

#### Regional Stormwater Management Program:

Flooding, Erosion, and Water Quality

Watershed Advisory Committee



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#### **Agenda**

- Introductions
- Watershed Advisory Committee
- Regional Stormwater Management Program
- Community and Customer Outreach
- Inspection and Maintenance Program
- Stormwater Master Plans
- Stormwater Construction Plan

**TODAY'S MEETING GOAL:** Reintroduce the components of Regional Stormwater Management Program

### Watershed Advisory Committees

- Meets March and October
- Members: Member Community, Public Agency with control of infrastructure in the watershed
- Interested Entities: Watershed Groups, Land Conservancies



### Watershed Advisory Committees

- Mechanism to provide input on Programs:
  - > Stormwater Master Plans
  - ➤ Stormwater Construction Plan
  - Inspection, Operation and Maintenance Activities
  - > NPDES Phase II Assistance



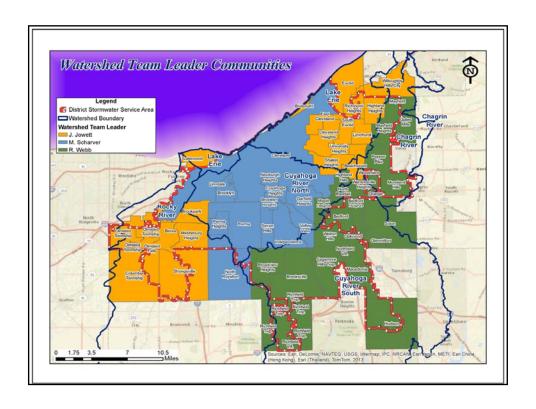


#### Watershed Team Leader

- Provide seamless communication between the District and Member Communities
  - > Stormwater Program information
  - > Construction or Maintenance project information
  - ➤ Local Stormwater System inquiries
  - ➤ Inspection requests
- Provide seamless communication between the District and Customer





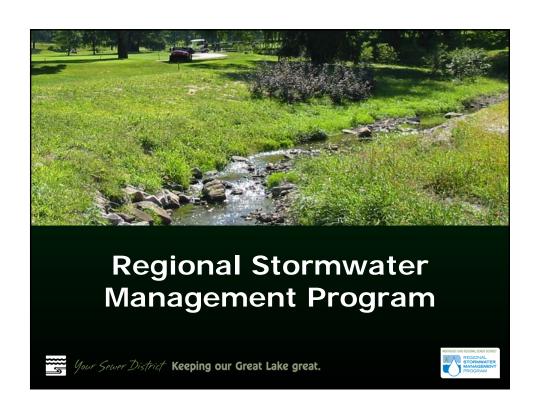


#### Watershed Team Leader

- Manage WAC
- Work with E&C and O&M on stormwater projects
- Administer Community Cost-Share Program
  - Status updates for CCSP Accounts
  - Feedback on potential projects
  - Review Applications, Requests for Payment and **Progress Reports**





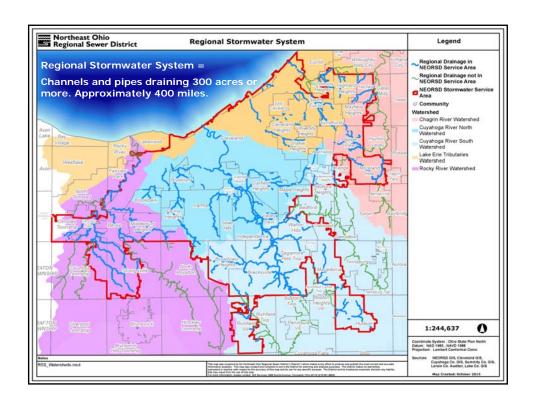


### Regional Stormwater Management Program

- Slip opinion issued Sept. 15
- Request for reconsideration denied: Dec. 2, Slip opinion final
- Escrow funds received from Huntington Bank: \$20.9 million

District has authority to implement and collect fee for the Regional Stormwater Management Program





### Regional Stormwater Management Program

- Estimated revenue of \$41M/year from impervious surface fee
  - Inspection and Maintenance
  - Construction
  - Partner support
- Stormwater Fee Credits recognize on-site Stormwater Control Measures
  - Quantity Credit
  - Quality Credit
  - Education Credit
  - Individual Residential Credit



