



Regional Stormwater Management Program: Watershed Advisory Committee Rocky River October 27, 2016





Agenda

- Welcome
- Program Updates
- Community Cost-Share
- Stormwater Construction Plan
- Stormwater Master Plans
- Phase II Stormwater Services
- What's Next

Watershed Advisory Committees

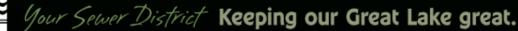
- Meets March and October
- Members: Member Community, Public Agency with control of infrastructure in the watershed
- Interested Entities: Watershed Groups, Land Conservancies



Watershed Advisory Committees

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







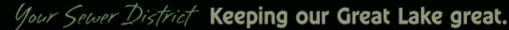
Agenda

- Welcome
- Program Updates
 - Stormwater Fee Billing and Credits
 - Stormwater I&M
 - Stormwater Management Plan Review
- Community Cost-Share
- Stormwater Construction Plan
- Stormwater Master Plans
- Phase II Stormwater Services
- What's Next

Stormwater Fee Billing

- 2nd round of stormwater bills started in October
- Monthly billing begins in January
 - Stormwater Only bills will remain quarterly

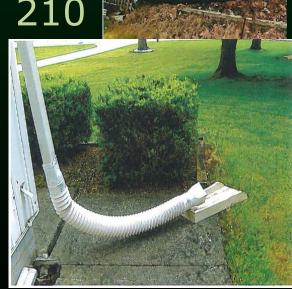






Stormwater Fee Credits

- Stormwater Fee Credits
 2013 to 10/5/2016
 Approved: 1240
 - Pending Review: 210
 - Denied: 144
 - Incomplete: 35





20 3



Title V – SW Mgm't Plan Review Member Community Responsibilities

- Submit/cause to submit SW mgm't plans to the Sewer District within 7 days of your receipt of plans
- Ensure minimum standards are used for design, including all applicable federal and state regulations
- Adopt minimum stormwater design and programmatic standards consistent with Ohio EPA NPDES MS4 and CGP Permits
- Update the Sewer District when your stormwater management regulations are revised



Title V – SW Mgm't Plan Review Sewer District Responsibilities

- Review submissions with respect to flooding, erosion and water quality issues
- Provide review comments within 15 business days of receiving a <u>complete</u> SW Mgm't Plan
- Ensure SCMs meet minimum design standards maximize future credits opportunities
- Sewer District comments are advisory only and are non-binding on the Member Community and the applicant





Stormwater Inspection and Maintenance Rocky River Fall 2016 Update





Your Sewer District Keeping our Great Lake great.

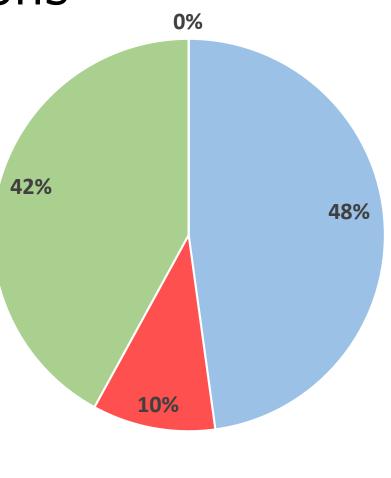
NORTHEAST OHIO REGIONAL SEWER DISTRICT REGIONAL STORMWATER MANAGEMENT PROGRAM

Rocky River Watershed 2016 Inspections

	Rocky River
PM	33
FO	7
SE	29
ER	0
	69

Legend:

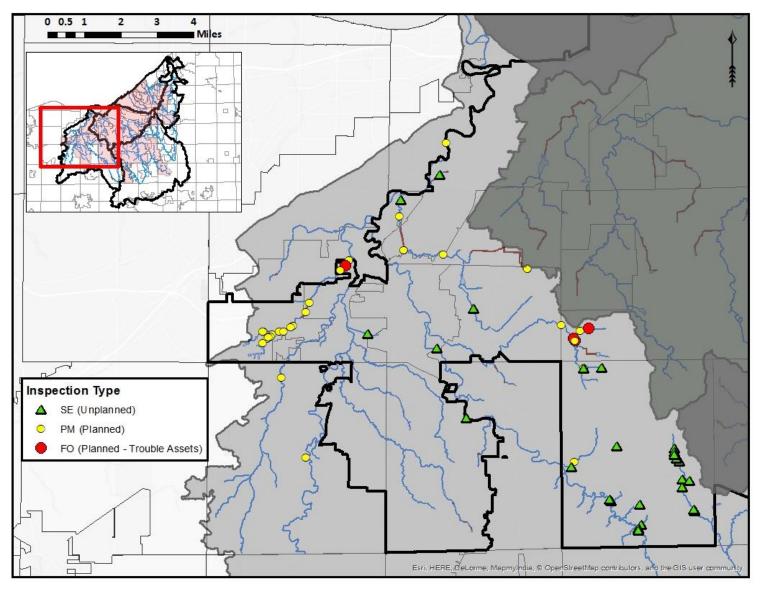
SE = Customer Call PM = Planned Inspection FO = Follow-up on a Problem Asset ER = Emergency Response



■ PM ■ FO ■ SE ■ ER



Rocky River Watershed 2016 Completed Inspections





Minnie Creek Asset ID: MN00070B (Olmsted Falls)



