

### Why Watershed Planning?

Federal Clean Water Act









- Section 305(b), 303(d)
- Section 319: Nonpoint Source Management Program

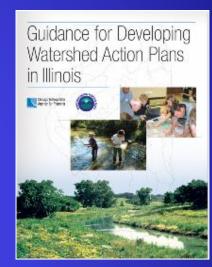


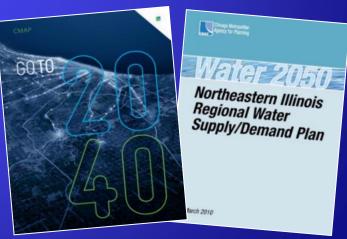
9 Minimum Elements of a Watershedbased Plan (U.S. EPA, Illinois EPA)



implementation \$\$s

- Areawide Water Quality Management Plan (CMAP)
  - Clean Water Act Section 604(b) funds
- Go To 2040 → On To 2050 (CMAP)
- Water 2050 (CMAP)



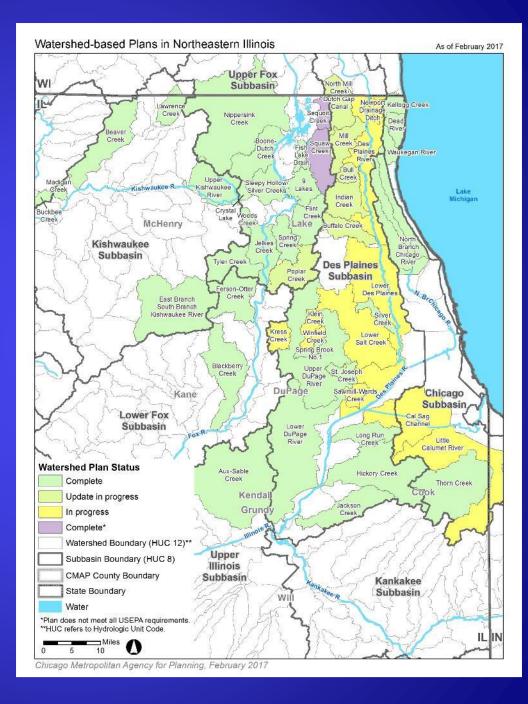


### Watershed-based Plan Focus

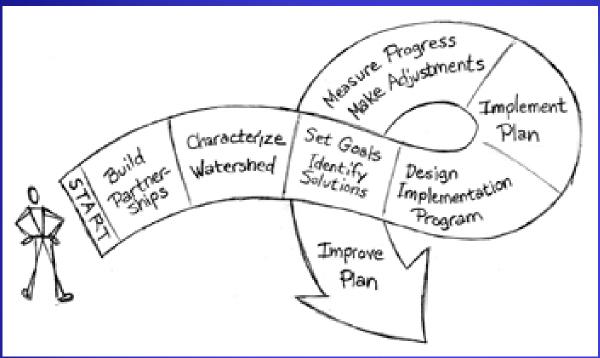
addressing Nonpoint Source (NPS) Pollution to restore and protect impaired waters



### Watershedbased Plans in NE Illinois



### **Watershed Planning Steps**



From Handbook for Developing Watershed Plans to Restore and Protect our Waters (USEPA, 2005)

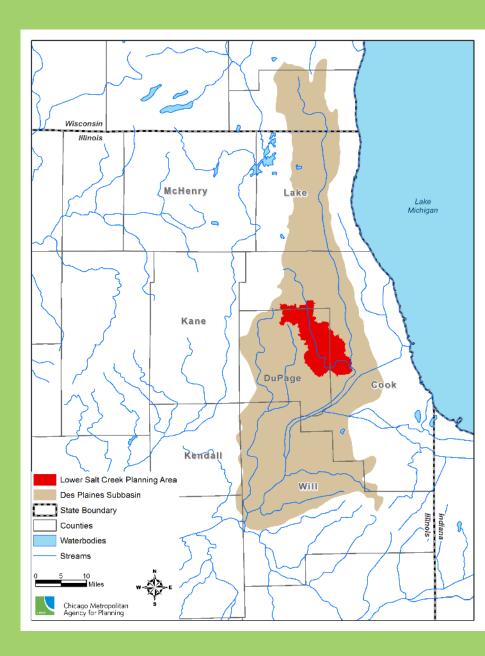
Watershed planning is an iterative and adaptive process...