#### **Stormwater Fee**

2016 Base Rate = \$5.15 per ERU/month Billing to begin second half 2016

- Impervious Area (IA)
  - > Billing Unit = Equivalent Residential
    Unit (ERU)
  - > ERU = 3,000 square feet of IA

#### **Stormwater Fee**

2016 Base Rate = \$5.15 per ERU/month Billing to begin second half 2016

- Property Classification
  - > SFR: Single Family Residential
  - ➤ NSFR: Non-Single Family Residential

#### **Stormwater Fee**

2016 Base Rate = \$5.15 per ERU/month Billing to begin second half 2016





#### **Stormwater Fee Credits**

- All Existing Credits
  - Will be honored upon start up
  - Renewals will be required to continue credit
- Pending Applications will be reviewed
- Credit Manual Updates
  - Addition of Agricultural Credit
  - Modification of Education Credit
  - 1st Quarter 2016



#### **Stormwater Fee Credits**

- District is planning several credit workshops for 2016
- Quality / Quantity credits may involve the support of community engineer
- Residential credits may involve support from the Building Department

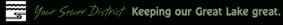






#### **Member Community Outreach**

- Government Affairs Bulletin: 12/9/2015
- Watershed Advisory Committee: Feb. 2016
- Stormwater Service Agreements: Jan. 2016
- Community Cost-Share: On-going





# RSMP Service Agreement Highlights

- Services performed by District
- Member Community Obligations
  - Comply with Title V
  - Provide access through public ROWs
  - Provide available data for plan reviews
  - Representation on Watershed Advisory Committees
  - Cooperate with permits, easements, ROE, traffic control
- Non-interference with District's emergency powers and rights under RC 6119

#### **RSMP Service Agreement** Agreement Intent

- Standard terms and conditions for all Member Communities
- Terms and conditions non-negotiable
- Optional Exhibit Letter of understanding for interpretation of specific terms
- Member Communities must sign Agreement to:
  - Access Community Cost-Share funds
  - Authorize District to construct projects



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#### **RSMP Service Agreement Exhibits**

- Stormwater Service Area
- Operation and Maintenance Policy
- Community Cost-Share Policy
- Watershed Advisory Committee Policy
- Review Stormwater Management Plans Submitted by Member **Communities Policy**





#### **Community Cost-Share**

- 25% of annual Stormwater Fee revenue collected in each Member Community
- Address current, or minimize new stormwater flooding, erosion or water quality problems

#### **Community Cost-Share**

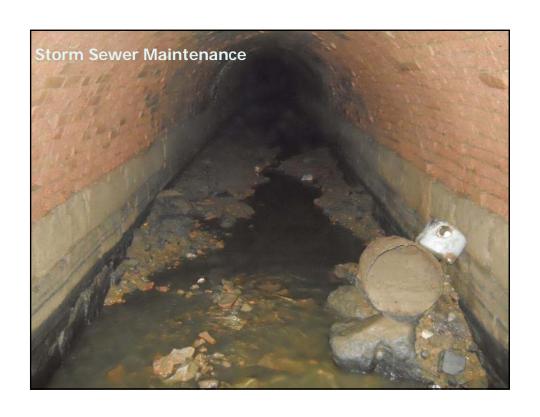
- Opportunities may include:
  - ➤ NPDES Phase II / MS4 Compliance
  - ➤ Mitigate Separate Sanitary Sewer Overflow
  - ► Local Storm Sewer Rehabilitation
  - ➤ Stormwater Control Measure Maintenance
  - ➤ MS4 IDDE Mapping / Source Tracking
  - ➤ Matching Funds for Stormwater Related Grants











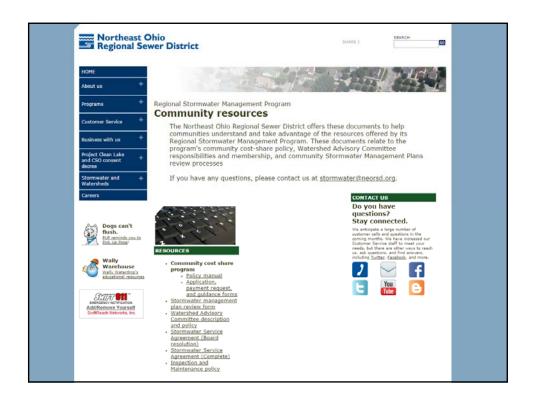




## **Community Cost-Share**

- District can review applications now
- Service Agreement required before application can be approved
- Funds available through reimbursement





