**RAPID STREAM ASSESSMENT (RSAT)**

**Date:** Oct 30th, 2024 **Site:** Foxley River East **Crew:** Kim, Rory, Liam, Owen

**Location:** Reach 4 **GPS:** N: 46.68274**0** W: -63.99946**0**

**Weather Description:** Partly Sunny 4०C **Recorder:** Kim Curran



|  | **Excellent** | **Good** | **Fair** | **Poor** | **Points** |
| --- | --- | --- | --- | --- | --- |
| **Channel Stability** | **9 - 11** |  **6 - 8** |  **3 - 5 0 - 2** | **8** |
| **Scour / Deposition** |  **7 - 8** |  **5 - 6** |  **3 - 4 0 - 2** | **6** |
| **Instream Habitat** |  **7 - 8** |  **5 - 6** |  **3 - 4 0 - 2** | **6** |
| **Water Quality** |  **7 - 8** |  **5 - 6** |  **3 - 4 0 - 2** | **8** |
| **Riparian Conditions** |  **6 - 7** | **4 - 5** |  **2 - 3 0 - 1** | **5** |
| **Biological Indicators** |  **7 - 8** |  **5 - 6** |  **3 - 4 0 - 2** | **6** |
|  |  |  | **Total:** | **39** |

 **Stability Rankings: <20 = LOW 20 - 35 = MODERA TE <35 = HIGH**

# **Channel Dimensions (Measured / Estimated)**

**Bankfull Width (m):** 3 m **Bankfull Depth (m):** 0.61 m

**Wetted Width (m):** 2.55 m  **Wetted Depth (m):** 0.10 m

**Gradient:** downhill **Entrenchment (m):** 4.4 m

## **Substrate (Pool):** gravel, sand, silt, sediment **Substrate (Riffle):** sand, cobble, pebble

## **Straight / Sinuous:**  sinuous  **Bend Radius:** 7.63 m

## **Bank Height (m):** 0.61 m **Bank Angle (0):** 90**0**

**Bank Material:** clay, sand, shrub/tree roots **Vegetation:** grass, moss, shrubs, trees

**Pool - Riffle Spacing (m):** 2.41 m **Woody Debris:** yes

## **Channel Hardening:** 60% hardening with sediment at beginning and end of reach due to culvert removal and span bridge that was installed Sept 2024.

## **Channel Disturbance:** Culvert replaced with span bridges at beginning and end of Reach 3.

## **Distance Walked:** 300 m **Photos Taken:** #9964 - #9978

**Comments:** Beaver runaround at the end of this reach. See pic #9978. Beavers were an issue prior to span bridge installation. 3 crushed culverts were removed allowing the stream to be fully open which should deter dam building. This area will be checked periodically.