

Lake Erie Direct Tributaries Watershed

- Regional Stormwater System in NEORSD Service Area
- Regional Stormwater System not in NEORSD Service Area
- Service Area
- Community
- District Culverted Stream

Northeast Ohio Regional Sewer District

Coordinate System: Ohio State Plane North Datum: NAD 1983, NAVD 1988

Projection: Lambert Conformal Conic

Sources: NEORSD GIS

Map Created: March 2017

1:57,425



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Regional Stormwater Management Program Watershed Advisory Committee March 2017



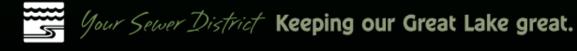


Agenda

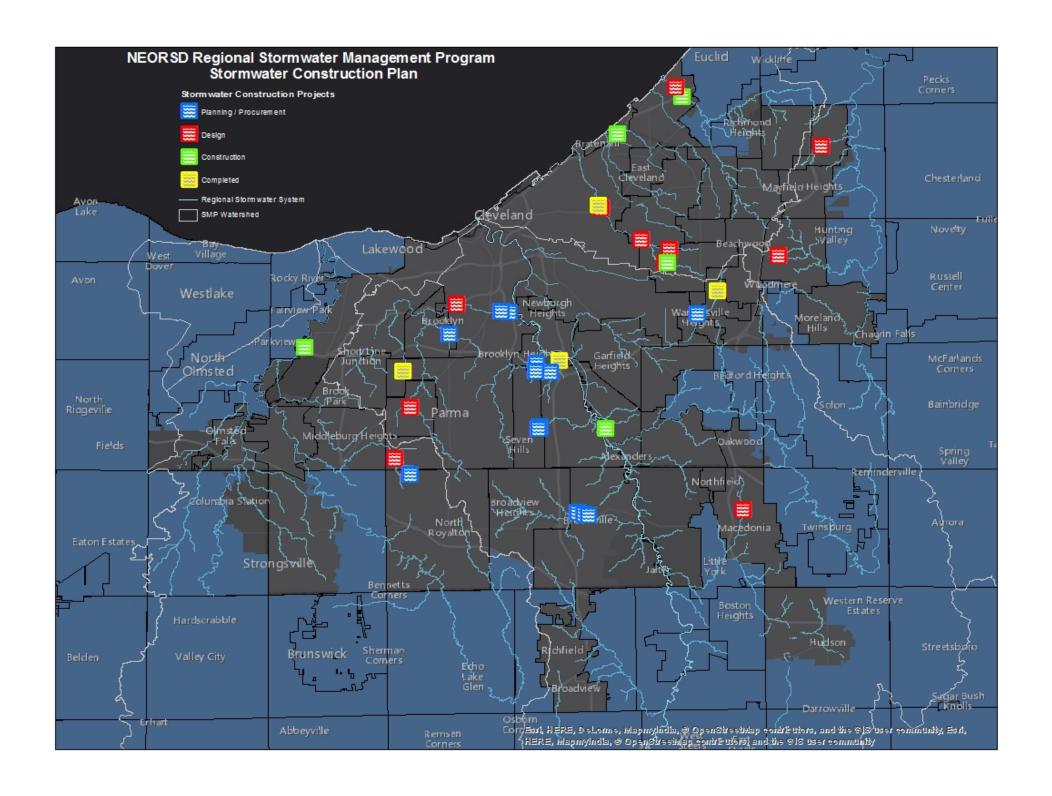
- Welcome
- Stormwater Construction Plan
- Stormwater Master Plans
- Stormwater Inspection and Maintenance
- Program Update
 - Community Cost-Share: Policy Update
 - Phase II Services
 - SW Management Plan Reviews common Comments/issues



Stormwater Construction Plan 2016-2017









STORMWATER CONSTRUCTION PLAN



Please note, this is current as of the indicated date. This schedule will undoubtably change. Please contact your Watershed Team Leader for the most current schedule for any particular project



Doan Brook Bank Stabilization

Construction commencing: Summer 2018

Est. Construction Cost: \$3.8 M

Project Elements

City of Cleveland MLK over Doan Bk Bridge Restoration

●850 LF Stream Restoration

Bank Stabilization

• Reconnecting to the Floodplain



Cleveland Museum of Art

Northeast Ohio



Shaw Brook Culvert Rehabilitation











Euclid Creek Concrete Channel Repair





Est. Completion Date: April 2017

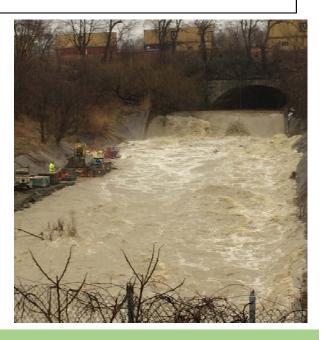
Construction Cost: \$362,000

Project Elements

Replacement/rehabilitation of sections of concrete lined channel sides and bottoms that have failed along the river-right immediately downstream of the Euclid Creek spillway











Green Lake Dredging





Completion Date: Summer 2017

Construction Cost: \$1.53 M

Project Elements

•25,000 CY sediment removal

•Installation of larger forebay







Shaker Lakes Dam Rehabilitation



DAM SAFETY INSPECTION REPORT

City Of Shaker Heights Dam File Number: 1314-006 Class II

Cuyahoga County, City Of Shaker Heights Inspection Date: September 30, 2014



In accordance with Ohic Revised Code Section 1521,062, the owners of dams must mention, maintain, and operate their dams safety. Negligence of owners in fulfilling these responsibilities can lead to the development of extremely hazardous canditions to downstream residents and properties. In the event of a carn failure, owners can be subject to liability claims.

The Chief of the Division of Soil and Water Resources has the responsibility to ensure that human life, health, and property are protected from the hidlans of dams. Conducting periodic safety inspections and working with dam owners to maintain and improve the overall condition of Ohio dams are vital aspects of activeing this purpose.

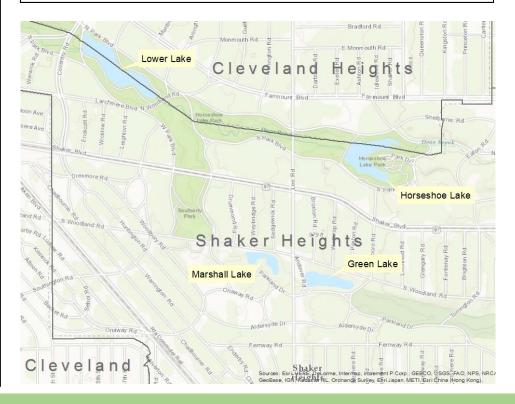
Representatives of the Chief conducted this inspection to evaluate the condition of the dam and its appurtenances under authority of Ohio Revised Code Section 1521,062. In accordance with Ohio Administrative Code Rule 1501:21-21-03, the owners of dams <u>must</u> implement all remedial measures listed in the enclosed report.

