



Village of Lake in the Hills
ILLINOIS



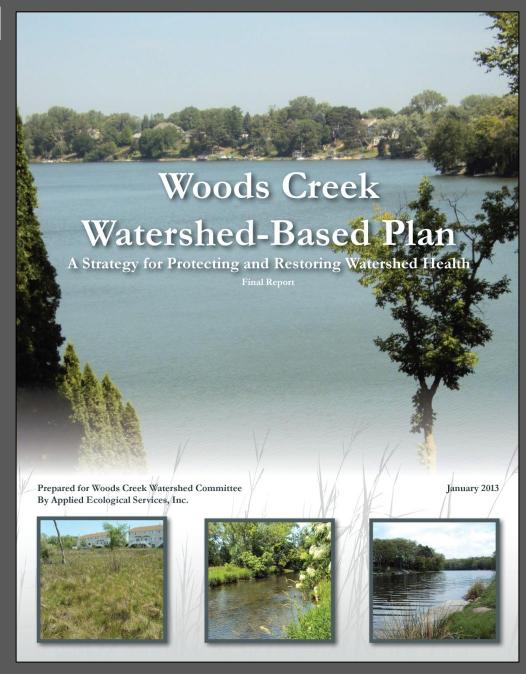






WOODS CREEK WATERSHED PLAN

- Planning effort in 2012-2013
 between Lake in the Hills,
 Algonquin, Crystal Lake Park District,
 and Crystal Lake to evaluate the
 ecological health of Woods Creek
 Watershed and identify potential
 ecological restoration projects to
 improve water quality.
- High priority projects in plan are eligible for Illinois EPA 319 Grants.



PREVIOUS STREAM PROJECTS IN WOODS CREEK WATERSHED

- Woods Creek Reaches 2-4
 Algonquin (2017-2021)
- Woods Creek Tributary
 Crystal Lake Park District (2018)
- Woods Creek Reach 10 Lake in the Hills (2019)





Main Branch

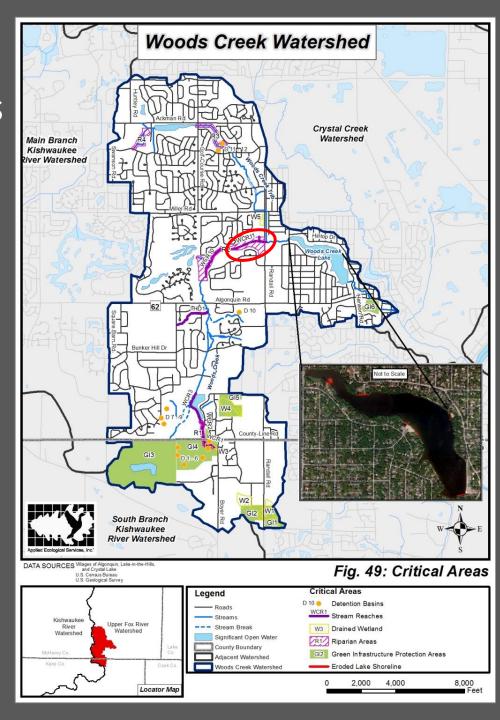
Kishwaukee iver Watershed Woods Creek Watershed