Structural Integrity Streambank Erosion

Recommendation Further Analysis Monitoring





Abram Creek Asset ID: AC00163 (Middleburg Heights)



Structural Integrity Pipe Invert Beginning to Fail

Recommendation Further Analysis Monitoring

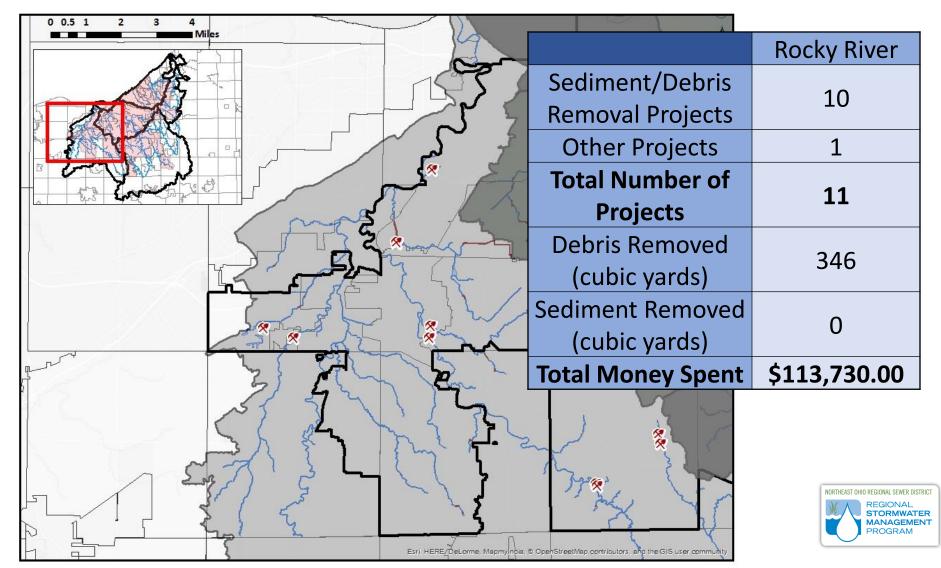




New Regional Stormwater System Assets Emerald Parkway (Cleveland)

CTEREFORD DATA	
Asset Class Number of Lengt	
Type Assets Mil	es
Stream 2 0.3	57
Crossing 2 0.0)7
Culverted 3 0.2	9
Stream	
TOTAL 7 0.7	'3

Rocky River Watershed 2016 Completed Maintenance Projects



Debris Maintenance BD00214 Baldwin Creek (Berea)







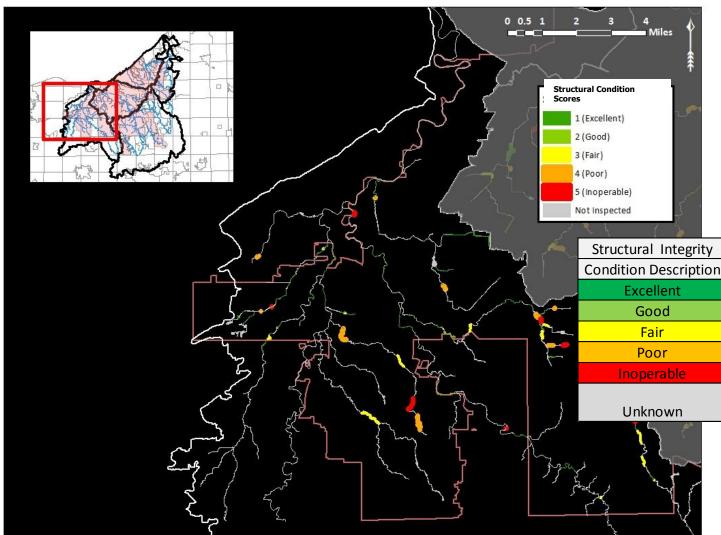
Debris Maintenance AC00016 Abram Creek (Cleveland)