Oliciation of Soil and Water Resources: 2045 Minus Read, Bidg. D-2 • Columbus, Ohio 43229-6693 in July 2010, the Ohio Department of National Ensources, Original of Valent reas recepted with the Division of Sail and Water to Jacobse The California of Soil and March and California of Soil and March Phonocoma. **Completion Date: Summer 2018**

Construction Cost: \$3.4 M

Project Elements

Bring 2 dams into ODNR Compliance







Beechers Brook Bank Stabilization





Pepper Creek Bank Stabilization



Construction Commencing: Summer 2018

Est Construction Cost: \$800,000

Project Elements:

• Stabilization of eroded bank to protect infrastructure

• Floodplain and riparian enhancement





Euclid Creek Flood Control Channel Shoaling Removal



Est. Completion Date: Fall 2017

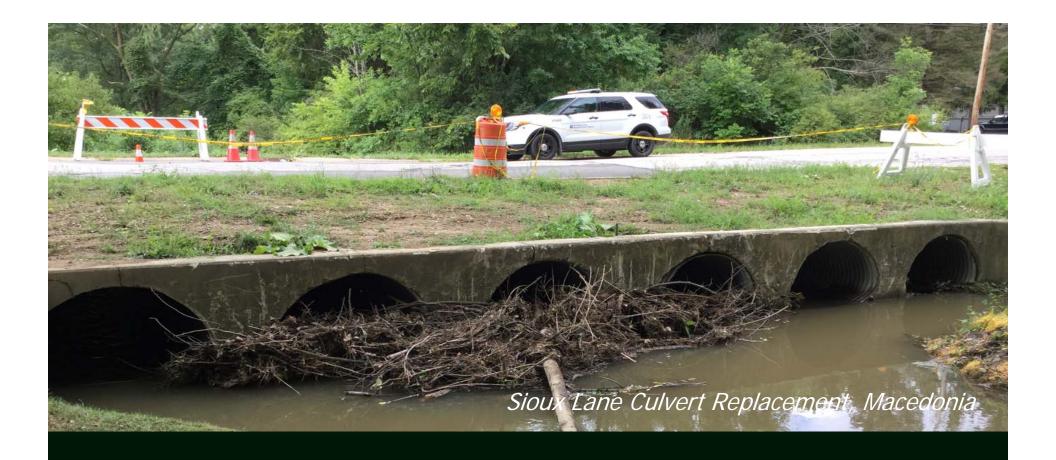
Construction Cost: \$500,000

Project Elements

- •Remove sediment, vegetation, debris etc. to a depth of 24 inches
- Project length approximately 2,600 LF







Stormwater Construction Plan Annual Review Process





Stormwater Construction Plan

Process

Project Nomination

Up to August

Validation

August

Business Risk Exposure Scoring

November

Stormwater
Construction Plan
Finalized in March

Stormwater Inputs

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



Stormwater Construction PlanCommunity Nomination





COMMUNITY PROPOSED STORMWATER PROJECT INFORMATION SUBMITTAL

The following information is necessary for the Northeast Ohio Regional Sewer District (NEORSD) to evaluate proposed projects during the stormwater construction planning process under the Regional Stormwater Management Program. Complete information will aid in determining benefit to the Regional Stormwater System and facilitate the evaluation process. NEORSD may request additional information to gain a better understanding of the project. NEORSD can provide limited technical assistance for this submittal, however preliminary engineering studies are the responsibility of the community.

The submittal of this information is solely for the purposes of facilitating the Sewer District's evaluation of projects along the Regional Stormwater System proposed by communities. The submittal of this information does not obligate the Sewer District to participate in or implement the proposed project.

Community Information	
Community	
Project Contact Name and	
Title	
Address	
Phone Number	
Email Address	

Project Information	
Project Name	
Project Location (Address and Attached Location Map)	
Parcel Numbers	
Ownership	
Stream/Watershed	
Proposed Start Date	
Proposed Completion Date	
Project Cost	

NORTHEAST OHIO REGIONAL SEWER DISTRICT COMMUNITY STORMWATER PROJECT INFORMATION FORM

Project Description (please attach or provide the following information)

1) Project Summary

Describe the project.

- · Problem being addressed;
- Objectives and outcomes. Include explanation of the extent of specific improvements along the Regional Stormwater System;
- · Vicinity maps, drawings, or figures of the site and the project;
- · Other relevant project details that will facilitate NEORSD's review.

2) Background Information

Include studies and planning documents which support the need, and the proposed solution, if applicable.

- Site soils;
- · Geotechnical studies;
- · Wetlands, water quality, and listed species
- Preliminary hydrology and hydraulics (existing and proposed hydraulics to determine benefit to the Regional Stormwater System)
- Permitting (if initiated)
- Risks or constraints
- · Known stakeholder outreach or input
- · Current photos of the project site

3) Budget Summary

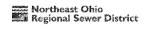
The Budget Summary should include details on materials and services including specific material cost and hourly rate. If there is a volunteer component, please identify the source of volunteers and the extent to which these volunteers are committed to the specific project. If outside funding is guaranteed, please include the amount to be paid from other sources. If outside funding is anticipated, please include information on sources, timelines, and likelihood, include an engineer's estimate if available.

2





Stormwater Construction Plan Community Nomination: Sioux Lane





COMMUNITY/ORGANIZATION PROPOSED STORMWATER PROJECT INFORMATION SUBMITTAL

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The suggested of this information is usely for the purposes of facilitating the Sewer Districts evaluation of projects along the Regional Stormwater System proposed by communities and/or regaritations. The radiustrat of this information does not obligate the Sover District to patients in a implement the proposed, project.

Organization/Community Infor- Organization/Community	City of Macedonia
Preject Centact Name and Title	Donald F. Sheehy, City Engineer
Address	22999 Forbes Road, Sakwood, Chio 41146
Phone Number	440-439-1939
Forail Address	observation in the disco-

Project Name	Siguz Name Culvert Replacement
Project Location (Address and Attached Location Map)	Sioux Lane, between Chenook Run and Chow Drive
Parcel Numbers	Sioux Lane public right-of-way
Gwnership Stream/Watershed	City of Macedonia Endian Cook
Proposed Start Date	09/15/18
Proposed Completion Date	10/15/16
Project Cost	\$215,000,00

Sioux Lane Culvert Replacement City of Macedonia Proposed Storm Water Project Submittal June 21, 2016

1) Project Summary

The Blook Law Culvert Registerment Poject consists of the compete remote of the outleting sitious microstrips and installation of a consist of the consisting the consisting sitious microstrips and installation of a consist of the consisting of the four force of the consisting of the consisting of the consisting of the consisting or that is four force in height and housely feet in width. This project will address both the structural failings, and the hydraulic inefficiencies of the civiling orossing. The costing in sinkholes on the readway surface. The except of these sinkholes has previously feeded the City of Maccochia to close issue, tane to traffic. Given the obstruction deficiencies of the crossing, the City will need to proceed with the cultivate reparament in the fall of 2015. The durings to the exciting poles has also evaluated in partial behalpsed of the culvert than resident pit hydraulic capacity of the crossing. Finally, the six-barrel gather at the updatesm opening, and further restort four. This cusace the need for continual monitoring and cleaning of the culvert by both local and NEORSD forces. See attached mapping.

