

*Watershed Advisory Committee
Rocky River
March 11, 2021*

NORTHEAST OHIO REGIONAL SEWER DISTRICT



REGIONAL
STORMWATER
MANAGEMENT
PROGRAM

Agenda

- Welcome & Introduction
- Water Resource Project Acquisition
- Report a Flood Tool (RAFT) - **Feature**
- Master Planning
- Strategic Support
- Inspection and Maintenance
- Design & Construction
- Looking Ahead



Program Highlights

Frank Greenland, Director of Watershed Programs

Matt Scharver, Deputy Director of Watershed Programs

Community Cost-Share: 2021

CCS Funds Balance (2/28/21) \$29,939,495

CCS funds available \$18,138,054

Year	CCS Spent
2016	\$72,190
2017	\$2,626,418
2018	\$4,218,308
2019	\$9,178,445
2020	\$6,940,369
2021	\$1,232,573
Total	\$24,269,243

Community Cost-Share: 2021

Changes to Title V

The District is proposing minor changes to Title V Stormwater Management Code, Chapter 9 – Community Cost-Share Program (CCS). The language change will provide clarity in the implementation of the CCS Program.

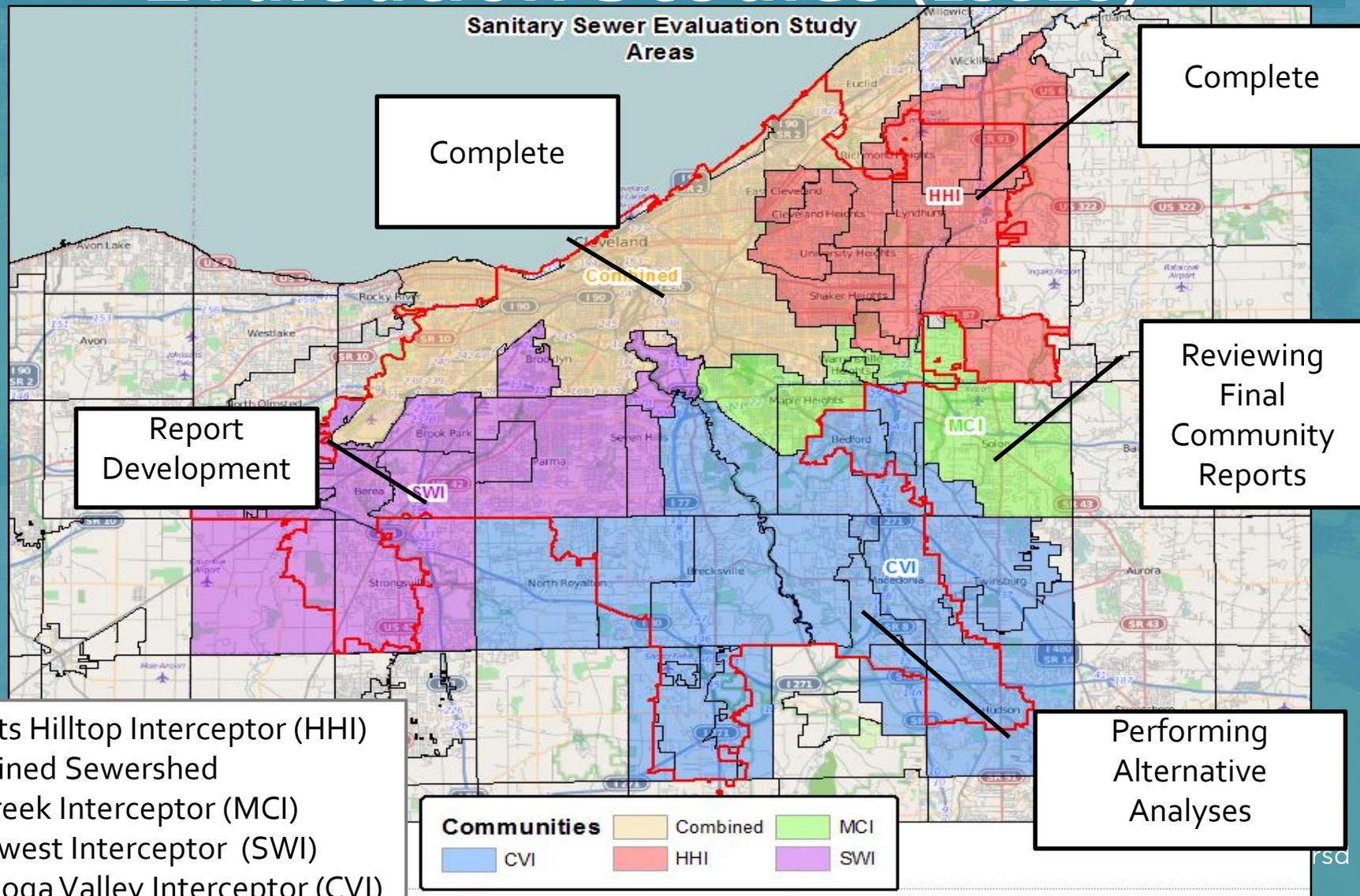
* NEORSD Title V Stormwater Management Code - *Change #1:*

