**RAPID STREAM ASSESSMENT (RSAT)**

**Date:** Oct 31st, 2024 **Site:** Foxley River East **Crew:** Kim, Rory, Liam, Owen

**Location:** Reach 5 **GPS:** N: 46.68459**0** W: -64.00080**0**

**Weather Description:** Partly Sunny 6०C **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** | | **5** |
| **Instream Habitat** | **7 - 8** | **5 - 6** | **3 - 4 0 - 2** | | **8** |
| **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** | | **7** |
|  |  |  | **Total:** | | **41** |

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

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

**Bankfull Width (m):** 3.9 m **Bankfull Depth (m):** 0.64 m

**Wetted Width (m):** 1.35 m  **Wetted Depth (m):** 0.10 m

**Gradient:** downhill **Entrenchment (m):** 3.9 m

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

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

## **Bank Height (m):** 0.64 m **Bank Angle (0):** 80**0**

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

**Pool - Riffle Spacing (m):** 7.4 m **Woody Debris:** yes

## **Channel Hardening:** 75% hardening with sediment at beginning of reach due to culvert removal and span bridge that was installed Sept 2024.

## **Channel Disturbance:** Culvert replaced with span bridges at beginning of Reach 5.

## **Distance Walked:** 381 m **Photos Taken:** #9981 - #9996

**Comments:** 3 crushed culverts were removed at beginning of reach 5 and a span bridge was placed allowing for improved connectivity and fish passage. Sediment should move toward the sediment trap downstream at Karen Kellys.