#### **Customer Outreach**

- Customer service and Watershed Team Leaders are prepared to answer calls: 216.881.8247
- Outreach
  - Fee Finder and bill insert in 2016
  - Blog posts and social media
  - Community Outreach events
  - Creation of informational literature
  - Updates on Customer Service line
  - Community Presentations







#### **SWIM Program**

- Goal: Increase functionality of Regional Stormwater System to resolve/reduce critical consequences of flooding, erosion & catastrophic failure
- Responsible for inspection and maintenance of streams that are part of the Regional Stormwater System (>300 acres)





#### **Overall Stormwater Program Incorporating Asset Management**

- Delineated the Regional Stormwater System (RSS) into over 3,300 assets organized within five categories:
  - Streams
  - Crossings (e.g., culverts and bridges)
  - Culverted Streams
  - Basins
  - Major Structures (e.g., low head dams)



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#### **Overall Stormwater Program Incorporating Asset Management**

- The District also identified non-stormwater <u>b</u>uilding, <u>t</u>ransportation, and <u>u</u>tility (BTU) assets along the RSS
- The District develops Business Risk Exposure (BRE) scores = Condition xCriticality





#### Overall Stormwater Program Incorporating Asset Management

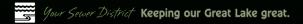
- Each RSS and BTU asset inspected receives a condition rating = 1-5 for three separate categories:
  - Sediment & Debris Accumulation
  - Structural Integrity
  - Hydraulic Performance
- Criticality values were defined by asset class (e.g., highway, local road, ODNR class I dam)



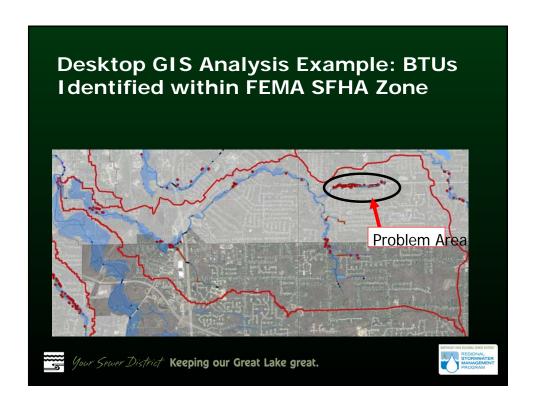
#### Overall Stormwater Program Incorporating Asset Management

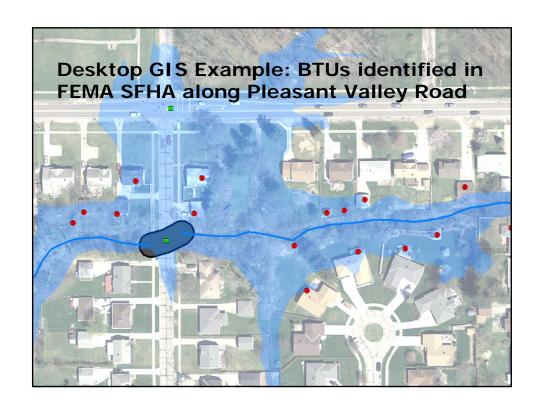
 BRE scores >= 20 do not meet the Acceptable Level of Risk (ALR).

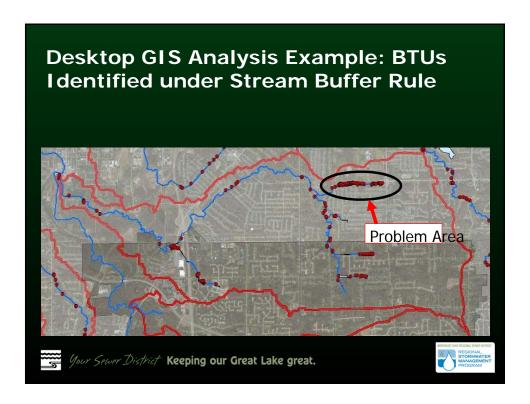
Therefore, they will be noted as problems and solutions will be developed and evaluated on their feasibility of reducing the BRE score below the ALR.