Section 5.0903: Eligible Community Cost-Share Program Activities – Member Communities may use Community Cost-Share Program funds for **design**, construction, operation, and maintenance of their Local Stormwater System... (the word “design” added for clarity)

*NEORSD Title V Stormwater Management Code - *Change #2:*

- **Section 5.0905 (b):** Member Communities may accumulate up to five (5) years of Community Cost-Share funds. Member Communities must apply by **December 31st** of Year Five to be able to receive their funds from Year One.

Local Sewer System Evaluation Studies (LSSES)



Heights Hilltop Interceptor (HHI)
Combined Sewershed
Mill Creek Interceptor (MCI)
Southwest Interceptor (SWI)
Cuyahoga Valley Interceptor (CVI)



2022 MCIP Funding

- 2022 MCIP funding level to be determined

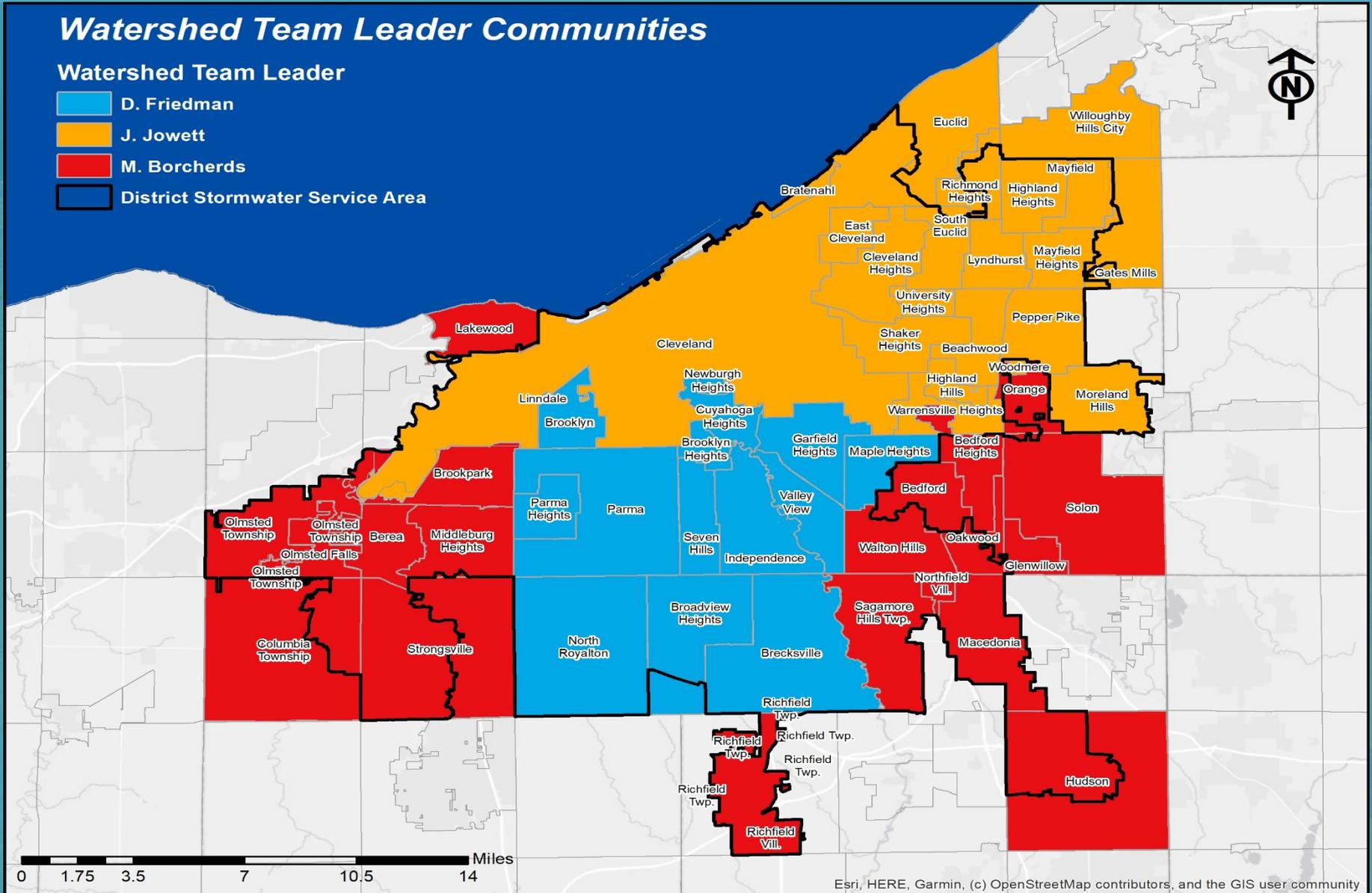
Implementation Schedule:

- March: RFP Released
- April 22-29: Pre-Proposal Meetings
- May 21: MCIP Submissions Due Date
- June – July: Proposal Review Meetings
- September: Recommendations presented to Bd

Watershed Team Leader Communities

Watershed Team Leader

-  D. Friedman
-  J. Jowett
-  M. Borchers
-  District Stormwater Service Area



0 1.75 3.5 7 10.5 14 Miles

Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

Questions



Brandywine Creek Hudson – BR00232

Water Resource Project Property Acquisition

Program Goals

- Support Design and Construction project needs
