger box culvert
- Install diversion outlets
- Revegetate

Erosion Severity Rating: Moderate (16)**Overall Condition Rating:** Moderate**Cost:** See BMP Cost Tables

Comments: Point Brulee Road and Steeles Creek would be better served by a single bottomless culvert or bridge spanning the entire width of the stream. The twin culverts currently installed at the crossing are routinely blocked. Flooding occurs on the road, permitting sediment transfer from the road to the stream bed. Six gullies exist around culverts. Total eroding bank 3 feet wide + 3 feet at bottom/2 x 1 foot deep x .055 soil weight/ 10 years=.025 tons/year sediment.

