

**Preliminary Cost Estimate:**

Conceptual Approach

Streambank soil erosion repairs and restoration along selected portions of Axtell Creek stretch #5 upstream of Crosstown Ponds. Complete streambank soil erosion repairs, restoration, and re-vegetation around the south Crosstown Pond. This work includes engineering, permitting, excavation, grading, bioengineering, and re-vegetation. Replace older catch basin structures within upland contributing drainage areas with dry well infiltration structures (could potentially be worked into upcoming roadway improvement projects). Create new vegetated filtration swales where possible.

Description	Qty.	Unit	Unit Cost	Cost
<b><i>Axtell Stretch 5 - Streambank Vegetative Buffers</i></b> 803 ft x 2 vegetative buffer (20 ft width)	0.75	ac	\$2,500	\$1,875
<b><i>Axtell Stretch 5 - Pond Bank Stabilization/Vegetation</i></b> 1290 ft perimeter bank reshaping around south pond (i.e., limited excavation, grading, willow stakes, erosion control blankets, etc.)	1,290	ft	\$20	\$25,800
1290 ft perimeter vegetative buffer (20 ft width)	0.6	ac	\$2,500	\$1,500
<b><i>Axtell Stretch 5 - Upland Improvements</i></b> * Infiltration Structures within 263 acres of drainage area (assume 1 structure per 5 acres)	52	ea	\$5,000	\$260,000
vegetated filtration swales (10% of structure costs)				\$26,000
			Subtotal	\$315,175
			Contingency (20%)	\$63,035
			Engineering Fees (10%)	\$37,821
			<b>Estimated Total</b>	<b>\$416,031</b>

**Notes:**

\* Dry well structures alone may not be protective of groundwater in some instances. Addition of a Vortechinics "pretreatment" structure would potentially add approximately \$12,000 per structure.