



# Bull Creek-Bull's Brook Watershed Council

Thursday, September 17, 2015

1:00 PM - 3:00 PM

Libertyville Township

359 Merrill Court

Libertyville, IL 60048

## Meeting Agenda

- I. Welcome and Introductions**  
Kathleen O'Connor, Libertyville Township  
Patty Werner, Lake County Stormwater Management Commission
- II. Review/Accept June Meeting Report – Kathleen O'Connor**  
**Report on August Leadership Team Meeting**  
Request volunteer note taker(s) for meeting report
- III. Program topic:**  
**Nathan Aaberg, Liberty Prairie Foundation, and Joe Marencik, Prairie Crossing Environmental Team** will tell us about Prairie Crossing as the conservation community in Grayslake celebrates its anniversary. They will describe the history, features, community aspects, and will share information about the unique design of the important natural features the community is nationally recognized for.  
  
The natural areas of Prairie Crossing consist of an interwoven network of prairies, lake, wetlands and ponds that drain to Bull's Brook and Bull Creek. These systems work together to form a stormwater treatment train. While the presentation will focus on Lake Leopold, the 22-acre manmade lake that provides stormwater detention is one of the cornerstones of the community, other aspects of the system, such as the prairies and ponds, will also be covered. Joe will describe a recent shoreline stabilization project underway on the north bay of the lake.
- IV. Des Plaines River Watershed Plan – Patty Werner**
  - a. Bull Creek-Bull's Brook Watershed Plan Update
  - b. Stream inventory of Bull Creek-Brook in Fall 2015
- V. Update on Watershed Council Work Plan for 2015 – Patty Werner/Kathleen O'Connor**
- VI. Upper Des Plaines Watershed Work Group Membership Discussion & Vote – Patty Werner**
- VII. Stakeholder Project Updates/Announcements**
- VIII. New Business**
- IX. Adjourn**

# Liberty Prairie Foundation

## **Prairie Crossing at Twenty: Overview & Lessons Learned From a Conservation Community**

*September 17, 2015*





WELLER BROS.

# Liberty Prairie Reserve, 1939





# Prairie Crossing

---

## Guiding Principles

- **Environmental protection and enhancement**
- **Healthy lifestyle**
- **Sense of place**
- **Sense of community**
- **Economic and racial diversity**
- **Convenient and efficient transportation**
- **Energy conservation**
- **Lifelong learning**
- **Aesthetic design and high-quality construction**
- **Economic viability**



# Prairie Crossing



## LEGEND

- STATION VILLAGE
  - PHASES I AND II
  - HEDGEROW DRIVE
  - JOHN GAGE PARK
  - PRAIRIE CROSSING BUILDINGS
  - FUTURE DEVELOPMENT
  - WETLANDS
  - PHASE V
  - LIBERTY PRAIRIE RESERVE
- The Liberty Prairie Reserve, which includes Prairie Crossing and extends to the Oak Parkes River Valley three miles to the east, contains almost 3,200 acres of legally protected land. It is a cooperative venture by the Libertyville Township Open Space District, the Lake County Forest Preserve District, and private land owners. Public trail access within the Reserve is being extended.
- TRAIL SEATS
  - RESTROOMS
  - REGIONAL TRAILS
  - PLAYGROUNDS
  - LOCAL TRAILS
  - PRAIRIE CROSSING TRAILHEAD STATIONS

## LOCATION MAP



SITE DATA		ACRES	% OF SITE
RESIDENTIAL LAND	382	135	20%
OPEN SPACE	470	69%	
Interior Open Space			
Amenity/Recreational Open Space			
Protected Agriculture Land			
Rights of Way	73	11%	
COMMERCIAL/INDUSTRIAL			
TOTAL PRAIRIE CROSSING SITE	678	100%	

Revised General Plan 2003  
Scale in Feet









# Prairie Crossing

---

- 1. 360 Single Family Homes, 36 Condominiums**
- 2. Lots: 5,000 and 15,000 square feet**
- 3. House sizes: 1,100 – 3,400 square feet**
- 4. Total size: 675 acres**
- 5. Open space: 470 acres (69% - includes natural areas, lakes & ponds, farm, and horse pasture); 190 acres under easement**
- 6. All homes have views of common areas and/or open space**
- 7. 10 miles of trails**
- 8. 9 native fish species & 9 frog/toad species**
- 9. 14 ongoing or annual social events organized by residents**
- 10. 46 garden plots with 50% used by non-residents**





A white rectangular sign with black text is mounted on two wooden posts. The sign is positioned in the foreground of a lush meadow filled with various wildflowers, including yellow dandelions, white daisies, and purple flowers. In the background, there are green trees and a house with a chimney under a clear blue sky.

# NATIVE MEADOW RESTORATION

For more information  
call Mike Sands 847-548-4062















# Prairie Crossing

## Developers' Key Lessons

1. Create an analytical framework for making decisions
2. Plan for the landscape first
3. Design buildings that relate to the site and environment
4. Keep public purposes in mind in the design and in promoting a web of support organizations and services to meet many needs (schools, transportation, health, public buildings, advocacy, etc.)

# Prairie Crossing

## Other Lessons & Challenges

1. Requiring vs. persuading – find the right balance
2. Education is critical for living with wildlife
3. The right rules are needed on homeowner burning
4. Find good contractors & develop good relationships with them
5. What happens when true believers transition out?
6. Do things the right the first time





Surveying fish in Sanctuary Pond  
(Jim Bland & Sandi Morris),  
*Conserve Lake County 2010*



Fish of Sanctuary Pond,  
*Conserve Lake County 2010*

# Prairie Crossing

**A prairie or any other natural system, especially in a world of invasive plants and disturbed soils and hydrology, is not a maintenance free landscape.**



# Volunteer Engagement

## 2012

39 work events

30 individual residents attended at least one

424 volunteer hours on invasive species, prescribed burns and planting plugs

## 2013

48 workday events

40 individual residence participated

550 total volunteer hours on invasive species, prescribed burns, and plug planting

## 2014

38 events

42 individual residence participated in at least one event

463 total volunteer hours on invasive species, prescribed burns and plug planting













# CONSERVATION @ HOME

This property supports  
clean water,  
rich soil and  
resilient ecosystems



**CONSERVE**  
LAKE COUNTY

Healthy Land for a Better Life

[www.ConserveLakeCounty.org](http://www.ConserveLakeCounty.org)

Certified by Conserve Lake County

A program of The Conservation Foundation  
Funded in Lake County in part by the Grand Victoria Foundation



# Liberty Prairie Foundation

**We welcome your feedback and questions.**

**Nathan Aaberg**

**Program Director**

**[nathan@libertyprairie.org](mailto:nathan@libertyprairie.org)**

**847-548-4062, ext. 21**

A large field of pink coneflowers (Echinacea) in full bloom, stretching towards a sign in the background. The sign reads "Prairie Crossing" with a small logo. In the distance, there are trees and another sign that says "The Byron Colby Barn" and "Prairie Crossing" with contact information.

Prairie Crossing

# Prairie Crossing Environmental Management

Joe Marencik

Prairie Crossing Environmental Team

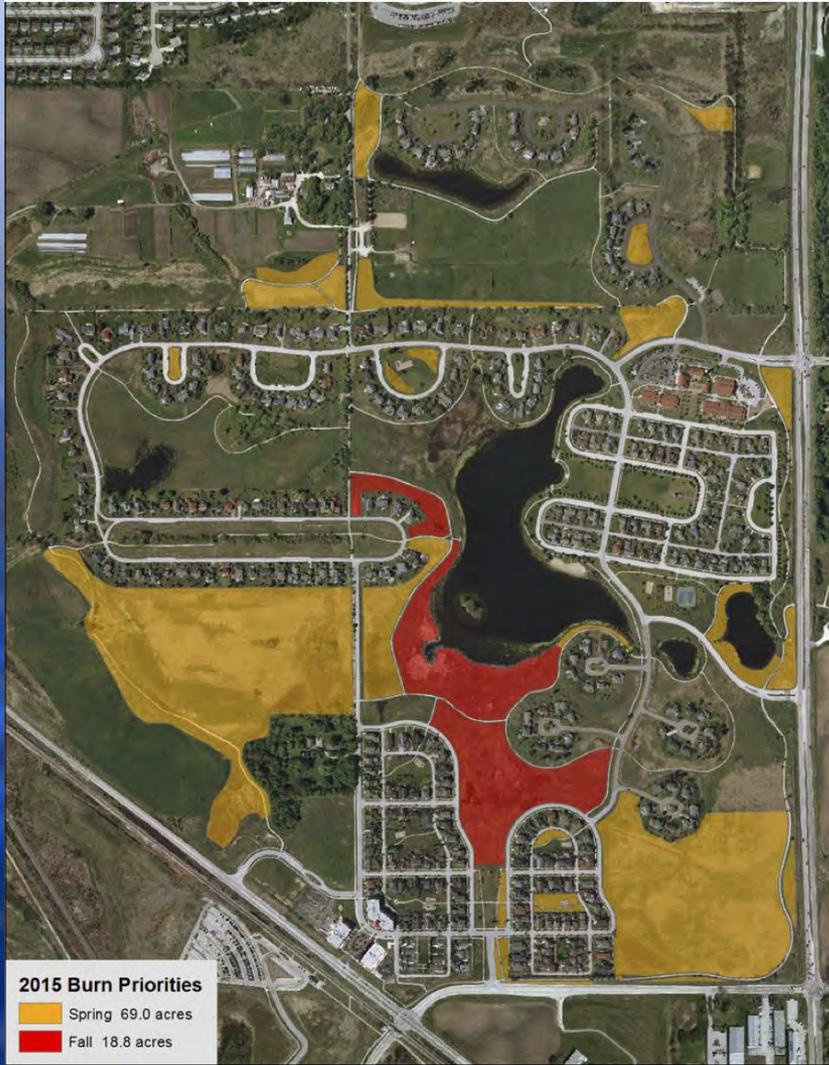
# Environmental Management

- ◆ Prairies - 174.1 acres (62%)
- ◆ Wetlands - 29.7 acres (11%)
- ◆ Lake & Ponds - 27.3 acres (10%)
  - ◆ Lake Aldo Leopold - 22 acres
  - ◆ Sanctuary Pond 2.4 acres
  - ◆ Ponds 2 & 3 - 2.9 acres -0.8/2.1
- ◆ Turf - 29.9 acres (11%)



