



**Northeast Ohio
Regional Sewer District**

Thanks for joining!

WE WILL START MOMENTARILY.



**Northeast Ohio
Regional Sewer District**

Watershed Advisory Committee

CUYAHOGA RIVER NORTH- MARCH 22, 2023



**Northeast Ohio
Regional Sewer District**

Agenda

- Welcome, Introduction & Updates
- Stormwater Inspection and Maintenance Update
- Watershed Technical Support Update
- Design & Construction Update
- Sages and Plan Review
- Code Updates
- Infrastructure Funding



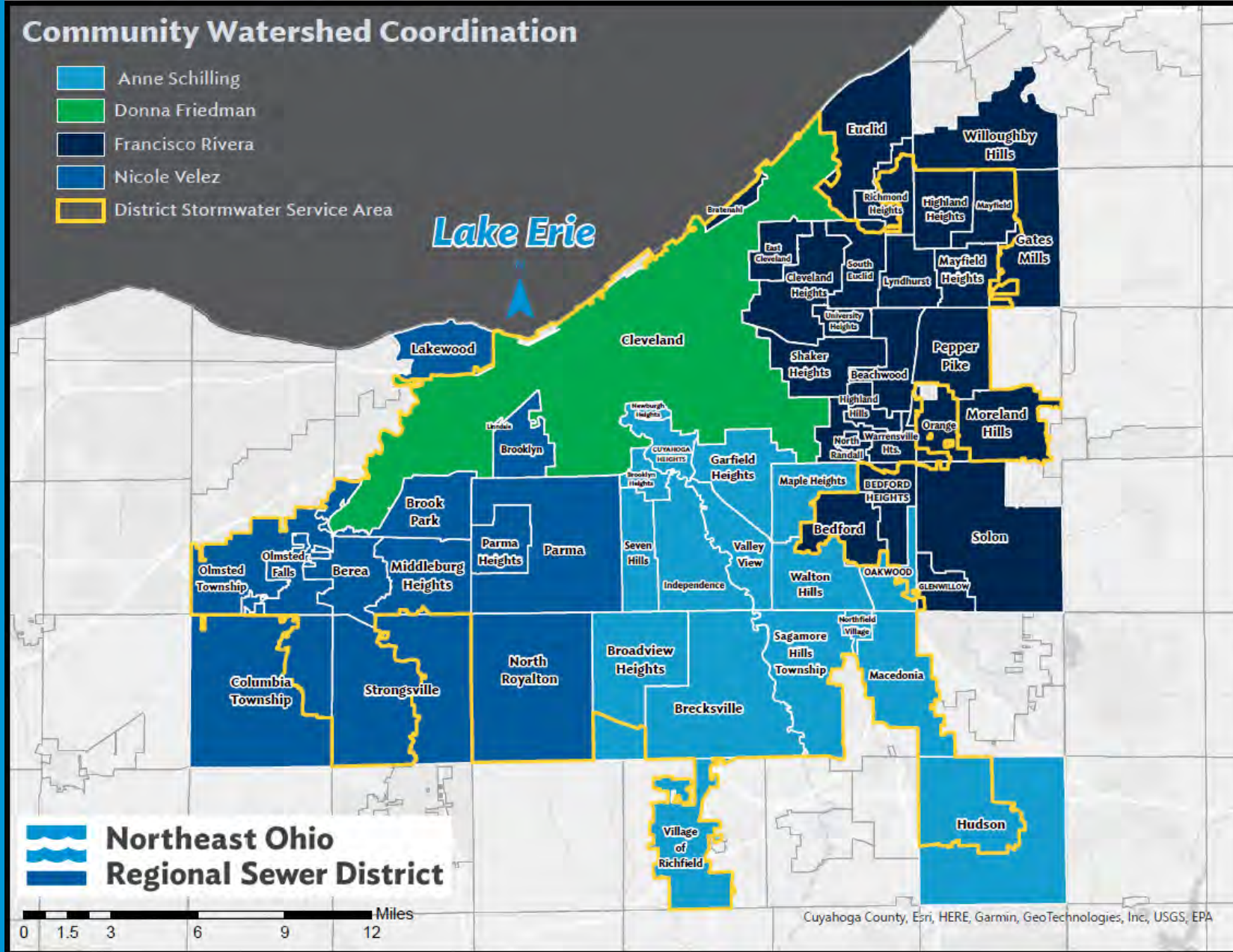
Program Highlights

Frank Greenland, Director of Watershed Programs

Matt Scharver, Deputy Director of Watershed Programs

Community Watershed Coordination

- Anne Schilling
- Donna Friedman
- Francisco Rivera
- Nicole Velez
- District Stormwater Service Area



Community Cost-Share

• CCS Funds Balance (2/28/2023)	\$37,810,420.18
• 96 projects w/ executed agreement	\$8,898,841.29
• 48 projects w/ agreements in progress	\$7,309,864.35
• CCS Funds available to Member Communities	\$21,601,714.54
• 29 approved allocation agreements	\$8,142,696.46

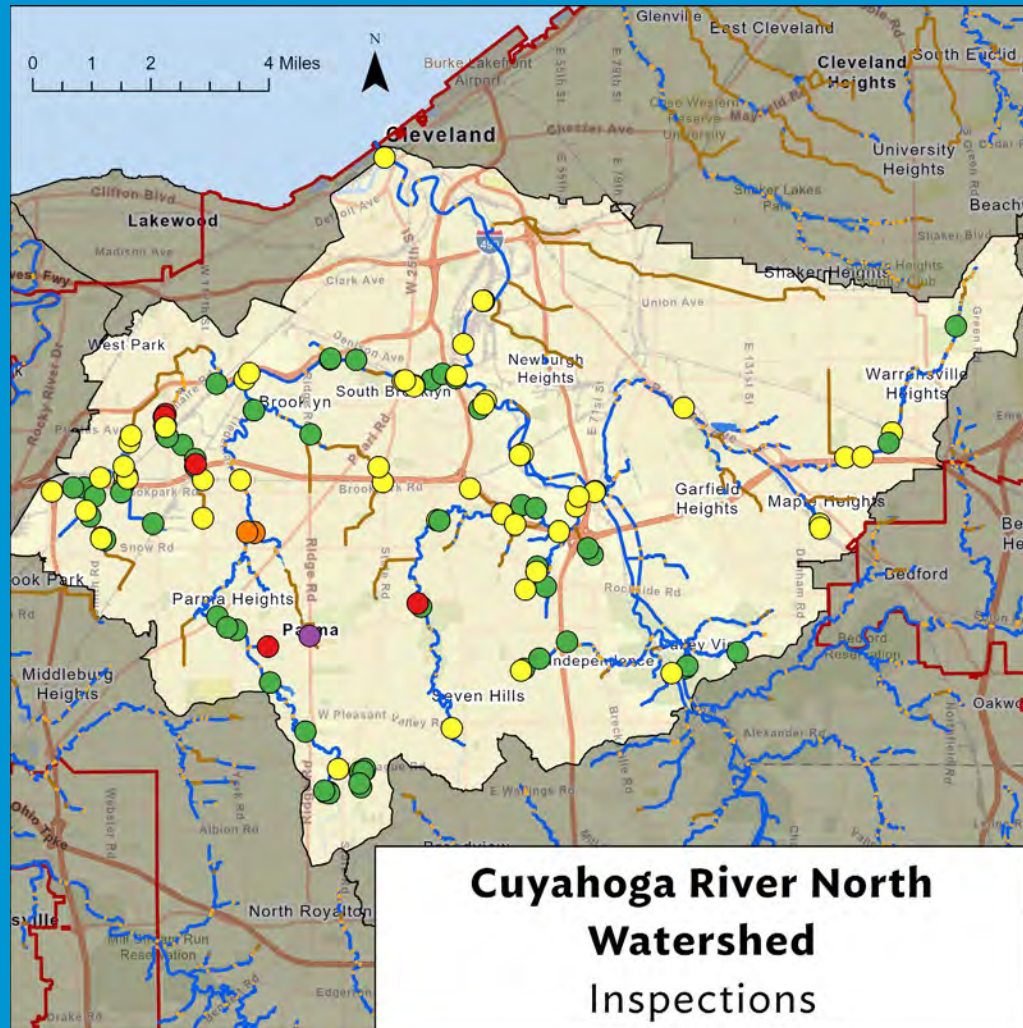
Community Cost-Share: 2016-2023 Reimbursement

Year	CCS Funds Reimbursed
2016	\$ 35,166.00
2017	\$ 2,626,418.00
2018	\$ 4,218,308.00
2019	\$ 9,178,445.00
2020	\$ 6,720,943.00
2021	\$ 9,581,404.00
2022	\$ 6,806,797.89
2023 (2/28/2023)	\$ 575,596.22
Total Reimbursed	\$ 39,743,078.11

Inspection & Maintenance Update

CUYAHOGA RIVER NORTH SUBWATERSHED

SWIM Inspections



10/22 - 2/23 Completed Inspections

Inspection Type	Inspection Count
Case	5
CCTV	1
Inspection - Debris	67
Inspection - Preventive	63
Other Responsible Party	2
Urgent Storm	2
Total	140

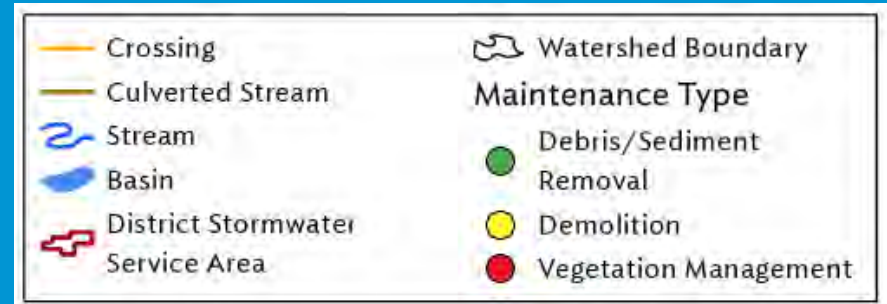
SWIM Maintenance



10/22 - 2/23 Maintenance Projects

Project Type	Project Count
Debris/Sediment Removal	17
Demolition	1
Vegetation Mangement	9
Total	27

Debris Removed	Sediment Removed
107 CY	2631 CY



CRN & CRS Spherical Imagery Update

- Current CRN/CRS spherical imagery is from 2017/18
- 360° imagery of Regional Stormwater System
- 196 miles open stream to be captured
- RFP May 2023
- NTP October 2023



CRN Watershed Spherical Imagery Points



360° Camera



360° Imagery

SWIM Culverted Stream Spot Repairs

- Isolated defects within culverted streams causing unacceptable level of risk/frequent inspections.
- Quotable repair project.
- Goal: Extend useful life of asset and reduce inspection frequency.