- Mitigate the threat of erosion and flooding
- Protect functioning regional stormwater assets
- Leverage acquisition dollars through partnerships

Success to date: Threat Mitigation/ Asset Protection

- Fee Simple : 45/ \$ 9,674,651
- Permanent Easements: 93/ \$740,605

Success to date: Partnerships

- Flood / Erosion Mitigation: 23 homes
- District Dollars invested: \$1,818,904
- Dollars Leveraged: \$4,761,969



Acquisition Process

Outreach

Appraisal

Appraisal Review

FMV Offer

Board Approval

Closing /Leasing

Maintenance and
Inspection

Demolition

Water Resource
Project



Questions?

Lilah Zautner, Project Manager for Property Acquisition
zautnerl@neorsd.org
216.299.2751

Report a Flood Tool

Northeast Ohio Regional Sewer District

Report a Flood Tool

Basement Flooding & Street Flooding



Report A Flood Tool

Click anywhere on this tab to record a flooding event in Survey123. A new page will be loaded that contains the survey.

[Report Flooding Event](#)

Report a Flood Tool – What is it?

- A web based data collection form managed by the District, available through the District's ArcGIS Online Platform
- Associated Web Application showing the locations of flooding incidents
- Data can also be collected via a custom excel sheet or paper form

Report a Flood Tool - Form

- Basement Flooding ▶ _____
- Yard Flooding ▶ _____
- Street Flooding ▶ _____
- Additional Comments/Pictures ▶ _____

Basement Flooding ▼

Where is the water coming from?

