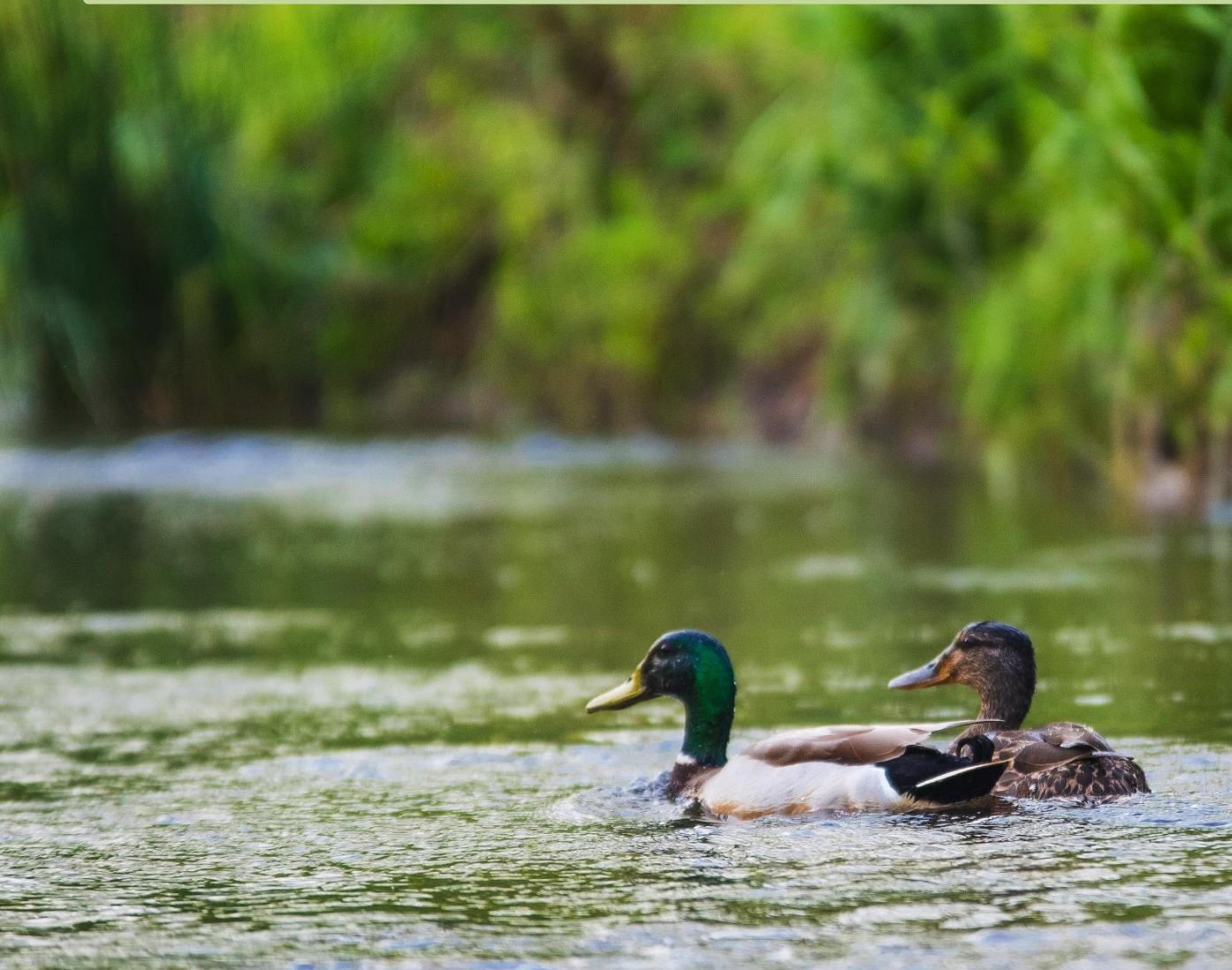


Stream Restoration Before & After

North Stirrup Run (2015)

ECOTONE, INC



ecotone
ecological restoration

**Stream Restoration Before & After – North Stirrup Run
(2015)**



Before – Incised banks, high erosion, little vegetation on banks

**Stream Restoration Before & After – North Stirrup Run
(2015)**



Before – Incised banks, high erosion, meandering stream

**Stream Restoration Before & After – North Stirrup Run
(2015)**



After – Log vanes to encourage pool formation and stone structures to stabilize banks



After – As-built toewood structure to reduce shear stress on outer meander banks and provide habitat

**Stream Restoration Before & After – North Stirrup Run
(2015)**



After – Portion of stream 3 years after construction

Stream Restoration Before & After – North Stirrup Run
(2015)



After – As-built livestock exclusion fencing and cattle crossing

**Stream Restoration Before & After – North Stirrup Run
(2015)**



After – Livestock exclusion fencing and cattle crossing 3 years after construction