BD00265- Parma



- 54" RCP
- Seal single offset joint

BC00046- Cleveland

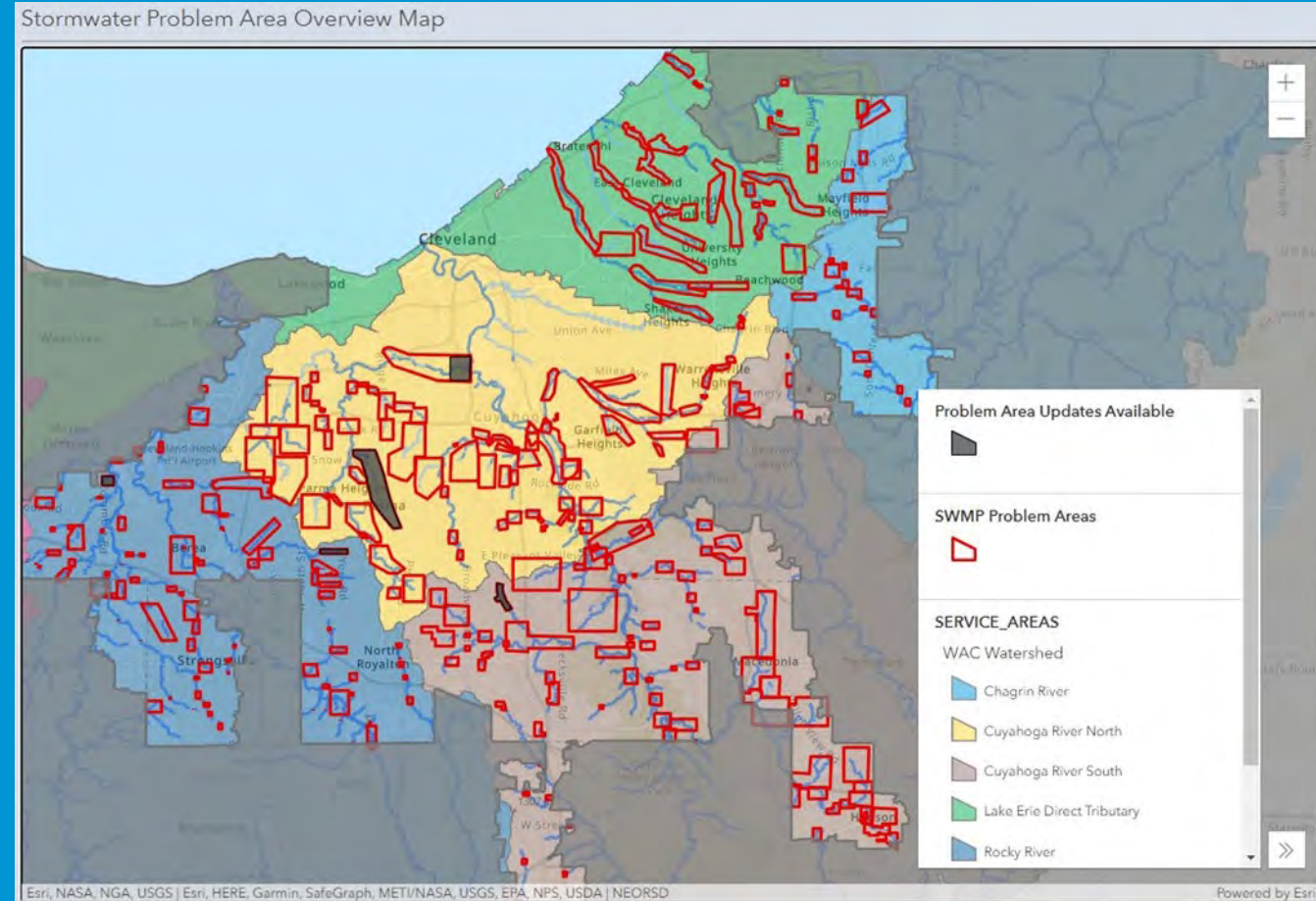


- 92" RCP
- Seal two offset joints

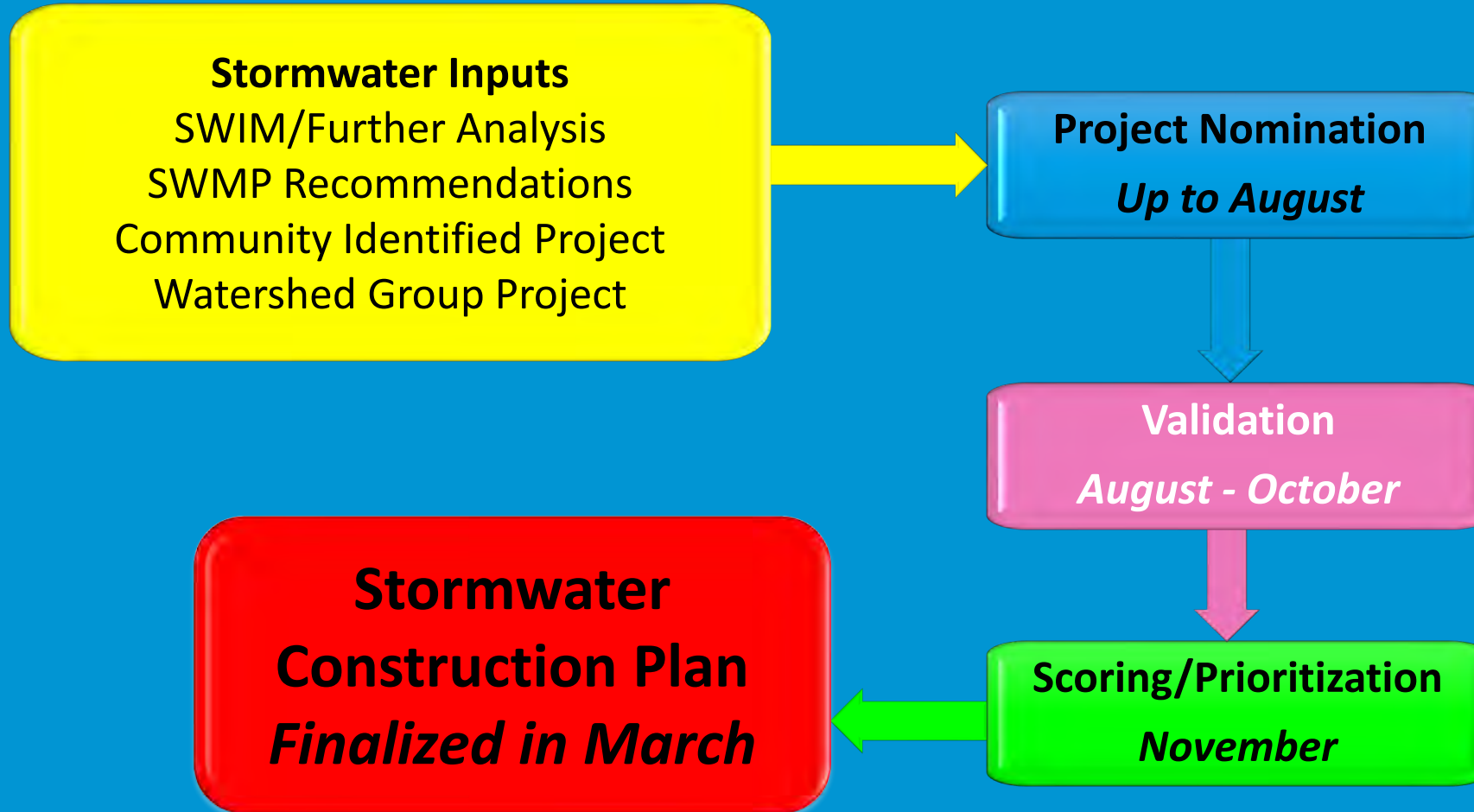
Watershed Technical Support

Cuyahoga River North Stormwater Master Plan Study

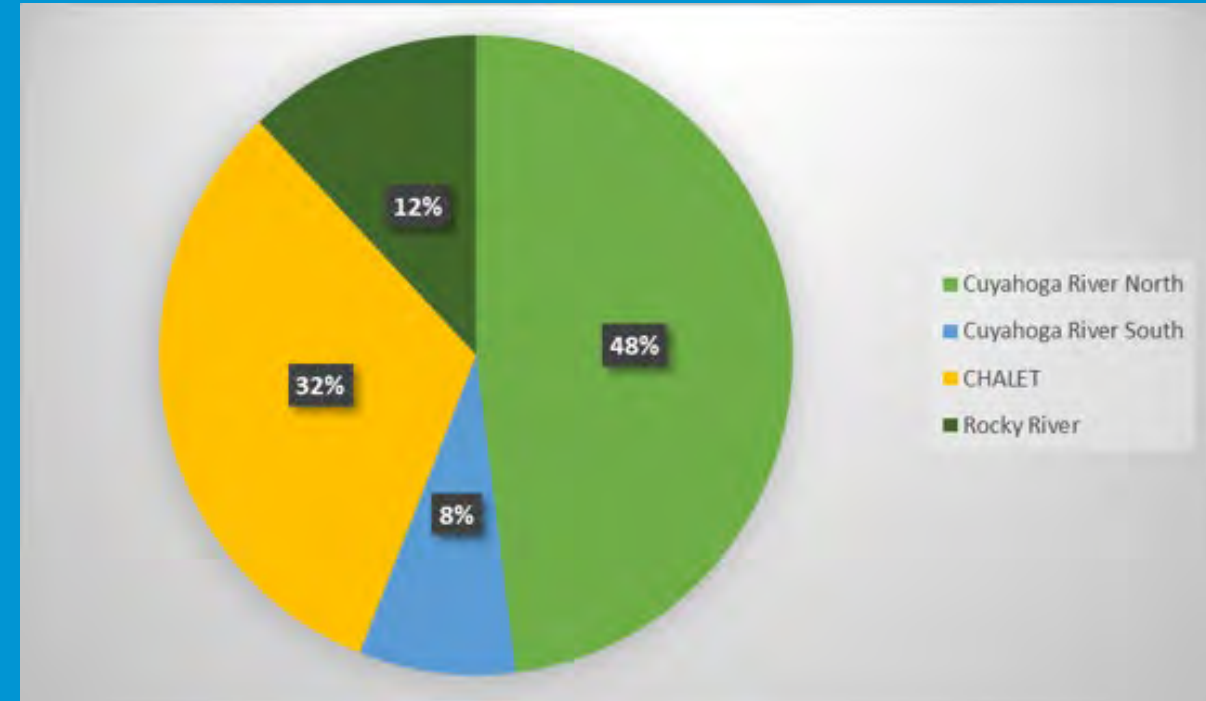
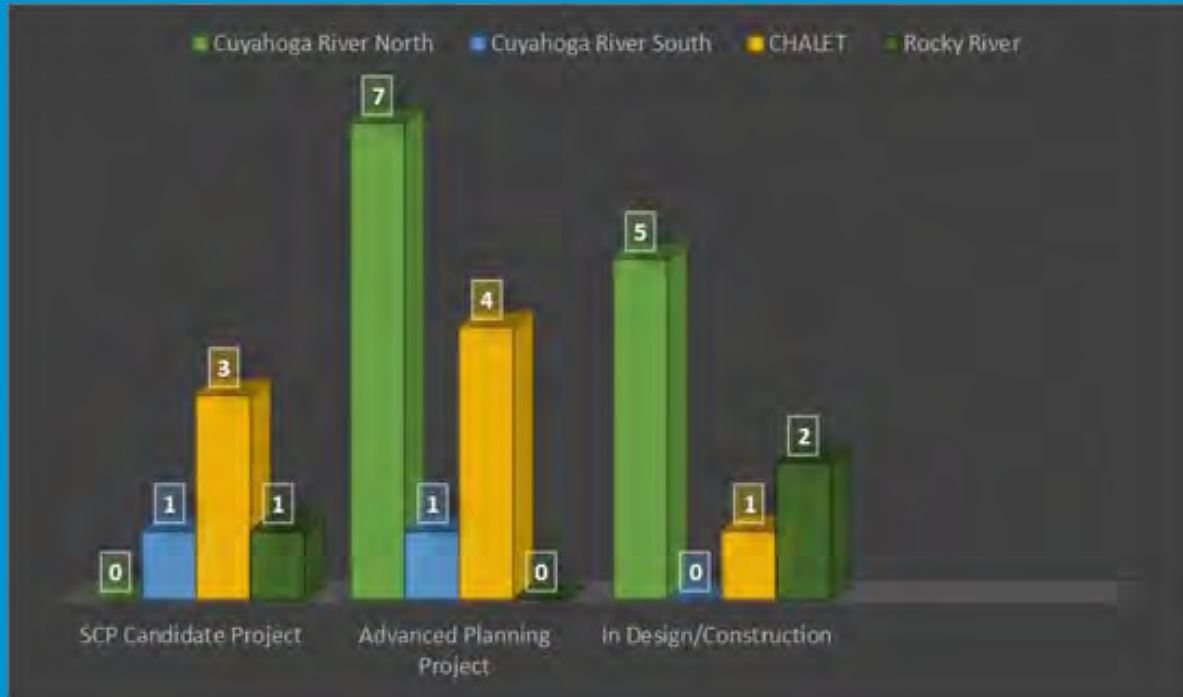
- Identified problem areas have been nominated, scored and are being prioritized as part of the annual stormwater construction plan review
- District personnel available to answer any SWMP questions that you might have



Stormwater Project Nomination Process



2022 Top 25 Stormwater Project Nominations



2022 Top Nominated Projects Watershed Distribution

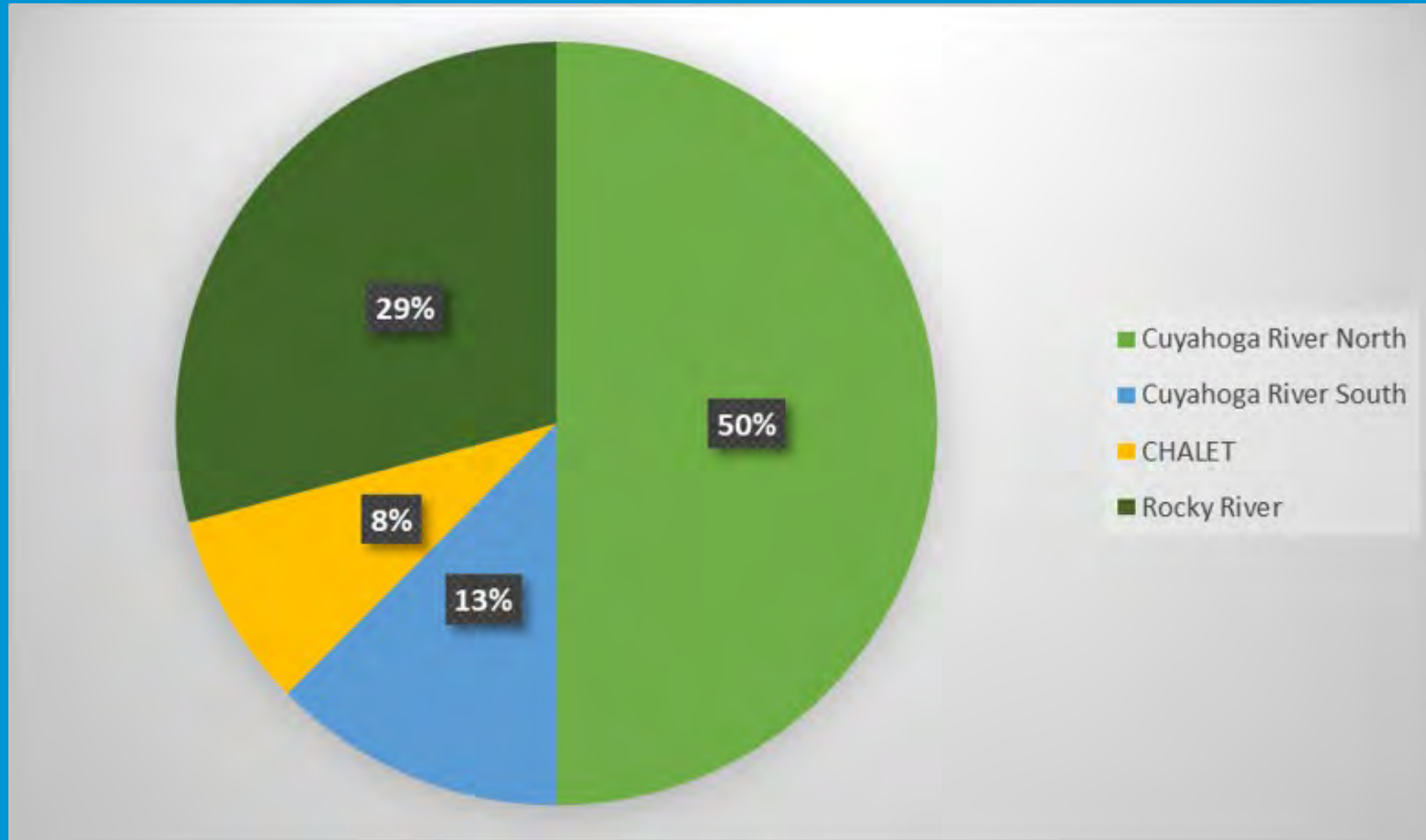
2022 Design Projects Carried Over in the 2023 Stormwater Construction Plan