2) Background Information

NEORSD performed a complete inspection of this cubert on May 20, 2016, the results of which are on file. In addition, we have performed preliminary byteriallic calculations for the cubert replacement. In summary, replacing the cristing six-barrel crossing with a 4" x 20" box culvert will lower the updream water surface elevation immediately upstream of Sicus. Late by two inches. This culvert replacement will have no effect out surface elevations downstream of Sicus. Lane, See the tables below. All water surface elevations given in feet above see large.

25 Year Storm Event							
	Approx. 300' Upstream	Immediately Upstream	Culvert	Immediately Downstream	Approx. 300 Downstream		
Existing Conditions	1003.14	1002.89		1000.90	1000.43		
Proposed Conditions	1003.04	1002.72		1000.90	1000.43		

100 Year Storm Event							
Marriaga.	Approx. 300' Upstream	Immediately Upstream	Culvert	Immediately Downstream	Approx. 300 Downstream		
Existing Conditions	1003.63	1003.41		1001.78	1001.44		
Proposed	1003.50	1003.24		1001.78	1001.44		



The preliminary project cost estimate is \$215,000.00. The NEORSD share for culvert and hydraulic improvements is estimated to be \$174,000.00. The City of Macedonia.

le'll	Jur Description	Unit	Quartity	t	ril Piloe	- 1	ctel Price		
				т		_		Locarati	model or
	REPLACE WITH 4'x20' FOUR-SIDED BOX CULVERT			П				VECREO	Loss
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2	4920 CONCRETE BOX CULVERT INSTALLATION	1.0	230	5	175000	8	106 406 40	5-105-00000	
3	COOT 5/2 TYPE 2 MEMBRAN E VALTER PROCEING	SY	100	5	50	8	4.0000	5 425000	
4	HEADWALL INSTALIATION	MACH	- 2	8	50000	8	10,000,00	\$ 10,000,000	
- 5	SUBGRADE UNDERGUT	CY	20	\$	45.00	8	2.4040404	6 100000	
E	HALF HEIGHT HEADYON	EACH.	2	2	9.33.		1000	5 1,000,00	
- 7	CATCH BASINS	EVCH	- :	3	2503.00	8	5000		\$ 5,XXX
- 6	12" S FORM SERVER	1.0	40	\$	1000		2000		\$ 2000
ě	MATER MAIN LOWERING	JMP		\$	15,000,00		15 (30 (3)		
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12	2" ASPEAUT SURFACE COURSE	CY	120	1	203.00	8	20,000,00		\$ 2200.20
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SIGHT LANE CHILDEDT DEDLACEMENT

Note:
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Expression 110 has reasonable conditions about the management of conditions as the conditions.











Scoring for Project Prioritization



Analysis Components

- Financial
- Social/Reputational
- Compliance
- Environmental
- Safety

2 years= 50 points

5 years= 20 points

10 years= 10 points

25 years= 5 points

50 years= 1 points

100 years= 0 points





Stormwater Construction Plan



Northeast Ohio Regional Sewer District

Show Project Summaries

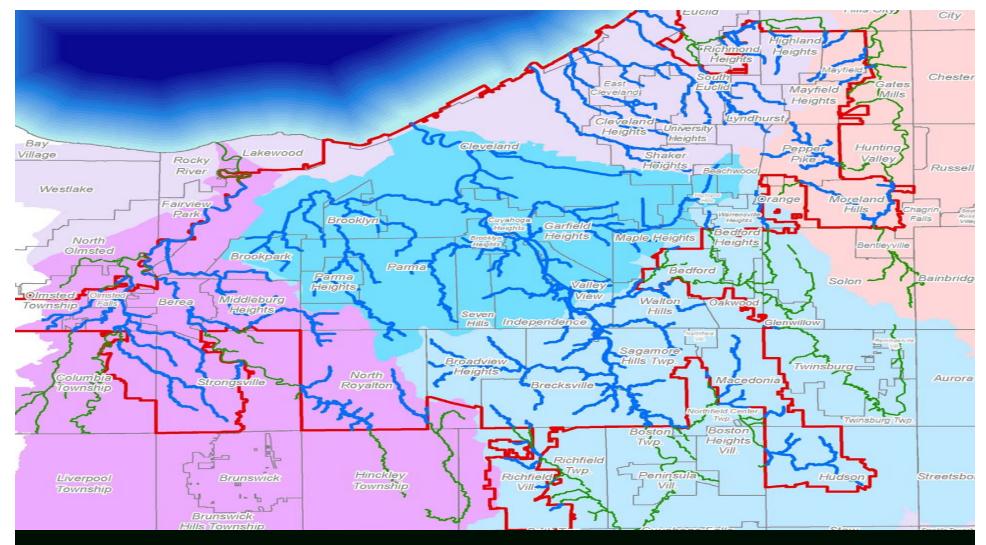
2017 - 2021 Stormwater Program Summary As of Jan 31, 2017

Project Name and Location	RFP(1)	Design(2)	Award of Construction	Construction Est.(\$M)
Stormwater				
Chagrin River				
Beechers Brook and Pepper Creek Bank Stabilization CW00021 & CW00146	06-Oct-16 A	16-Feb-17 A	N/A	\$2.8
Chagrin River/LET SWMP Study	3rd Quarter 2018	4th Quarter 2018	N/A	N/A
Lake Erie Direct				
Shaker Lakes Dam Rehabilitations DB00056 & DB00101	N/A	04-Feb-16 A	21-Sep-17	\$3.6
Doan Brook Stream and Bank Stabilization DB00029	N/A	N/A	2nd Quarter 2018	\$2.4
Nine Mile Headwall Replacement	2nd Quarter 2019	3rd Quarter 2019	4th Quarter 2020	\$0.3
Lakeview Dam Regulatory Compliance	N/A	N/A	3rd Quarter 2020	\$0.3
Euclid Creek Streambank Stabilization EE00350	3rd Quarter 2019	4th Quarter 2019	N/A	\$0.1
USACE Euclid Creek Spillway Fish Passage EC00008	4th Quarter 2020	1st Quarter 2021	N/A	\$0.5
Doan Brook Sowinski Park Floodplain Connection DB00013	4th Quarter 2019	1st Quarter 2020	N/A	\$0.6