Rocky River Watershed Structural Integrity Condition Ratings



NORTHEAST OH	IO REGIONAL SEWER DISTRIC
<u>))</u> (REGIONAL STORMWATER MANAGEMENT PROGRAM

Count

83

20

15

10

6

667

% Total 10%

3%

2%

1% 1%

84%

Rating

1

2

3

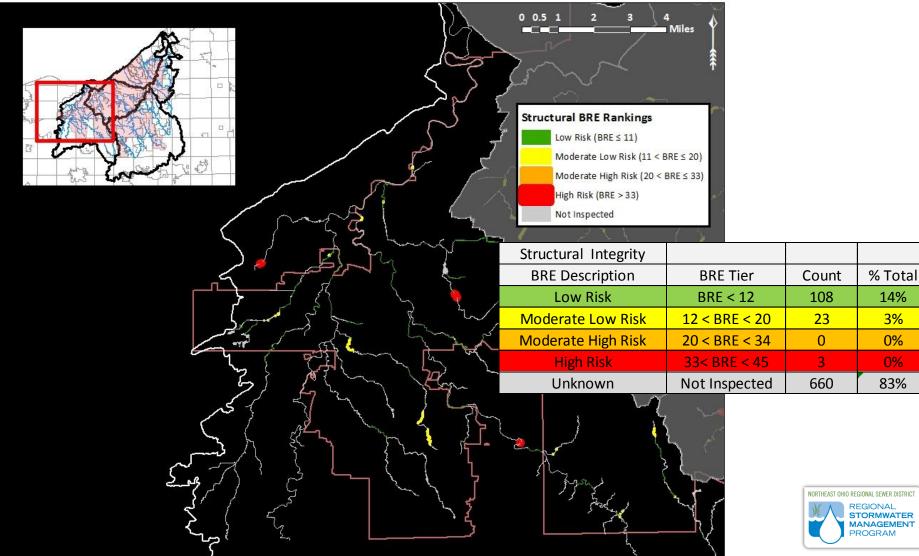
4

5

Not

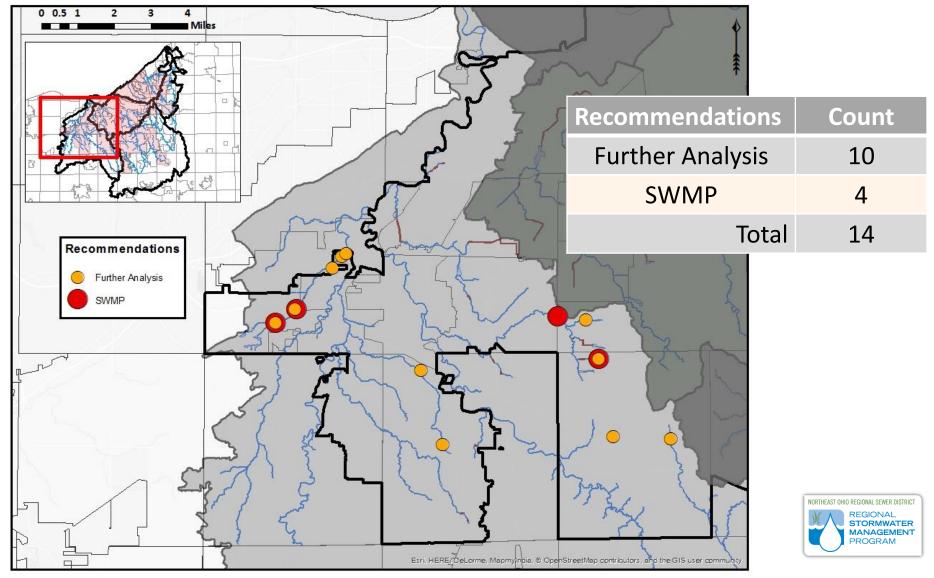
Inspected

Rocky River Watershed Structural Integrity BRE Rankings

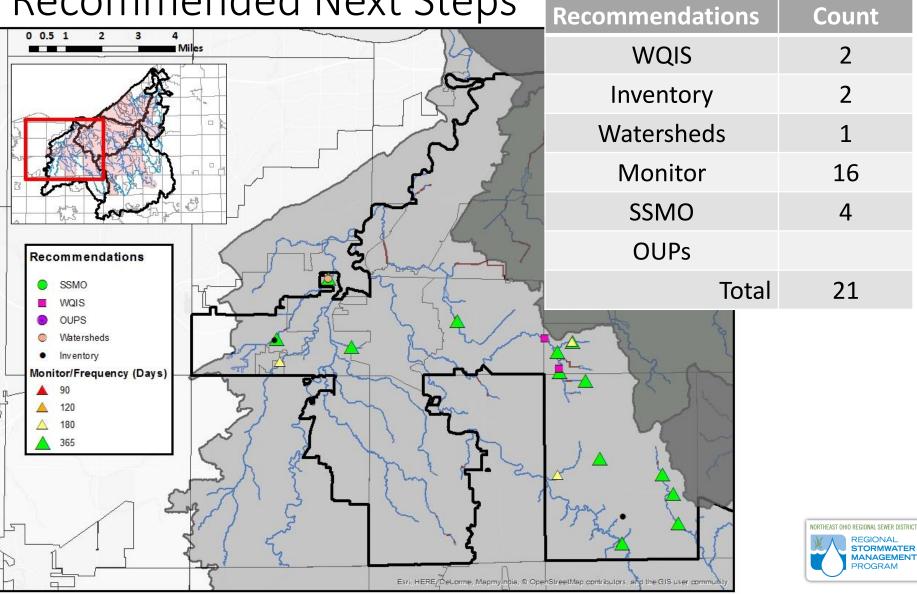


Rocky River Watershed

Recommended Further Analysis & SW Master Plan



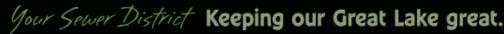
Rocky River Watershed Recommended Next Steps



Stormwater I&M Next Steps

- Track all recommendations to completion
- Continue inspecting assets without condition scores
- Coordinate with asset owners to collect record drawings and historical inspections



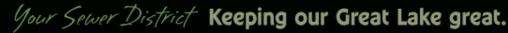




Stormwater I&M Next Steps

- 2016 State of the Infrastructure Report
- Inspect assets at the BTU level
- Update storm event inspection routes





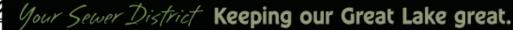


Agenda

- Welcome
- Program Updates
- <u>Community Cost-Share</u>
 - Policy, Application, and Review Process
 - Program Forms
 - Example Projects
- Stormwater Construction Plan
- Stormwater Master Plans
- Phase II Stormwater Services
- What's Next

- \$5,923,528.40 available across communities
- Eleven approved projects, totaling \$559,950.32
- Outreach to communities offering assistance