# Prairies

- ◆ Mostly tall grass dominated w/ some forb based areas
- ◆ Most was seeded
  - ◆ Some supplemented with plugs
- ◆ Constant battle against invasives
  - ◆ Yellow and white sweet clover, thistle, teasel, RCG, crown vetch, birdsfoot trefoil
- ◆ Managed through hand pulling, herbicides and rotational burning
  - ◆ Contractor and volunteers





# Wetlands

- ◆ All are cattail dominated
- ◆ Invasives biggest issue
  - ◆ Purple loosestrife, reed canary grass, Phragmites, willows, etc.
- ◆ Varying degrees of management
  - ◆ Herbicide
  - ◆ Fire (mostly in fall)



# Ponds

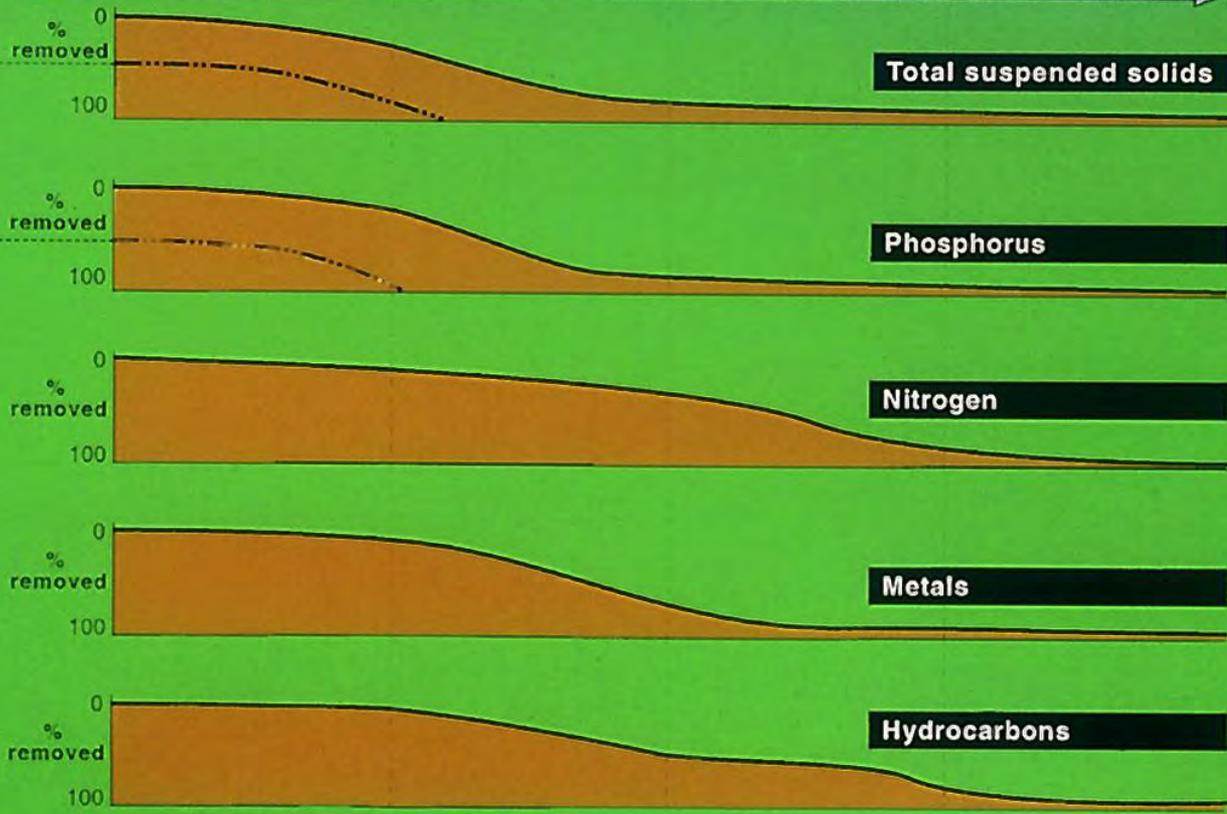
- ◆ Sanctuary Pond
  - ◆ *Chara* and coontail dominated
  - ◆ 4 State of Illinois T&E fish species
  - ◆ Minimal management
- ◆ Ponds 2 & 3
  - ◆ Stormwater
  - ◆ Habitat
  - ◆ Minimal management



