REGIONAL STORMWATER MANAGEMENT PROGRAM

Addressing flooding, erosion, and water quality
Stormwater problems across Northeast Ohio:
Flooding, erosion, poor water quality
Problems cannot be solved by property owners alone.
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

• Funding Solutions:
  - More than $228 million in backlogged stormwater-related projects
  - Implement fee based on impervious surface
2010 Study: Over $200 million in Construction And Maintenance Projects
Regional Stormwater System =
Channels and pipes draining 300 acres or more. Approximately 400 miles.
Regional Stormwater Management Program Components…

- Stormwater Master Plans
- Inspect & Maintain
- Construct Projects
- Encourage Good Practices

Your Sewer District  Keeping our Great Lake great.
Stormwater Inspection and Maintenance
Goal: Increase functionality of Regional Stormwater System to reduce critical consequences of flooding, erosion & catastrophic failure

- Responsible for inspection and maintenance of streams that are part of the Regional Stormwater System
Maintenance Activities
Stormwater Master Plans: Facilitating Stormwater Management
NOT Stormwater Movement
1. Cuyahoga River: South - 1st Quarter 2016
2. Cuyahoga River: North - 3rd Quarter 2016
3. Rocky River - 1st Quarter 2018
4. Chagrin River & Lake Erie Direct Tributaries - 3rd Quarter 2018
Stormwater Construction Plan

Doan Brook Stream Enhancement, Cleveland
## Stormwater Construction Plan Schedule

<table>
<thead>
<tr>
<th>2016 Stormwater Projects</th>
<th>Estimated Construction Cost</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
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<tbody>
<tr>
<td>Highland Park Golf Course Stream Restoration</td>
<td>$1,500,000</td>
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<td>Chevrolet Blvd. Detention Basin</td>
<td>$1,702,405</td>
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<td>Euclid Creek Concrete Spillway EC00008</td>
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<td>Shaker - Green Lake Dredging DB00101</td>
<td>$2,700,000</td>
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<td>Shaker Lakes Dam Rehabilitations DB00056 &amp; DB00101</td>
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<td>Doan Brook Stream Stabilization DB00029 &amp; DB00021</td>
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<td>Big Creek Stabilization BC00032</td>
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<td>Pearl and York Bank Stabilization BC00299</td>
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<td>Cuyahoga River at Towpath Bank Stabilization CR00132</td>
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<td>Hemlock Creek Bank Stabilization HC00038 MC00125</td>
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<td>Beechers Brook and Pepper Creek Bank Stabilization CW00021 &amp; CW00146</td>
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</tbody>
</table>
Stormwater Construction Plan

- Cleveland
- Highland Hills
- Valley View
- Mayfield Village
- Parma
- Parma Hts
- Pepper Pike
- Seven Hills
- Shaker Hts
- Warrensville Hts
Chevrolet Boulevard Detention Basin Design
Scour behind wingwall

Failed bank repair

Upstream & downstream bank instability

Big Creek Drop Structure and Bank Stabilization
Big Creek Downstream of Pearl & York Road Intersection

Exposed sanitary sewer manhole

Severe streambank erosion
Stormwater Fee

2016 Base Rate = $5.15 per ERU per 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 per 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 per month
Billing to begin second half 2016
Stormwater Fee – Single Family

• Tier 1 (Small) < 2,000 ft²
  - $3.09 per month

• Tier 2 (Medium)
  - $5.15 per month

• Tier 3 (Large) > 4,000 ft²
  - $9.27 per month
Stormwater Fee Example

- Downtown Cleveland
- 99,000 sq.ft of total impervious area
- 33 ERUs across multiple parcels
- $509.85/quarter
- $2039.40/year
Stormwater Fee Credits

- Stormwater Fee Credits recognize on-site Stormwater Control Measures
  - Quantity Credit
  - Quality Credit
  - Education Credit
  - Individual Residential Credit
Stormwater Fee Credits

Good Stormwater Management = Disconnection and Distribution
Community and Customer Outreach
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
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
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
Thank You

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