

# Addressing Nutrient Issues in Illinois

- Seriousness of problem
- Some more history
- Moving forward

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# IL Water Quality Report (2010 draft)

- P and aquatic algae-Two of top 3 causes of impairment in 354 significant publicly owned lakes (Appendix C-draft 2010 Illinois Integrated Water Quality Report)
- Cropland, Runoff from Urban Areas, Municipal STPs all among top 10 causes
- 62% lakes are eutrophic or hypereutrophic
- 14% statewide miles streams assessed- of those 37% not fully supporting aquatic life
- 3204 miles impaired due to dissolved oxygen (2<sup>nd</sup> highest cause)
- 2077 miles listed for TP
- 424 miles impaired due to aquatic algae

Lakes

Streams

**Table C-32 Statewide Summary of Potential Sources of All Use Impairments in Streams.**

Potential Source of Impairment	Stream Miles Impaired
Source Unknown	6,338
Atmospheric Deposition - Toxics	3,047
Crop Production (Crop Land or Dry Land) 	2,396
Channelization	2,321
Municipal Point Source Discharges 	1,421
Urban Runoff/Storm Sewers 	1,218
Agriculture	1,081
Loss of Riparian Habitat	756
Animal Feeding Operations (NPS)	657
Streambank Modifications/destabilization	547
Impacts from Hydrostructure Flow Regulation/modification	483
Dam or Impoundment	465
Natural Sources	455
Contaminated Sediments	422
Surface Mining	395
Livestock (Grazing or Feeding Operations)	252
Combined Sewer Overflows	251
Habitat Modification - other than Hydromodification	182

▶ **Numeric criterion for most rivers and streams**

- 0.093 mg/L TP for most rivers and streams
  - Similar to adopted Wisconsin standard
  - Compare to median level in IL streams
    - 0.14 mg/L TP (TetraTech analysis of IL EPA data)
- Use ecoregion criteria for streams with lower TP levels

▶ **Proposed narrative standard for nitrogen**

# Some positive steps/collaborations

- ▶ Ban on P in dishwasher detergents– IAWA, MWRD, Sierra Club
- ▶ Limits on P in lawn fertilizer applied by For Hire applicators– TruGreen, Sierra Club
- ▶ IEPA TMDLs underway for many lakes in Lake Co.
  - Motivated lake residents
  - Inputs mainly under NPDES & MS4 (urban runoff) programs
- ▶ Fox R Study Gp, DuPage R Salt Cr WorkGp, other watershed planning efforts

# Positive Points from Yesterday

- ▶ Injecting P (fertilizer, manure) into farm fields reduces loss
- ▶ Application strategies to reduce N loss
- ▶ IL's prairie landscape held nutrients on land
  - Role of buffer strips