

# McDannell Run Stream Bank Restoration

**Grant Number:** C990002979

**Sponsor:** City of Erie

**Project Description:** The first phase of the McDannell Run restoration addressed severe streambank erosion and non-point source pollution impacting Lake Erie. Completed between June and August 2023, the project stabilized 800 feet of streambank in McClelland Park using BMPs such as riparian buffer plantings, streambank grading, and erosion control techniques.

**Project Goals:** Reduce sediment and nutrient loading (Total Nitrogen and Total Phosphorus) into McDannell Run and Lake Erie, stabilize eroded streambanks to prevent further degradation, enhance aquatic habitats and improve ecological health.

**Project Results:** The project improved water quality and stream stability, benefiting the Lake Erie watershed and providing healthier habitats for aquatic life.

Metric	Reduction Achieved
Sediment Load	35,904 lbs/year
Total Nitrogen (TN)	60 lbs/year
Total Phosphorus (TP)	54.4 lbs/year

## Project Costs:

- **Total Project Cost:** \$244,876.78
- **DEP Growing Greener Grant:** \$210,720

**Lessons Learned:** Weather delays and unexpected site conditions were resolved through schedule adjustments and minor design modifications. Community outreach minimized disruptions, ensuring project success.

**Partners:** City of Erie, Pennsylvania Lake Erie Watershed Association (PLEWA), Amendola Construction, Stahl Shaffer Engineering

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**Photos:** Before (June, 2023) and after photos (August, 2023)