Nomination I.D.	Project #	Watershed	Community	Problem Area
N/A	1524	CRN	Brooklyn Hts.	WCBH09
2020-SW540	1575	CRS	Broadview Hts., North Royalton	CCPA09
2019-SW46	1584	RBR	Middleburg Heights	ACPA01
2019-SW73	1597	CRN	Parma	BCPA03
2020-SW346	1606	RBR	Brook Park, Middleburg Hts.	AC00126
2022-SW645	1629	LEDT	Cleveland Hts., Shaker Hts.	DBSH04
N/A	1630	CRN	Seven Hills	HCSV01
N/A	1634	CRN	Garfield Hts.	N/A
2019-SW96	1635	CRS	Brecksville	CSPA04
2021-SW625	1639	CRN	Parma Hts.	BCPH12
2019-SW99	1641	CRS	Brecksville	MSPA02
2019-SW90	1645	CRN	Parma	WCPA04
2022-SW648	1649	LEDT	East Cleveland	DEEC03
2020-SW516	1651	CRN	Warrensville Hts.	MCWH05
N/A	1657	CRN	Cleveland, Warrensville Hs.	MCWH07
2019-SW88	1658	RBR	Parma	BDPA06
N/A	1659	CRN	Cleveland, Garfield Hts.	N/A
2019-SW89	1661	RBR	Parma	BDPA07
2019-SW70	1663	CRN	North Royalton	BCNR02
2019-SW70	TBD	CRN	Sprague Road Bank Stabilization	BCNR02