Crystal Creek

WOODS CREEK REACH 11

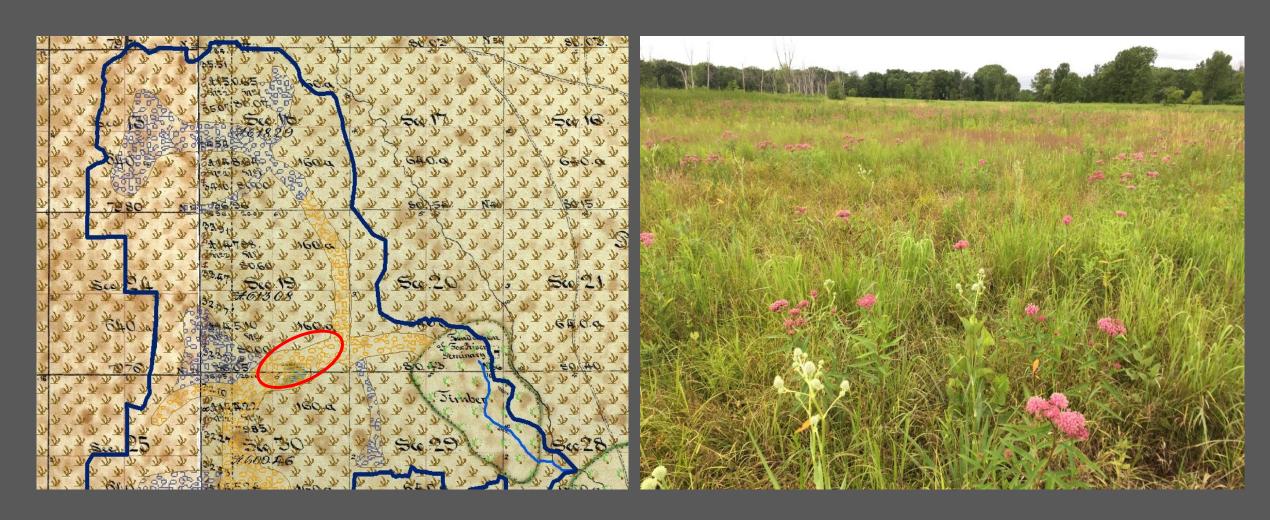
- Woods Creek Reach 11 is identified as a "Critical Area".
- LITH applied for and was awarded Illinois EPA 319 Grant in in 2019/20.
- IEPA = 60% of project cost LITH = 40% of project cost





WOODS CREEK PRIOR TO EUROPEAN SETTLEMENT (1830'S)

 Woods Creek did not exist historically. Rather it was a low wet area described as marsh and wet prairie and was devoid of trees.



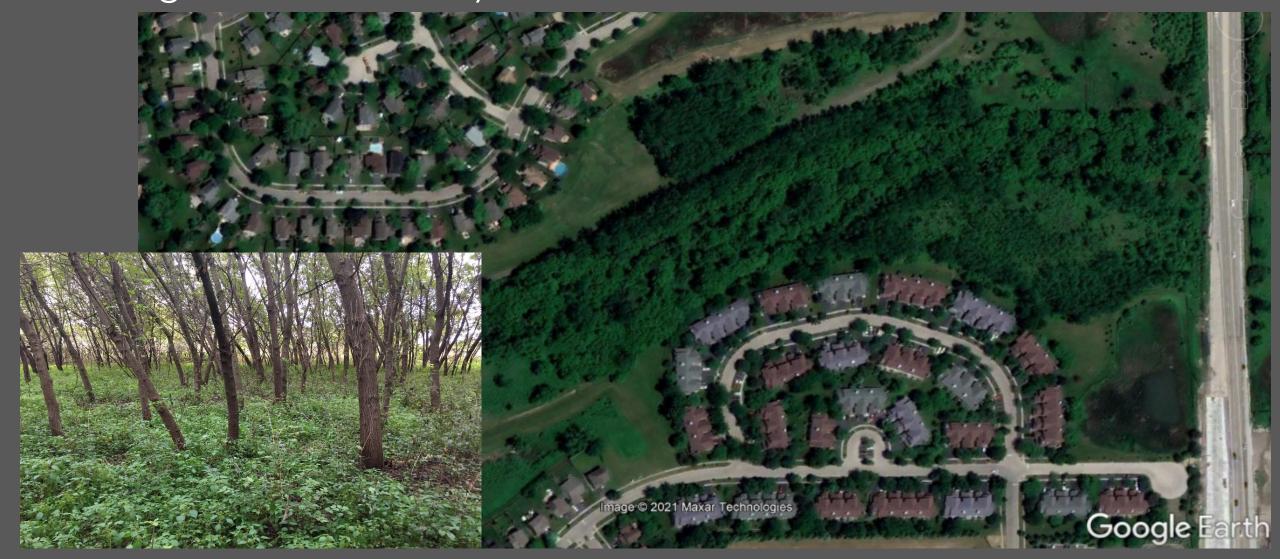
WOODS CREEK-1939

• Woods Creek Reach 11 was nearly devoid of trees in 1939.



