

Tom Nowicki Milwaukee Metropolitan Sewerage District

Environmental Circumstances

- Fish consumption advisory
- USEPA adopts 1.3 ng/L limit for Great Lakes
- > Wisconsin adopts 1.3 ng/L state-wide
- Water reclamation facility discharges likely to be greater than 1.3 ng/L

State Goals

- > Work within existing regulatory framework of discharge permits
- Cooperate rather than command and control
- > Decentralize expertise and action
- > Iterate and improve incrementally

Permit Strategy

- Sampling starts before limit
- Ultimate limit in abeyance
- Pro-active source reduction
- Interim Limit
 - Site specific
 - Based upon sample results
 - Limit steps down each permit cycle
- Requirements implemented according to discharge magnitude and permit cycle

State Coordination

- Facilitates diverse state-wide municipal group
- Strategically exploits grant funding

Local Action

- Collection programs
- Medical
 - Hospital workshops
 - Thermometer exchanges

> Schools

- Rewards
- Curriculum
- > Thermostats
- > Dental offices

State Guidance

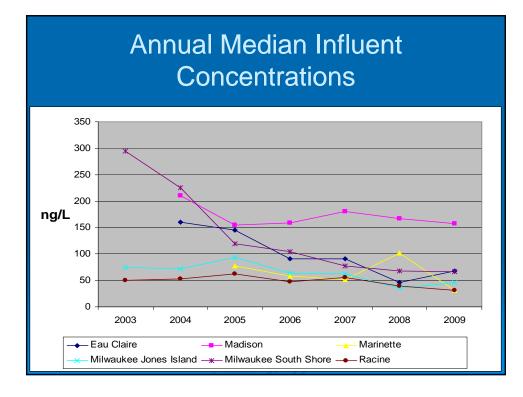
- > Wisconsin Mercury Sourcebook (1997)
- Mercury Pollutant Minimization Program Guidance Manual for Municipalities (2006)
 - Based upon pilot work
 - Detailed instructions for each sector
 - Scoring system to evaluate progress

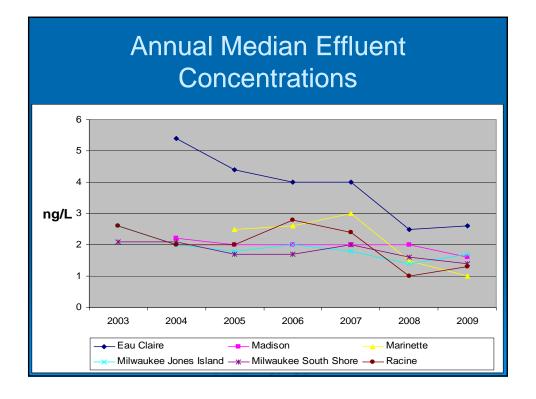
Program Expansion

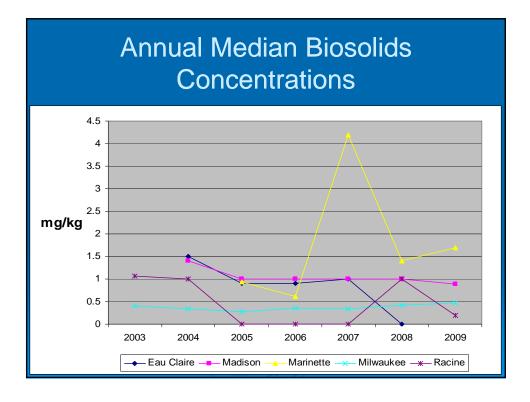
- Contract with municipalities
- > Municipalities get
 - Guidance
 - Positive recognition
 - Ultimate limit in abeyance
- State gets
 - Earlier reduction
 - Cooperation

Other programs

- Emission limits for coal combustion
- > Dairy manometer replacement
- > Vehicle switch removal
 - Used storm water pollution prevention
 authority
 - Disposal
 - Initially supported with grant funding
 - Now supported by End-of-Life Vehicle Solutions







Conclusions

- Source reduction can occur despite political inaction at the state level
- > A little grant funding can produce big results
- An incremental cooperative approach directs energy into progress instead of conflict
- > A collaborative decentralized approach produces an effective network of experts

Water Reclamation Facility Status

- Conditions are variable
- Influent and effluent are going down
- Whether 1.3 ng/L is achievable is still unknown

Contact

Tom Nowicki Senior Industrial Waste Engineer Milwaukee Metropolitan Sewerage District tnowicki@mmsd.com 414.225.2275