<input type="checkbox"/> Floor Drain	<input type="checkbox"/> Toilet	<input type="checkbox"/> Sink
<input type="checkbox"/> Windows	<input type="checkbox"/> Doors	<input type="checkbox"/> Foundation (Walls/Floors)

Describe the characteristics of the water

<input type="checkbox"/> Clear	<input type="checkbox"/> Muddy	<input type="checkbox"/> Slight Odor
<input type="checkbox"/> Strong Odor	<input type="checkbox"/> No Odor	<input type="checkbox"/> Other

If "Other" is selected please describe the characteristics of the water

How deep was the water (in inches)?

<input type="radio"/> 0-6"	<input type="radio"/> 6-12"	<input type="radio"/> 12-24"
<input type="radio"/> 24-36"	<input type="radio"/> 36-48"	<input type="radio"/> >48"

How long was the water in basement (hours)?

<input type="radio"/> 0-4 Hours	<input type="radio"/> 4-12 Hours	<input type="radio"/> 12-24 Hours
<input type="radio"/> >24 Hours		

How often has this occurred in the past year?

Report a Flood Tool - Map

Report a Flood Tool Map with ArcGIS Web AppBuilder

Find address or place

0.2mi

-81.694 41.423 Degrees

Report_a_Flood_SSES_Points Report A Flood Tool Municipal Boundary

Options Filter by map extent Zoom to Clear selection Refresh

start_time	end_time	username	email	Name	Street Number/Street Name	Community	Phone Number	Email	What is your preferred contact method?	Todays_Date	Date
					3204 Portman Ave	Cleveland					6/29 PM

210 features 0 selected

Report a Flood Tool - Questions

- How can I access the RAFT form?
- Will other people be able to access the data?
- Will training be offered?



Report a Flood Tool - Benefits

- Centralized repository for recording flooding incidents in a consistent format
- Understand what types of issues are occurring, how frequently, and where
- Prioritize projects based on incident type and frequency
- Help validate hydraulic models

Report a Flood Tool - Contacts

Eric J. Baker, GISP

bakere@neorsd.org

or

gis@neorsd.org

Rocky River Stormwater Master Plan



Plum Creek – Olmsted Falls

Stormwater Master Planning (Status through 2/22/2020)