2022 Project Nominations to Stormwater Construction Plan

Nomination I.D.	Watershed	Problem Area	Reason for Selection
2020-SW368	Cuyahoga River North	WBBP03 – Phase A: Kolleda Ditch	Failing infrastructure
2020-SW545	Rocky River	WBPA05	Secured critical mass of required property & distribution of projects across service area
2020-SW501	Rocky River Baldwin Creek	BDPA09 – Phase A: Applewood Basin Improvements	Failing infrastructure
2020-SW448	Rocky River Abram Creek	ACPA06 – Smith Rd Basin	Secured critical property & receipt of Federal Funding

Watershed Distribution of Current & Proposed Design Projects in the 2023 Stormwater Construction Plan



Advanced Stormwater Planning in 2023

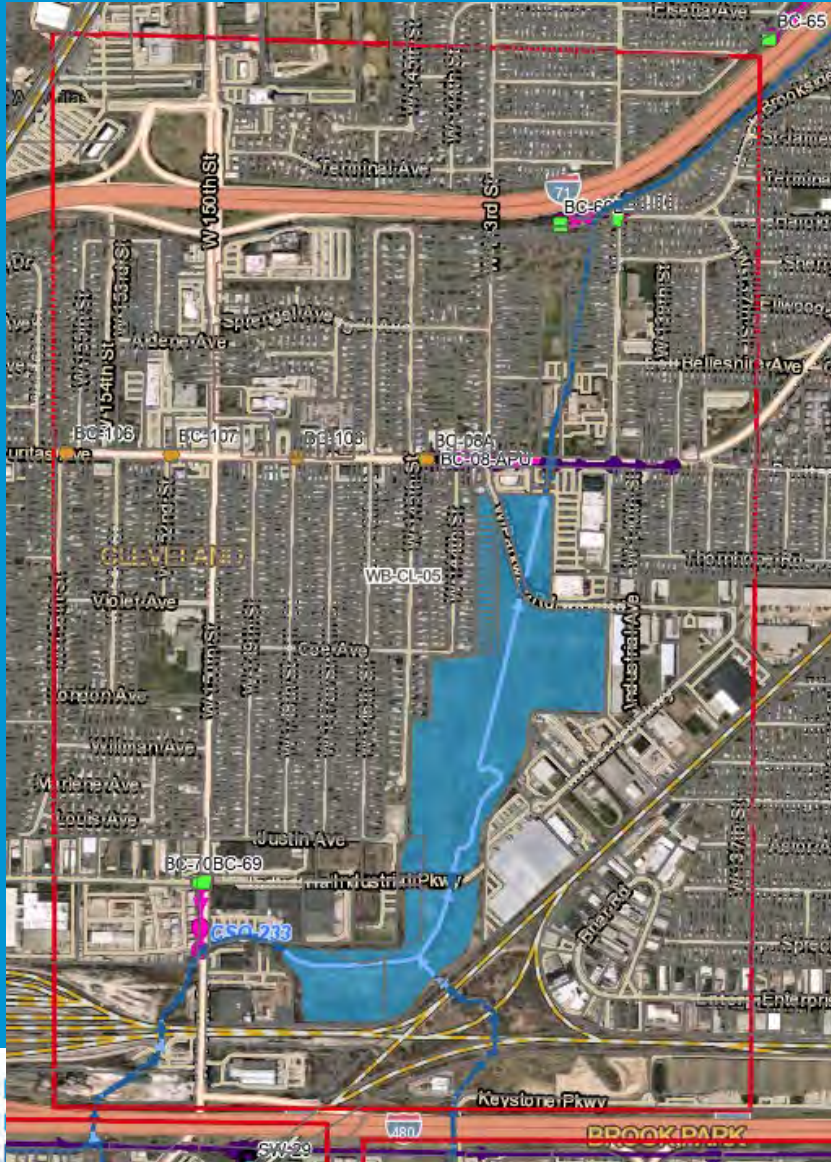
Goal to ready projects for full design

- Projects that require additional information to understand full RSS impacts
- Are cost prohibitive w/o phasing
- Breakdown of complex, preferred alternatives into manageable projects
- Acquisition/Easement procurement
- Coordination considerations with outside stakeholders

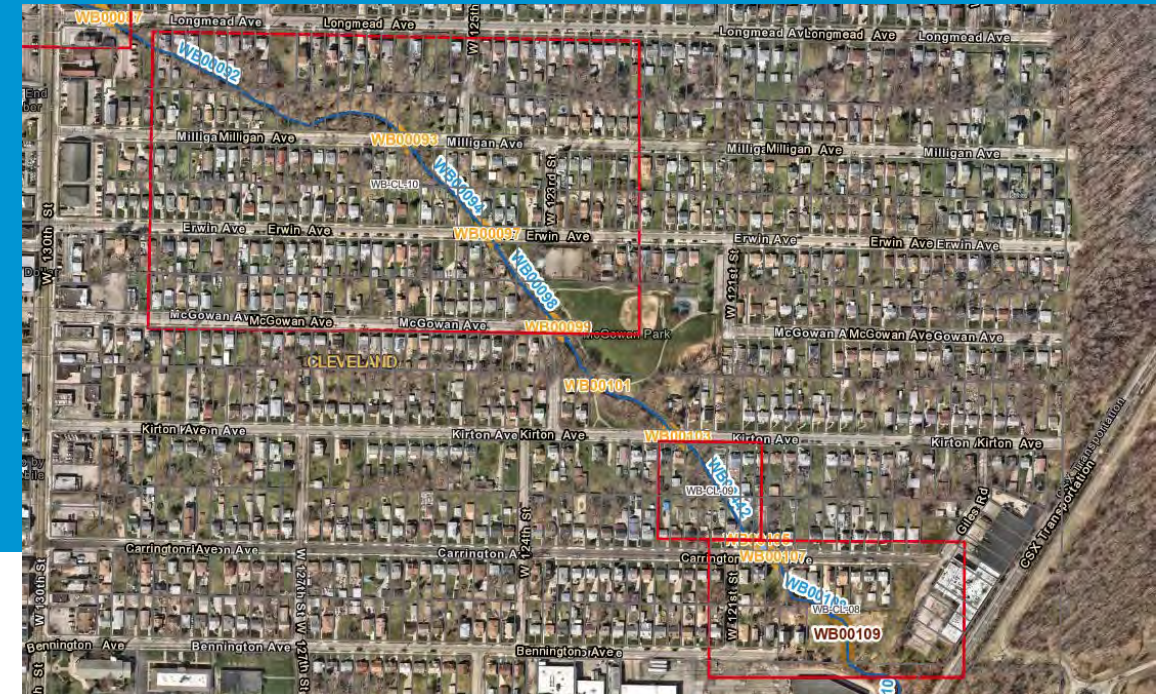


Ridge Road, Parma- Big Creek

Advanced Stormwater Planning in 2023



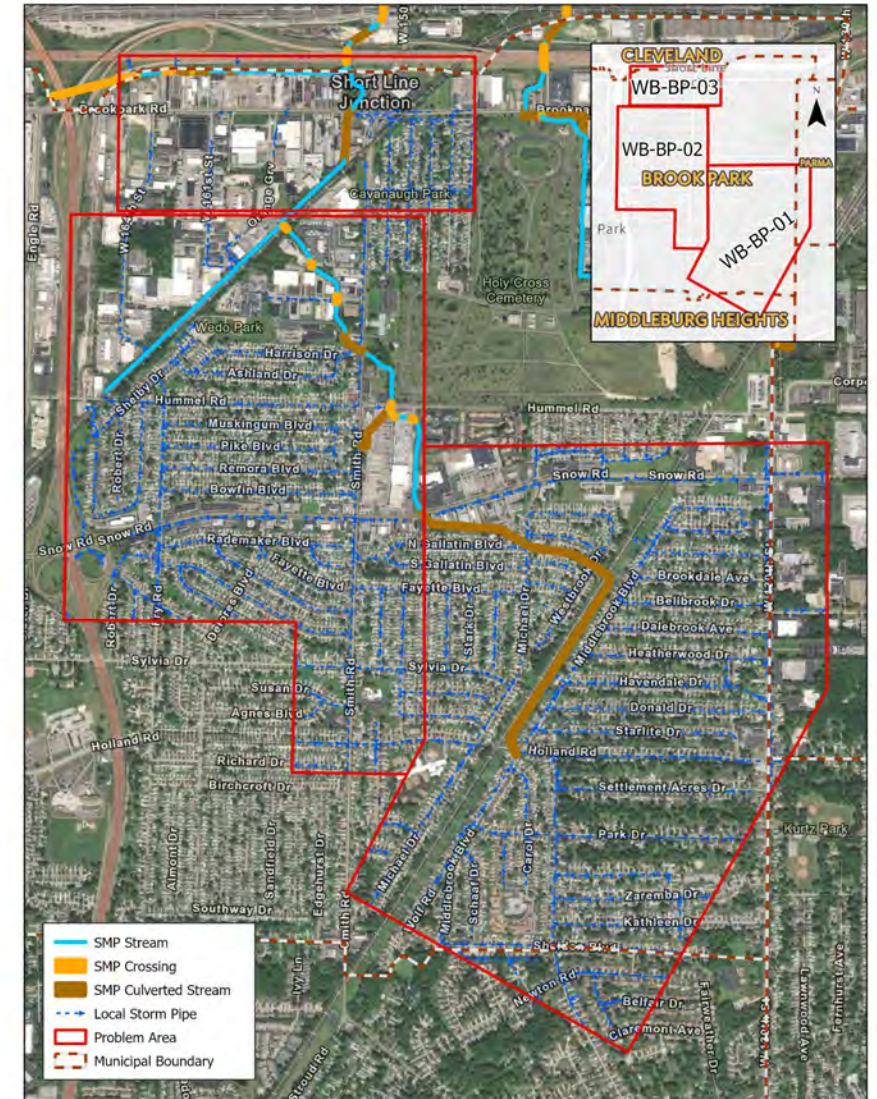
- Puritas Basin Alternatives Analysis (WB-CL-05): On-going, to be completed 3rd Qrt 2023
- Milligan/Erwin/Carrington Ave at W 130th (WB-CL-08 to 10): On-going, to be completed 3rd Qrt 2023