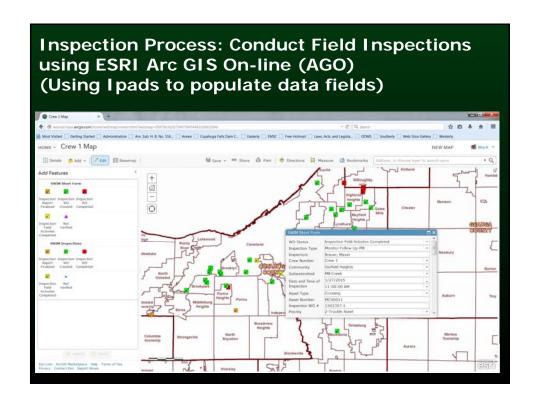


# **SWIM Program**Inspection Activities

- Inspection Categories
  - Emergency Response
  - Urgent Storm Event Response
  - Community Inquires
  - Customer Inquires
  - High Risk Assets (BTU and RSS)
  - Preventative Maintenance Routes









### **SWIM Program**

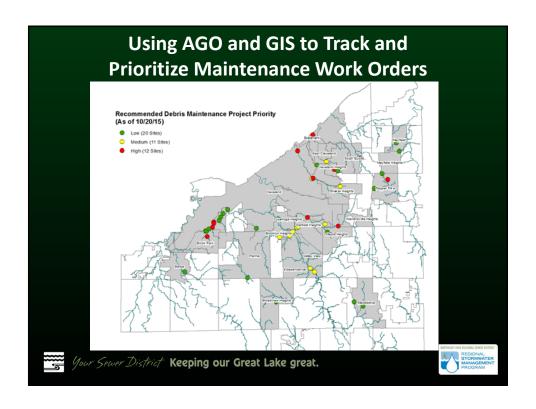
#### Maintenance Activities

- Existing Sediment and Debris Removal Contracts
- Existing Emergency Response contracting mechanism
- Exploring providing additional types of maintenance contracts
  - Basin maintenance
  - Streambank stabilization
  - Structural repair







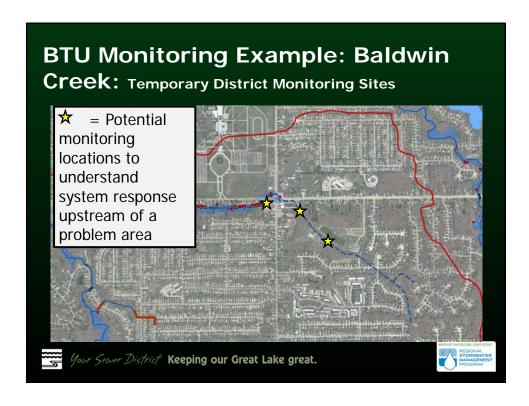


# **SWIM Program**Short-Term Monitoring Activities

- Objective
  - To better understand system response during storm events
  - Generally focus on areas that are either:
    - High Maintenance (frequency or cost)
    - High Risk (flooding, erosion, or debris)
    - Complex (e.g., understand slope failure)



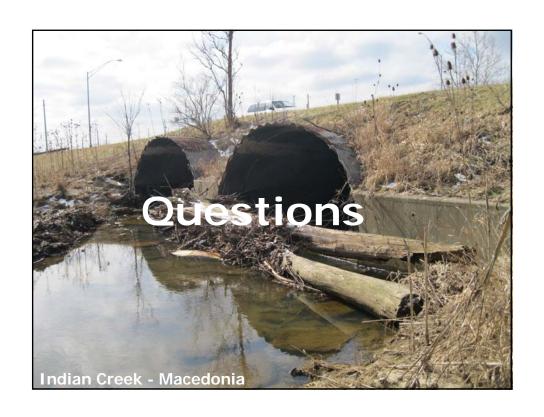


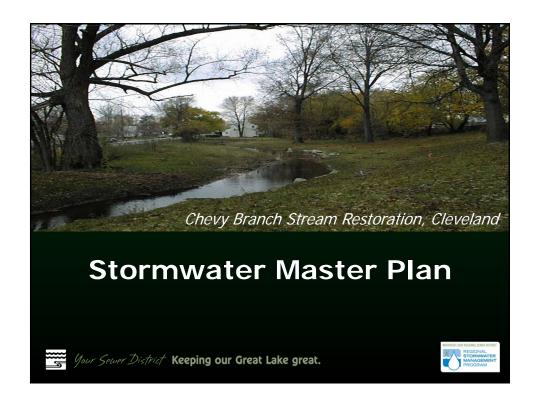


## **Inspection & Maintenance Program:** Communication on O&M Activities

- Member Community to District
  - Customer Service: (216) 881-8247
  - Watershed Team Leader
- District to Member Community
  - Schedule meeting with Service Director
  - Weekly inspection and maintenance activities: Weekly email
  - Large Maintenance Projects: 1-on-1 communication





