

# Northeast Ohio Regional Sewer District

## Environmental Assessment Field Projects: 2016



# Post-Construction Monitoring Program (Consent Decree)

- To determine bacteria and nutrient loading during wet weather events (greater than 0.25 inches of rain) in order to analyze the effectiveness of the Long Term Control Plan Projects.
- Sample collection may occur multiple times per month at any of the sites between May 1 and October 31.

# CSO Permit Required Sampling

- Stream monitoring shall be conducted at each of the 14 sites at least once during the 5-year permit cycle.
- We are doing 12 this year.
- 7 CSOs will be sampled twice during wet weather events, April -November.



# Wetland Monitoring

- May and August
- Sediment and water
- Photos of all the sites
- Bratenhal, Nine-Mile, and Southerly



# Environmental Assessments for Watershed Monitoring program



# Environmental Assessments for Watershed Monitoring program

- Cuyahoga River + 6 Local Streams
- 34 Total Sites
- Water Chemistry
- Habitat (QHEI)
- Fish
- Macroinvertebrates

# Green Bulkhead Monitoring

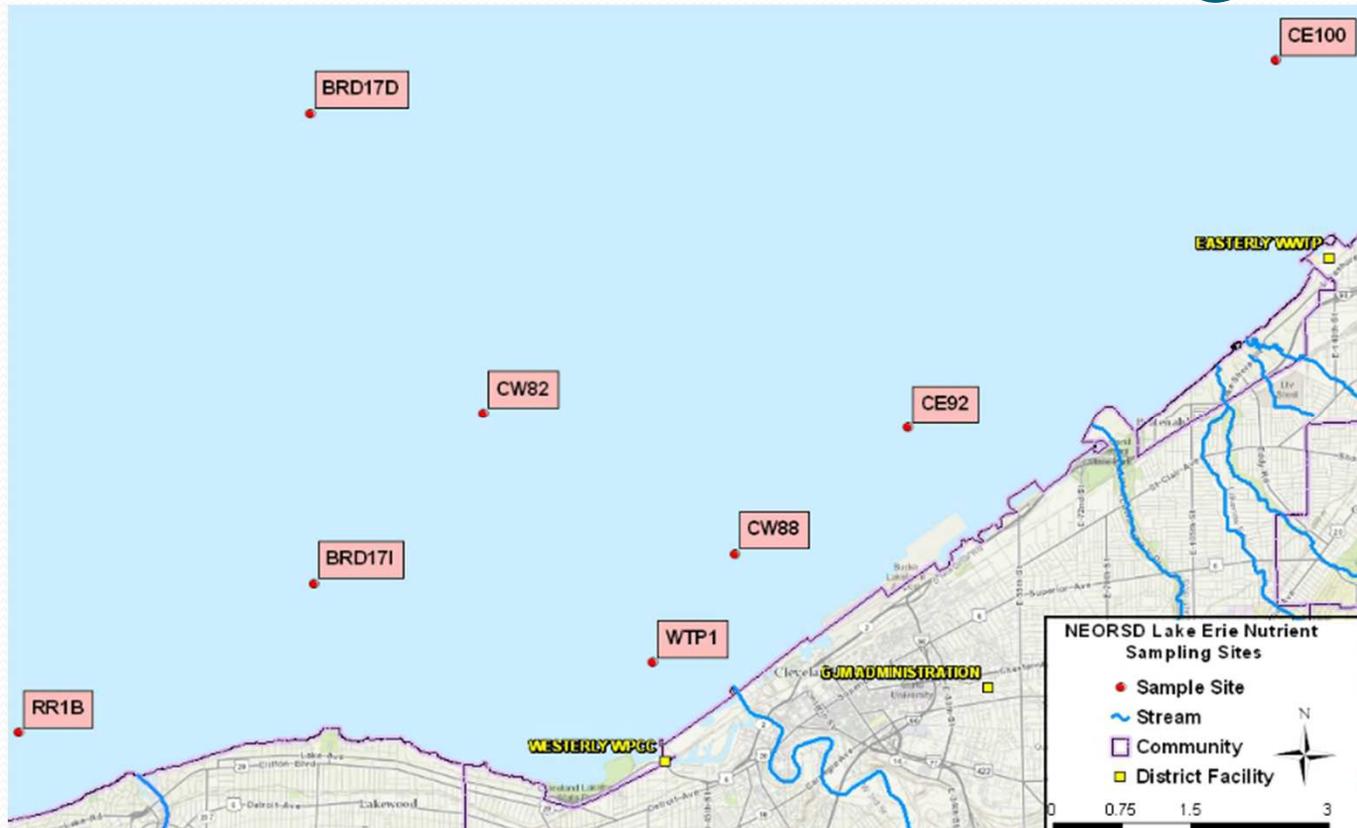
- Habitat installed in navigation channel
- Larval & Plankton Tows
- Water Chemistry Sampling
- 4 Data Sondes



# Beach Monitoring and Lake Erie Nutrient Study



# Lake Erie Monitoring



- Determine spatial trends in algal densities and nutrient concentrations in Lake Erie.

# Harmful Algal Blooms (HAB)

- Follow Ohio Beach Managers Guide
- Visual Monitoring
- Sampling for phytoplankton ID & toxin analysis



# Beach Sampling

- Villa Angela Beach, Euclid Beach, Edgewater Beach, Euclid Creek RM 0.55
- *E. coli* densities, field parameters, visual observation
- May 1 through October 30th



# Additional Beach Studies

- Sand sampling for *E. coli* and TOC
- Determine impacts from Euclid Beach parking lot & mobile home community



# Long-Term Data Sonde Stations

- Rocky River
- Big Creek
- West Creek
- Euclid Creek
- New site in 2016
- Live data available to public at:  
<https://wqdatalive.com/public/177>



# Illicit Discharge Detection & Elimination (IDDE)

- Continue working through current list of higher priority outfalls
- Olmsted Falls outfall inventory
- Study to determine impacts to receiving waters and variability over time



# Environmental Assessment Group

Kelsey Amidon

Donna Friedman

Ron Maichle

Mark Matteson

Denise Phillips

Eric Soehrlen

Nicole Velez

Tom Zablony

Supervisor: Seth Hothem