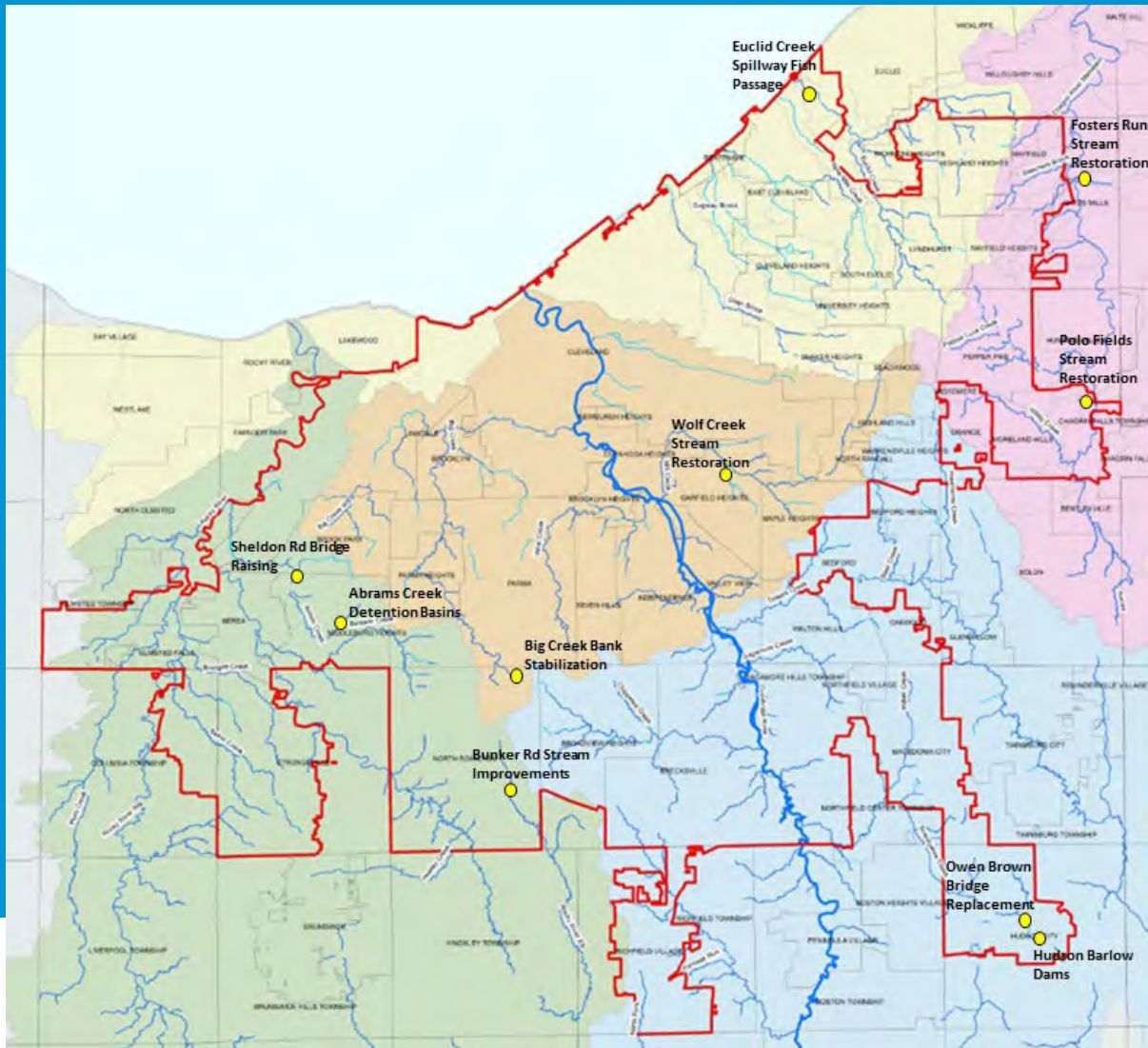
Advanced Stormwater Planning in 2023

1673: ASP of Big Creek West Branch for Problem Areas WB-BP-01 to 03 (New ASP Contract – Planning to advertise RFP end of March)

- Preferred alternatives from the SWMP no longer viable
- Need to better understand interactions between the RSS and local stormwater system
- Understand the benefits to RSS and LSS from new alternatives



Community Lead Projects



In Design Phase

<i>Project Title</i>	<i>Community</i>
Abram Creek Detention Basins 1 & 2	Middleburg Heights
Big Creek Bank Stabilization	North Royalton
Bunker Road Stream Improvements	North Royalton
Euclid Creek Spillway Fish Passage	US Army Corps of Engineers
Owen Brown Bridge Replacement	Hudson
Polo Fields Stream Restoration	Cleveland Metroparks
Sheldon Road Profile & Bridge Raising	Brook Park

In Construction Phase

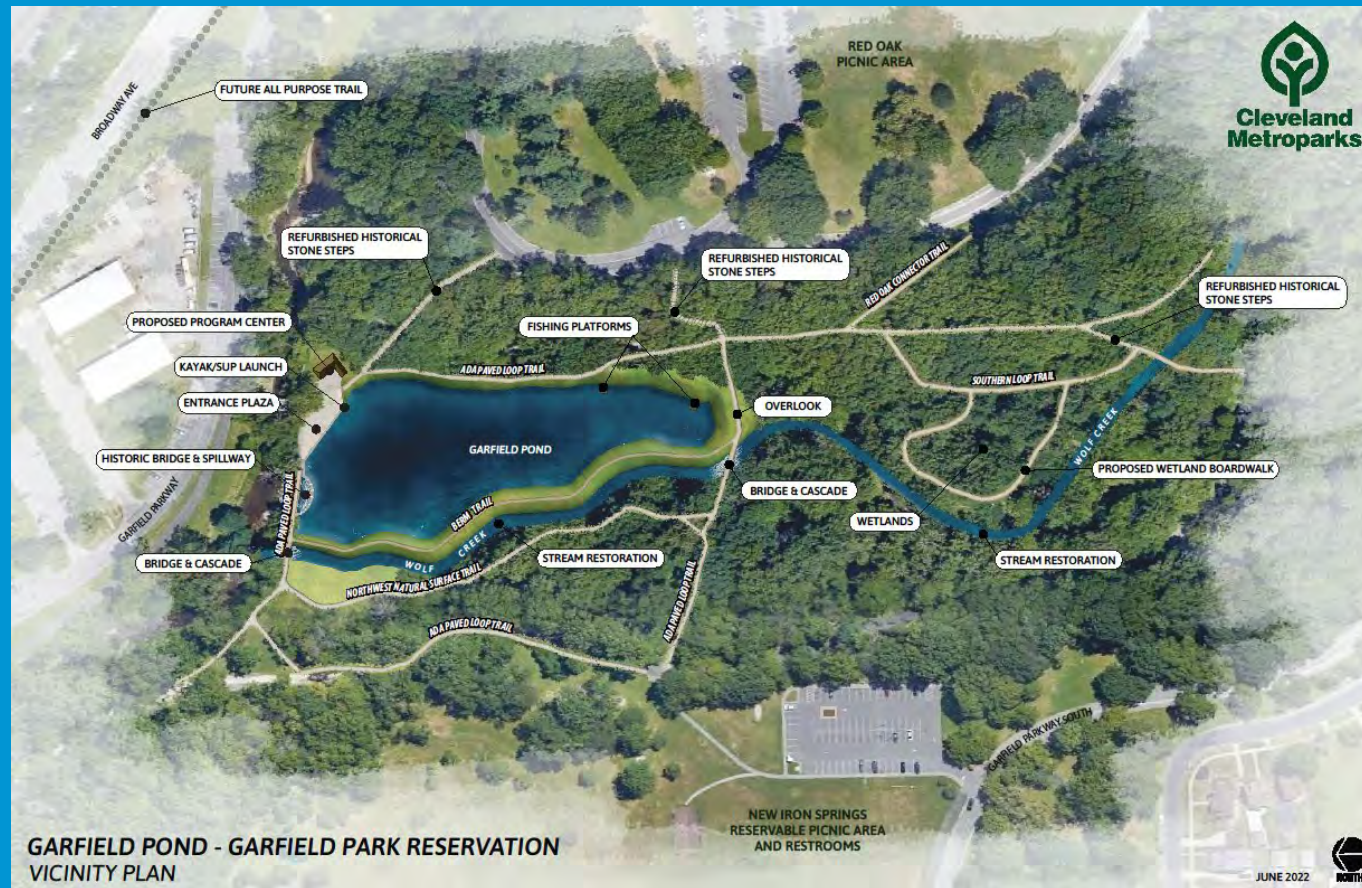
Abram Creek Detention Basin 3	Middleburg Heights
Barlow Dam Improvements	Hudson
Wolf Creek Stream Restoration	Cleveland Metroparks