Cuyahoga River South

Completion Date: June 2019



■ Remaining ■ Completed
100 % Complete

Cuyahoga River North

Completion Date: July 2020



■ Remaining ■ Completed
100% Complete

Rocky River

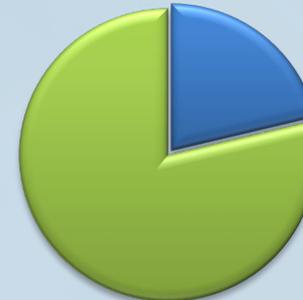
Completion Date: November 2020



■ Remaining ■ Completed
100% Complete

Chagrin River / Lake Erie Tribs

Completion Date: September 2021



■ Remaining ■ Completed
78% Complete

Stormwater Master Plan

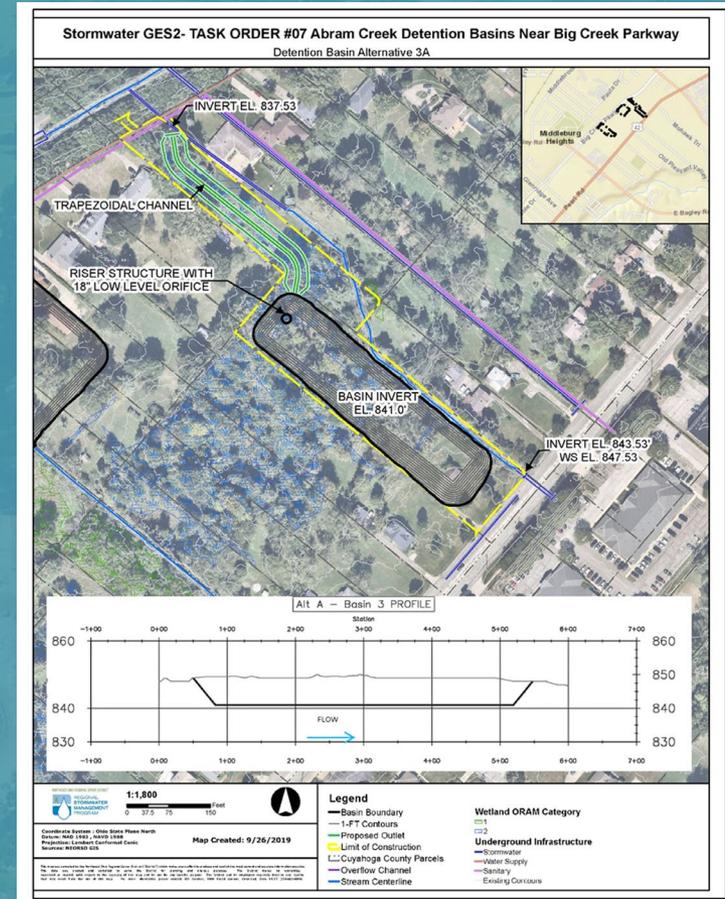
Problem Area Determination

Watershed	Problem Areas	Stand-alone Projects	Estimate Costs
Abram Creek	7	3	\$43,193,000
Baker Creek	7	14	\$21,848,000
Baldwin Creek	10	5	\$48,593,000
Blodgett Creek	7	5	\$17,637,000
French Creek	2	0	\$ 1,035,000
Plum Creek	3	1	\$ 8,639,000
Rocky River EB	16	11	\$81,078,000
Rocky River MB	3	1	\$ 3,502,000
Rocky River WB	16	10	\$49,766,000
Totals	71	50	\$275,291,000

Rocky River Stormwater Master Plan Design & Construction Phase

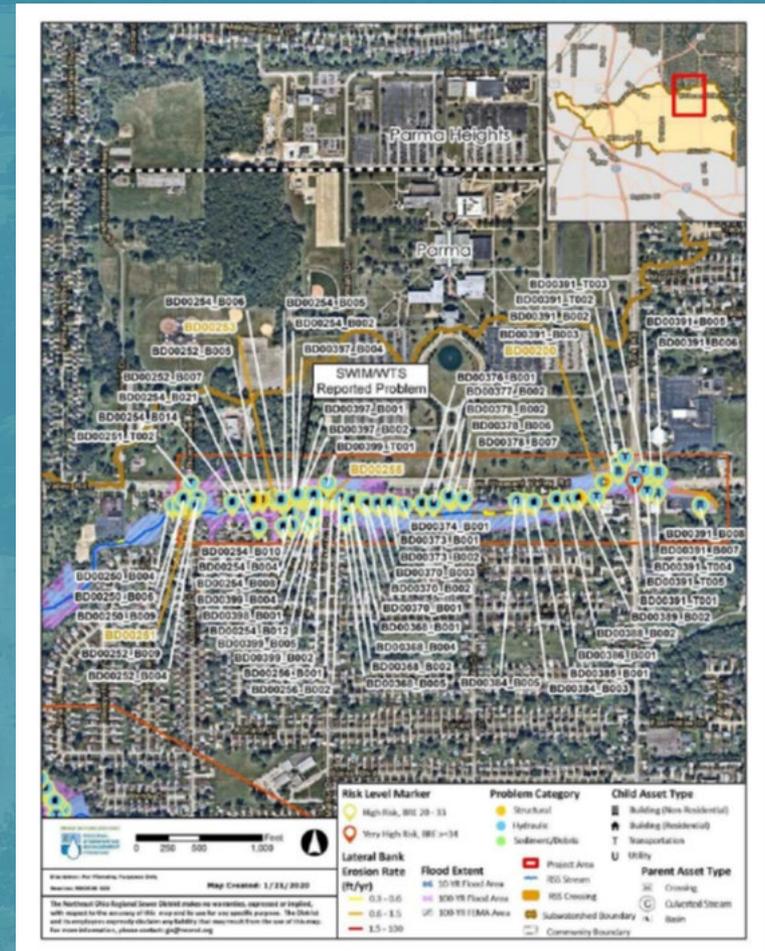
Projects initiated based upon the Rocky River Stormwater Master Plan:

- Abram Creek Detention Basins Near Big Creek Parkway - Middleburg Heights
- Cleveland Hopkins Airport Debris Rack Replacement – Cleveland
- Sheldon Road Bridge Replacement – Brookpark & Middleburg Heights
- Route 82 Culvert Replacement – Strongsville
- Baldwin Creek Relief Storm Sewer at Stormes Drive - Parma



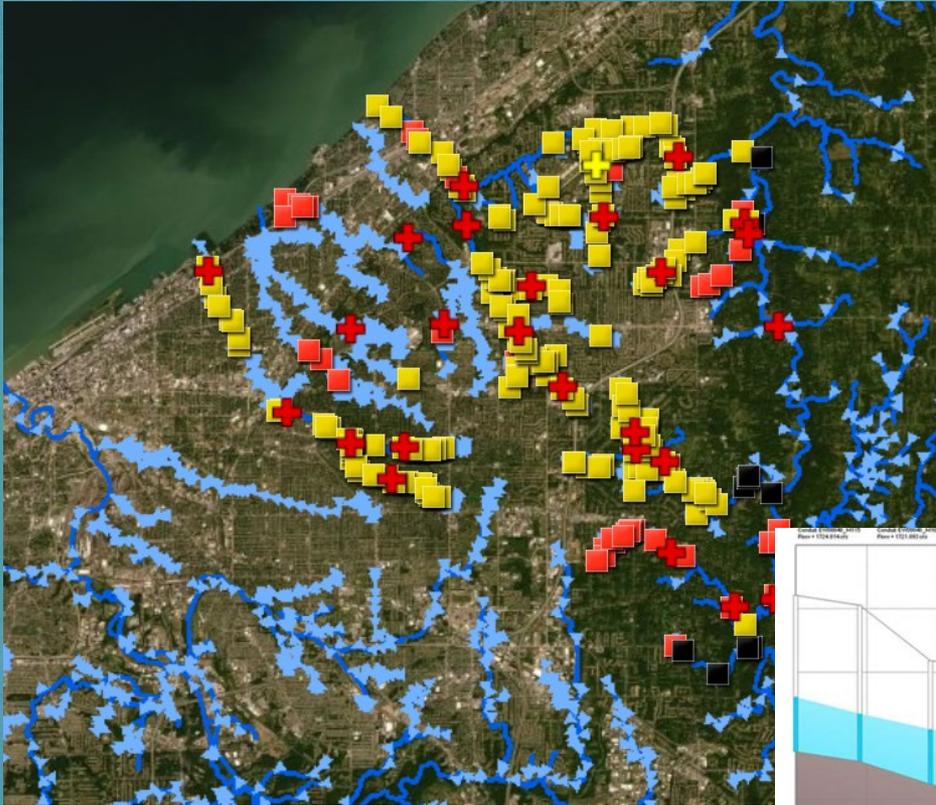
Rocky River Stormwater Master Plan Advanced Stormwater Planning

- Goal to ready projects for full design
 - Projects that require additional information to understand full RSS impacts
 - Breakdown of complex, preferred alternatives into manageable projects
 - Acquisition/Easement procurement
 - Coordination considerations with outside stakeholders
- Problem Area BDPA_o6: York & West Pleasant Valley Roads ASP underway