- Program Policy
- Process Overview
 - Project Eligibility
 - Ineligible Projects
 - Application Overview
 - Reimbursement Overview





- Program Forms
 - Application
 - Progress Report
 - Budget Modification Request
 - Reimbursement Request
 - Cover Sheet
 - Deliverable Expense Worksheet





Community Cost-Share Community Resources Website

http://neorsd.org/communitystormwaterresources.php







NORTHEAST OH	O REGIONAL SEWER DISTRICT
M A	REGIONAL STORMWATER MANAGEMENT PROGRAM

1

Community Cost-Share Program APPLICATION

Member Community Information	
Community:	·
Primary Project Contact: (Name & Title)	
Mailing Address:	
Phone Number:	
Email:	
Project Information	
Project Title:	
Address or Location of Project:	
Project Start Date:	
Project End Date:	
Community Cost-Share Fund Request:	
Submission Date:	

Rev 5/2016





- Application...
 - Project Narrative (1,000 words)
 - Ability to Provide Long-Term Maintenance (500 words)
 - Visibility & Public Outreach (500 words)
 - Budget Summary
- Vendor Registration





6

Vendor Registration

Prior to submission, ensure that the Member Community is a registered vendor with the District. Vendor Registration can be done by accessing http://www.neorsd.org/isupplier_homepage.php and completing the New Vendor Registration. If unsure of the Member Community vendor status, by initiating the New Vendor Registration a message of active registration will appear if currently registered as a vendor.

Project Budget

Project Expenses	Community Cost- Share Expense	Line Item Description
Professional Services		
Personnel		
(Member Community staff only)		
Subcontract		
Equipment		
Materials		
Other		
TOTAL	\$	

Rev 5/2016

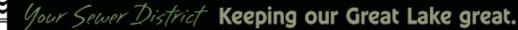


Your Sewer District Keeping our Great Lake great.

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- Agreement
 - Template agreement tailored to project request
 - Legal review and execution timing
 - Projects <u>must be pre-approved</u> to be eligible for reimbursement





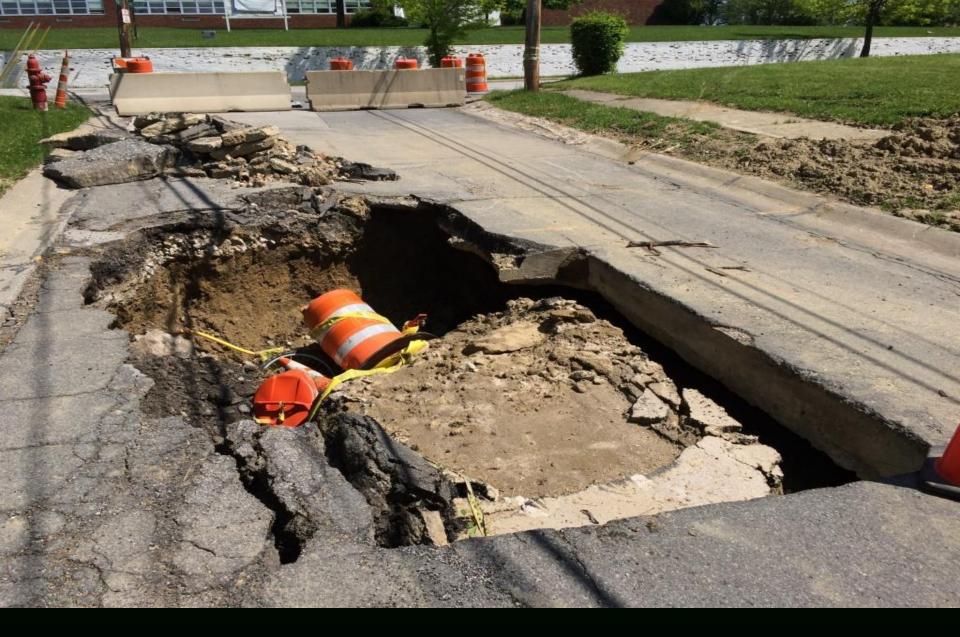


Community Cost-Share Garfield Heights

- East 135th Sanitary Sewer Replacement
- Acute SSO/Illicit Discharge
- 8" sanitary sewer / excavation / roadway repair
- \$131,022.94 approved
- Budget Modification Request for increased costs











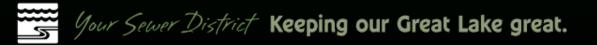






Community Cost-Share Parma

- Coventry-West Creek Impervious Surface Removal
- Chronic sewage-stormwater basement flooding adjacent to West Creek tributary
- Demolition of 3 single-family homes (10,030 sq.ft. of IA)
- \$37,023.90 approved w/ budget modification
- Budget Modification Request for increased costs





Community Cost-Share









Agenda

- Welcome
- Program Updates
- Community Cost-Share
- <u>Stormwater Construction Plan</u>
 - Status of 2016 Projects
 - Proposed Near Term Projects
- Stormwater Master Plans
- Phase II Stormwater Services
- What's Next