# Stormwater Treatment Train



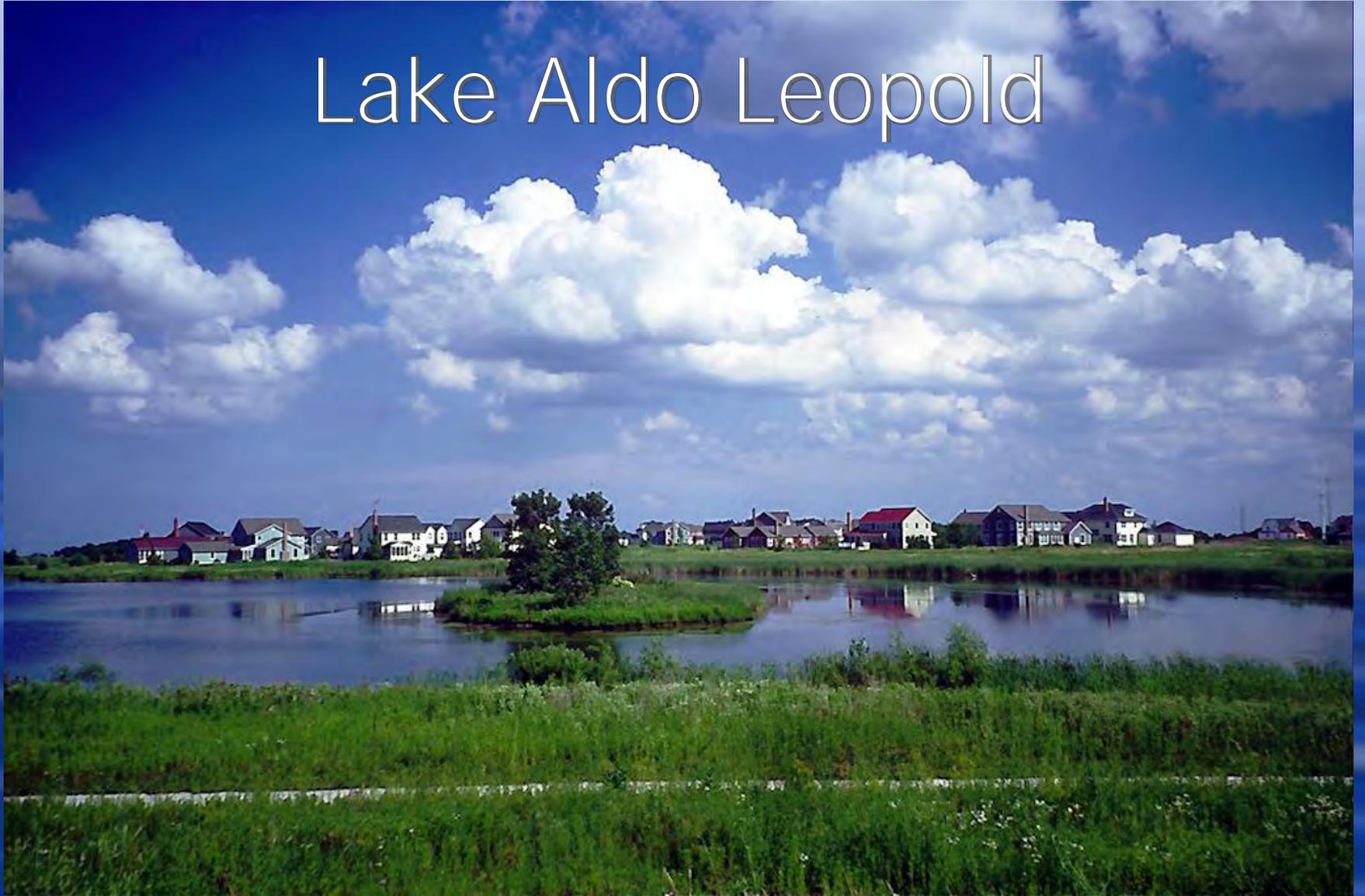
Source management



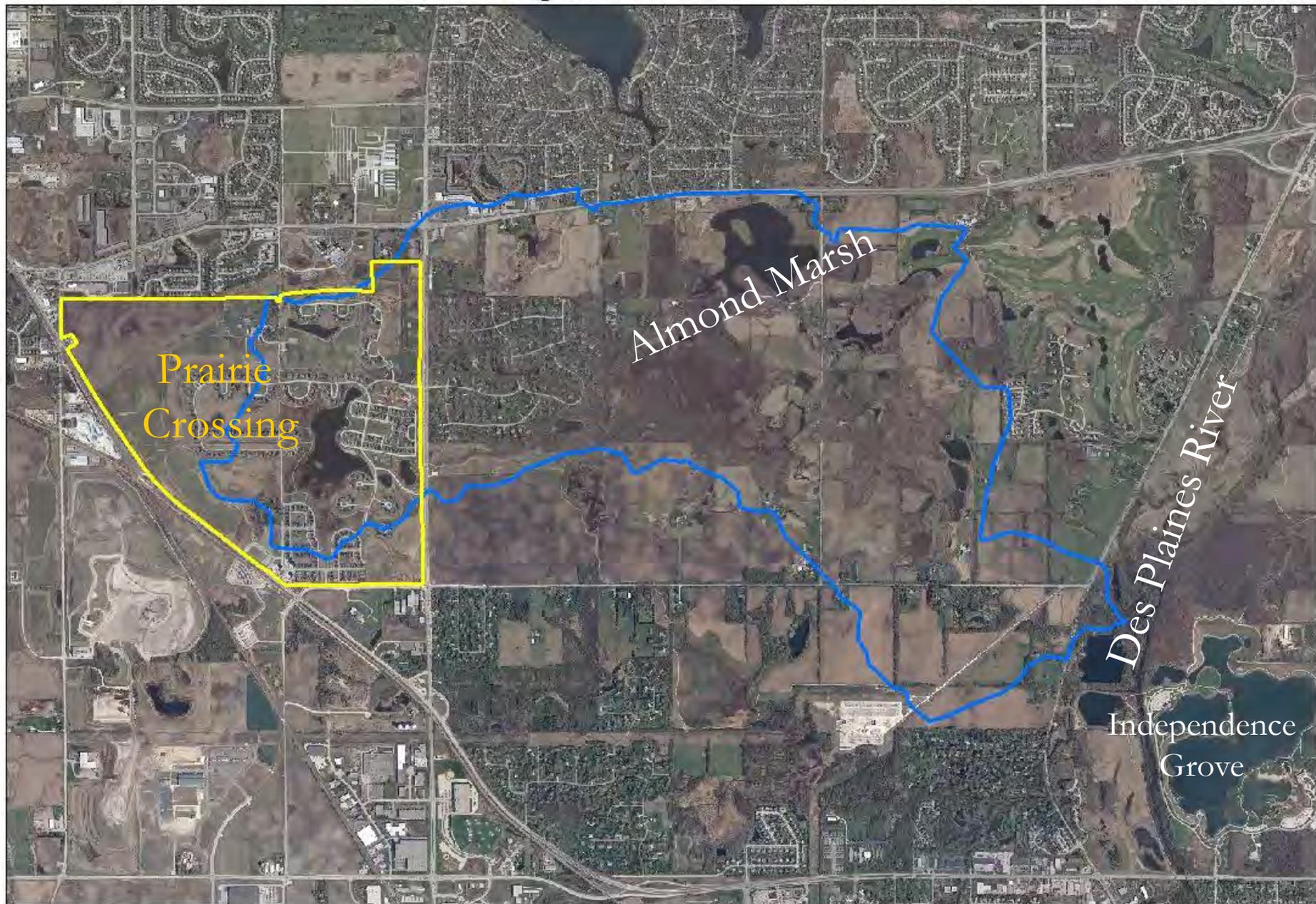
# Long Term Management

- ◆ Identify problems quickly and act accordingly
- ◆ You need contractors
  - ◆ **You won't get it done with volunteers**
- ◆ Try to focus on the long game and not get discouraged
- ◆ Be willing to try something different

# Lake Aldo Leopold



# Prairie Crossing and Bull's Brook Subwatershed



0 0.5 1 2 Miles

# Lake Aldo Leopold

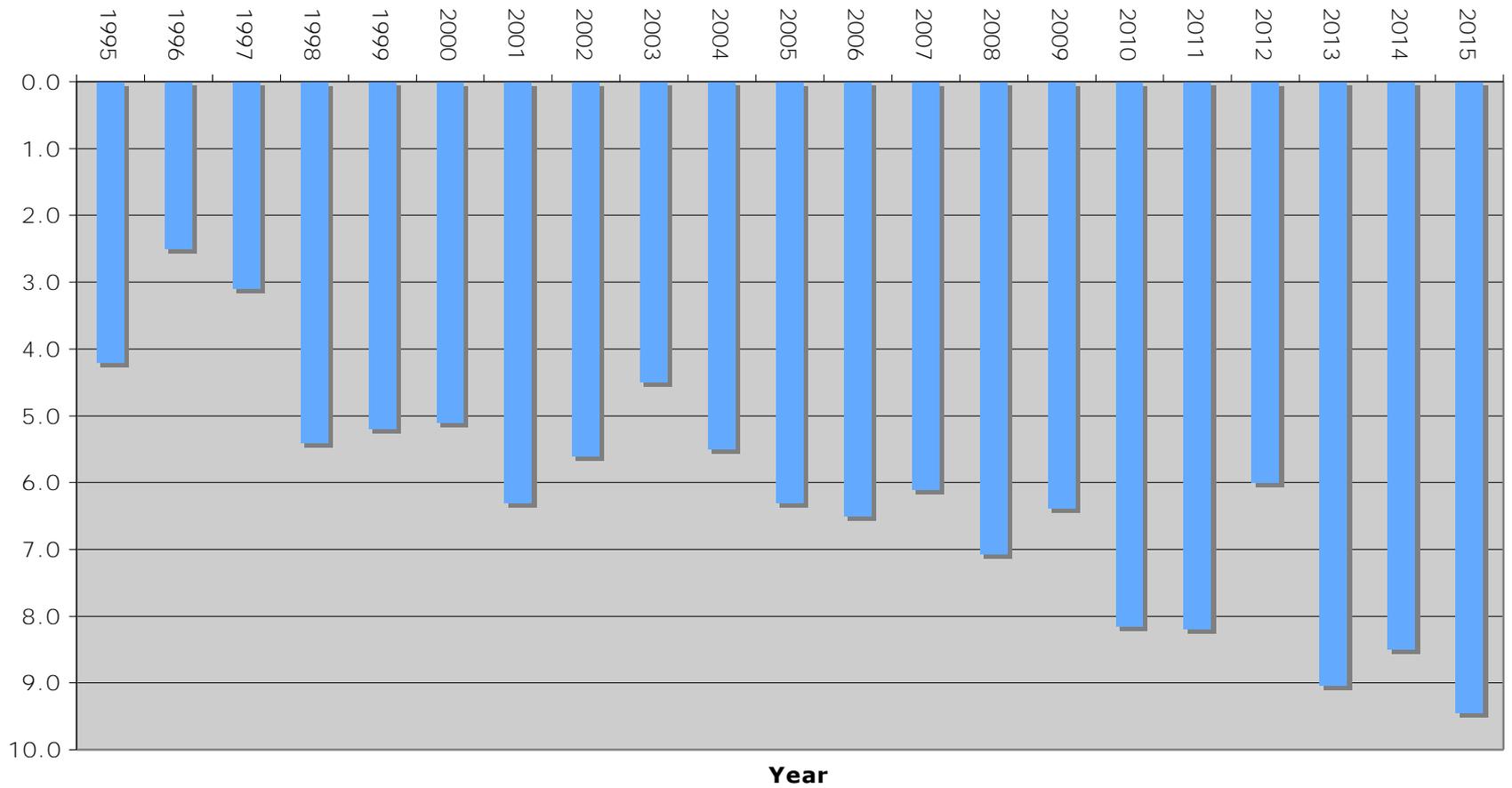
- Constructed in 1994 -1995
- 22 Acres
- Max/Avg Depth - 16 ft/6.5 ft
- 65% of the stormwater drainage from PC
- Long retention time (>3 years)
- **Headwaters for Bull's Brook**
- Water quality data from 1995-present
  - Contracted 1995-2006
  - VLMP ~ 2007 - present

# Water Quality

- ◆ Overall, very good water quality
  - ◆ Low total phosphorous (avg. 0.038 mg/L)
  - ◆ Low suspended solids (often ND)
  - ◆ High clarity (avg. Secchi 6.1 ft 1995-2015)
    - ◆ Increasing overtime



**Lake Leopold Avg. Secchi Depth (1995-2015)**



# Plants and Fish

- ◆ 17 Species of aquatic plants
- ◆ 8 species of fish
  - ◆ IL T&E - Blackchin Shiner, Blacknose Shiner, Iowa Darter, Banded Killifish



QuickTime™ and a  
decompressor  
are needed to see this picture.