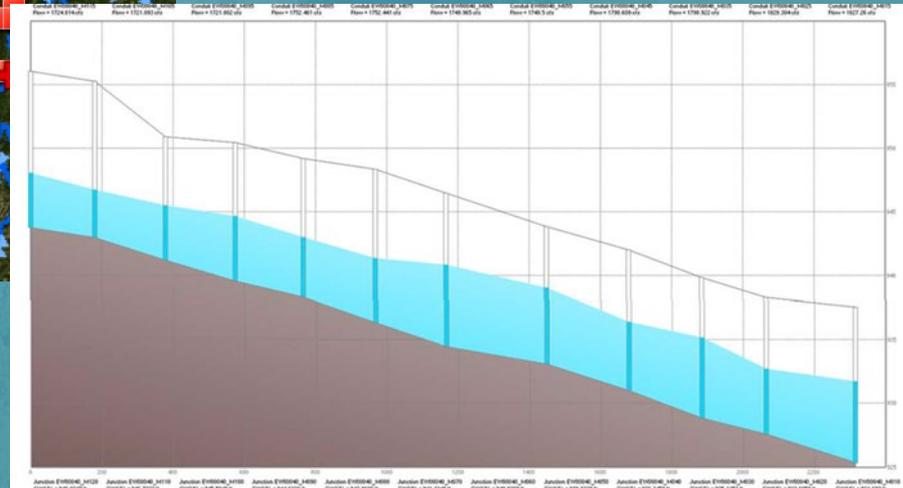


Stormwater Master Plan

Data Sharing with Community Members



- Culverted Stream CCTV/PACP Reports
- Spherical Imagery of Open Streams
- Inventory of RSS Crossings
- SWMM Models of Sub-watersheds
- SWMP Community Report