2016 CONSTRUCTION PLAN









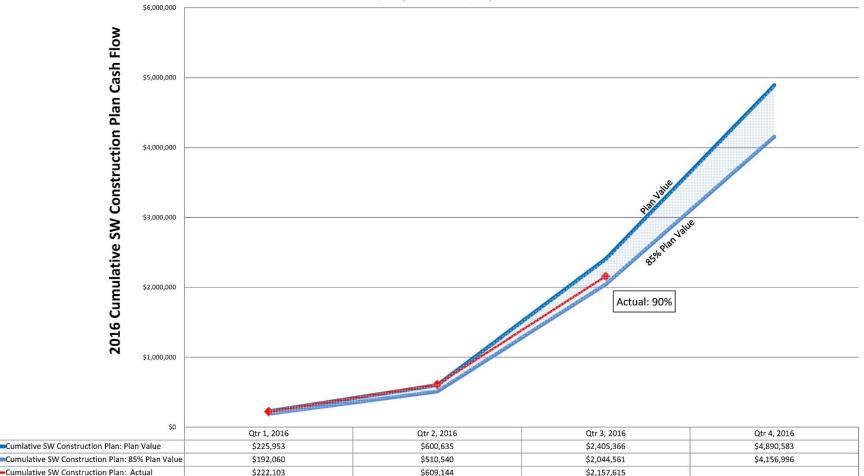
STORMWATER CONSTRUCTION PLAN 2016 STATUS UPDATE

NORTHEAST OHIO REGIONAL SEVER DISTRICT REGIONAL STORMWATER MANAGEMENT PROGRAM

Storm	water Construction Plan: 2016									Procurement Design Construction				
Status at close of Q3		Estimated Construction Cost	Procurement		Design					Construction				
1311	Highland Park Golf Course Stream Restoration Other Funding (grants, wastewater budget, community funded, etc.)	\$1,700,000								Tracking to	meet substan	tial completic 97%	h date of 11/.	3/2016.
1413	Chevrolet Blvd. Detention Basin Other Funding (grants, wastewater budget, community funded, etc.)	\$1,702,405								Met :	ubstantial cor	npletion date 100%	of 10/26/201	Б. Г
1487	Shaw Brook Culverted Stream Rehabilitation Other Funding (grants, wastewater budget, community funded, etc.)	\$950,000					100%	On	schedule					
1364	Euclid Creek Concrete Spillway EC00008	\$362,097					100%							
1365	Shaker - Green Lake Dredging DB00101	\$2,700,000					98%			On schedul	8			
1320	Shaker Lakes Dam Rehabilitations DB00056 & DB00101	\$3,600,000					90%							
1410	Doan Brook Stream Stabilization DB00029 & DB00021	\$2,350,000			On sche 30%	dule								
1411	Big Creek Stabilization BC00032	\$6,000,000			20%	Trackii issues	g behind sche with CSX Railr	dule due to co ad.	ordination					
1409	Colombo Park BC00299	\$1,000,000			30%			oximately 3.5 truction awa		d but expect	to meet overa	li		
1412	Cuyahoga River at Towpath Bank Stabilization CR00132	\$1,500,000				On schu 50%	dule							
1369	Beechers Brook and Pepper Creek Bank Stabilization CW00021 & CW00146	\$2,750,000	60%				t of procuren ahead of sche							
1490	Hemlock Creek Bank Stabilization	\$1,500,000	80'	%			t of procurem chead of sche							
1491	Mill Creek Bank Stabilization MC00125	\$1,000,000	80'	%			t of procuren ahead of sche							
TBD	Baldwin Ck Bank Stabilization BD00259, BD00257	\$1,200,000	5%											
TBD	Baldwin Ck Bank Stabilization BD00297	\$300,000	5%											
TBD	Emerald Parkway Culvert Rehabilitation	\$2,000,000			t will most lik permanent s		rt term repair	as well as						

STORMWATER CONSTRUCTION PLAN 2016 PROJECTS

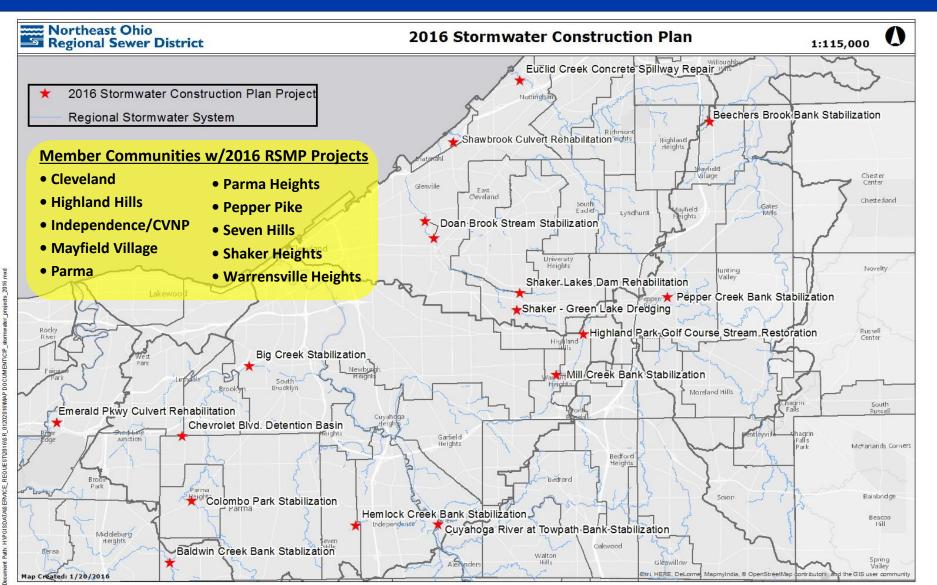
Total Stormwater Construction Plan (Planning, Design, & Construction) Cash Flow Projection Qtr 1, 2016 - Qtr 4, 2016