### U.S. EPA's 9 Minimum Elements of a Watershed-based Plan

- a) Identify causes of impairment & sources of pollution
- b) Estimate pollutant load reductions needed to meet WQ standards
- C) Identify the NPS management measures needed to achieve load reductions
- d) Estimate amount of technical & financial assistance needed, and sources & authorities
- e) Provide a public information and education component
- f) Include a **schedule** for implementing the NPS management measures
- g) Describe interim, measurable milestones to measure progress
- h) Establish criteria to determine if load reductions being achieved
- i) Provide a monitoring component to determine if progress being made toward attaining or maintaining WQ standards

### Lower Salt Creek Watershed

- Des Plaines River Basin (HUC 8: 07120004)
- 100.7 square miles (64,432.9 acres)
- Population: ~374,600





### LSC Watershed-based Planning: Lead Partners

- Illinois EPA Financial Assistance Agreement #604151: grant admin., plan review & approval
- CMAP: project management & admin., facilitating stakeholder participation, preparing plan
- DuPage County Stormwater Management & DuPage River Salt Creek Workgroup: Local Technical Assistance program MOU
  - data, information, GIS databases
  - pollutant loading estimate
  - detention basin inventory
  - pollutant load reduction estimates for BMPs
  - stream conditions inventory







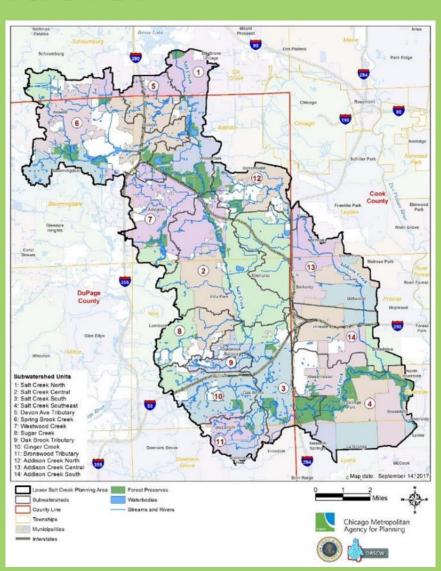




## LSC Watershed-based Planning: Many Key Stakeholders!

- 34 Municipalities
- 2 Counties & Forest Preserve
   Districts: DuPage & Cook
- 11 Townships
- Metropolitan Water Reclamation
   District of Greater Chicago
- Salt Creek Watershed Network
- The Conservation Foundation
- Brookfield Zoo
- Sierra Club
- HOAs
- Business & Industry
- Federal, State, Local agencies & organizations
- Citizens
- Recreationists

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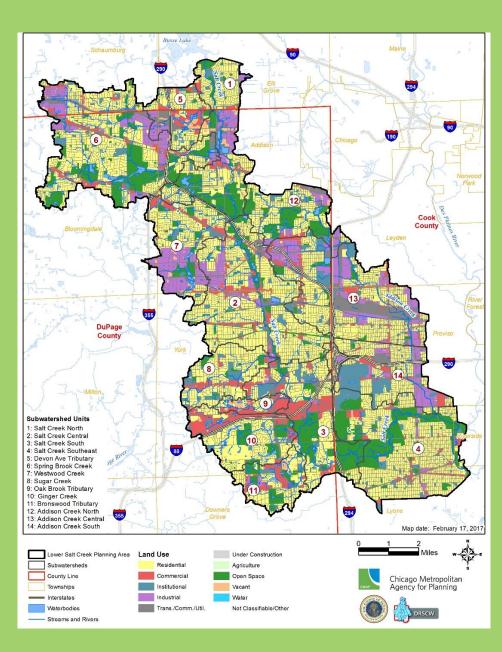