# Management Issues

# Beach

- ◆ Maintenance
- ◆ LCHD closures
- ◆ Sand migration
- ◆ Waterfowl
- ◆ Boat storage



# Aquatic Plants

- ◆ Building densities of EWM late 90s-2012
- ◆ Stocked EWM weevils on several occasions
  - ◆ Unreliable results
- ◆ Whole lake treatment for EWM - May 2012
  - ◆ Still EWM free
- ◆ Misc. plants/filamentous algae control
  - ◆ Filamentous Algae, *Chara*, Coontail
  - ◆ Spot treatments
  - ◆ Harvesting
  - ◆ Beach, access points, north bay

# Long Term Management Issues

## ◆ Fisheries

- ◆ Overabundance of small bluegill
- ◆ Bottleneck in LMB population
- ◆ Channel Catfish stocking
- ◆ Temporary guidelines
- ◆ Revisit in 4 years

## ◆ Muskrats

- ◆ Culling spring 2015
  - ◆ 18 muskrats
- ◆ Follow up in Spring 2016



# Shoreline Erosion

- ◆ Erosion along most of the shoreline
  - ◆ Steep slopes
  - ◆ Wind/waves
  - ◆ Muskrats
- ◆ Mid 2000s
  - ◆ Small cobble apron along several areas
  - ◆ 10 years on these areas have remained stabilized
  - ◆ Not much near shore habitat
- ◆ 2010 ILEPA 319 grant
  - ◆ Shoreline planting for stabilization and habitat

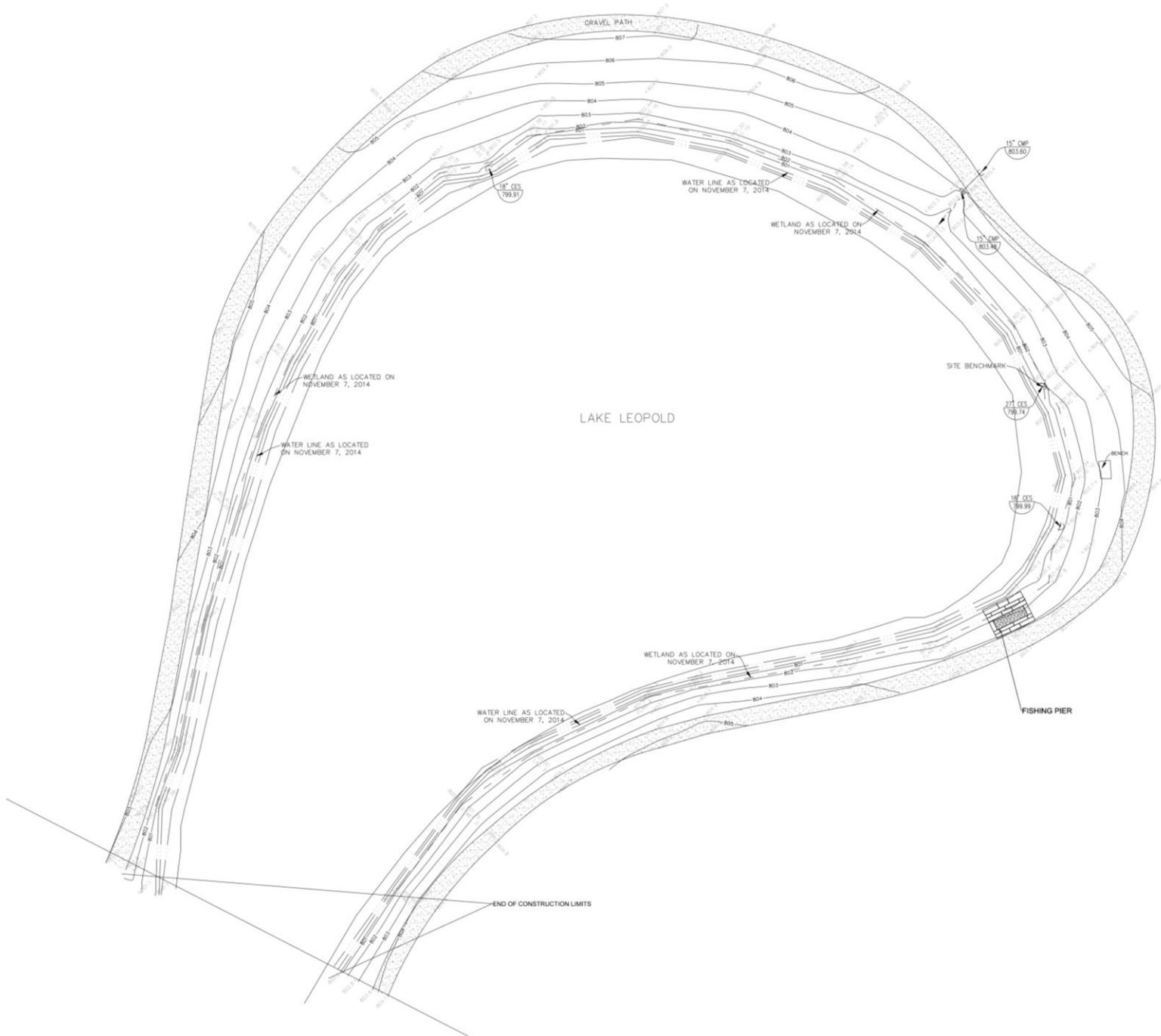
# North Bay

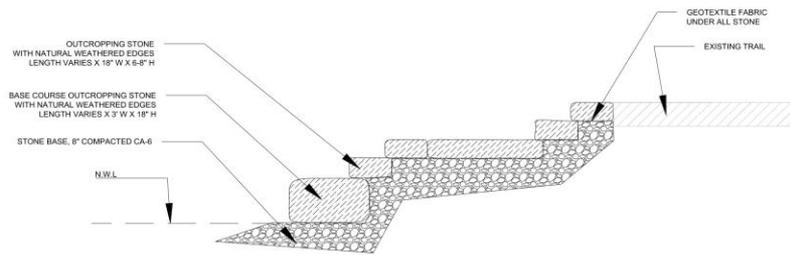
- ◆ Widespread erosion
- ◆ Very steep slopes (2:1)
- ◆ Concentrated muskrat activity
- ◆ Undercutting/sloughing

# North Bay Project

- ◆ 900 feet of shoreline
- ◆ Mix of cobble and bioremediation
  - ◆ Cobble apron
  - ◆ Vegetated soil lifts
  - ◆ Upslope plugs and seeding
  - ◆ Emergent plugs
- ◆ Herbivory protection
- ◆ Reset culvers

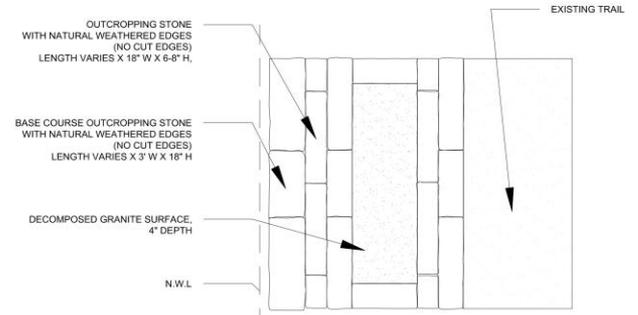






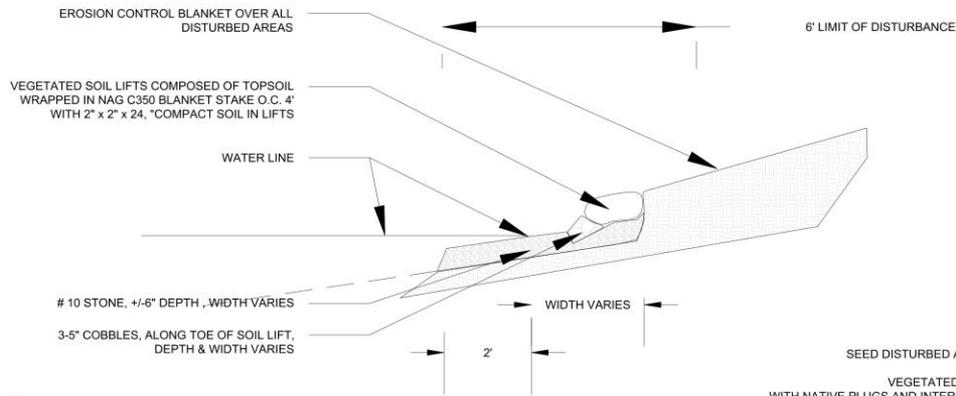
1 Fishing Pier Section View

Scale: 3/4" = 1'-0"