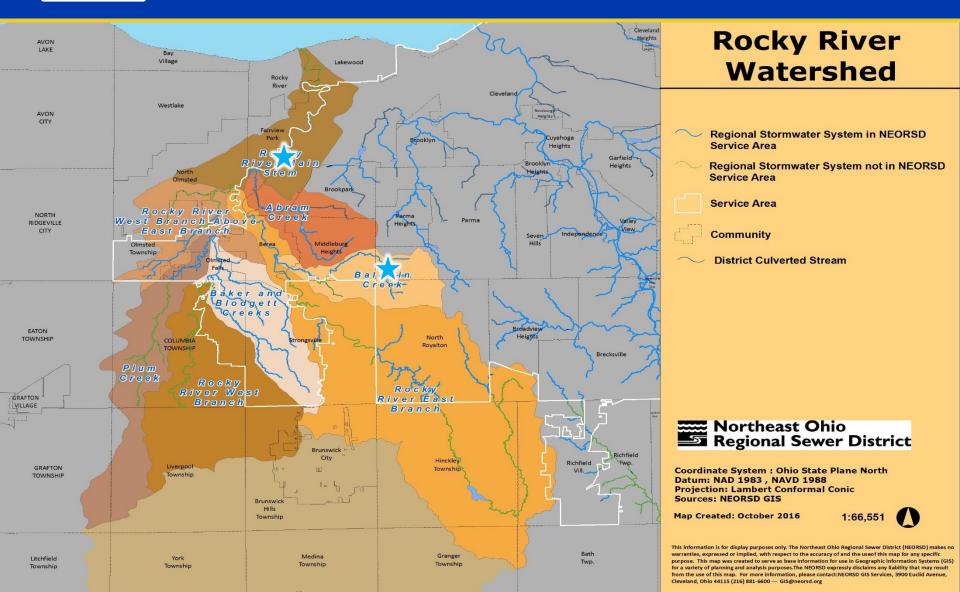
STORMWATER CONSTRUCTION PLAN 2016 PROJECTS





STORMWATER CONSTRUCTION PLAN 2016 PROJECTS

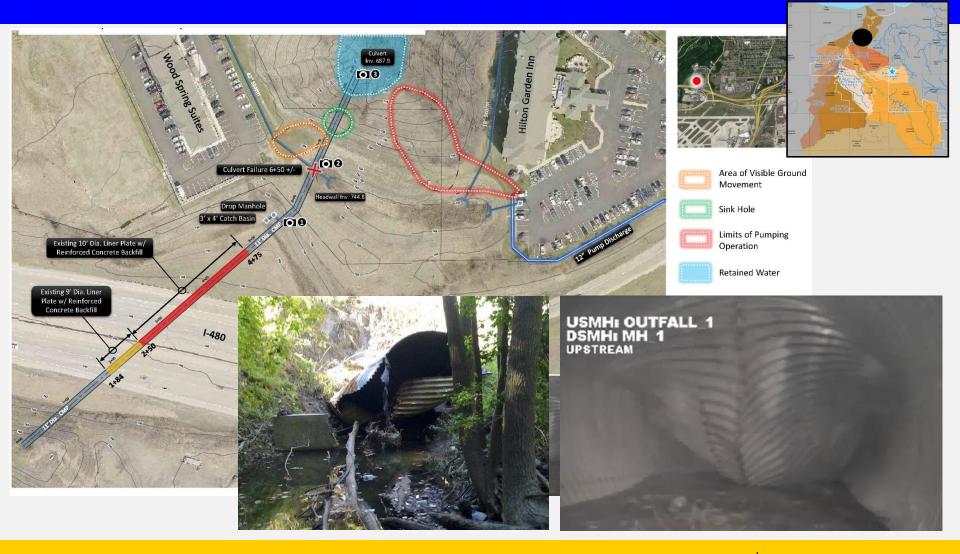
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EMERALD PKWY EMERGENCY CULVERT REPLACEMENT







BALDWIN CREEK BANK STABILIZATION









HIGHLAND PARK GOLF COURSE STREAM RESTORATION



LAKE ERIE DIRECT SUBWATERSHEDS



construction



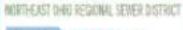






HIGHLAND PARK GOLF COURSE STREAM RESTORATION







Highland Park Golf Course Stream Restoration Project







Funded by the Ohio EPA Water Resource Restoration Sponsor Program, the Northeast Ohio Regional Sewer District, and the **US Forest Service**

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QUESTIONS



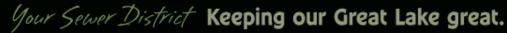




Doan Brook Stream Enhancement, Cleveland

Stormwater Construction Plan Proposed Projects







Stormwater Construction Plan Annual Process

Stormwater Inputs

Further Analysis Projects SW Master Plan Recommendations Community Identified Project Watershed Group Project