# Watershed Resource Inventory

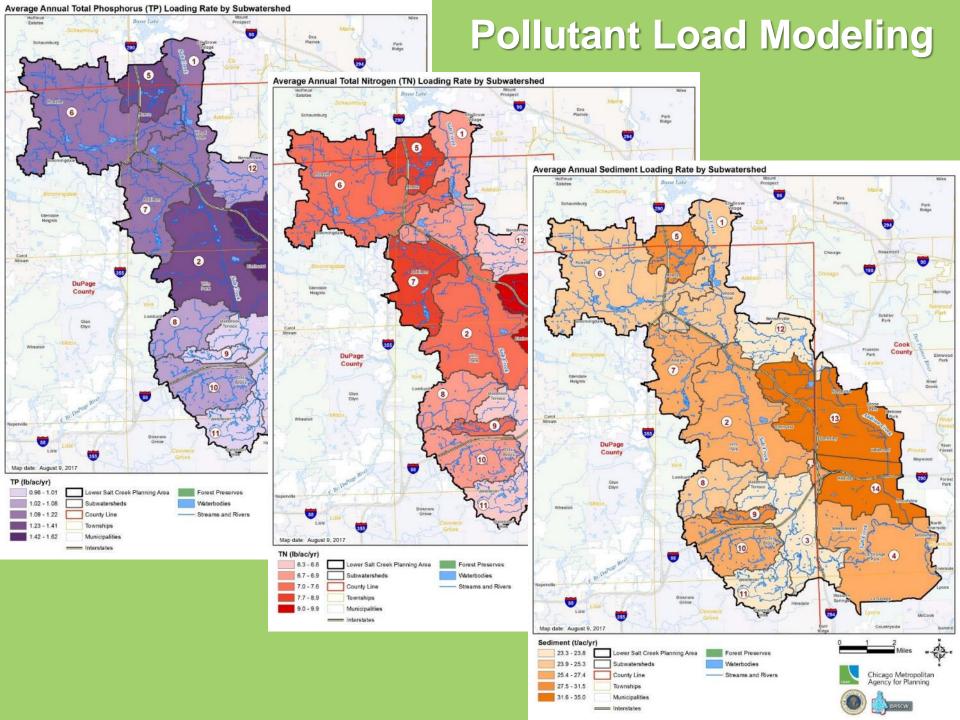
- Population and Demographics
- Local Governments and Districts
- Land Use and Land Cover
- Physical and Natural Features
- Water Resource Conditions
- Land Management Practices
- Pollutant Sources and Loadings

### LSC Land Use

Land Use Category	Area (acres)	Area (sq. miles)	Percent of Planning Area
Residential	24,492.4	38.27	38.01
Commercial	4,527.3	7.07	7.03
Institutional	3,736.3	5.84	5.80
Industrial	4,919.1	7.69	7.63
Open Space	9,937.1	15.53	15.42
Agriculture	29.5	0.05	0.05
T/C/U	15,379.8	24.03	23.87
Vacant	1,366.2	2.13	2.12
Under Construction	14.5	0.02	0.02
Unclassifiable/other	12.4	0.02	0.02
Water	18.3	0.03	0.03
Totals	64,432.9	100.7	100