2 Fishing Pier Plan View

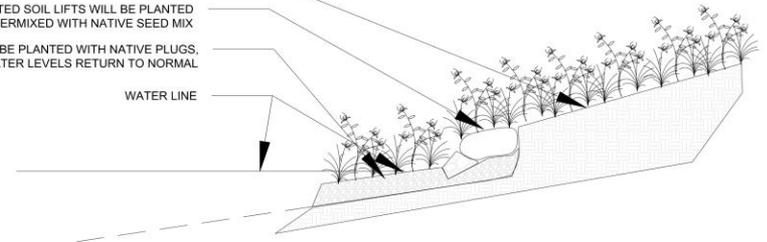
Scale: 3/4" = 1'-0"



3 Shoreline Stabilization - Section Hardscape

Scale: 3/4" = 1'-0"

SEED DISTURBED AREAS WITH NATIVE SEED MIX  
 VEGETATED SOIL LIFTS WILL BE PLANTED WITH NATIVE PLUGS AND INTERMIXED WITH NATIVE SEED MIX  
 #10 STONE WILL BE PLANTED WITH NATIVE PLUGS.  
 PLANTING WILL OCCUR WHEN WATER LEVELS RETURN TO NORMAL



4 Shoreline Stabilization - Section Vegetative

Scale: 3/4" = 1'-0"



# Des Plaines River Watershed Workgroup and Des Plaines River Watershed Planning and Projects

**Des Plaines River**  
Watershed Workgroup



Lake County Stormwater Management  
Commission  
Bull Creek-Bull's Brook Watershed  
Council Meeting September 17, 2015

# Des Plaines River Watershed

- Covers 200 square miles
- Kenosha, Lake, Cook and DuPage Counties
- Flows into the Kankakee, the Illinois and the Mississippi Rivers



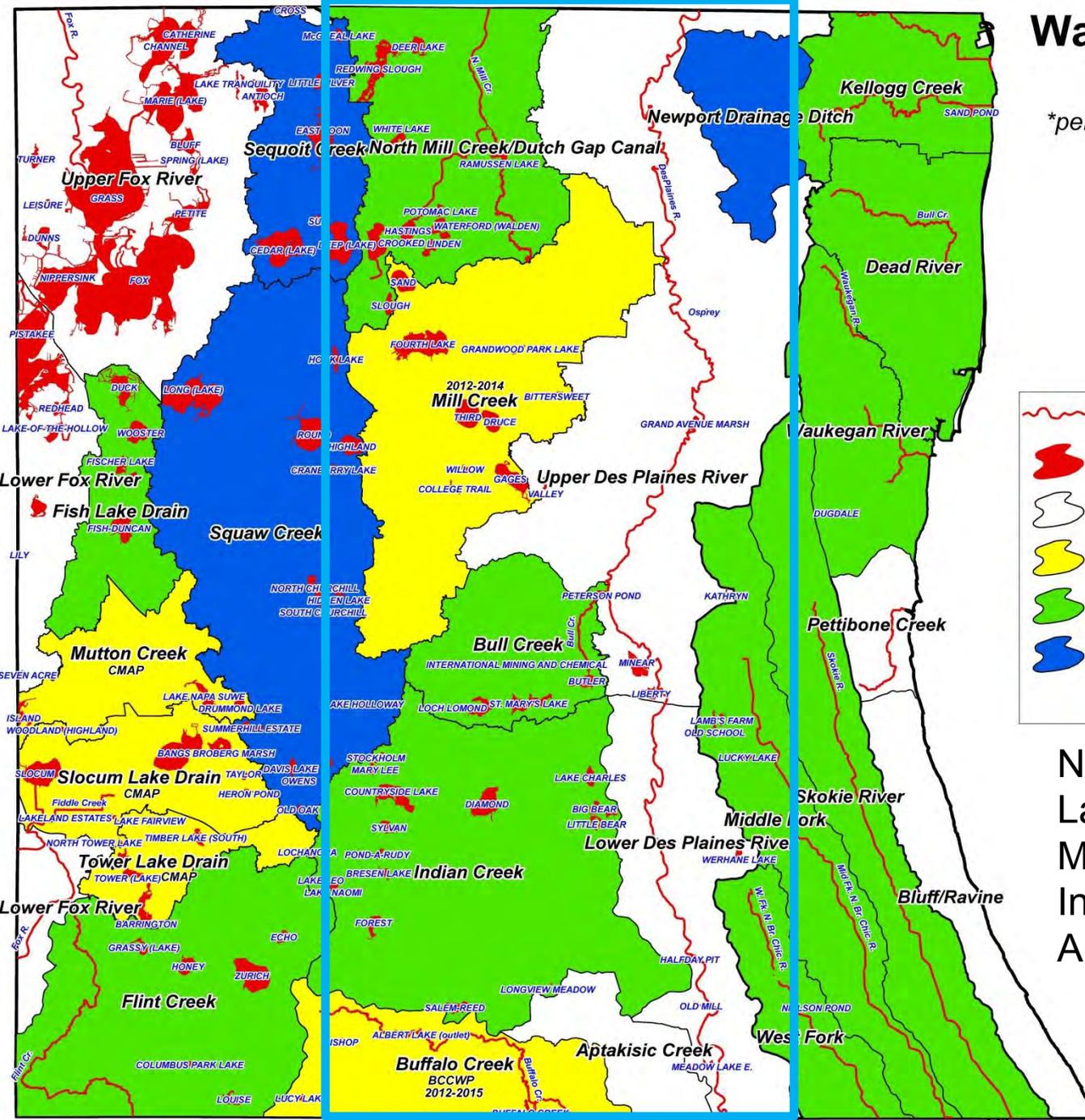
# Watershed-Based Plan Status\*

\*per sub-watershed as of March 2014  
including Illinois EPA 2012  
303(d) Impaired Waters.



-  303D Listed Streams
-  303D Listed Lakes
-  No Watershed-Based Plan
-  Watershed-Based Plan: In Progress
-  Watershed-Based Plan: Complete
-  Watershed Plan Complete (Not Watershed-Based Plan)

Nine subwatersheds in Lake County: North Mill, Mill, Newport, Upper, Bull, Indian, Lower, Buffalo, Aptakistic



# Status

- 250 miles of stream
  - 81 miles have been assessed
  - 57 miles are impaired
- 49 lakes (lake is greater than 20 acres)
  - All have been assessed
  - 28 are impaired
- 272,937 people in the watershed in Lake County



## Water Quality

- Portions are listed as impaired by Illinois EPA
- Total Maximum Daily Loads (TMDLs – pollution diets) completed for southern half



### Watershed impairments

- Arsenic
- Chloride
- Dissolved oxygen
- Fecal coliform
- Iron
- Manganese
- Methoxychlor
- Mercury
- Phosphorus
- Polychlorinated biphenyls
- Total suspended solids