Project Nomination

Validation

Business Risk Exposure Scoring

SW Construction Plan

Community Identified Project

Submit Project information to the Sewer District

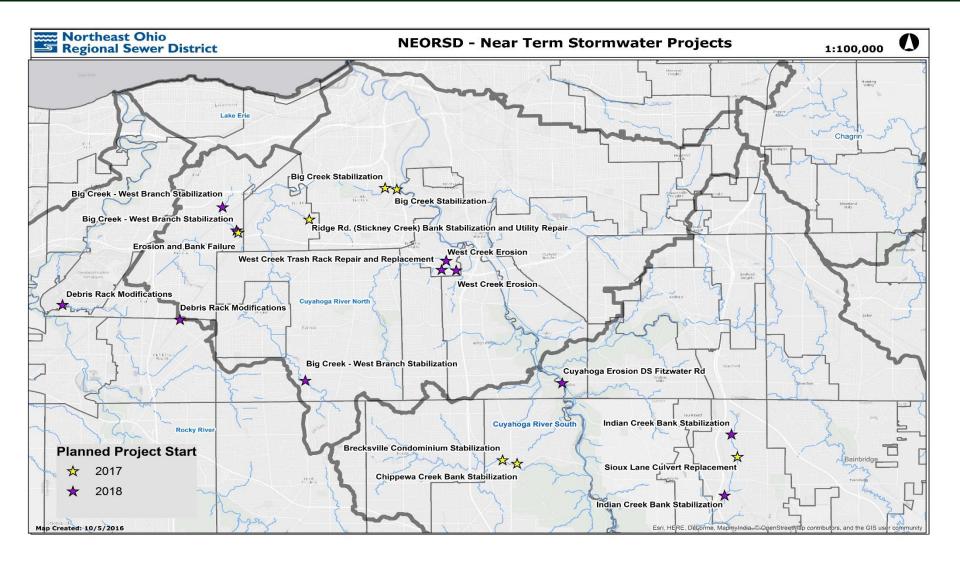
- Budget
- Project Summary
 - Problem being addressed
 - Explanation of the extent of specific improvements along the RSS
 - Site maps



Community Identified Project

- Background Information
 - Studies and planning documents which support the need, and the proposed solution
 - Site geotechnical studies, wetlands, water quality, and listed endangered species
 - Existing and proposed preliminary hydrology and hydraulics
 - Permitting (if initiated)
 - Risks or constraints
 - Known stakeholder outreach or input
 - Current photos of the project site

Stormwater Construction Plan Proposed Projects



Ridge Road Bank Stabilization Stickney Creek (Brooklyn)









Condominium Stabilization Chippewa Creek (Brecksville)







Debris Rack Modification Abram Creek (Cleveland)- 2018













Questions

Highland Park Golf Course Stream Restoration, Highland Hills

Agenda

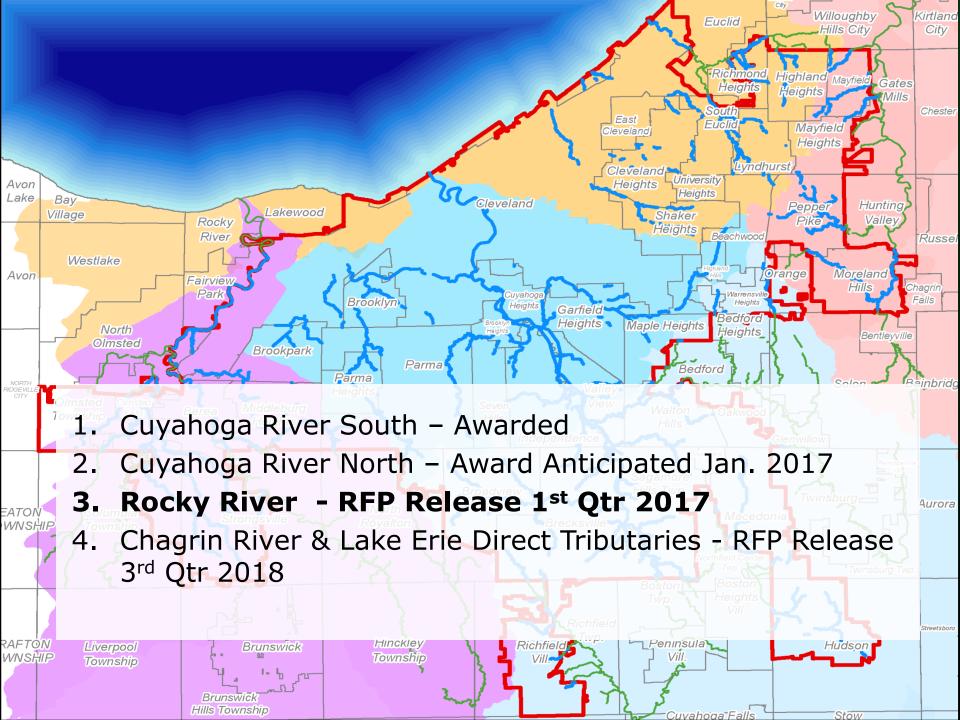
- Welcome
- Program Updates
- Community Cost-Share
- Stormwater Construction Plan
- <u>Stormwater Master Plans</u>

– Schedule

- Phase II Stormwater Services
- What's Next

Stormwater Master Plans Goals and Objectives

- Operational Performance Evaluation
 - Identify areas of erosion and flooding through a combination of modeling, field assessments, and monitoring including portions of the LSS
- Alternatives Development and Evaluation
 - Comprehensive set of solutions to existing and future problems
- Development of Master Plan
 - Recommendations for policies, construction projects, and maintenance activities