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







Stormwater Master Plan



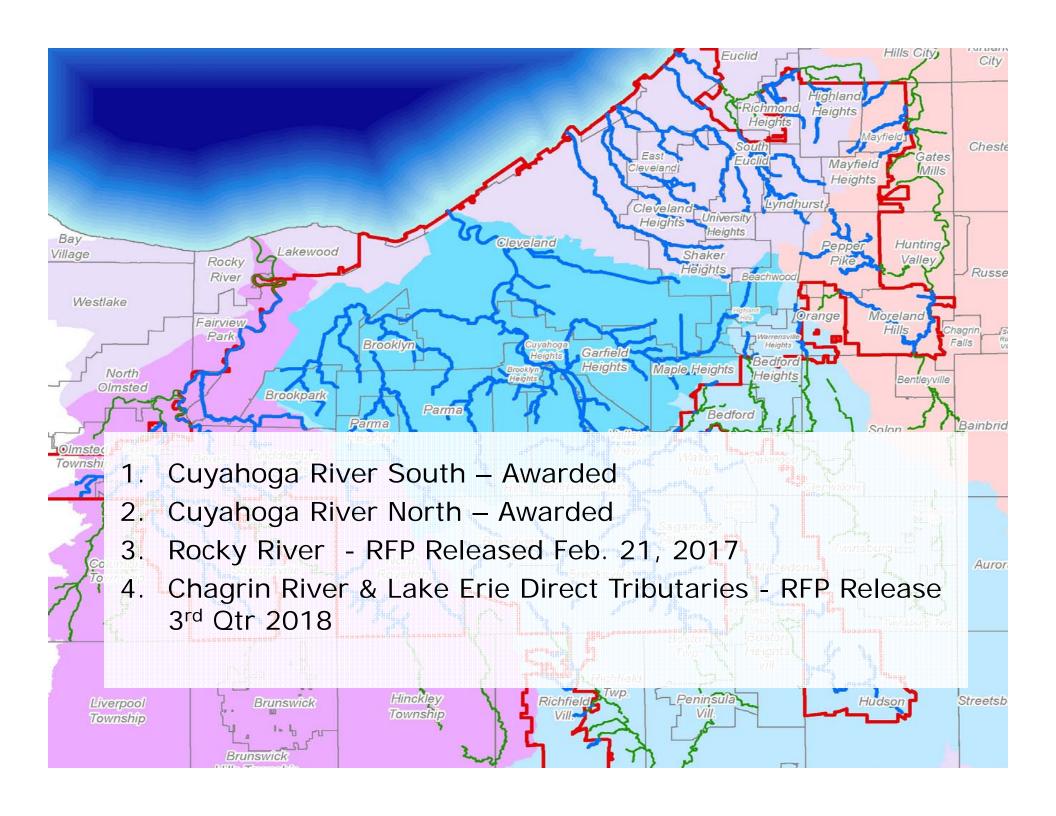


Stormwater Master PlansGoals and Objectives

- 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









Stormwater Inspection and Maintenance





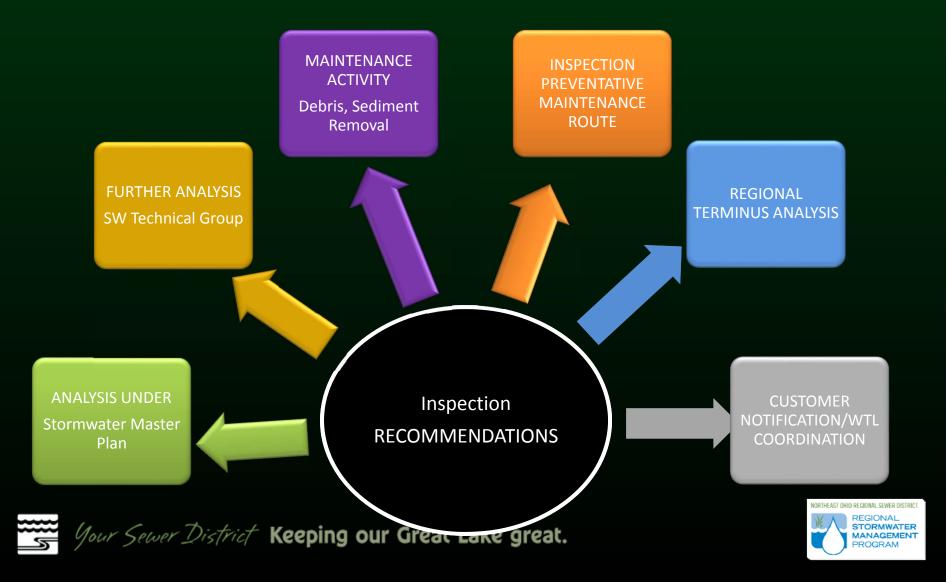
Stormwater Inspection & Maintenance All actions begin with an Inspection





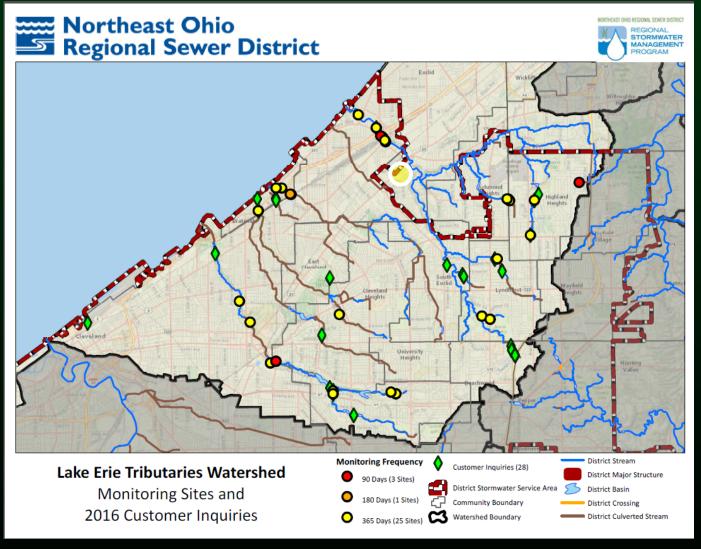
NORTHEAST OHIO REGIONAL SEWER DISTRICT
REGIONAL
STORMWATER
MANAGEMENT
PROGRAM

Stormwater Inspection & Maintenance Inspection Recommendations



Stormwater Inspections

Lake Erie Direct Tributaries: 2016 Summary



28 CustomerInquiries(132 in Service Area)

29 sites currently being monitored (190 in Service Area)