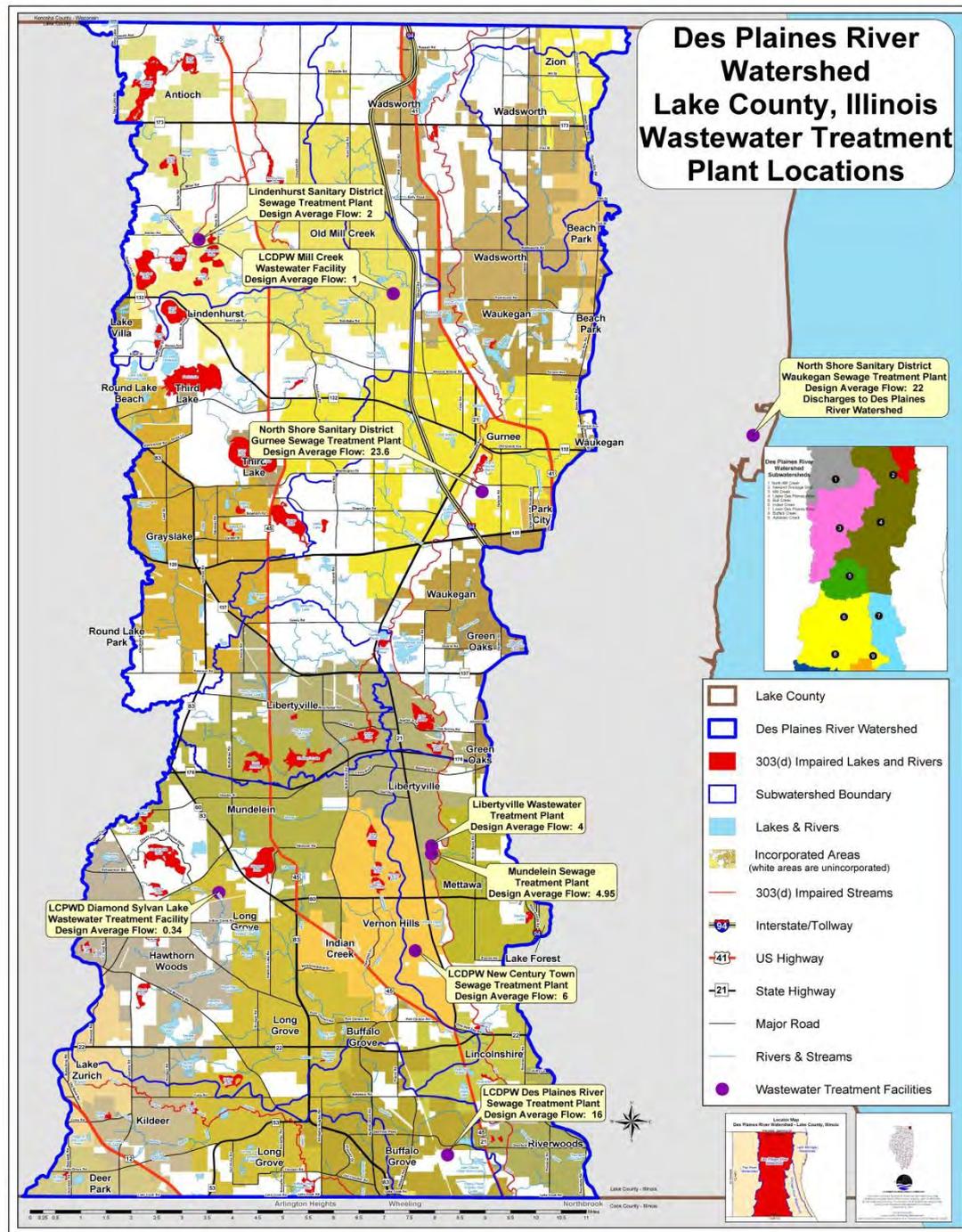
# Wastewater and Stormwater Permits

## MS4s

- 33 municipalities
- 12 townships
- 2 drainage districts

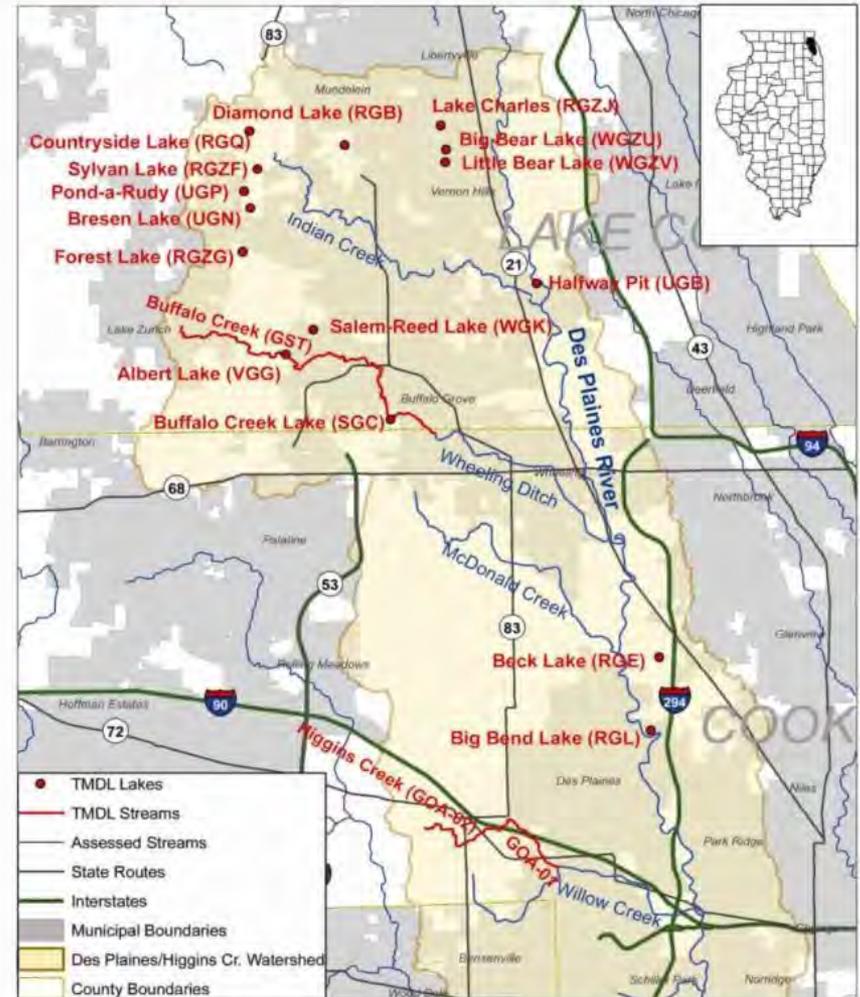
## POTWs

- 8 public wastewater treatment plants that discharge 80 MGD
  - Phosphorus restrictions



# TMDL Segments

Waterbody Name	Segment ID	Impairment
Albert Lake (outlet)	IL_VGG	Dissolved oxygen
Beck Lake	IL_RGE	Phosphorus (total)
Big Bear Lake	IL_WGZ U	Phosphorus (total)
Big Bend Lake	IL_RGL	Phosphorus (total)
Bresen Lake	IL_UGN	Phosphorus (total)
Buffalo Creek	IL_GST	Chloride, dissolved oxygen, fecal coliform
Buffalo Creek Lake	IL_SGC	Dissolved oxygen, phosphorus
Countryside Lake	IL_RGQ	Phosphorus (total)
Diamond Lake	IL_RGB	Phosphorus (total)
Forest Lake	IL_RGZG	Phosphorus (total)
Halfday Pit Lake	IL_UGB	Dissolved oxygen
Higgins Creek	IL_GOA-01	Chloride, fecal coliform
Higgins Creek	IL_GOA-02	Chloride, dissolved oxygen, fecal coliform
Lake Charles	IL_RGZJ	Phosphorus (total)
Little Bear Lake	IL_WGZV	Phosphorus (total)
Pond-A-Rudy	IL_UGP	Dissolved oxygen
Salem-Reed Lake	IL_WGK	Phosphorus (total)
Sylvan Lake	IL_RGZF	Fecal coliform, phosphorus (total)



# The Problem

- Water quality and aquatic life – moving from fair to poor
- TMDLs need to be implemented – a.k.a. pollutants need to be reduced/limited
- Limited monitoring data – we don't really know what the problem is:
  - 1) we don't know how many stream segments and lakes are impaired, and
  - 2) we don't know that removing the identified pollutants will actually improve aquatic life



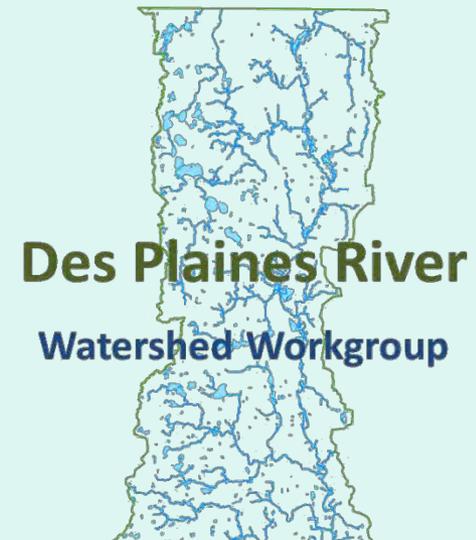
# Organization

- Dues paying, membership organization with the ultimate goal of improving water quality
- Dues based on daily average flows for wastewater POTWs and area within the watershed for MS4s. POTWs responsible for 66% of dues, MS4s for 33%
- Membership categories:
  - Agency members – NPDES permit holders
  - Associate members – no NPDES permit
  - Individual members
- Quarterly membership meetings
  - Executive committee meets as needed
  - Monitoring, lakes, & impairments committees



## What will the DRWW do?

- Monitor water quality
  - Biological – fish and macroinvertebrates
  - Chemical – water and sediment
  - Physical – habitat
- Prioritize and implement water quality projects as a result of monitoring efforts
- Support watershed planning



## DRWW Current Members

- Buffalo Grove
- Deerfield
- Grayslake
- Green Oaks
- Gurnee
- Kildeer
- Lake County
- Lake County Forest Preserve District
- Lake County Public Works
- Lake Zurich
- Libertyville
- Lincolnshire
- Lindenhurst
- North Shore Water Reclamation District
- Third Lake
- Vernon Hills
- SMC
- Sierra Club
- Cardno



# Planning and Projects

SMC awarded an IL EPA Section 319 grant:

- Develop umbrella watershed-based plan for Des Plaines watershed in Lake County
- Pilot 2 Small Watershed Assessment and Action Plans (SWAAP)
- Implement 3 water quality BMP projects
  - Mundelein Park District Bull Creek and Community Pond - Bull Creek-Brook Watershed
  - College of Lake County parking lot bioswales - Mill Creek Watershed
  - Lake County Forest Preserves Agricultural BMPs - North Mill Creek Watershed