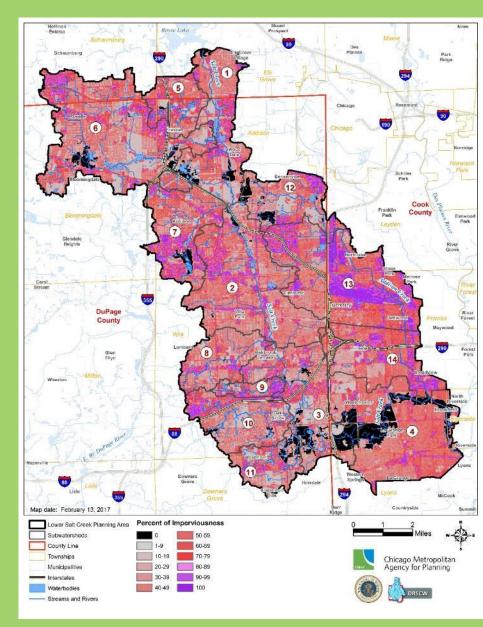






#### **Impervious Cover**

- 95% of planning area is impervious to varying degrees
- 43% of planning area is completely impervious

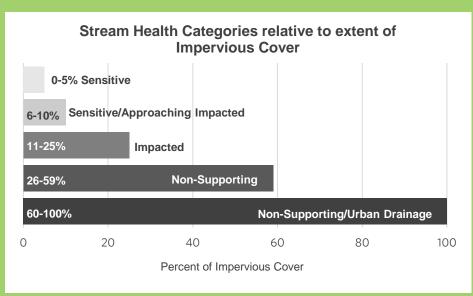


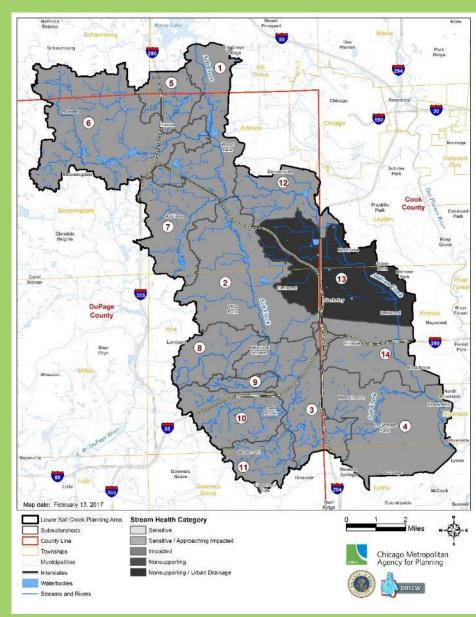
Source: National Land Cover Database (NLCD), Multi-Resolution Land
Characteristics (MRLC) Consortium, 2011.

CMAP

#### **Stream Health**

- 13 subwatershed units:
   "non-supporting" category
- Addison Creek Central (#13): "non-supporting/urban drainage"



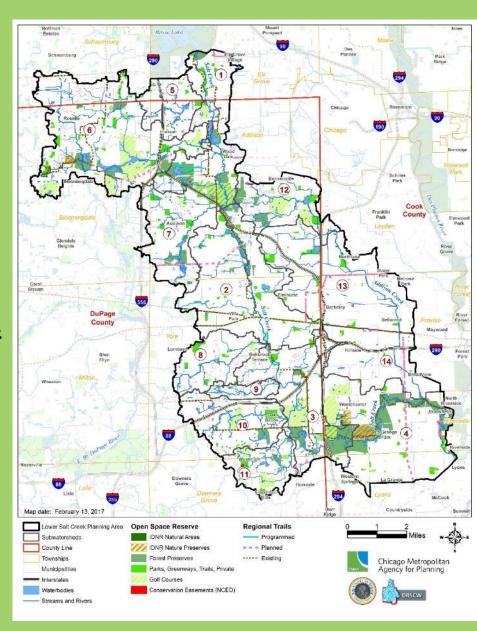






### Open Space Reserve

- ~9,937 acres of dedicated open space
  - 4,817 acres forest preserves
  - 3,438 acres golf courses
  - 2,213 acres parks, greenways, & trails
  - 353 acres IDNR natural areas / nature preserves
  - 16 acres conservation easements