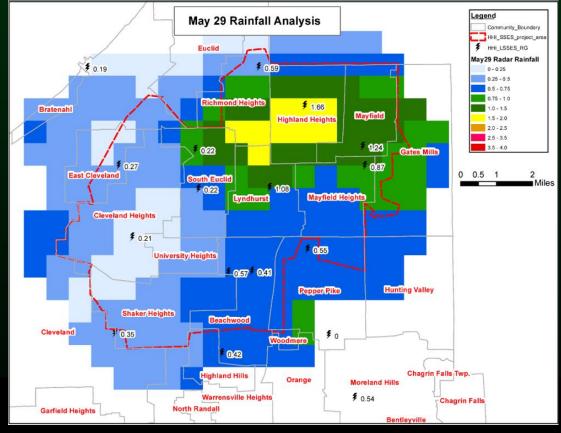
New Data Sources

LiDAR Data

2 Foot Contours



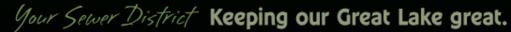
Radar Rainfall



Cuyahoga River South SWMP Data Requests/Needs

- Record drawings
- Inspection reports
- Previous studies
- Recent or future projects







Questions

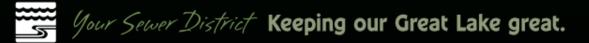
Independence, OH

Agenda

- Welcome
- Program Updates
- Community Cost-Share
- Stormwater Construction Plan
- Stormwater Master Plans
- <u>Phase II Stormwater Services</u>
 - Service Providers
 - Services to be Provided under RSMP
 - Program Structure
- What's Next

Ohio EPA Stormwater Program "Phase II"

- National Pollutant Discharge Elimination System (NPDES) Permit for Municipal Separate Storm Sewer Systems (MS4s)
- Requires communities to develop a stormwater management program that includes Six Minimum Control Measures
- All Sewer District Member Communities (except Linndale) included





Six Minimum Control Measures

- MCM #1: Public Education and Outreach
- MCM #2: Public Participation and Involvement
- MCM #3: Illicit Discharge Detection and Elimination
- MCM #4: Construction Site Runoff Control
- MCM #5: Post-Construction Runoff Control
- MCM #6: Pollution Prevention/Good Housekeeping for Municipal Operations



Sewer District Required to Provide Support to Communities for.....

- MCM #1: Public Education and Outreach
- MCM #2: Public Participation and Involvement
- MCM #3: Illicit Discharge Detection and Elimination
- MCM #6: Pollution Prevention/Good Housekeeping for Municipal Operations





Providing Support through Cooperative Agreements with.....

- Cuyahoga County
 - Board of Health
 - Soil & Water Conservation District
- Summit County

 Combined General Health District
 Soil & Water Conservation District
- Lorain County Stormwater Management District
- Applicable watershed organizations specifically providing MCM #1 and #2 services



Summary of Services WAC Communities in Cuyahoga County

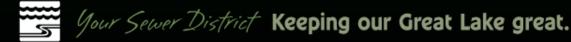
- Cuyahoga County Board of Health
 - MCM #3
 - MCM #6
- Cuyahoga SWCD
 - MCM #1
 - MCM #2
- Applicable watershed organization





Agreement Structure: Cuyahoga County Board of Health

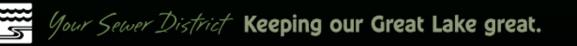
- Step 1: Board of Health and Sewer District enter into cooperative agreement
 - Board of Health provides MCM #3 and #6
 - Sewer District pays Board of Health
- Step 2: Board of Health enters into agreements with interested communities
- Step 3: Sewer District approves services and pays Board of Health





Next Steps for Board of Health: What to Look for in Late 2016

- Letter from Board of Health for 2017 cooperative agreement
 - As usual, if already receiving services
 - New, if not working with Board of Health
- Please note:
 - Sampling all outfalls with dry weather flow
 - Coordinating on source tracking
 - Only monitoring outfalls in Sewer District service area for partially served communities





Agreement Structure: Soil & Water Conservation Districts

Ohio Soil and Water Conservation Commission State Matching Fund Policy:

- Revenue received by SWCD from direct payments of stormwater utilities not matched
- Result: Tripartite contracting arrangement





Agreement Structure: Soil & Water Conservation Districts

- Step 1: SWCD, Sewer District, and interested community enter into agreement
- Step 2: Communities pay SWCD under agreement
- Step 3: Sewer District reimburses communities





Next Steps: What to Look for in Late 2016

- Letter from SWCDs offering services
 - As usual, if already receiving services
 - New, if not working with SWCD
- Please note:
 - Services available across communities
 - Coordinating on Phase II messaging
 - Different agreement in place if working with watershed organization





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- Welcome
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- Phase II Stormwater Services
- What's Next

What's Next...

- Sewer District staff in streams doing:
 - Inspections
 - Maintenance
- Design and construction of projects
- Community Cost-Share applications – Available funds indicated on handout
- Plan review of submitted SW Management Plans

What's Next...

- WAC Meetings
 - Cuyahoga River North: October 12
 - Cuyahoga River South: October 18
 - Lake Erie Direct Tributaries: October 19
 - Chagrin River Watershed: October 26
 - Rocky River Watershed: October 27
- Next Round in March 2017



Questions

Jeff Jowett

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Stormwater Program: Community Resources

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

