Volunteer Lake Monitoring Program

2010 Season in Review

&

2011 Season Scope

Website: www.epa.state.il.us/water/vlmp

2010 Coordination Team

- Holly Hudson with CMAP
- Mike Adam & Kelly Deem with LCHD
- Rob Clodi with GERPDC
- Teri Holland, Katie Davenport & Greg Ratliff with Illinois EPA

- Online Database Support – Jeremy Morgan

2010 VLMP

- Reduced to Tier I activities:
  - Funding Issues,
  - Illinois EPA's Statewide Coordinator took a new job, &
  - Adding On-line Database Secchi Form entry.
- Special Projects (Tier III) in support of:
  - Clean Lakes Program Projects &
  - 319 Projects

VLMP Overview

➢ Tier I Includes:

- Secchi Monitoring 3 lake locations (typically),
- Weather Observations,
- Lake Management Activities & Observations,
- Exotic Animal & Plant tracking activities,
- Secchi Form completion, &
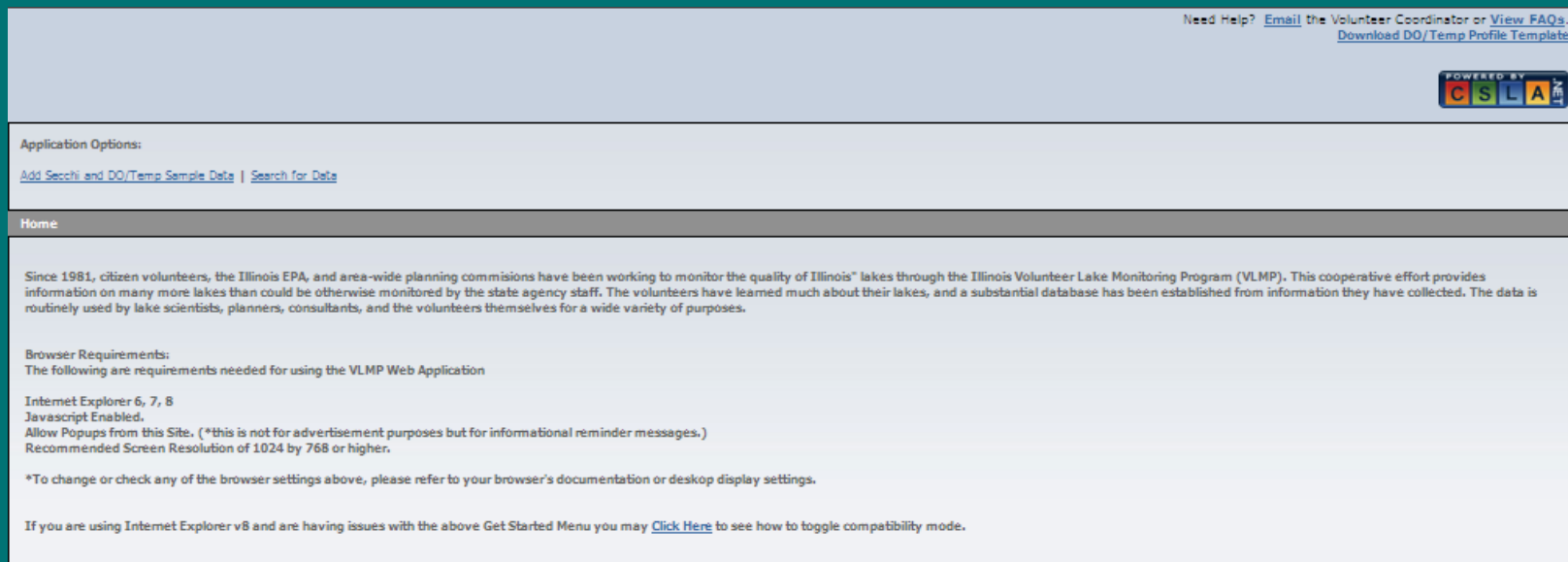- Online Database Entry.