## Watershed Protection Measures

- Plans, Policies, Programs
- Best Management Practice (BMP)
   Implementation Projects
  - site-specific
  - "watershed-wide"
- Public Information and Outreach

#### Planning Recommendations

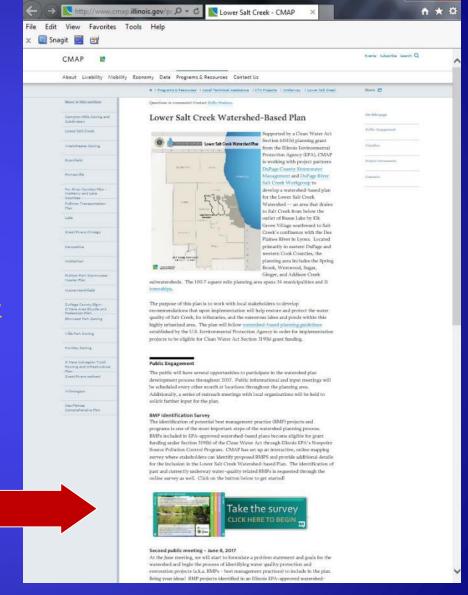
- Develop Comprehensive Plan: 5 munis and both counties
- Update older Comprehensive Plans: 11 munis
- Update or amend Comprehensive Plans to include recommendations for/to:
  - Natural resource management: Bellwood, Bloomingdale, Broadview, Brookfield, LaGrange Park, Oakbrook Terrace
  - Transit-oriented development: Bloomingdale, LaGrange Park
  - Walking and biking as alt. transportation modes: Broadview
  - Groundwater protection: all munis
- Develop natural resources mngmnt plan: FPD of DuPage Co.
- Review and update ordinances to improve WQ protections



# Lower Salt Creek BMP Identification Survey

Access via button on LSC page on CMAP website:

http://www.cmap.illinois.gov/programsand-resources/lta/lower-salt-creek



or

https://LowerSaltCreek-BMPsurvey.metroguest.com

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#### Lower Salt Creek Watershed BMP Identification

A key component of watershed-based plans is the identification of best management practices (BMPs) to reduce nonpoint source pollution. This survey is your chance to identify potential BMPs for the Lower Salt Creek Watershed-based Plan. Begin

Lower Salt Creek Map

CMAP, DCSM, and DRSCW are developing a watershed-based plan to improve water quality in the Lower Salt Creek Watershed, BMP projects and programs included within this plan may be eligible for financial assistance through federal, state, and local grant programs.