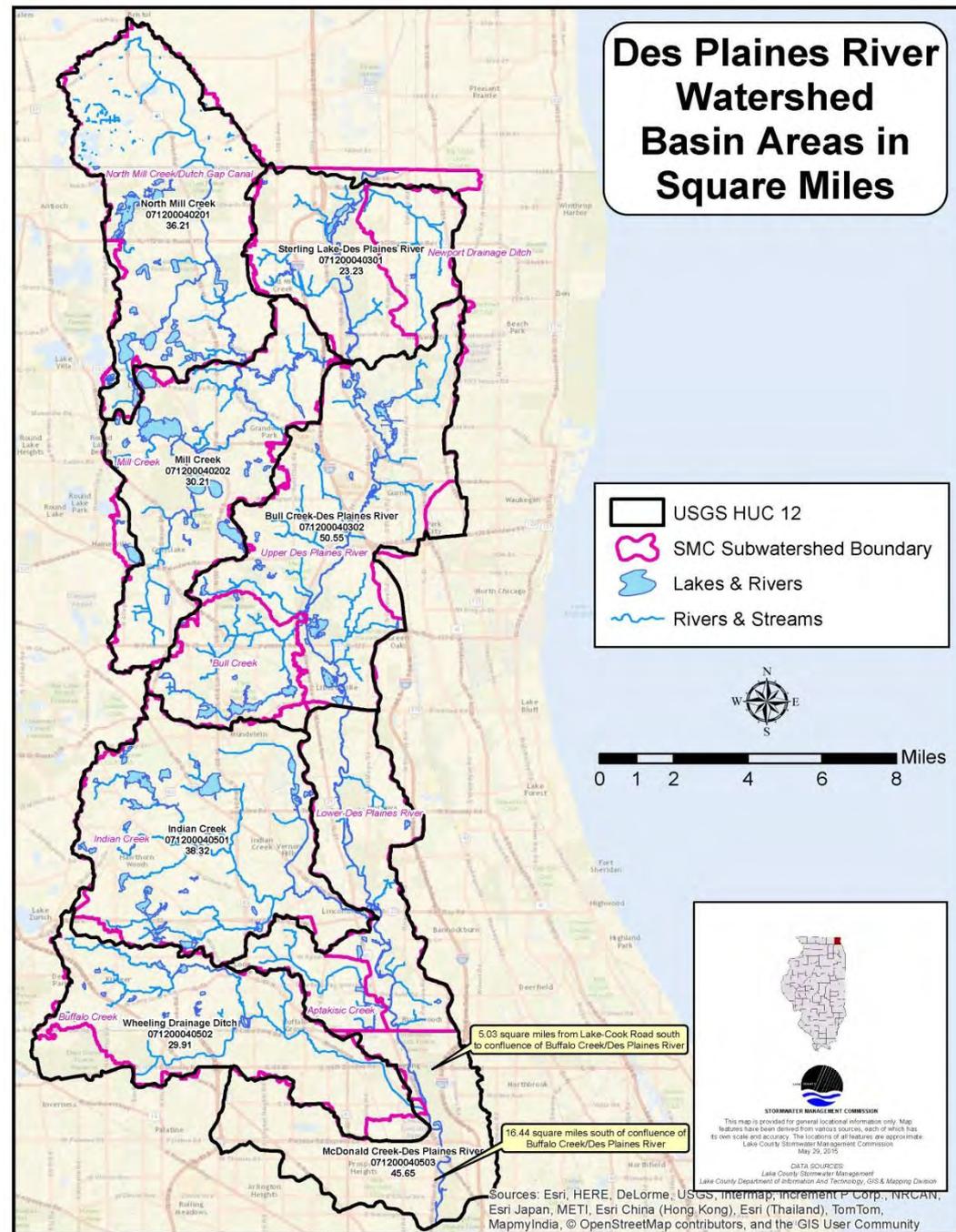
## SWAPP

- 2 pilot projects to begin in 2016
- Planning will target lakesheds or smaller drainage areas
- Develop conceptual plans and budgets for in-the-ground BMP projects
- SMC will solicit stakeholder interest (Mike Novotney will be contact)



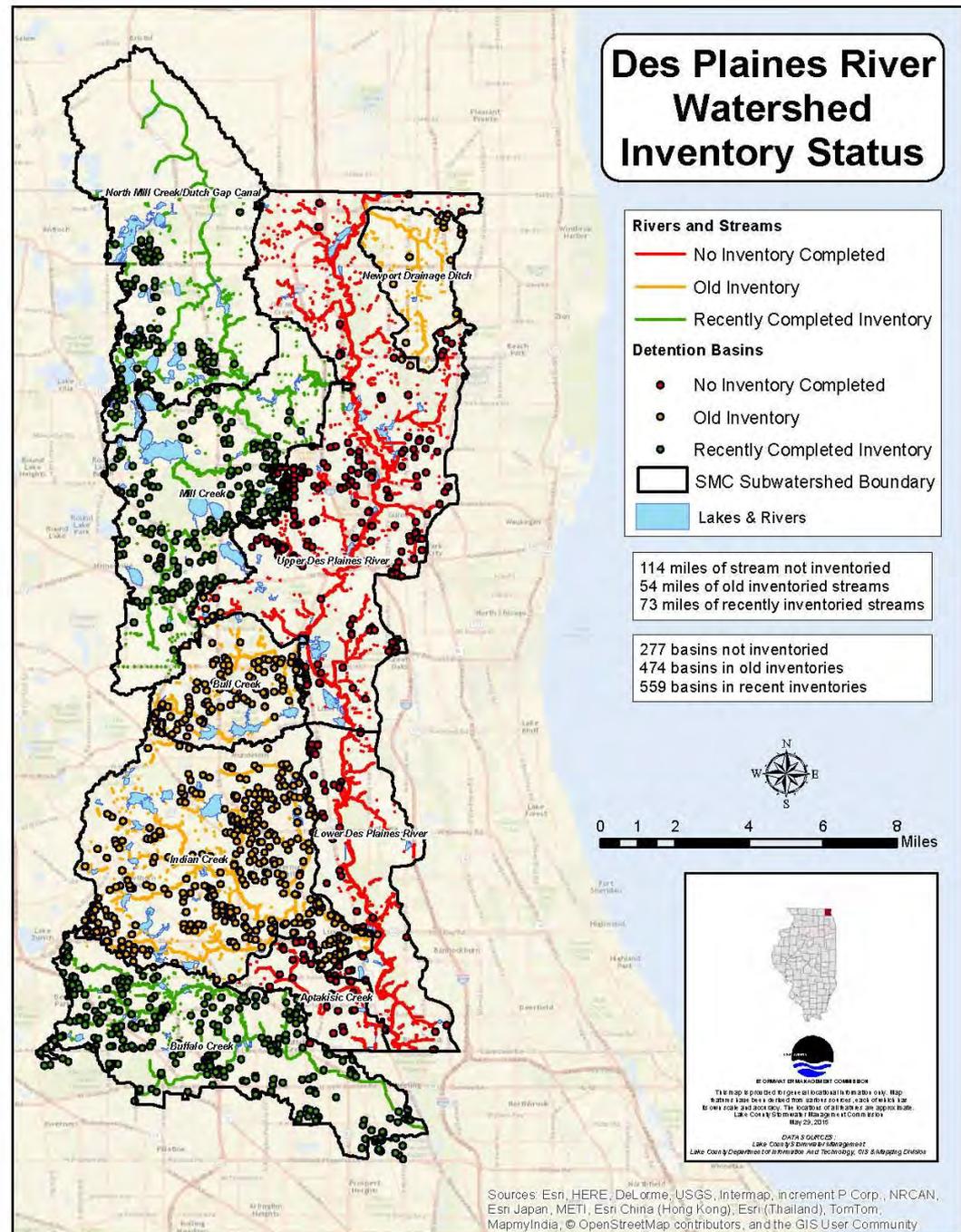
# Watershed Plan Area

- Incorporate and update 5 existing subwatershed plans
- Develop umbrella plan to include 4 subwatersheds without plans



