### COLA Water Quality Goals for LCO

- COLA'S goal is to maintain current water quality into the future
- ☐ Classifications WIS Rule NR-102---LCO is:
  - A stratified two story lake/fishery
  - LCO is an Outstanding Resource Water (ORW)

# COLA Water Quality Goals for LCO

- □ COLA will rely on anti-degradation rules and statutes to provide the legal framework to maintain current water quality and classifications
- ☐ One lake determination
  - COLA intends that applicable water quality standards, criteria, goals and classifications be equally and uniformly applied to all natural bays of LCO
  - COLA will resist any efforts or interpretations that attempt to distinguish one LCO bay from another

# COLA Water Quality Goals for LCO

- ☐ Total Phosphorus (TP)
  - LCO The long term goal for TP for all natural bays of LOC is 10+/-2 parts per billion (ppb)
  - Musky Bay The short term goal for TP for Musky Bay is 20 ppb to be achieved within five years (2016)
  - Musky Bay The long term goal for TP for Musky Bay is 10 +/-2 ppb
- ☐ Chlorophyll-a (chl-a)
  - LCO The long term goal for chl-a for all natural bays of LCO is 2ppb

- ☐ To achieve the water goals, COLA must address the following five management areas over the coming years and decades:
  - 1. Cranberry Discharge
  - 2. Changing land use in the LCO Watershed
  - 3. LCO Shore Land Development and buffer areas
  - 4. Invasive Species Management
  - 5. Lake and Stream Monitoring

### LCO Lake Management Plan Cranberry Discharge

- COLA will work with the three cranberry growers to eliminate their discharges to LCO by 2016
- COLA will investigate and determine if dredging and/or alum or iron chemical treatment of Musky Bay would be effective in reducing sediment phosphorus recycling

### LCO Lake Management Plan Cranberry Discharge (cont.)

- COLA will work with the Tribe and WDNR to develop and implement a plan to restore muskellunge spawning habitat in Musky Bay
- COLA will support Tribal efforts to establish water quality standards for LCO and to secure Treatment as State (TAS) status

Changing Land Use in the LCO Watershed

- COLA will evaluate formation of a Lake
   Management District and make a recommendation to the COLA membership
- COLA will seek to acquire agricultural land on the south side of LCO east bay
- COLA will work closely with the Tribe to determine how best to buffer and protect Osprey Creek

Changing Land Use in the LCO Watershed (cont.)

- □ COLA will work with the other lake associations, WDNR, County and the Tribe to insure forest BMP's are implemented in the LCO watershed
- □ COLA will work with the other lake associations, WDNR, County and the Tribe to monitor, advance and help pay for agriculture BMP's for row crop/animal operations in the LCO watershed

- Changing Land Use in the LCO Watershed (cont.)
  - □ COLA will work with the other County, lake associations, and the Tribe to enact a low impact development ordinance that applies to the 68,000 + acre LCO watershed.

#### The ordinance should:

- Require the first 1.25 inches of runoff from new development be treated on site
- New development required to minimize soil compaction on D soils

### LCO Lake Management Plan CO Share Land Dayslanmant and Buffer Areas

LCO Shore Land Development and Buffer Areas

- COLA will support Sawyer County in the updating and implementation of the Shore land Zoning Ordinance by:
  - Advocating for minimum low impact development and better site design requirements
  - Reviewing and taking a position on any variance requests that effect LCO

LCO Shore Land Development and Buffer Areas (Cont.)

- □ COLA will work with Sawyer County and WDNR to achieve establishment of shore line buffer zones on 100% of LCO lake front properties
- COLA will work with Sawyer County to actively review compliance with County septic tank requirements

**Invasive Species Management** 

- □ COLA will continue to aggressively carry out herbicide treatments to control Curly Leaf Pond Weed infestations in LCO
- □ COLA will work with Sawyer County to track forest invasive species and assist in efforts to control their introduction and spread
- COLA will maintain the clean boat program to help prevent introduction of evasive species into LCO

Lake and Stream Monitoring

- COLA will work the Tribe and USGS to implement inlet stream and lake outlet water flow monitoring
- COLA will work with other lake associations to have Secchi disk transparence monitoring on all lakes in the LCO watershed
- □ COLA will assist the Tribe to insure that 10-12 paired TP, chl-a, DO/ temp measurements and Secchi readings are taken in accordance with the Tribes sampling plan during each growing season (May to October)