

Big Creek
Dewey Ave

Information collected by:
Huron Pines

GPS Coordinates: 44.4973817,-84.7782186
T N R Sec

Fish Passability: Not a Barrier
Structure is NOT Perched
Total Erosion: 0.01 tons/year
Overall Score: 6
Severity: Minor
Date Inventoried: 4/29/2022



Road Approach - Left



Road Approach - Right



Inlet



Upstream Conditions



Outlet



Downstream Conditions



Representative Reach



Site Sketch

Crossing Information*

Type of Crossing: Culvert(s)
Number of Structures: 1
Structure Shape: Pipe Arch
Inlet Type: Projecting
Outlet Type: At Stream Grade
Structure Material: Metal
Structure Substrate: Sand
General Conditions: No deficiencies. New structure or nearly new condition.

Structure Interior: Corrugated
Is Structure Rusted through? No
Dimensions of Structure: Length 40 ft. Width 5.5 ft. Height 4.5 ft.
Percentage Plugged: None or 0%
Percentage Crushed: None or 0%

Structure is NOT Perched

Structure Inlet

Water Depth: 0.7 ft.
Embedded Depth of Structure: 0.1 ft.
Water Velocity*: 3.6 ft./sec.

Structure Outlet

Water Depth: 1.3 ft.
Embedded Depth of Structure: 0.1 ft.
Water Velocity*: 0.4 ft./sec.

*Water Velocities were measured 0.5 ft. below the surface (via Flow Meter).

Stream Information

Stream Flow: < Bankfull – The stream channel is more than half filled with water, but is not full.
Stream Flow Type: Perennial (if flowing during the time of assessment.)
Is Scour Pool Present? No
Is Upstream Ponding Present? No

Riffle Information

Water Depth: 0.8 ft.
Bankfull Width: 11 ft.
Wetted Width: 10.7 ft.
Water Velocity: 1.3 ft./sec. (measured via Flow Meter)
Dominant Substrate: Sand – particles are smaller than a pinhead and feel gritty between fingers

Road Information

Road Surface: Paved
Owner: County
Road Condition: New Pavement or Well Graded, Same condition as initial placement.

Road Core Integrity: Good (no symptoms of lack of integrity)
Road Width at Culvert: 22 ft.
Location of Low Point: Other
Runoff Path: Ditch

Embankments

Upstream

Fill Depth: 1.7 ft.
Slope: Moderate, 2:1, 22.5°, or 41%

Downstream

Fill Depth: 2 ft.
Slope: Moderate, 2:1, 22.5°, or 41%

Approaches

Left Approach

Length: 375 ft.
Slope: < 1%
Vegetation: Partial, Ditch has some vegetation and some bare, eroding places.
Erosion Estimate: 0.01 tons/year

Right Approach

Length: 100 ft.
Slope: < 1%
Vegetation: None, Ditch has been recently graded and is bare of vegetation.

Erosion Information

Estimate of Total Erosion at Crossing: 0.01 tons/year

Summary Information

Fish Passability: Not a Barrier

Is a future visit to this site recommended? No

Were any non-native species observed at this site? No

Site Comments: Culvert replaced in 2021. Brook trout and suckers observed upstream or culvert.

*These data are maintained in the Michigan DNR Road Stream Crossing Inventory.

[View MDNR Map](#)