

NJ Water Monitoring Council *and* ***National*** Water Quality Monitoring Council (NWQMC)

Leslie J. McGeorge
NJDEP – Freshwater & Biological Monitoring
Co-Chair, NJ Water Monitoring Council
Region 2 Representative, NWQMC

Presented at: NJ Water Monitoring Summit
December 1, 2011



NJ Water Monitoring Council



- **Formed:** October 2003 on World Water Monitoring Day
- **Vision:** provide water information foundation for management of aquatic environment
- **Mission:** coordination, collaboration and communication of ambient water quality/quantity data to support effective environmental management
- **Scope:** biological, chemical and physical conditions of surface and ground waters, freshwater, estuarine, & marine waters

NJ Water Monitoring Council

40 Members - 18 monitoring & research orgs

- Federal, state, interstate, regional, county government
Academia, Research Institutions, Utilities Authorities, and
Watershed Associations

Meetings – 3 times per year

Co-chairs – Leslie McGeorge (NJDEP)

Bob Reiser (USGS - NJ Water Science Ctr)

Coordinator – Alena Baldwin-Brown (NJDEP)

Steering Committee – NJDEP, USGS, DRBC, EPA

Website

- www.state.nj.us/dep/wms/wmcchome.html



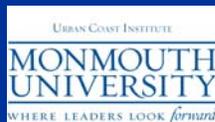
NJ Council Membership

- Members are responsible for ongoing monitoring networks/programs **or** water resource research

and

- Make their data publicly available
- Council Steering Committee review & consensus

NJ Water Monitoring Council



- **NJDEP**
- **USGS/NJ Water Science Center**
- **USEPA Region 2**
- **NOAA**
- **Delaware River Basin Commission**
- Interstate Environmental Commission
- Pinelands Commission
- **Rutgers U. - IMCS, Coop. Extension Service, NJ**
Water Resources Research Inst.
- **Montclair State University**
- Monmouth University/Urban Coast Institute
- Meadowlands Environmental Research Inst.
- Monmouth County Health Department
- **NJ Water Supply Authority**
- **Stony Brook-Millstone Watershed Association**
- **Musconetcong Watershed Association**
- NJ Harbor Dischargers
- **Brick Township MUA**
- Barnegat Bay Partnership



Yellow = Organization presenting at 2011 Summit



New Jersey Water Monitoring Council Members

Musconetcong Watershed Assoc

Montclair University

Meadowlands Environmental Research Institute

Stony Brook-Millstone Watershed Assoc

NJ Water Supply Authority

EPA R2 Monitoring

Interstate Environmental Commission

NJ Harbor Dischargers

NJ Water Science Center (USGS)

Rutgers – Inst for Marine/Coastal Sci.

NJ Marine Sciences Consortium

Delaware River Basin Commission

Monmouth County Health Department

Brick Twp MUA

NJ Dept of Env Protection

Eco-Complex Rutgers University

NJ Pinelands Commission

Monmouth University



Barnegat Bay Partnership





NJ Water Monitoring Council – Goals

- Facilitate water monitoring technology transfer
- Promote water monitoring partnerships
- Leverage water monitoring resources
- Enhance data exchange & compatibility
- Promote water resource info. dissemination
- Identify water research needs





NJ Water Monitoring Coordinating Council

www.state.nj.us/dep/wms/wmcchome.html

Measuring What Counts for Clean & Plentiful Water

- HOME
- CHARTER
- MEMBERS
- TECHNICAL TOPICS
- MEETING INFORMATION
- EVENTS
- PRODUCTS
- RELATED LINKS

The New Jersey Water Monitoring Council, established on October 24, 2003 as part of NJ's celebration of World Water Monitoring Day, serves as a statewide body to promote and facilitate the coordination, collaboration and communication of scientifically sound, ambient water quality and quantity information to support effective environmental management.

The Council will address the biological, chemical, physical and ecosystem aspects of water monitoring, including surface and ground waters, freshwater, estuarine, and marine environments in New Jersey.



8th NJ Water Monitoring Summit, December 1 and 2, 2011. Click [here](#) for additional information.

2012 National Water Quality Monitoring Conference, April 30 - May 4, Portland, OR. Click [here](#) for additional information.



Website Contents

- Meeting Information
 - ❖ Agendas, minutes, technical presentations
- Member Information
- Key Products
 - ❖ Continuous Monitoring Inventory
- Information Exchange
 - ❖ Summits
 - ❖ Trainings

NJ Council Meeting Technical Topics

(Member presentations available on website)