Stormwater Inspections

Lake Erie Direct Tributaries – Euclid Creek



Asset #: EW00027
Euclid
Local Road

Structural Integrity:

- o Extensive efflorescence
- o Exposed rebar
- Undercut and spalled at footing
- Fallen retaining wall

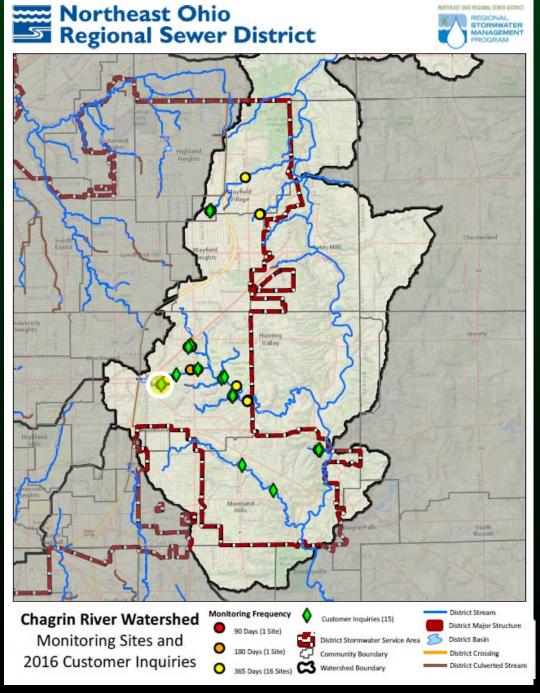
Recommendation:

- ✓ Owner annually inspects
- ✓ District/Owner coordination
- ✓ Load limit restrictions by Owner

Stormwater Inspections Chagrin River: 2016 Summary

15 CustomerInquiries(132 in Service Area)

18 sitescurrently beingmonitored(190 in Service Area)





Stormwater Inspections

Chagrin River: Pepper Luce Creek



BEHI Rating	NBS Rating	NEORSD Condition Rating	Criticality	BRE Score
High	Extreme	5	6	30

Asset ID: PC00257

Pepper Pike

Residential: Concord Road

Structural Integrity:

- o Eroding bank
- No bank protection at toe
- Minimal woody rootmass on dumped material
- Location at tight meander

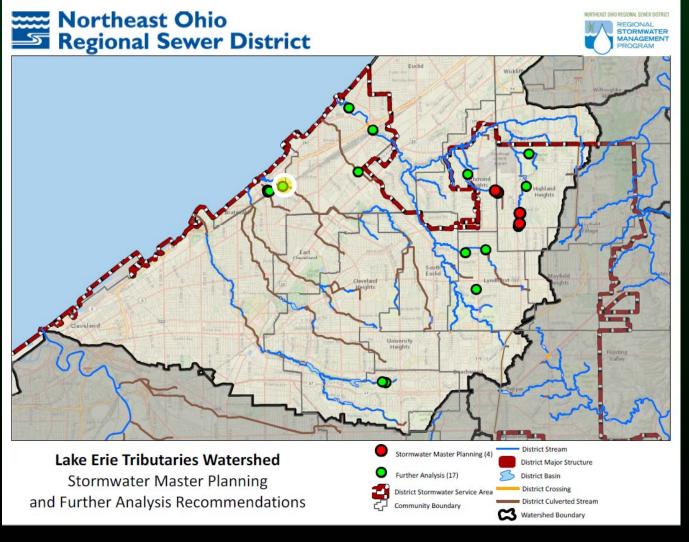
Recommendation:

✓ Monitoring



Stormwater Inspection: Further Analysis/SW Master Plan

Lake Erie Direct Tributaries: 2016 Summary



4 Assets recommended for SW Master Plan (37 in Service Area)

17 assets recommended for Further Analysis (**120** in Service Area)



Stormwater Inspection: Further Analysis/SW Master Plan

Lake Erie Direct Tributaries: Nine Mile Creek



Asset #: NM00056 Bratenahl (Railroad South of I-90)

Structural Integrity:

- o Eroding bank
- Little rootmass protection
- Some protection at toe

Recommendation:

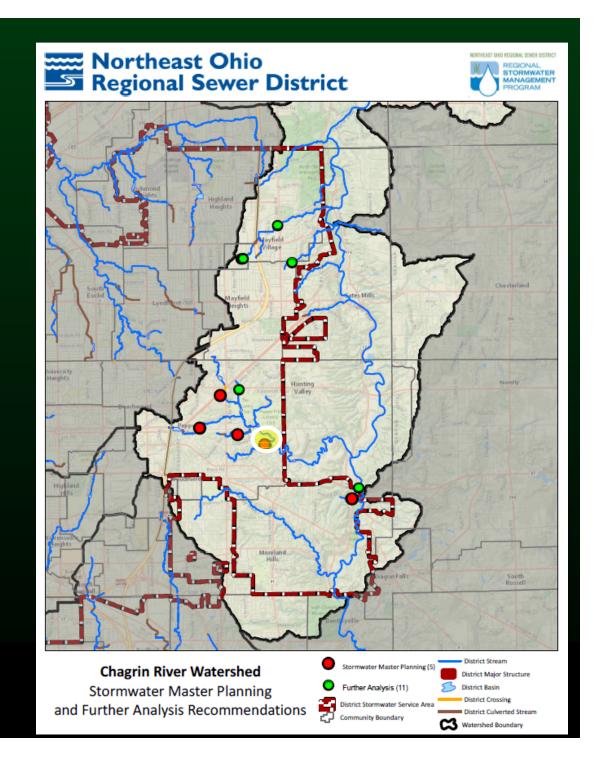
- √ Further Analysis
- ✓ Monitoring



Stormwater Inspection: Further Analysis/SW Master Plan Chagrin River: 2016 Summary

5 Assets recommended for SW Master Plan (**37** in Service Area)

11 assets recommended for Further Analysis(120 in Service Area)



Stormwater Inspection: Further Analysis/SW Master Plan

Chagrin River: Pepper Luce Creek

ODOT Condition Rating	NEORSD Condition Rating	Criticality	BRE Score
7 A	2	6	12



Asset ID: PC00087
Pepper Pike
Pepper Creek Drive
BTU: Local Road

Structural Integrity:

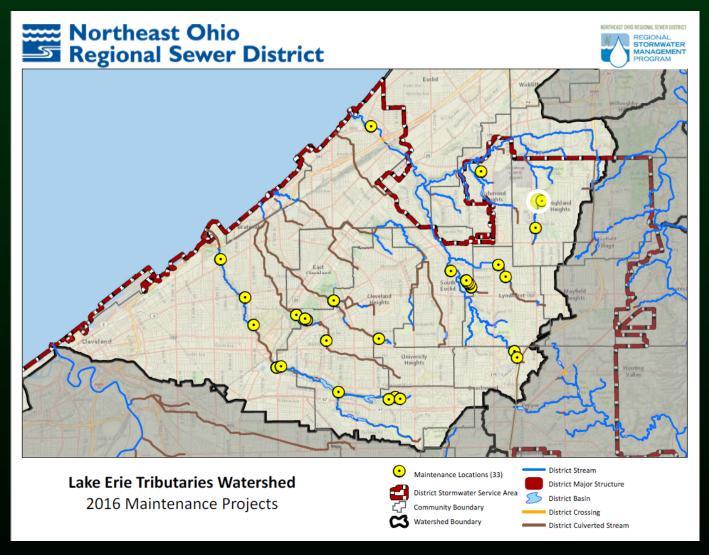
- o Bedload material
- Spalling with reinforcement
- Minor separation at joints
- Minor delamination, staining, crackings

Recommendation:

- **✓** SWMP
- ✓ Monitoring

Stormwater Maintenance

Lake Erie Direct Tributaries: 2016 Summary



33 Maintenance projects (112 in Service Area)

1,021 CY sediment and debris removed (3,646 CY in Service Area)





Stormwater Maintenance

Lake Erie Direct Tributaries: Euclid Creek East Branch

Asset ID: EE00120

Community: Highland Heights

Maintenance Project: Debris and Sediment Removal - 65 CY





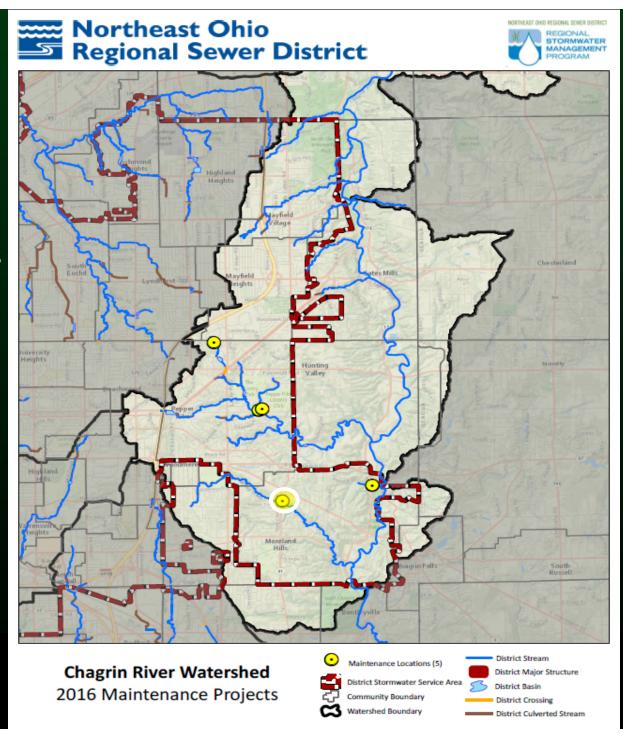




Stormwater Maintenance Chagrin River: 2016 Summary

5 Maintenance projects (**112** in Service Area)

74 CY sediment and debris removed (3,646 CY in Service Area)



Stormwater Maintenance

Chagrin River: Williey Creek

Asset ID: WI00244

Community: Moreland Hills

Maintenance Project: Debris and Sediment Removal - 15 CY

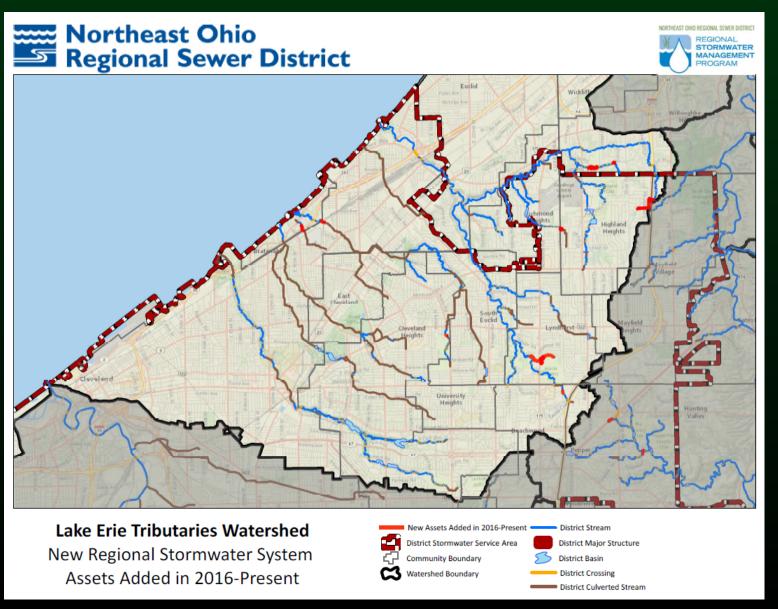








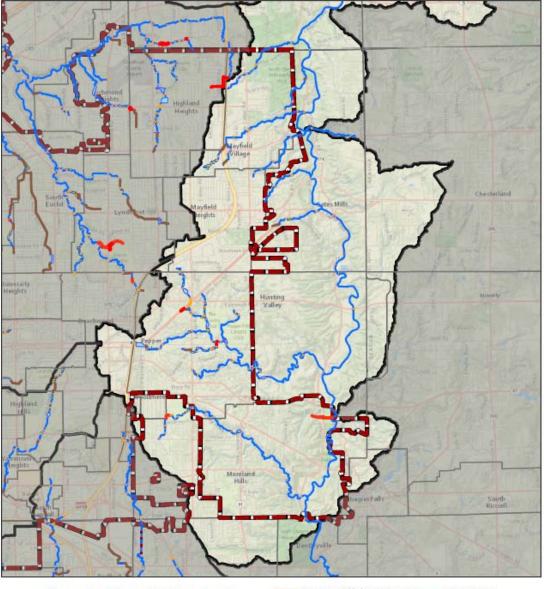
Regional Stormwater System New Assets (Mostly Terminus Extensions)



Regional Stormwater System New Assets (Mostly Terminus Extensions)