WOODS CREEK TODAY

 Woods Creek is now surrounded by residential development and overgrown with weedy/invasive trees and shrubs.



WOODS CREEK REACH 11 RESTORATION GOALS

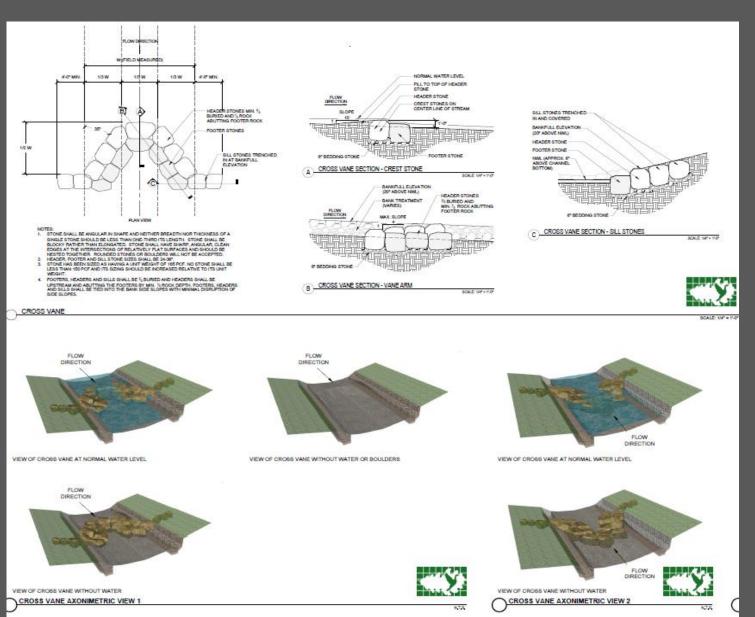
- Reduce need for future dredging of Woods Creek Lake.
- Improve water quality.
- Improve green infrastructure.
- Improve wildlife and pollinator habitat.
- Improve passive recreation opportunities.
- Provide education opportunities.

STEP1: INVASIVE TREE & SHRUB REMOVAL

• Tree removal is messy and will be a shock but is essential.



STEP 2: STREAMBANK & CHANNEL RESTORATION





STEP 3: SEEDING & EROSION CONTROL



NATIVE VEGETATION RESTORATION







NATIVE VEGETATION ESTABLISHMENT

It takes three years for native vegetation to establish from seed.



Year 3: Leap

ECOLOGICAL MANAGEMENT

Three years of management is included in grant.