Completed

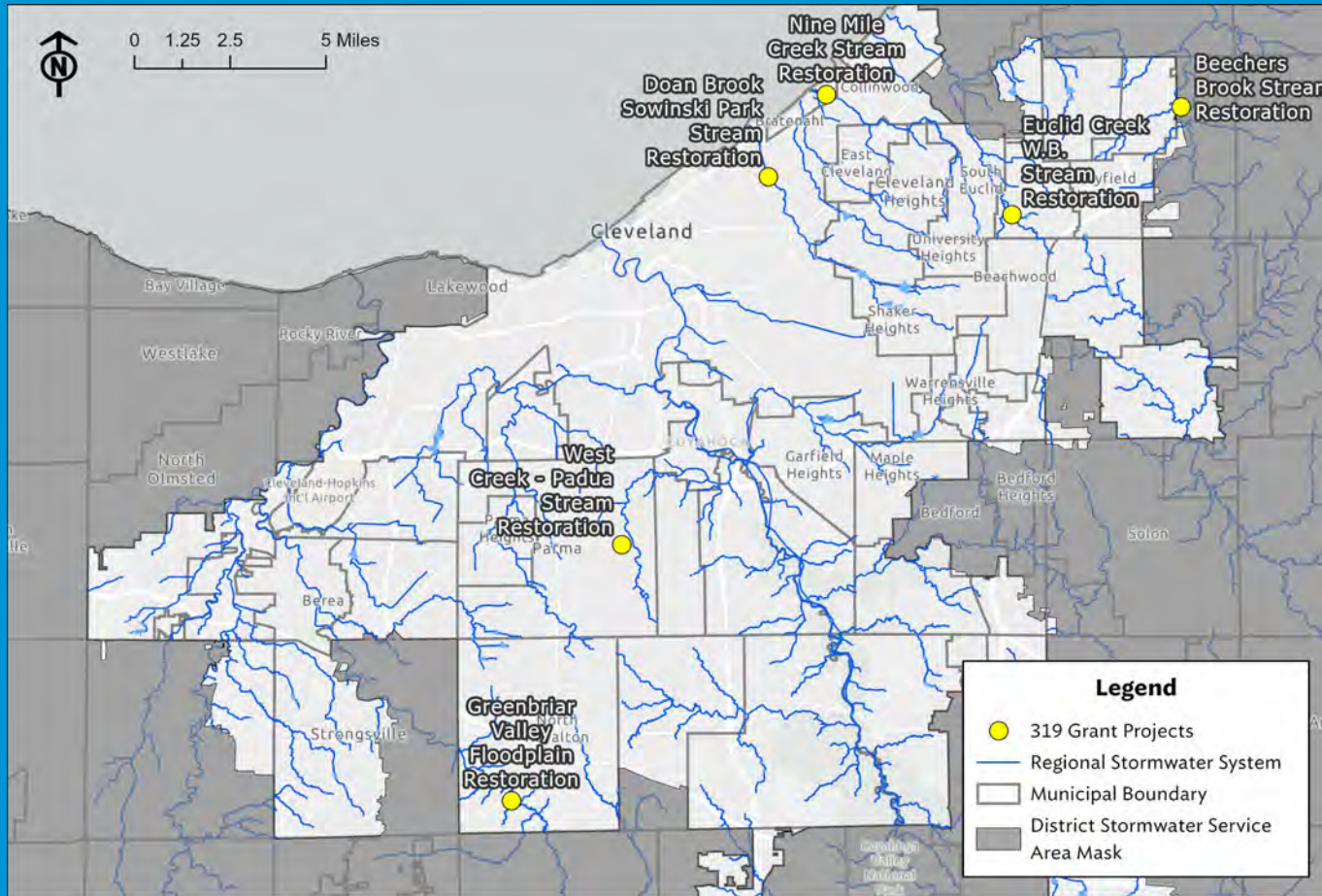
Fosters Brook Stream Restoration	Cleveland Metroparks
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Watershed Partner Lead Project – Status Update

Wolf Creek Stream Restoration, Garfield Heights



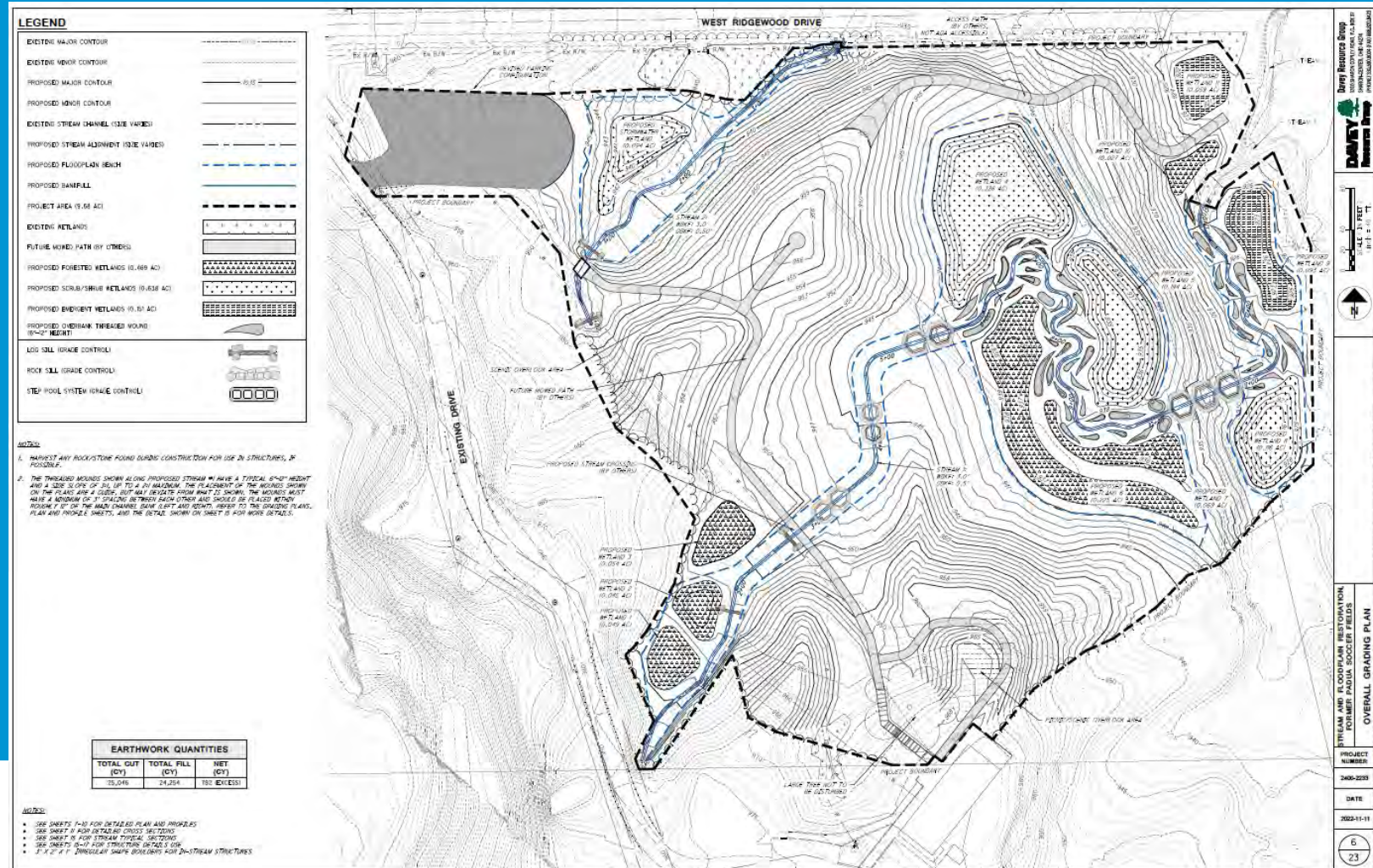
OEPA Section 319 Grant - Partner Lead Projects



In Design Phase		
Project Title	Project Lead	Community
Greenbriar Valley Floodplain Restoration	CUY Soil & Water Conservation District	North Royalton
In Construction Phase		
Doan Brook Sowinski Park Stream Restoration	Doan Brook Watershed Partnership	Cleveland
Euclid Creek West Branch Phase I Stream Restoration	CUY Soil & Water Conservation District	Lyndhurst
Nine Mile Creek Stream Restoration	Chagrin River Watershed Partners	Bratenhal
West Creek - Padua Stream Restoration	West Creek Conservancy	Parma
Completed		
Beechers Brook Stream Restoration	CLE Metroparks	Mayfield Village

Watershed Partner Lead Project – Status Update

Padua Stream & Floodplain Restoration, Parma



Stormwater Design and Construction



Stormwater Design

1524 West Creek Stabilization Village of Brooklyn Heights

Project Goals:

- Reduce erosion risks
- Remove concrete flume and stabilize
- Provide fish passage through length

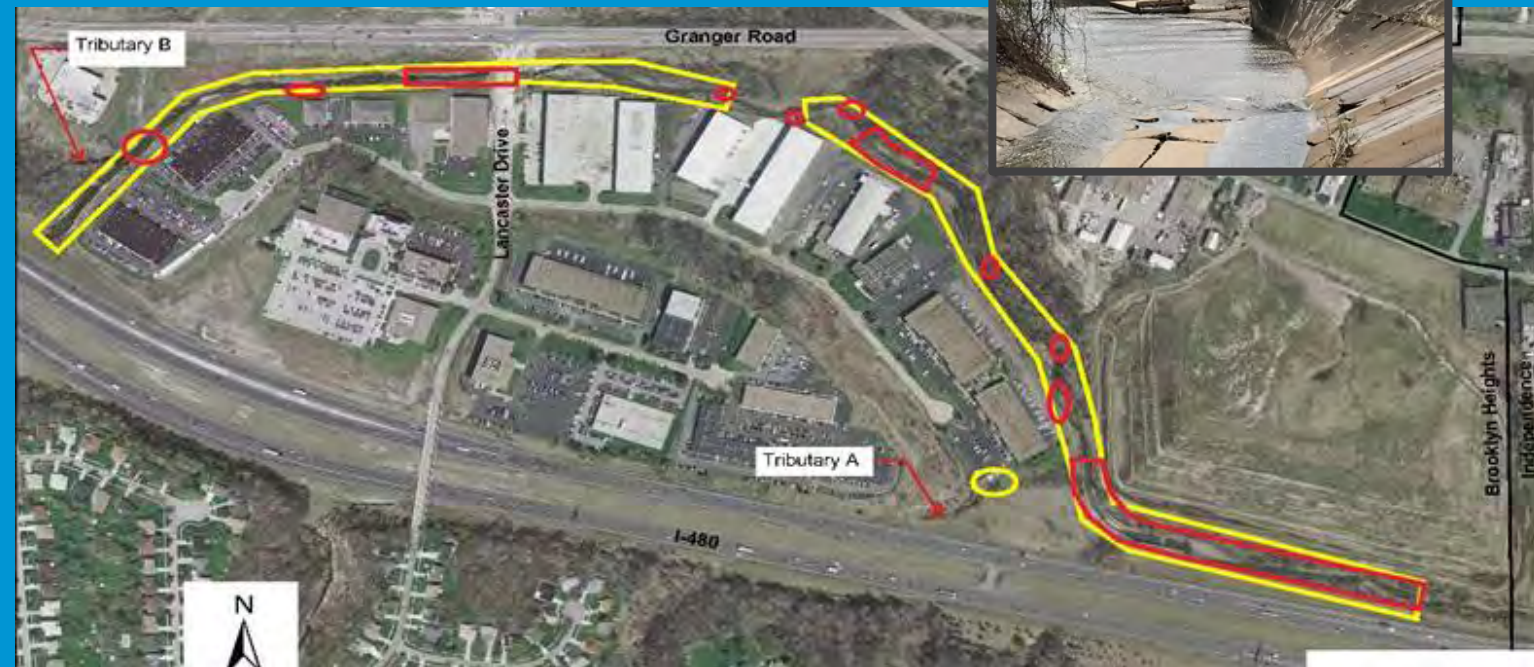
Consultant: GPD Group, Inc.