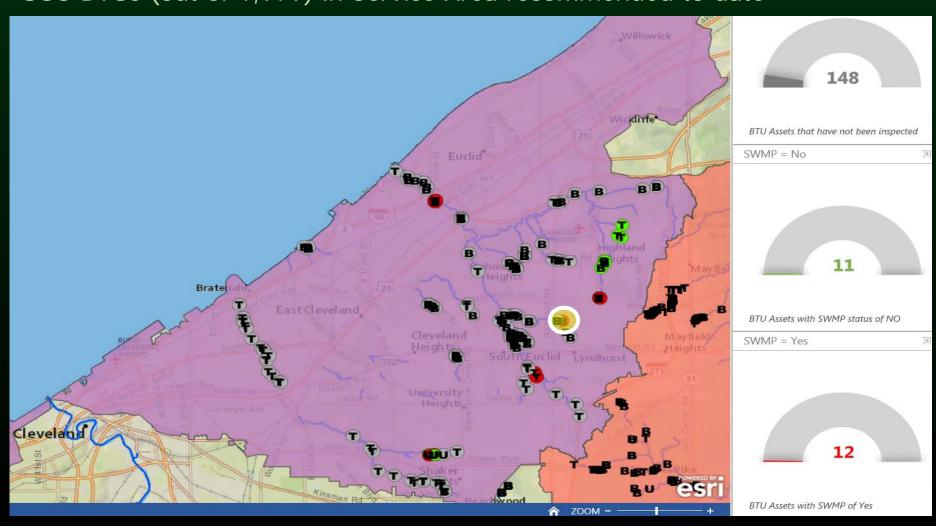
Chagrin River Watershed New Regional Stormwater System Assets Added in 2016-Present





Potentially Threatened Infrastructure: Buildings, Transportation and Utilities (BTU)

Initial BTU assessment will be completed prior to the SW Master Plan (2018) **360** BTUs (out of 1,979) in Service Area recommended to date



Threatened Infrastructure: BTUs Lake Erie Direct Tributary – Euclid Creek

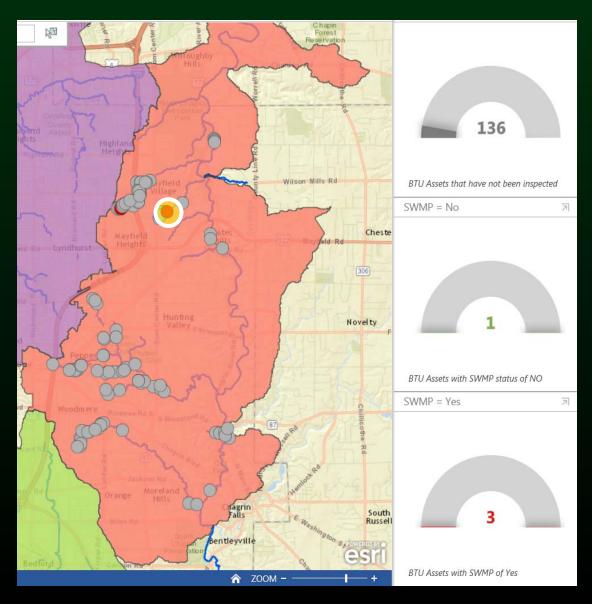


Community: Lyndhurst

BTU: Residential Building (North of Ridgebury Blvd)



Potentially Threatened Infrastructure: Buildings, Transportation and Utilities (BTU)



Initial BTU assessment will be completed prior to the SW Master Plan (2018)

360 BTUs (out of 1,979) in Service Area recommended to date



Threatened Infrastructure: BTUs

Chagrin River – Beechers Brook

Community: Mayfield

BTU: Residential Building (South of Woodlane Drive)









Stormwater Inspection & Maintenance 2017 Agenda

- Continuing to collect RSS data:
 - Record drawings
 - Responsible party infrastructure: culverted streams, bridges, culverts, basins, major structures
 - Gather historical inspections reports
- Data request to be made via Member Community Work Plans and individual agency requests



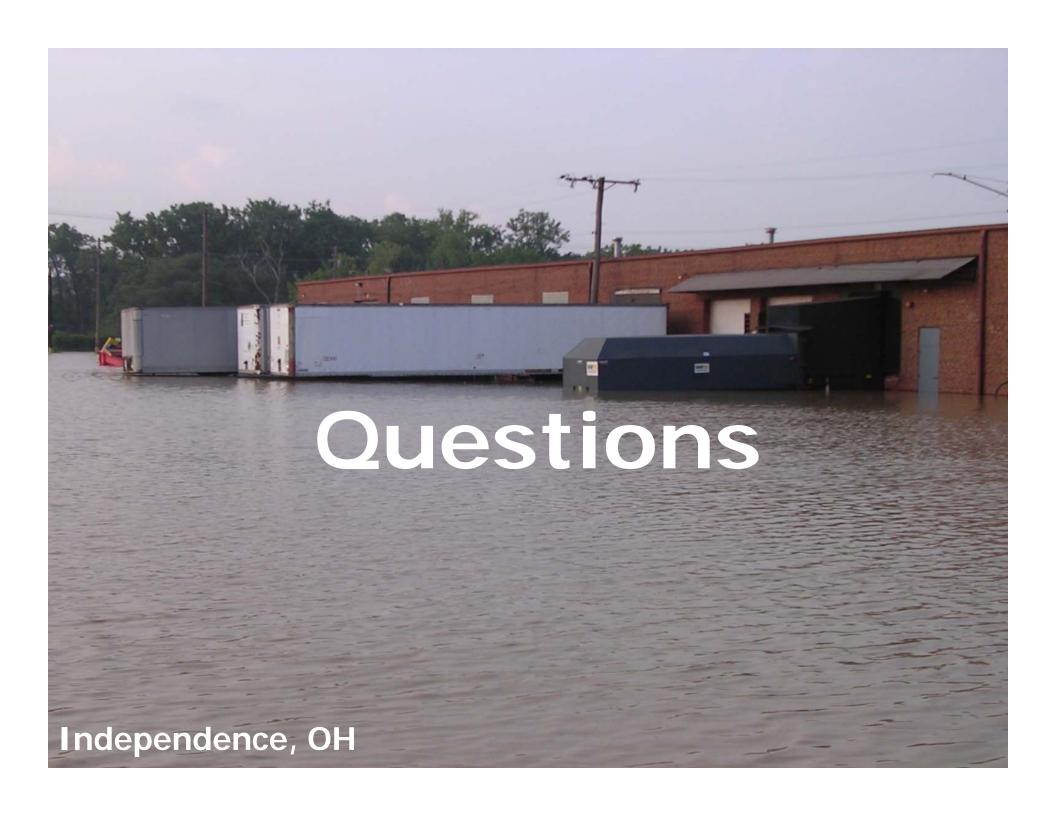


Stormwater Inspection & Maintenance 2017 Agenda

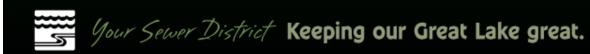
- Planning to pilot new maintenance project types:
 - Basin Dredging
 - Structural Repair
 - Streambank Stabilization (small scale/low cost/low risk)
- Looking for potential locations
- Contact SWIM representative (Mark Link, George Remias) with ideas