2010 VLMP Overview

- Special Projects (Tier III-like) includes:
    - Tier I activities,
    - Water Quality Sampling (nutrients/chloride),
    - Dissolved Oxygen/Temperature Profiles,
    - Chlorophyll Sampling & Filtering, &
    - Limited plankton identification sampling.
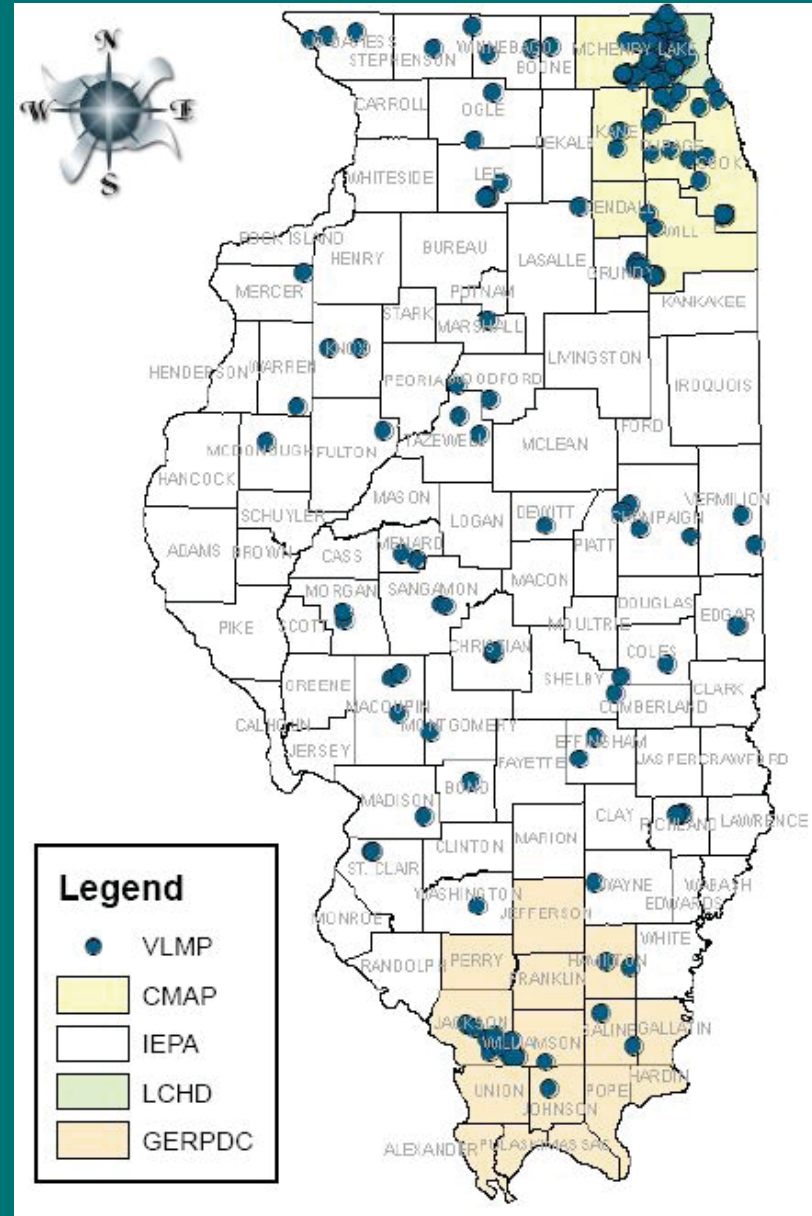
Online Database Entry

➢ http://dataservices.epa.illinois.gov/
waBowSurfaceWater

Allows viewing historical information & data input

2010 VLMP Annual Report

➢ 170 Lakes registered,

➢ 142 Lakes sampled at least once, &

➢ 125 Lakes sampled 4 or more times.

➢ 273 Volunteers participated.

