**Atlantic Canadian Culvert Assessment Toolkit** Watercourse Crossing Datasheet

| Crossing Data | | | | | |
|---|---|---|---|---|---|
| **Observers** | | | | | |
| **Crossing ID** | | | **Date Observed** | | |
| **Road Type** | □ Public | □Rail Bed ROW | □ Private | □ Logging Road | |
| **Road Name** | | **Crossing Condition** | □ New<br>□ Old<br>□ Eroding<br>□ Rusted<br>□ Collapsing | | |
| **Stream Name** | | | | | |
| **Upstream Habitat Gain** | | | | | |
| **Tidal Site** | Yes □<br>No □<br>Unknown □ | | | | |
| **Crossing Type** | □ Bridge □ Ford □ Dam □ Removed □ Inaccessible □ Not Fish Habitat □ Culvert # ____ | | | | |
| **GPS Coordinates** | LAT | LONG | | | |
| **Beaver dam present** | □ Yes □ No | **Fish observed** | □ Upstream | □ Downstream | |
| **Evidence of erosion** | **□ Upstream (□ Left bank □ Right bank □ Fill slope)**<br>**□ Downstream (□ Left bank □ Right bank □ Fill slope)** | **Estimated area of active erosion ($m^2$)** | | | |

| Photo IDs | | | |
|---|---|---|---|
| Upstream | | Downstream | |
| Inlet | | Outlet | |
| Other | | Other | |

| Structure 1 | | | | | |
|---|---|---|---|---|---|
| **Debris blockage present** | □Yes □No | **Description of debris** | | | |
| **Culvert material** | □ Concrete □ Corrugated Metal Pipe □ Corrugated Plastic □ Smooth □ Wood □ Other | | | | |
| **Culvert shape** | □ Round □ Pipe Arch □ Open bottom arch □ Box | | | | |
| **Culvert bottom** | □Unnatural □Natural | **Culvert dimensions (m)** | Width | Height | Length |
| **Backwatered** | □ 0% □ 25% □ 50% □ 75% □ 100% | **Baffles** | □ Present | □ Absent | |
| **Water depth in crossing matches that of stream:** yes no (significantly deeper) no (significantly shallower) | | | | | |
| **Water velocity in crossing matches that of stream:** yes no (significantly faster) no (significantly slower) | | | | | |
| **Embedment** | □ from upstream □ from downstream | **Length of Culvert with Embedment** | □0%□ 25%□ 50%□75%□100% | | |

| Elevations (m) | | | | | | |
|---|---|---|---|---|---|---|
| **Station** | **BS** | **HI** | **FS** | **Elevation (HI – FS)** | **Distances (m)** | **Tailwater Control Bankfull Width:**<br><br>**Distance from Tailwater Control to Second Riffle:** |
| Inflow | | | | | | |
| Outflow | | | | | | |
| Tailwater Control | | | | | | |
| Left Bankfull at Tailwater | | | | | | |
| Right Bankfull at Tailwater | | | | | | |
| Second Riffle | | | | | | |

| | | | |
|---|---|---|---|
| **Culvert Slope (%)** (Inflow-Outflow)/Culvert length*100 | | **Outflow Drop** (outflow – tailwater control) | |
| **Downstream Slope** (Tailwater Control – Second Riffle/distance from tailwater control to second riffle | | | |

ALLIANCE DU BASSIN VERSANT PETITCODIAC WATERSHED ALLIANCE

**Atlantic Canadian Culvert Assessment Toolkit** Watercourse Crossing Datasheet

## Structure 2

| | | | | | |
|---|---|---|---|---|---|
| **Debris blockage present** | □Yes □No | **Description of debris** | | | |
| **Culvert material** | □ Concrete □ Corrugated Metal Pipe □ Corrugated Plastic □ Smooth □ Wood □ Other | | | | |
| **Culvert shape** | □ Round □ Pipe Arch □ Open bottom arch □ Box | | | | |
| **Culvert bottom** | □Unnatural □Natural | **Culvert dimensions (m)** | Width | Height | Length |
| **Backwatered** | □ 0% □ 25% □ 50% □ 75% □ 100% | | **Baffles** | □ Present | □ Absent |
| **Water depth in crossing matches that of stream:** yes no (significantly deeper) no (significantly shallower) | | | | | |
| **Water velocity in crossing matches that of stream:** yes no (significantly faster) no (significantly slower) | | | | | |
| **Embedment** | □ from upstream □ from downstream | **Length of Culvert with Embedment** | □0% □ 25%□50%□75%□100% | | |

## Elevations (m)

| **Station** | **BS** | **HI** | **FS** | **Elevation (HI – FS)** | **Distances** | **Tailwater Control Bankfull Width:**<br><br>**Distance from Tailwater Control to Second Riffle:** |
|---|---|---|---|---|---|---|
| Inflow | | | | | | |
| Outflow | | | | | | |
| Tailwater Control | | | | | | |
| Left Bankfull at Tailwater | | | | | | |
| Right Bankfull at Tailwater | | | | | | |
| Second Riffle | | | | | | |

| | | | |
|---|---|---|---|
| **Culvert Slope (%)** (Inflow-Outflow)/Culvert length*100 | | **Outflow Drop** (outflow – tailwater control) | |
| **Downstream Slope** (Tailwater Control – Second Riffle/distance from tailwater control to second riffle | | | |

## Structure 3

| | | | | | |
|---|---|---|---|---|---|
| **Debris blockage present** | □Yes □No | **Description of debris** | | | |
| **Culvert material** | □ Concrete □ Corrugated Metal Pipe □ Corrugated Plastic □ Smooth □ Wood □ Other | | | | |
| **Culvert shape** | □ Round □ Pipe Arch □ Open bottom arch □ Box | | | | |
| **Culvert bottom** | □Unnatural □Natural | **Culvert dimensions (m)** | Width | Height | Length |
| **Backwatered** | □ 0% □ 25% □ 50% □ 75% □ 100% | | **Baffles** | □ Present | □ Absent |
| **Water depth in crossing matches that of stream:** yes no (significantly deeper) no (significantly shallower) | | | | | |
| **Water velocity in crossing matches that of stream:** yes no (significantly faster) no (significantly slower) | | | | | |
| **Embedment** | □ from upstream □ from downstream | **Length of Culvert with Embedment** | □0% □ 25%□50%□75%□100% | | |

## Elevations

| **Station** | **BS** | **HI** | **FS** | **Elevation (HI – FS)** | **Measurements** | **Tailwater Control Bankfull Width:**<br><br>**Distance from Tailwater Control to Second Riffle:** |
|---|---|---|---|---|---|---|
| Inflow | | | | | | |
| Outflow | | | | | | |
| Tailwater Control | | | | | | |
| Left Bankfull at Tailwater | | | | | | |
| Right Bankfull at Tailwater | | | | | | |
| Second Riffle | | | | | | |

| | | | |
|---|---|---|---|
| **Culvert Slope (%)** (Inflow-Outflow)/Culvert length*100 | | **Outflow Drop** (outflow – tailwater control) | |
| **Downstream Slope** (Tailwater Control – Second Riffle/distance from tailwater control to second riffle | | | |