- \$9,946,579.37 available across communities
- 32 approved projects, totaling \$3,041,990.58
- 6 completed projects, totaling \$199,529.74
- Vendor Registration
 http://www.neorsd.org/isupplier_homepage.php
- Policy Update





Policy Update Example - Shaker Heights

- Allocation Agreement: Underground Stormwater Detention
- Construction Costs \$750,000
 - City to apply for reimbursement annually over seven (7) years







Policy Update Example - Parma

- Allocation Agreement: Equipment Purchase
 - Jet/Vacuum Machine: \$550,000
 - Mechanical Broom Sweeper: \$325,000
 - Maintenance: $$40,000 \times 5 \text{ years} = $200,000$
- Total = \$1,075,000
- Application Approved January
- Apply for \$215,000/year reimbursement as funds accrue





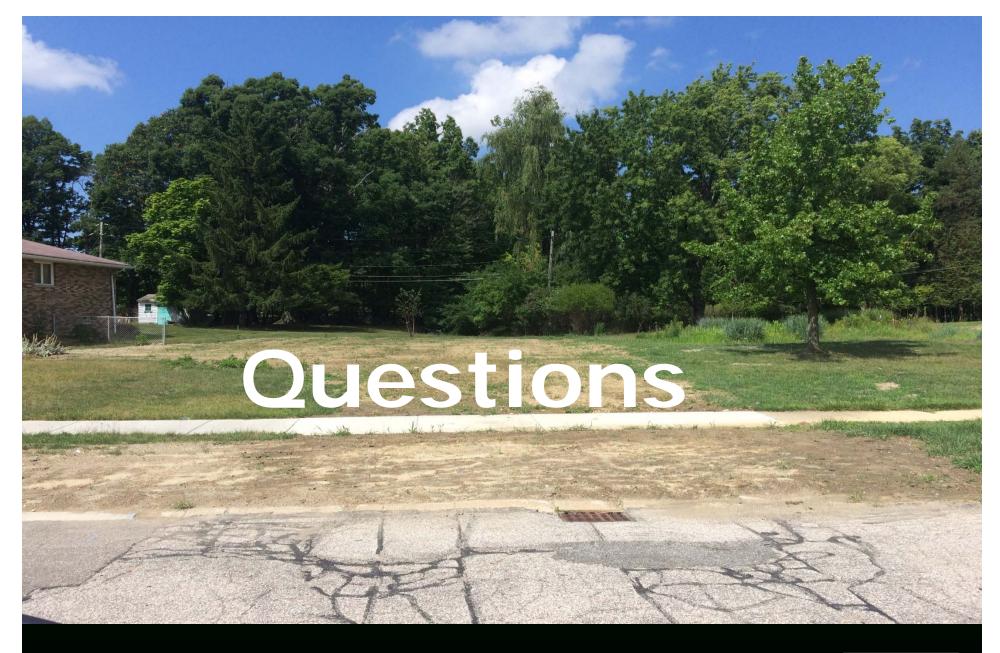
Community Cost-Share Policy Update

Allocate CCS funds to a project before funds have accumulated in the Member Community's CCS account

- Submit CCS application for the project to WTL
- 2. District reviews application for compliance with CCS Policy
- 3. Execute CCS project agreement with District for allocation of CCS funds
- 4. Implement project
- 5. Submit reimbursement request to District for CCS funds
- Repeat step 5 until the Member Community has requested and received the total amount needed for project





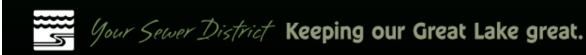






Title V Requires Phase II Support Services for Certain MCM's

- 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 Services with Established Providers

- Cuyahoga County Board of Health
 - 48 communities offered services
 - 1 community has declined
- Cuyahoga Soil & Water Conservation District
 - 48 communities offered services
 - 1 community has declined





Title V – SW Mgmt Plan Review

Recurring Issues/Comments

- Lack of detail on SCM outlet structure to guard against "leaks"
 - Ensure wall penetrations, and weir wall inserts/seams are watertight
- SCM inspection & maintenance plans
 - Lack of detail to define dredging needs to maintain function of the SCM
- Considerations to maximize future stormwater fee credits





Title V – SW Mgmt Plan Review Recurring Issues/Comments

- Incorrect WQv calcs for redevelopment
 - Calculate minimum required WQv for the site as a whole
 - SCMs must be designed for the WQv of its watershed - must meet or exceed the minimum required WQv
- Inaccurate drainage area delineations and curve number interpretations
 - Need to account for offsite run-on







What's Next...

- WAC Meetings
 - Lake Erie/Chagrin River: March 13
 - Cuyahoga River North: March 15
 - Cuyahoga River South: March 20
 - Rocky River Watershed: March 22
- Next Round in October 2017



Questions

Jeff Jowett

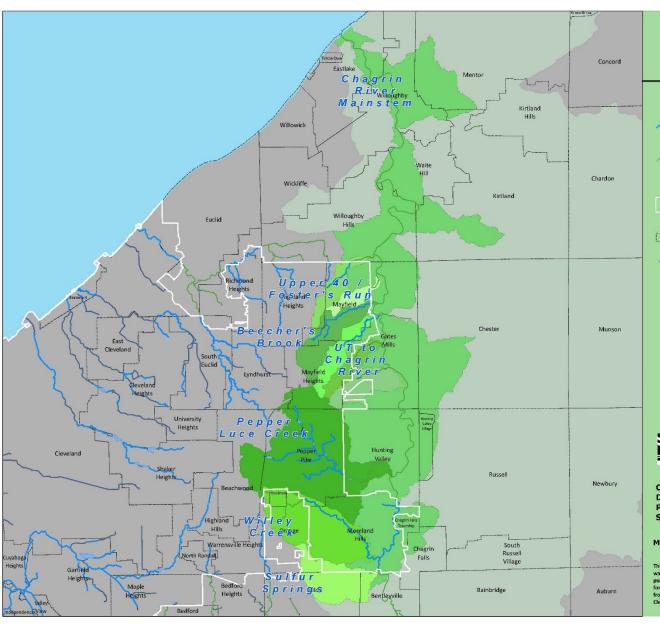
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Stormwater Program: Community Resources

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



Chagrin River Watershed

Regional Stormwater System in NEORSD Service Area

 Regional Stormwater System not in NEORSD Service Area

Service Area

Community

District Culverted Stream

Northeast Ohio Regional Sewer District

Coordinate System : Ohio State Plane North Datum: NAD 1983 , NAVD 1988 Projection: Lambert Conformal Conic

Sources: NEORSD GIS

Map Created: March 2017

1:54,785

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