BMP OPPORTI



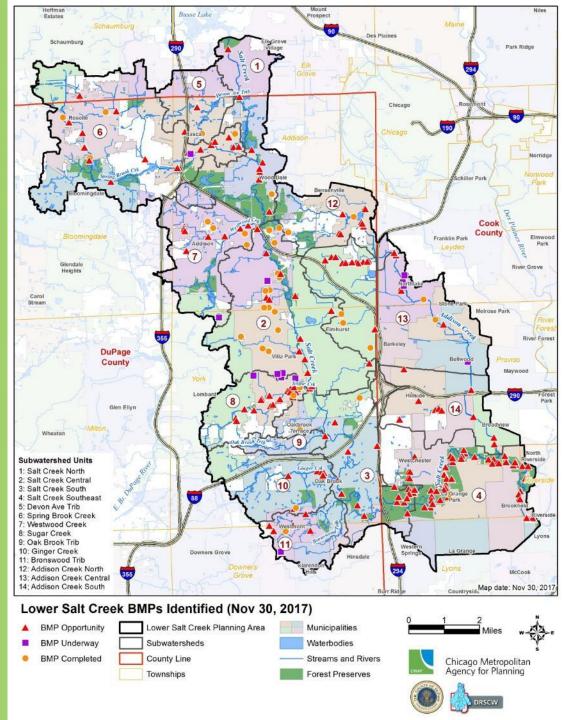


BMPS COMPLETED (\*

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### BMPs Identified

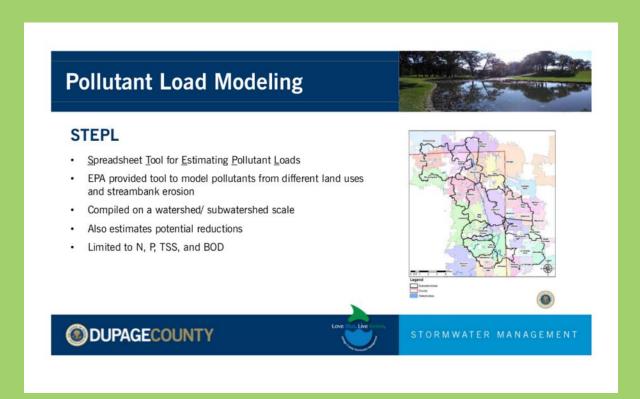
- Participants: 37
- BMPs Identified:
  - Opportunities: 208
  - Underway: 14
  - Completed: 41



### Pollutant Load Reduction Estimates

### BMP Implementation Projects

- site-specific
- "watershed-wide"

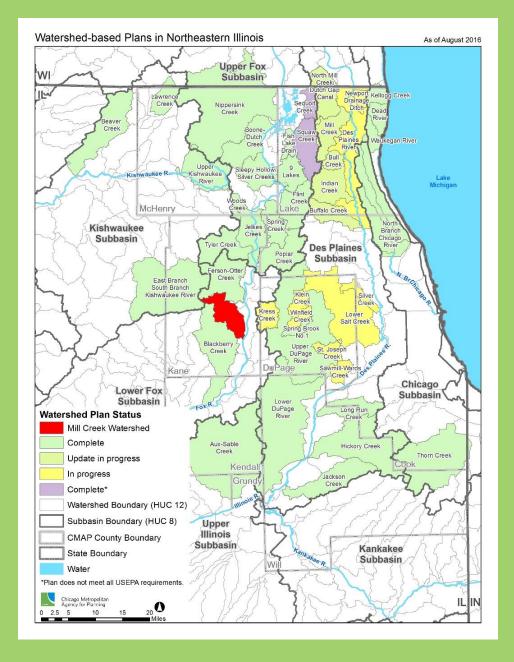






# Mill Creek Watershed (Kane County)

- Lower Fox River Basin (HUC 8: 07120007)
- 31 square miles (19,840 acres)

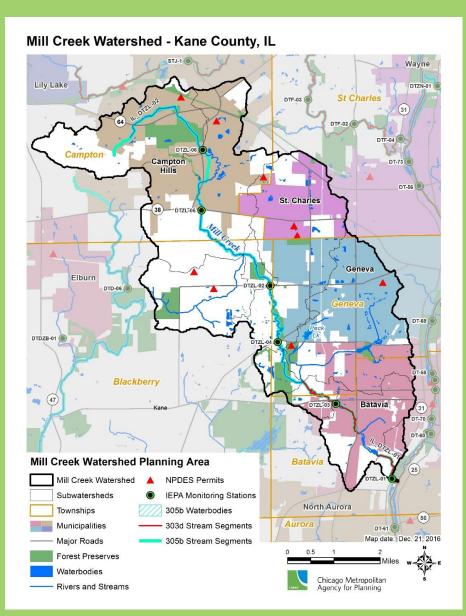




# Mill Creek Watershed (Kane County)

- 1 county, 4 municipalities, 4 townships
- 1 forest preserve & 3 park districts

Planning period:
 Oct. 2017 – Sept. 2019





## **Engaging Stakeholders in Watershed Planning**

No "one size fits all" approach

Each process ~ unique





**Technical Experts** 

Specific knowledge & skills, Advisors, Decision makers



**Interested Folks** 

Want to contribute



**General Public** 

"Population uninterested or unaware of environmental implications of their everyday actions."