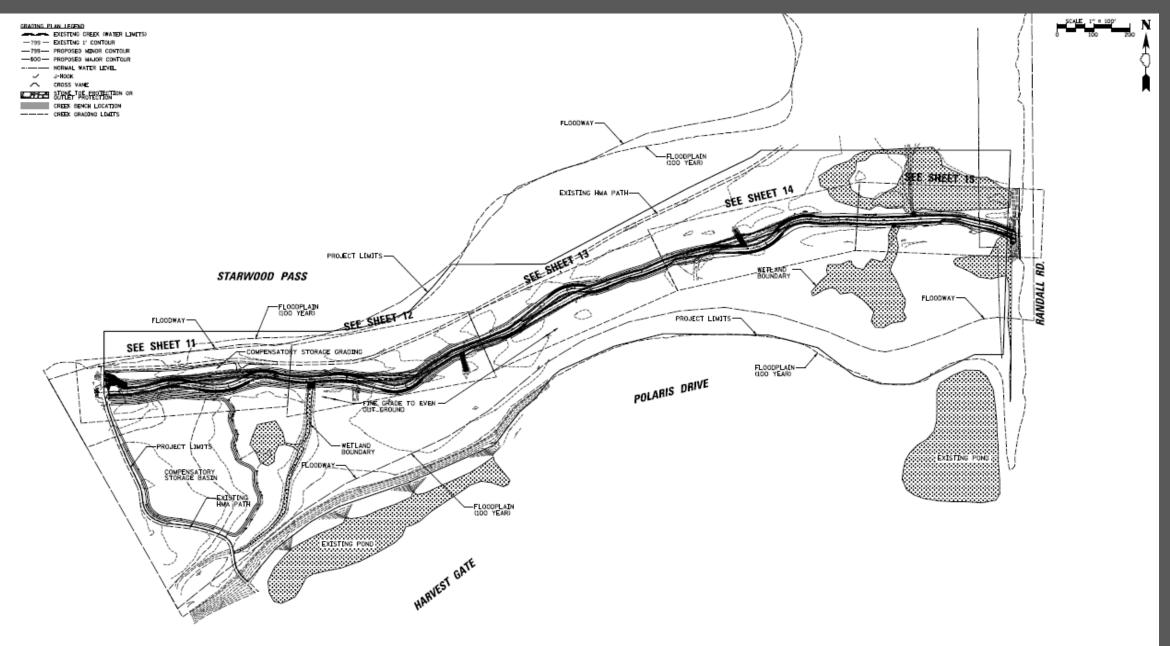


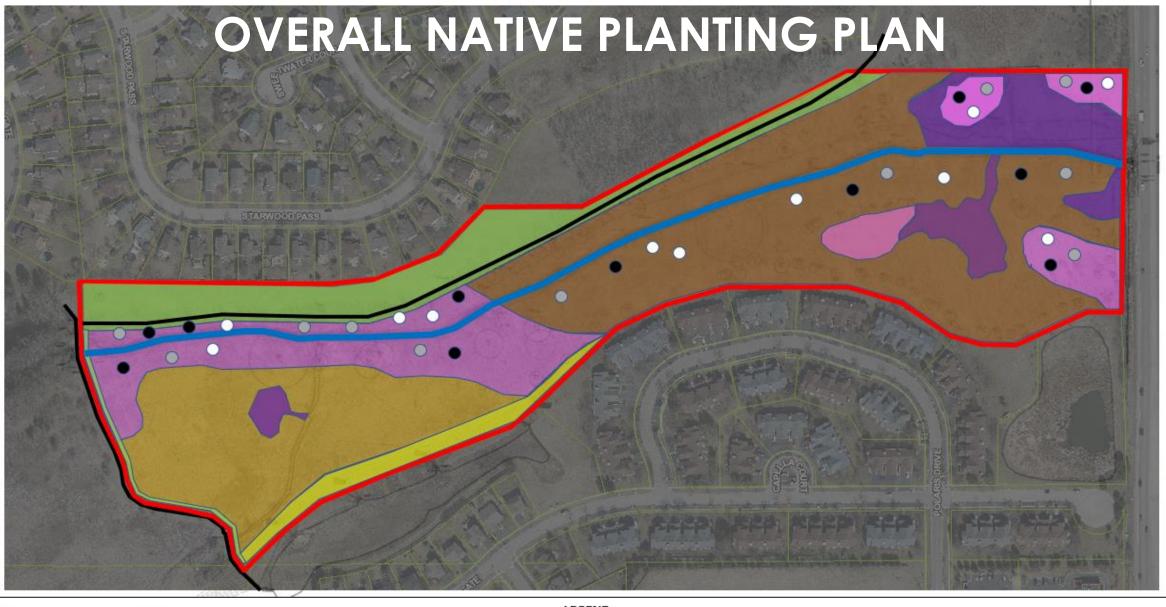


OVERALL TREE PRESERVATION/REMOVAL PLAN

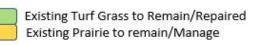


OVERALL GRADING PLAN









LEGEND

Wet Prairie/Sedge Meadow Seeding Wet Savanna/Prairie Seeding Mesic Prairie Seeding Wet-Mesic Savanna/Prairie Seeding

- Swamp White Oak (Quercus bicolor) (11-2.5" caliper)
- Sycamore (Platanus occidentalis) (11-2.5" caliper)
-) Hackberry (Celtis occidentalis) (11-2.5" caliper)

OVERALL EROSION CONTROL PLAN