Barnegat Bay Monitoring

Biological Monitoring

Coastal and Ocean Monitoring

Continuous Monitoring

County, Local and Volunteer Monitoring

Emerging Contaminants

Fish and Shellfish Tissue

Mercury

Nutrient Monitoring and Assessment

Pathogen Monitoring

Private Wells and Groundwater

Sensors

Water Quality Data Management

Water Quantity

Wetlands Monitoring

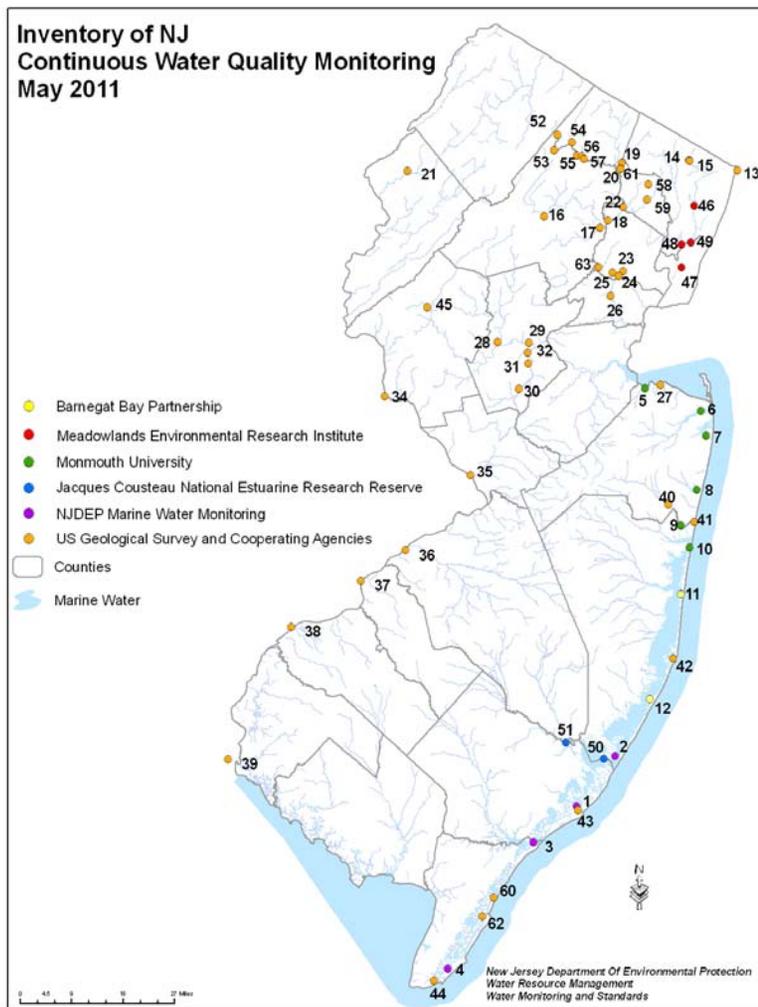


Key NJ Council Products

- A foundation for ***Barnegat Bay Monitoring Partnership***
- Developed ***NJ Continuous Monitoring Inventory*** (map + accompanying spreadsheet w/ direct links to online data)
- Assisted in developing ***NJ Water Quality Data Exchange System*** (WQDE)
- Provided support for design of ***National Water Monitoring Network for Coastal Waters & Their Tribs, and Delaware River Basin Pilot/Demonstration***
- Sponsored/Co-Sponsored ***NJ Water Monitoring Conference*** ('06) and ***2 Summits*** ('09 & '11)

Product Example: NJ Continuous Water Monitoring Inventory (Members' Data Accessibility)

Monitoring Location Map



Accompanying Spreadsheet

- Agency
- Program Name & Objective
- Waterbody & Location
- Parameters: DO, T, Conductivity, pH, turbidity, Chl a, flow, stage, other (NO₂+NO₃)
- Data storage
- Live links to online data
- Inventory includes ~ 60 freshwater & coastal water sites



NJ Council Benefits

- Enhanced state water monitoring community **partnerships**
- **Technical information exchange** (e.g., field/lab methods, contract labs, assessment methods, data mgt, monitoring parameters)
- Joint **project/grant** development opportunities
- Fill info gaps in **NJ's Long Term Monitoring Strategy**
- Increased **data submittals** for NJ's biennial Integrated Water Monitoring & Assessment Report
- **National Water Quality Monitoring Council** information exchange to NJ Council members



National Water Quality Monitoring Council



- **Mission**

- Provides national forum for comparable and scientifically defensible water quality monitoring methods to improve monitoring, assessment & reporting.
- Promotes partnerships to foster collaboration, advance science & improve management in national water monitoring community.

NWQMC

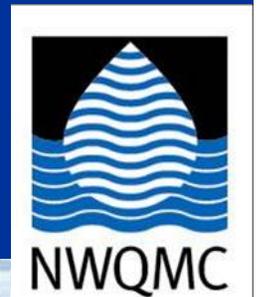


- 35 Members
- Defined representation
- Chairs – EPA & USGS
- Steering Committee
- 3 Key Workgroups
 - Water Info Strategies
 - Communication & Outreach
 - Methods Board
- 3 meetings/year & conf calls



NWQMC – NJ Participation

- **Leslie McGeorge** – Region 2 representative
- **Danielle Donkersloot** – Volunteer Monitoring rep alternate
- **Karl Muessig** – Association of American State Geologists alternate



NWQMC - Key Products & Highlights

- Website: <http://acwi.gov/monitoring>
- Support for State & Regional Councils
- State/Regional Council **Webinars** (e.g., sensors & data exchange)
- Quarterly **Newsletter**
- Biennial **National Water Monitoring Conferences** (NJ Council members participated in 2004, 2006, 2008, & 2010 conferences)
 - Next conference: Apr 30-May 4, 2012, Portland, OR
- **New** - **National Network of Reference Stream Sites**
- **NEMI** (National Environmental Methods Index)
- **New** – **NEMI Index for Water Statistics & Assessment Methods**



Key Product: NEMI

- Searchable repository for Methods:
 - Chemical
 - Physical
 - Biological
 - Microbiological
 - Toxicity
 - **Coming Soon**: Sensors - Methods of Env Measurement & Observation (MEMO)
 - **Coming Soon**: Statistical & Assessment Methods
- Developed and Maintained by NWQMC Methods Board
- Includes sample collection, prep & processing methods

Website: acwi.gov/methods/nemi/index.html

For further information about NJ or
National Councils:

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