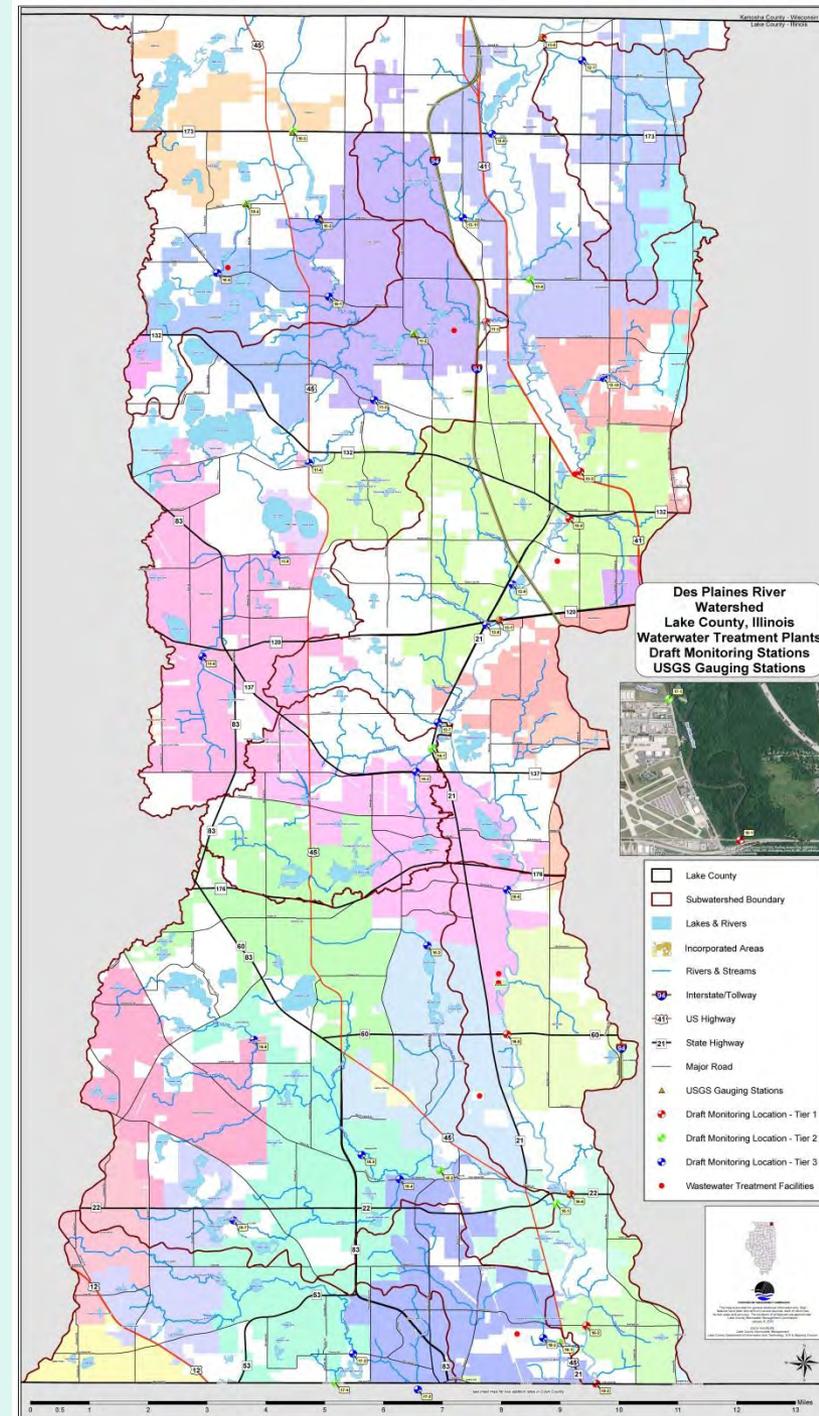
# Inventories

- Stream
- River
- Detention basins
- Lake shorelines



# DRWW

- Monitoring program begins in 2015
- Will provide monitoring data from 44 locations for watershed planning



# Update Bull Creek-Brook Watershed Plan

- Update stream inventory/assessment (Fall of 2015)
- Update demographics
- Review and update the watershed action plan
- Other
  - additional updates dependent on Watershed Council and stakeholder feedback



# Bull Creek-Brook Watershed Council Draft 2015 Work Plan

Strategy	Status	Lead(s)
1. Bull Creek-Brook Watershed Council (BC-BB WC) will meet 3 times in 2015	February 17, June 18, September 17, 2015 - <b>completed</b>	Leadership T./ Kathleen/Patty
2. Develop annual work plan (budget sufficient to contract for E-News design/editing)	Work Plan Draft February 2015/ Finalized June 2015 - <b>completed</b> Submitted funding proposal to Liberty Prairie Foundation to continue E-News in 2015 – <b>completed and funding awarded</b>	Ken/Paul/Patty/Kathleen
3. Produce 3-4 E-News updates. (One issue will focus on BMP training)	<del>April, June, September,</del> <b>October-November</b> 2015	Kathleen/Patty/Ken
4. Identify 3-4 educational messages for community websites, newsletters, high school projects	<p>Need to promote these topics for posting on community/organization websites and newsletters.</p> <p>Suggestions for future articles/features for messages include:</p> <ul style="list-style-type: none"> <li>• Continuing column on good/watershed-friendly practices based on the season. (It was suggested that parking lot and driveway best practices for winter maintenance be included.) – <b>October E-News: winter maintenance practices for residents (Patty)</b></li> <li>• How to recover from the effects of emerald ash borers – <b>October E-News (Valerie)</b></li> <li>• Use products that do not contain Neonics – <b>June E-News (Chris)</b></li> <li>• <b>History of watershed lakes – October E-News (Ken)</b></li> <li>• Libertyville Township Trail – <b>October E-News (Kathleen)</b></li> <li>• Invasive plant feature – <b>June &amp; October E-News (Jonathan)</b></li> </ul>	Leadership T./ Kathleen/Ken/Patty
5. ID watershed champion for each community/organization and compile list. Involve high schools and additional HOAs. (lower priority)	<ul style="list-style-type: none"> <li>• <b>Presentation to Mundelein/Vernon Hills Rotary Club Jan 2015</b></li> <li>• Council members will provide community contacts as they are identified: <ul style="list-style-type: none"> <li>▪ Libertyville: John Heinz Village Engineer</li> <li>▪ Mundelein:</li> <li>▪ Grayslake:</li> <li>▪ Libertyville Township: Kathleen O’Connor</li> <li>▪ Warren Township:</li> <li>▪ Fremont Township:</li> <li>▪ Libertyville High School: Dave Lapis LEAF Club</li> <li>▪ Prairie Crossing Charter School: Geoff Deigan, Naomi Hershiser</li> <li>▪ Warren Township High School: Mike Meizela</li> <li>▪ <b>St. Mary’s University: Clayton Klaweit</b></li> <li>▪ Mundelein Park District: Margaret Resnick, Barb Daudelin</li> </ul> </li> </ul>	Leadership T.

	<ul style="list-style-type: none"> <li>▪ Grayslake Park District: (Jeff Nehilia?)</li> <li>▪ Liberty Prairie Foundation: Brad Leibov, Nathan Aaberg</li> <li>▪ Conserve Lake County: Sarah Surroz</li> <li>▪ Liberty Prairie Area Homeowner Assn: Chris and Paul Geiselhart</li> <li>▪ Prairie Crossing HOA: Joe Marencik</li> <li>▪ Loch Lomond POA: Fritz Chesek <b>&amp; Robin Meier</b></li> <li>▪ Arbor Vista HOA: Rick Hoppel</li> <li>▪ <b>SMC: Patty Werner</b></li> </ul>	
6. Reduce road salt usage watershed wide.	Lake County Training Workshops October 6 & 7, 2015 - <b>scheduled</b> Meet with Innovation Park	Patty/Mike A
7. Develop list of contacts for volunteer work  Organize or support one education/stewardship event/project	Incl. in E-News: - <b>June E-News</b>  2016: Bull Creek clean-up at St. Mary's (Clayton Klaweit) <del>Butler Lake cleanup</del> Replace with Watershed Bus tour for high schools in 2016?  Cops and Bobbers Mundelein Seminary – <b>July 2015 (Clayton Kalweit &amp; Mundelein Police Dept.)</b>  <b>Lochfest – August 2015 (Patty Werner, Mike Adam LCHD)</b>	Leadership T.  Clayton K
8. Convene a “planner’s forum” for community planners to include watershed recommendations in other community plans including roadway plans for Routes 53/120 and 83/137.	Representatives from Libertyville, Mundelein and Grayslake will be asked to host and present community plans at 2015 meetings. <b>Libertyville – watershed friendly projects February 2015; Mundelein – Rt 53/120 corridor planning June 2015; Grayslake – Prairie Crossing at 20 years: September 2015.</b>  Jason Navota Route 53 land use planning committee will present at the June 2015 meeting. Outreach to planners in watershed communities to participate in this meeting.	Leadership T.
9. Partner with Conservation@Home to host training for riparian landowners on best lawn maintenance practices, managing stream buffers, controlling invasives.	Suggestion to conduct this workshop around the time of the native plant sale in May 2015. Maggie S volunteered to help Keith with taking the lead on this event.  <b>Loch Lomond PO Association hosted C@Home Program at annual meeting.</b>  <b>Conserve and Grayslake introduce cost-share program for Conservation@Home</b>	Keith Gray/Maggie Soliz  Fritz Chesek  Sarah Surroz
10. Review progress status and update the watershed action plan.	2016: The umbrella Des Plaines River watershed plan proposed by SMC for the DRWW is planned to include an action plan update for the BC-BB watershed plan.  <b>Stream inventory Fall 2015 (SMC)</b>	Patty/Kathleen

	<p>Implementation Progress:</p> <p>Libertyville Township developed and approved a conceptual land use plan for Casey Road agricultural properties. The plan addresses the WQ impacts from soil erosion. Implementation planning begins in 2015.</p> <p>Loch Lomond POA with the Lake County SMC, Health Dept. and Village of Mundelein is developing a strategy to reduce pollutant inputs and better manage Loch Lomond. <a href="#">Met February 5, 2015</a></p>	<p>Kathleen O'Connor</p> <p>Fritz C/Mike N and Patty W/Mike A /Bill E</p>
--	--	---