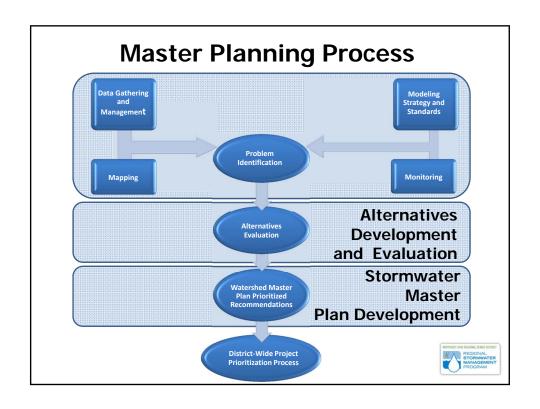


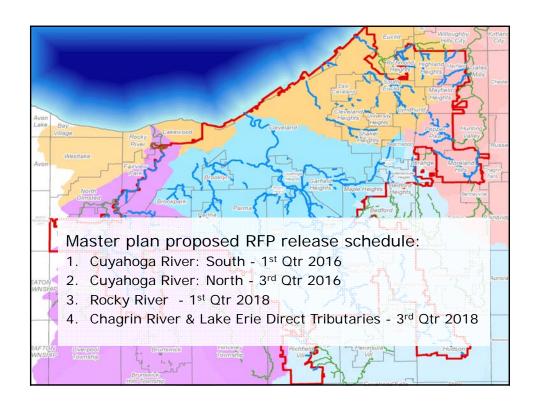
# **Stormwater Master Plans**Goals and Objectives

- Multi-objective, watershed approach to developing solutions for broad suite of problems
- Prioritized list of construction and maintenance projects at the Watershed-level and Program-level
- Identification of early action projects















### Cuyahoga South -Master Plan Communication

The Watershed Team Leader will contact you to inform you of any work in the watershed and serves as the point of contact between the communities and the District.

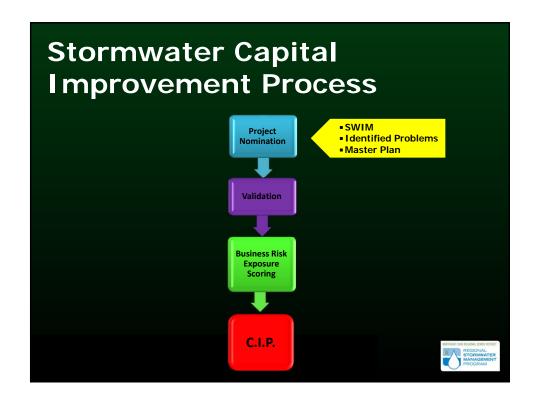
Rachel Webb Watershed Team Leader Cuyahoga River South WebbR@neorsd.org 216-881-6600 x6645