Estimated Construction: \$19.2M

Construction NTP: 2nd Qtr 2023

Facts to Note:

- Funding from USEPA and ODOT is secured



1597 Big Creek Restoration near Ridge Road City of Parma

Project Goals:

- Minimize flood risks to residential properties and roads
- Stabilize eroding streambanks
- Realign stream and reconnect to floodplains

Consultant: Stantec

Estimated Construction: \$8.1M

Construction NTP: 3rd Qrt 2023

Facts to Note:

- Over 3,700 feet of restoration and additional stabilization lengths



1630 Hemlock Creek Bank Stabilization Phase 1

City of Seven Hills

Project Goals:

- Reduce flooding and erosion risks
- Restore ~800 feet of stream
- Replace two culvert crossings

Consultant: GPD Group, Inc.

Estimated Construction: \$3.8M

Construction NTP: 3rd Qrt 2023

Facts to Note:

- Restore Riparian Corridor
- Several homes purchased to provide complete restoration and floodplain expansion



1634 Mill Creek Culverted Streams Rehabilitation City of Garfield Heights

Project Goals:

- Rehabilitate several culverted stream assets in the Mill Creek watershed

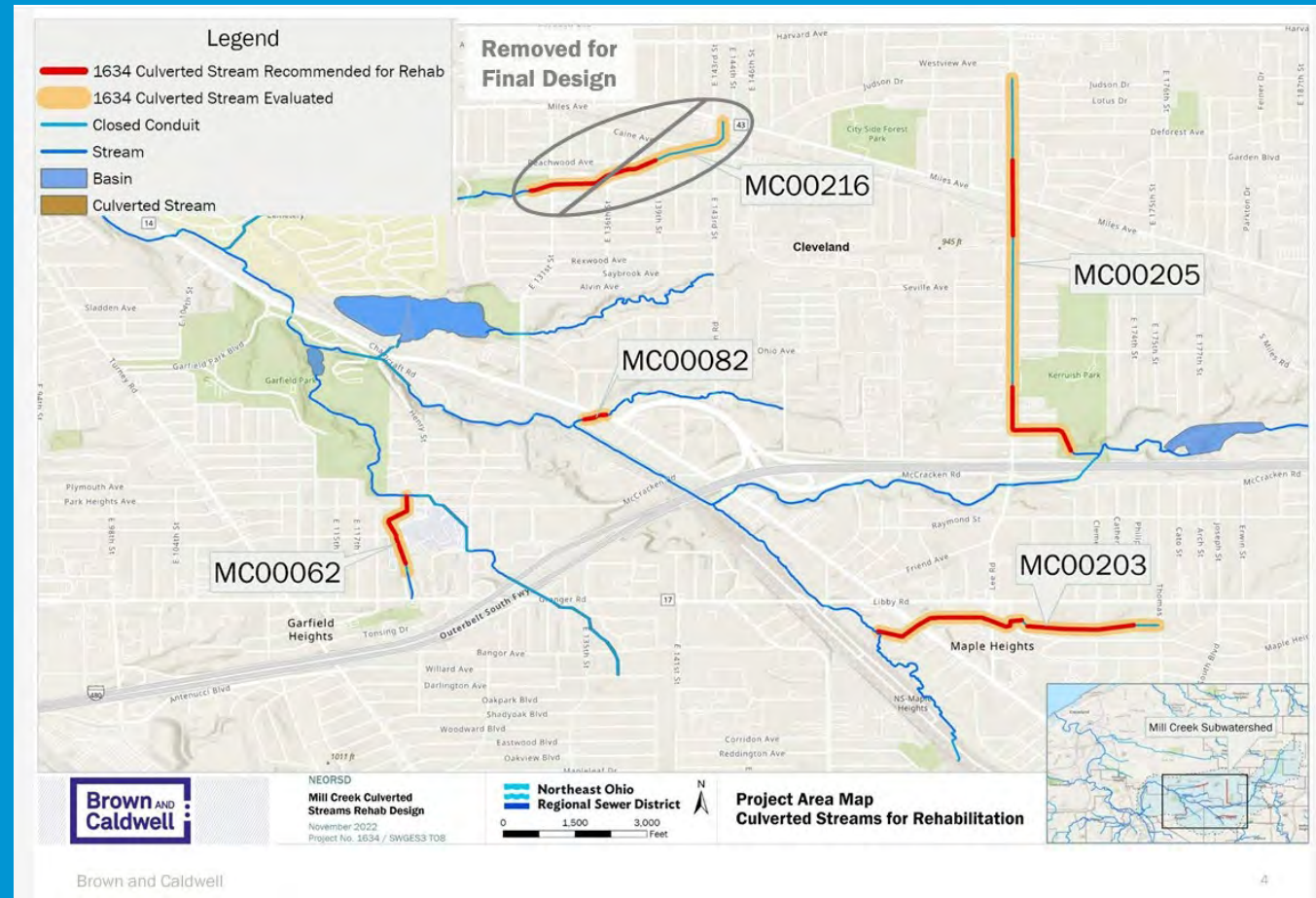
Consultant: Brown and Caldwell (GES Contract)

Estimated Construction: \$1M

Construction NTP: 3rd Qrt 2023

Facts to Note:

- Work includes spot repairs on several culverted stream assets in 3 Cities



1645 West Creek Veterans Basin Improvements

City of Parma

Project Goals:

- Expand Basin Capacity to reduce downstream flooding
- Connect local sewer outfall

Consultant: Brown and Caldwell (GES Contract)

Estimated Construction: \$4.0M

Construction NTP: 2024

Facts to Note:

- Part of larger Advanced Planning problem area
- Project to take place completely on public land



1651 Mill Creek Restoration near Cricket Lane City of Warrensville Heights

Project Goals:

- Address streambank erosion and expand floodplain
- Restore ~2,000 feet of Mill Creek in Warrensville Heights
- Replace 3 crossings of exposed Mill Creek Interceptor

Consultant: Coldwater Consulting, LLC

Estimated Construction: \$3.5M

Construction NTP: 2024

Facts to Note:

- Acquired/Acquiring 13 parcels along stream corridor to implement project



1657 Mill Creek Stream Restoration and Kerruish Basin Improvements – City of Warrensville Hts

Project Goals:

- Reduce erosion risks
- Restore ~2000 feet of stream
- Improve Kerruish basin and maintenance
- Protect sanitary sewers

Consultant: Biohabitats

Estimated Construction: \$5.0M

Construction NTP: 2024

Design Kick-off: March 2023



1659 Renewal of Culverted Streams II

Cities of Garfield Heights and Cleveland

Project Goals:

- Replace or Rehab three (3) culverted stream assets, MC00056, MC00058, WB00084

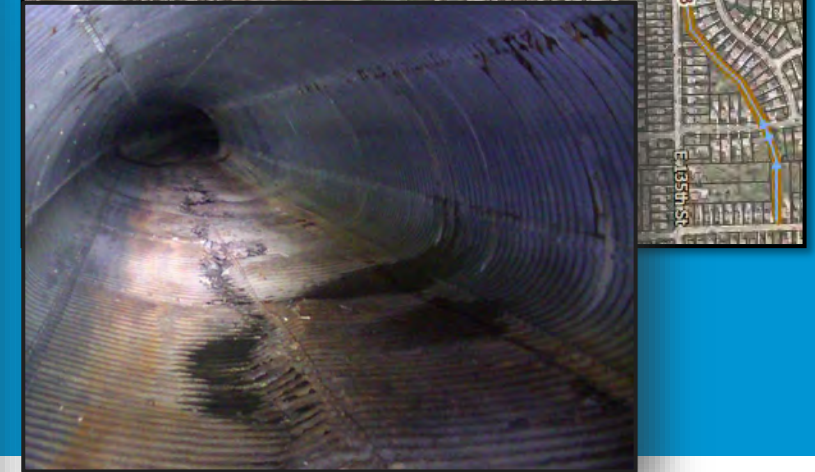
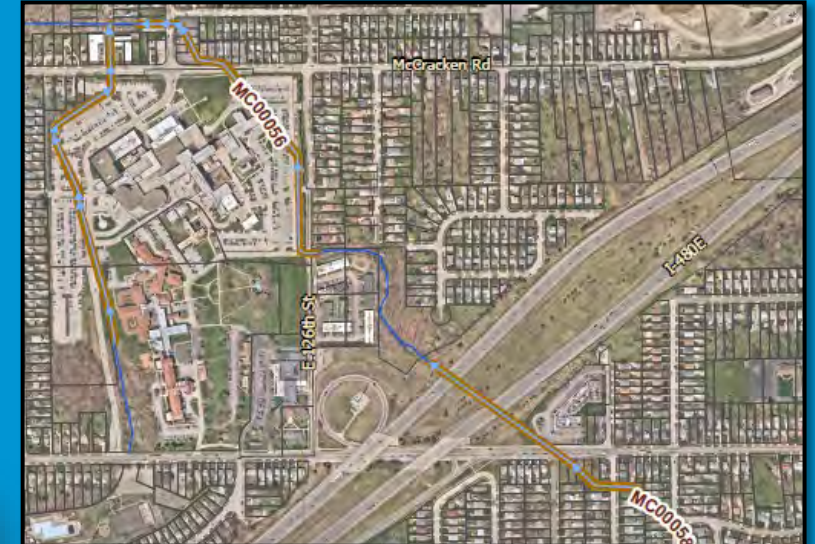
Consultant: tbd

Estimated Construction: \$6.3M

Construction NTP: 2024

Facts to Note:

- Multiple easements on public and private parcels will be necessary for replace/rehab these culverted streams





Stormwater Construction

1601 Big Creek Flood Reduction near Sprague Road Cities of North Royalton and Parma

Project Goals:

- Intercommunity flooding
- Upsize Sprague Road crossing to reduce roadway flooding
- Increase storage through floodplain expansion
- Daylight existing culvert

Contractor: Trimor, Inc.