Legend
- ● VLMP
- CMAP
- IEPA
- LCHD
- GERPDC

Results and Discussion

- ➤ **Basic Monitoring Program**
  - ● Participating Lakes
  - ● Volunteer Participation
  - ● Transparency Ranking
    - • Oligotrophic to Hypereutrophic
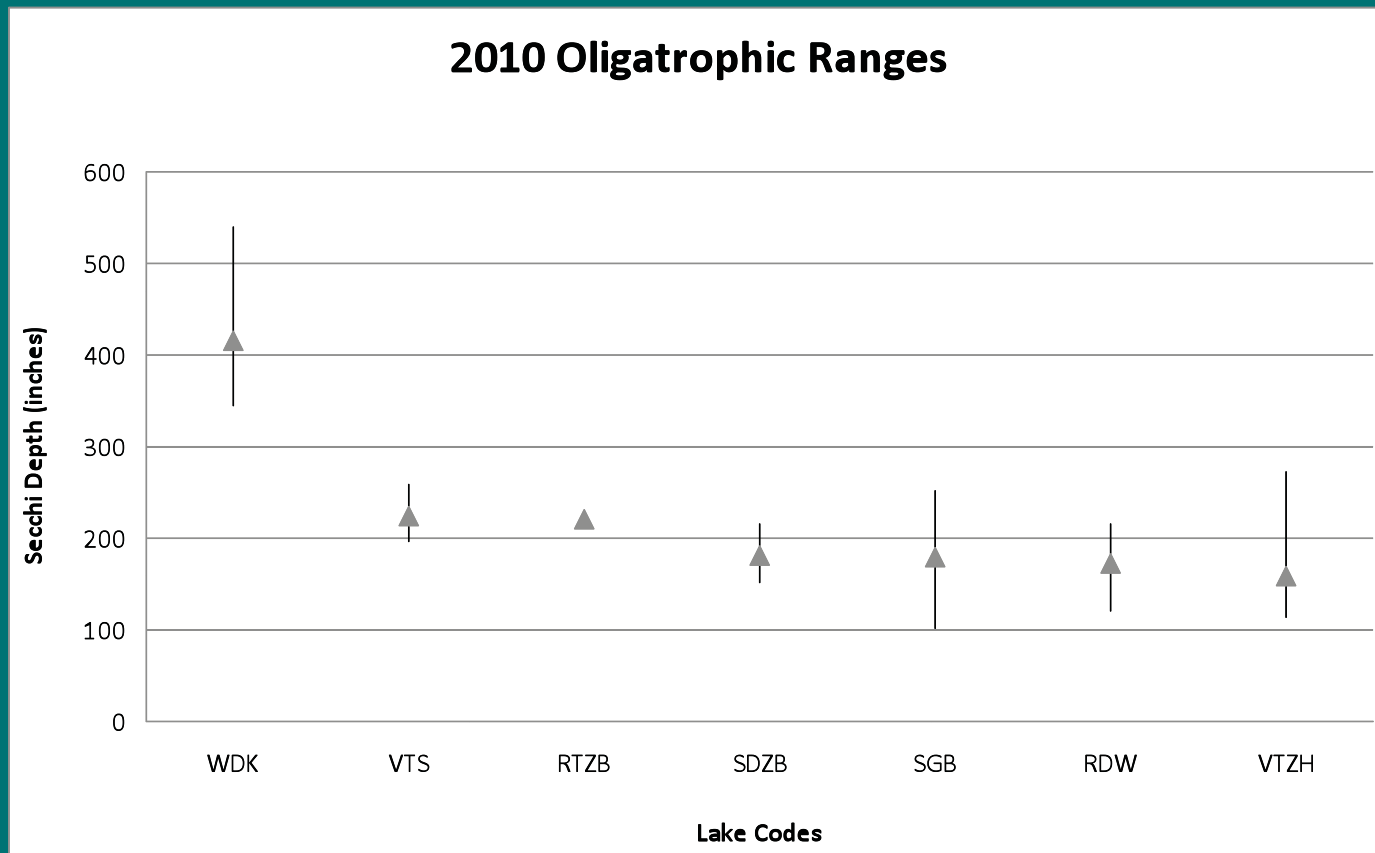 - ● Aquatic Invasive Species Tracking

Results and Discussion

- Expanded Monitoring Program
  - Water Quality Monitoring
    - Suspended Soils
    - Nutrients
      - Nitrate and Nitrite
      - Ammonia
      - Total Phosphorus
    - Chlorophyll
  - Dissolved Oxygen/Temperature
- Trophic State Index (TSI)
- Transparency Variability

Transparency Ranges using Carson TSI Ranges

- 125 Lakes were sampled 4 or more times
  - 7 – Oligotrophic
  - 20 – Mesotrophic
  - 83 – Eutrophic
  - 15 - Hypereutrophic

Transparency Ranking Example

Email Distribution List

➤ Sign up to be on our distribution list and receive our (Semi-) Quarterly Newsletter and Annual Report (or notification of release and download location).

➤ Current Volunteers will automatically be on distribution list.

➤ Emails are not given out or sold.

2011 Season

- Tier I (Goal 170-180)
- Tier II (50 lakes maximum)
- Tier III (None)
- Dissolved Oxygen/Temperature (30 max)