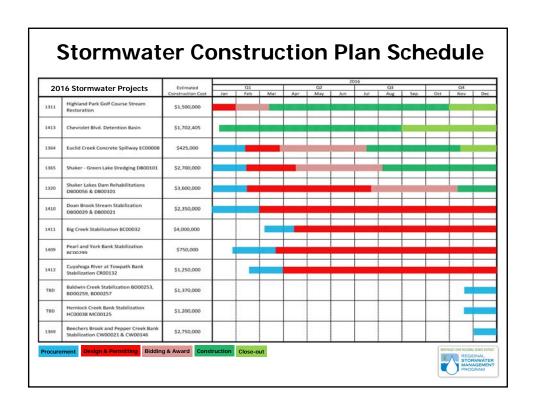


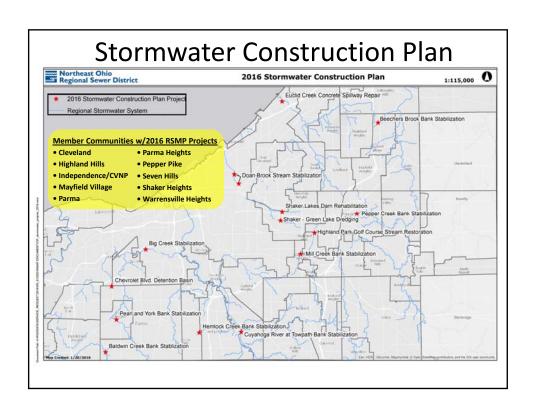




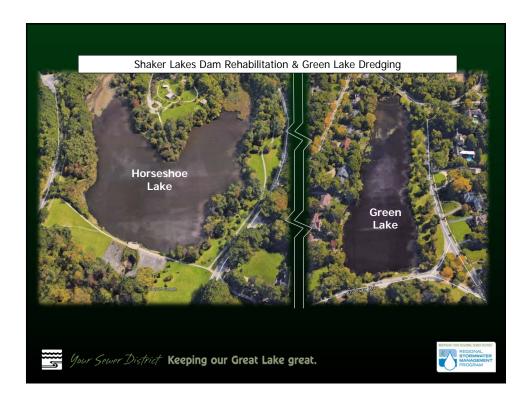


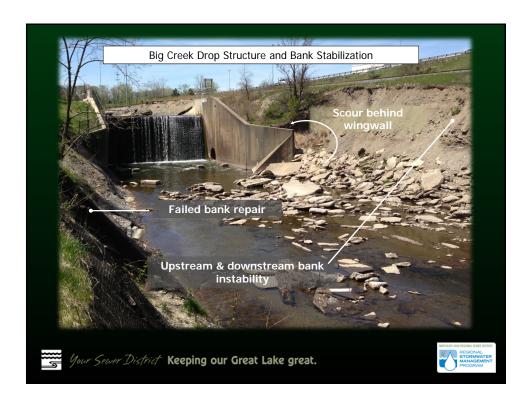


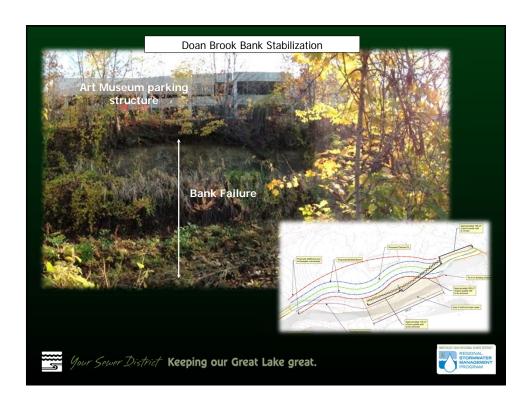




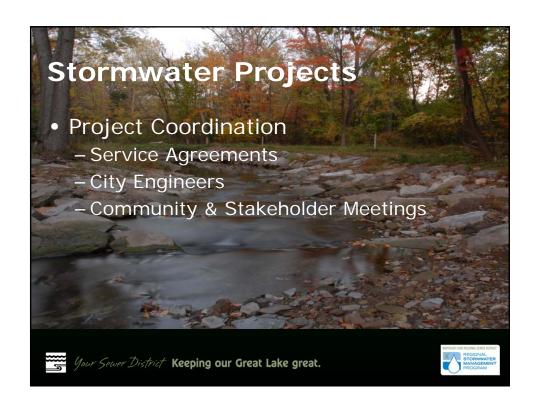














#### What's Next...

- District staff in streams doing:
  - Inspections
  - Maintenance
- SWIM meetings with Service Directors
- Design and construction of projects

#### What's Next...

- Service Agreements
- Community Cost-Share applications
  - Available funds indicated on handout
- Plan review of submitted SW Management Plans

#### What's Next...

- Establishing contracts for Phase II Services
  - County Boards of Health
  - Soil and Water Conservation District
- Stormwater Master Plans:
  - Cuyahoga South 1st Quarter 2016
  - Cuyahoga North 3<sup>rd</sup> Quarter 2016

#### What's Next...

- WAC Meetings
  - Rocky River Watershed: February 1
  - Cuyahoga River North: February 3
  - Lake Erie Direct Tributaries: February 8
  - Cuyahoga River South: February 10
  - Chagrin River Watershed: February 17
- Next Round in October 2016
- Contact your Watershed Team Leader with Questions - information on handout



#### Questions

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#### **Matt Scharver**

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#### **Rachel Webb**

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#### **Stormwater Program: Community Resources**

http://www.neorsd.org/communitystormwaterresources.php