Construction Award: \$672,900

- Note Anticipated Construction start April 24, 2023.



1612 Upper Ridgewood Basin Improvements City of Parma

Project Goals:

- Increase storage capacity of basin by removing sediment, raising berm elevation, and transitioning basin from wet retention to wetland detention.

Contractor: Eclipse Construction

Construction Award:

\$3,333,010.27

Construction NTP: August 1,
2022

Facts to Note:

- Part of larger Advanced Planning problem area



1621 Debris Racks and Access Improvements at Various Locations

Substantial Completion Anticipated
December 2022

Contract Amount: \$4,000,000

Two Phases: 6 Different Locations



1639 Big Creek Bank Stabilization Near York Road

City of Parma Heights

Project Goals:

- Stabilize eroding streambanks
- Minimize risk to adjacent residential and commercial infrastructure

Contractor: Mark Haynes
Construction

Construction Award: \$776,833.06

Construction NTP: 2023

Facts to Note:

- There are two separate areas of stabilization for this project



Plan Review with SagesGov

Types of Plan Reviews

- Title IV
- Title V
- Green Infrastructure Grant Program
- Direct Connection Requests
- Acceptance of Flow Request (PTI)
- Utility Verification Review
- Member Community Infrastructure Program

SagesGov

- To Access SagesGov, go to neorsd.org
- Business
- Plan Review
- SagesGov Logo
- Register (Individual Account Recommended)
- Verify Email



SagesGov Submittal

- Log In
- Home Screen
- Select Review
- Application
- Upload PDFs
- Submit

The screenshot shows the SagesGov web application interface. At the top, there's a navigation bar with the SagesGov logo and links for Home, Worklist, Dashboard, Reports, Admin, Search, and Help. The user is logged in as Robert Stoerkol, with a 'Log Out' link and an 'Accessibility Mode' toggle. The main content area is divided into two columns. The left column, titled 'Watershed', contains five tiles: 'Preliminary / Determination', 'Title IV Stormwater - Combined Sewer Area', 'Title V Regional Stormwater System/Stormwater Management', 'Community Cost Share', and 'Green Infrastructure Grant Program'. The right column, titled 'Engineering and Construction', contains four tiles: 'Utility Verification Review', 'Direct Connection Requests', 'Acceptance of Flow Request (P-T-I)', and 'Member Community Infrastructure Program'. On the far right, there's an 'Announcements' section with a 'Submittal Guidelines' link dated 2/24/2018. Below this, a 'Registration' section lists steps for new users, including registering for an account and adding users. A 'New Submission' section provides instructions on how to start a new submission, including clicking the 'Tile' on the 'Home' tab and following the steps to complete the submission.

Review, Comments, Resubmittal

- SagesGov will send you an email when the Plan Reviewer is done
- Only Applicant is notified and has access
- Under Files, see marked-up drawings
- Resubmit when revised drawings are ready
- Type in a response for each comment, check Application, Upload revised drawings, hit submit

Conclusion of Review

- Title IV : No Objection Letter
- Title V in Parma, North Royalton, Olmsted Township (CCDPW) : No Objection Letter
- Direct Connection Requests: Connection Approval Letter
- Acceptance of Flow : Acceptance of Flow Letter
- GIG, Utility Verification, MCIP: Email from SagesGov

Contact for Help or Questions

- Robert Stoerkel CDPP Specialist
- StoerkelR@neorsd.org
- CDPP@neorsd.org
- 216-881-6600 x6802
- Instructions on web page

Code Updates

Title III & IV

Repeal and Replacement



Authority

Ohio Revised Code Section 6119.08

Title III Separate Sanitary Sewer Code

Title IV Combined Sewer Code



Title III – Updated

Document structure

Definitions

Creation of The Water Quality Technical Program



Title III – Updated

Creation of the Water Quality Technical Support Program (WQTSP)

- District to provide support to communities in addressing water quality issues regulated by others, such as OEPA and County Board of Health
- Voluntary program

Community Discharge Permit- Community Must:

- Control Excessive I/I
- Maintain and update local sewer data
- Implement BMPs
- Create a Community Compliance Plan outlining how compliance of the permit objectives will be achieved



Title IV – Updated

Document structure

Definitions

**Connections to or Disconnections from the
Combined Sewer System**



Benefits of Title III & IV Updates

- **Consistency**

- Permits for all communities
 - 1 unified permit

- **Improved Utilization of District resources**

- LSSESs
- MCIP

- **Usability**

- **Simplicity**

- **Water quality improvement and infrastructure investment**



Jeff Jowett

Community Discharge Permit Program Manager

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Infrastructure Funding Update



**Northeast Ohio
Regional Sewer District**

Ohio Clean Water State Revolving Loan Fund



**Northeast Ohio
Regional Sewer District**

Infrastructure Investment and Jobs Act: Ohio Clean Water State Revolving Loan Fund

- Approximately \$100 million/year to the Water Pollution Control Loan Fund (WPCLF)
 - 5 years of funding (4 remaining)
 - 49% through grants referred to as “principal forgiveness”
 - Focus of grants is disadvantaged communities



FY 2024 WPCLF Affordability Criteria

Criteria	2023 Value	2024 Value
Median Household Income	$\leq \$58,116$	$\leq \$61,938$
Unemployment Rate	$\geq 5.3\%$	$\geq 5.2\%$
Individuals with Poverty Rate below 200% of the Poverty Level	$\geq 30.4\%$	$\geq 29.8\%$
Percent Population Change	$\leq 50\%$ Increase	$\leq 50\%$ Increase



**Must meet 3 of the 4
to qualify as
disadvantaged**



Types of Projects (Human Health Category)

- Capacity improvements
- Septic System conversions
- Dry weather or wet weather overflows
- Basement back up elimination
- Illicit discharge elimination



Project Submittal Process

- For FY 2023, communities with the District's help had 3 projects selected for Principal Forgiveness.
- Currently looking at potential projects in the qualified communities.
- Interested communities can submit projects with the District's assistance for FY 2024. Applications due in August 2023.



Member Community Infrastructure Program Grant

FUNDING YEAR 2024



**Northeast Ohio
Regional Sewer District**

Member Community Infrastructure Program (MCIP)

- Annual competitive grant funding (up to \$15M for FY 2024)
- Address water quality and quantity issues associated with the Clean Water Act

Since 2017, the MCIP has invested **\$62.5 million** towards 90 **publicly owned sewer infrastructure improvement projects** which has leveraged an additional **\$82.5 million** in member community sewer infrastructure investments



Member Community Infrastructure Program Project Impacts

MCIP Year	Basement Flooding Remediation	Reduced Impact on SSO/CSO	Removal of WWTP	HSTS Removal	Linear Feet of New Collection System
2017	427	3		779	67,855
2018	39	2	1	402	18,130
2019	659	3	2	232	34,147
2020	149	2		182	20,276
2021	332	1			20,591
2022	576	14		73	37,117
2023	1,356	17			75,368
TOTAL	3,538	42	3	1,668	273,484



Member Community Infrastructure Program (MCIP)

What's New – Policy Changes, 2023

Direct Disbursement – beginning July 1, 2023, grantees can begin applying for direct disbursement of MCIP funds

What's Upcoming- Funding year 2025

Title III – Code of Regulations of the Northeast Ohio Regional Sewer District
Separate Sanitary Sewer Code (update 12/2022)

*Beginning with the **2025 MCIP** funding round, anticipated **2025 RFP** release in March 2024, a community must be a participant in the Water Quality Technical Support Program to be eligible for grant funding.*



Member Community Infrastructure Program (MCIP)

2024 MCIP Implementation Schedule

- March 2 RFP Release
- April 17-28 Pre-Proposal Meetings
- May 15 MCIP Submissions Due
- June – July Proposal Reviews
- August Recommendations to Board of Trustees

2024 Request for Proposals are available on the MCIP webpage at NEORSD.org
Further program questions, contact Linda Mayer, mayerl@neorsd.org



2022 Clean Watersheds Needs Survey

- EPA report to Congress on Clean Water needs
 - Supports state and congressional budgeting efforts
 - Supports public information and other clean water initiatives
 - Typically conducted every 4 years
- EPA will send the survey out to large communities/service providers.
- Due date moved to April 28, 2023



What should communities submit?

Local wastewater and stormwater capital costs, (e.g. design & construction, vac trucks); do not include maintenance costs.

District submitted:

Stormwater Master Plan needs, as well as WWTP, totaling \$3.3B.

LSSES documentation provided to OEPA, totaling \$3.4B.



WTL Contact

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Watershed Team Leader

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Donna Friedman

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Thank you!