Questions

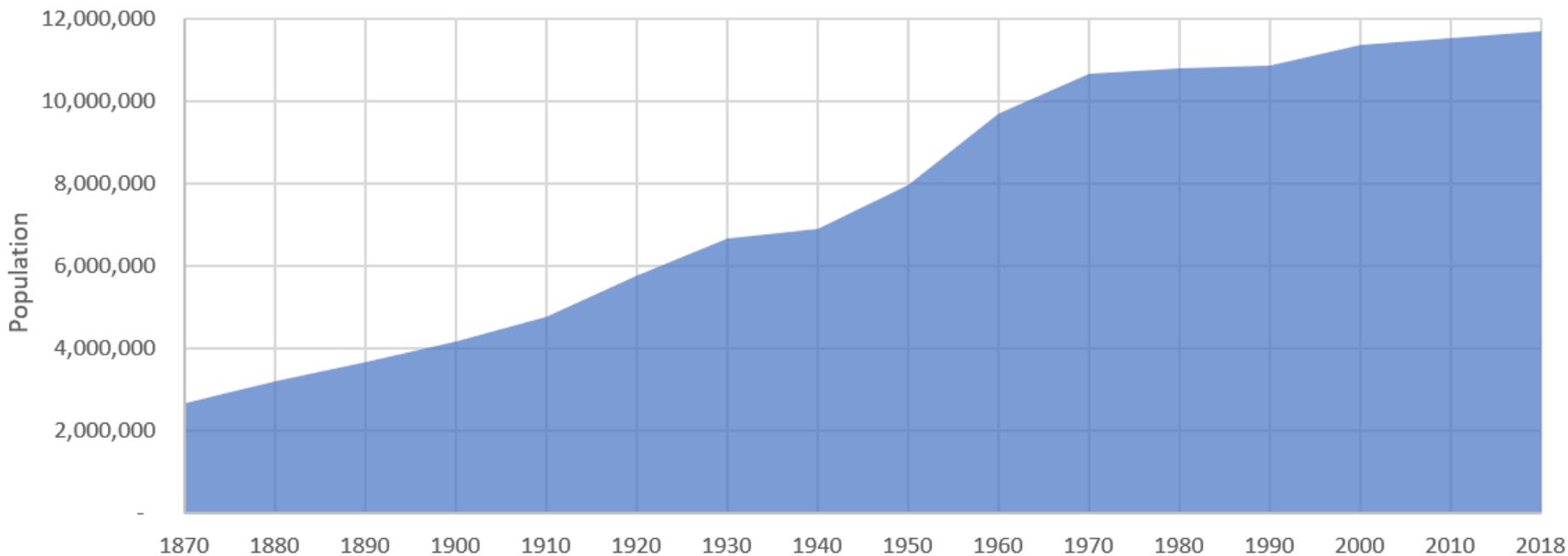


Rocky River East Branch— Berea

Stormwater Strategic Support Roles & Responsibilities

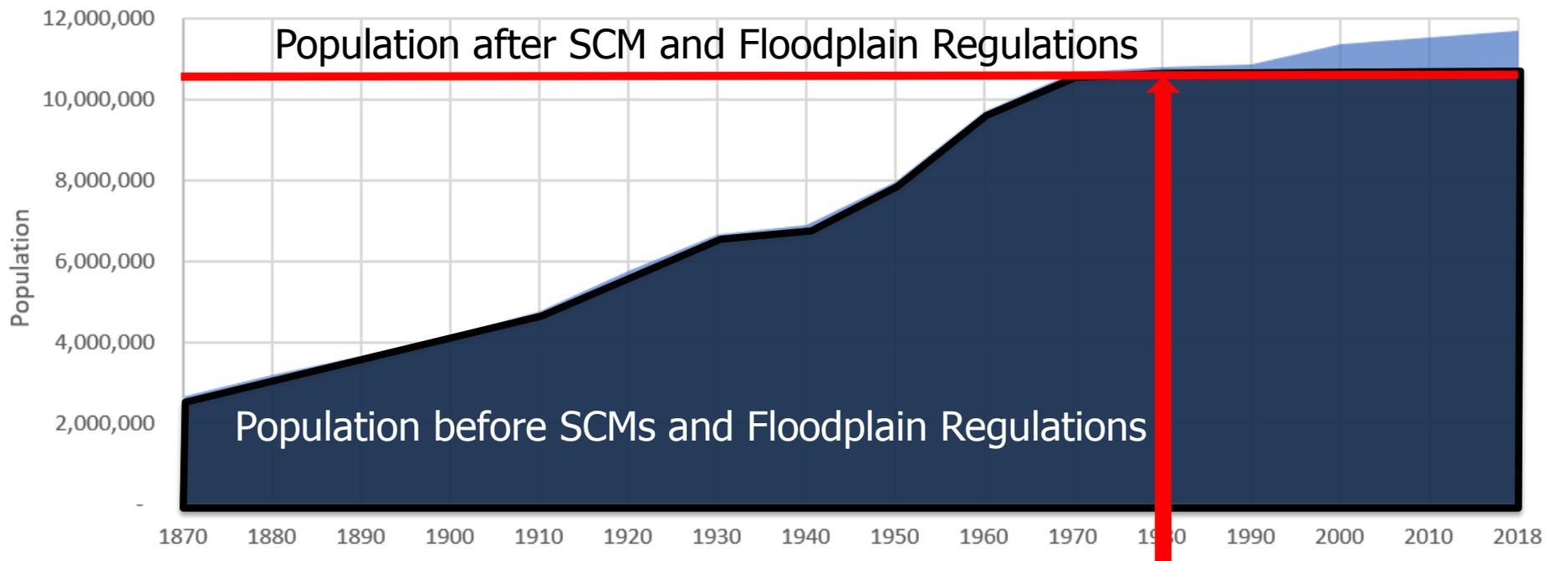
- Manage the RSMP Stormwater Planning Level Models
- Assign stormwater related risk (and its probability) to help prioritize and phase RSMP Construction Projects
- Support the District's urgent storm response and reporting
- Provide assistance to local stormwater issues with RSS benefits.

Ohio's Population and Stormwater Management Regulations By Decade



Pipe Capacity	< 2-yr Capacity		2-yr to 5-yr Capacity		5-yr to 10-yr Capacity	
Floodplain Regulations	No Regulations			FEMA 100-yr	Stream Setback	
SCMs	No Regulations			Flood Control	WQV	

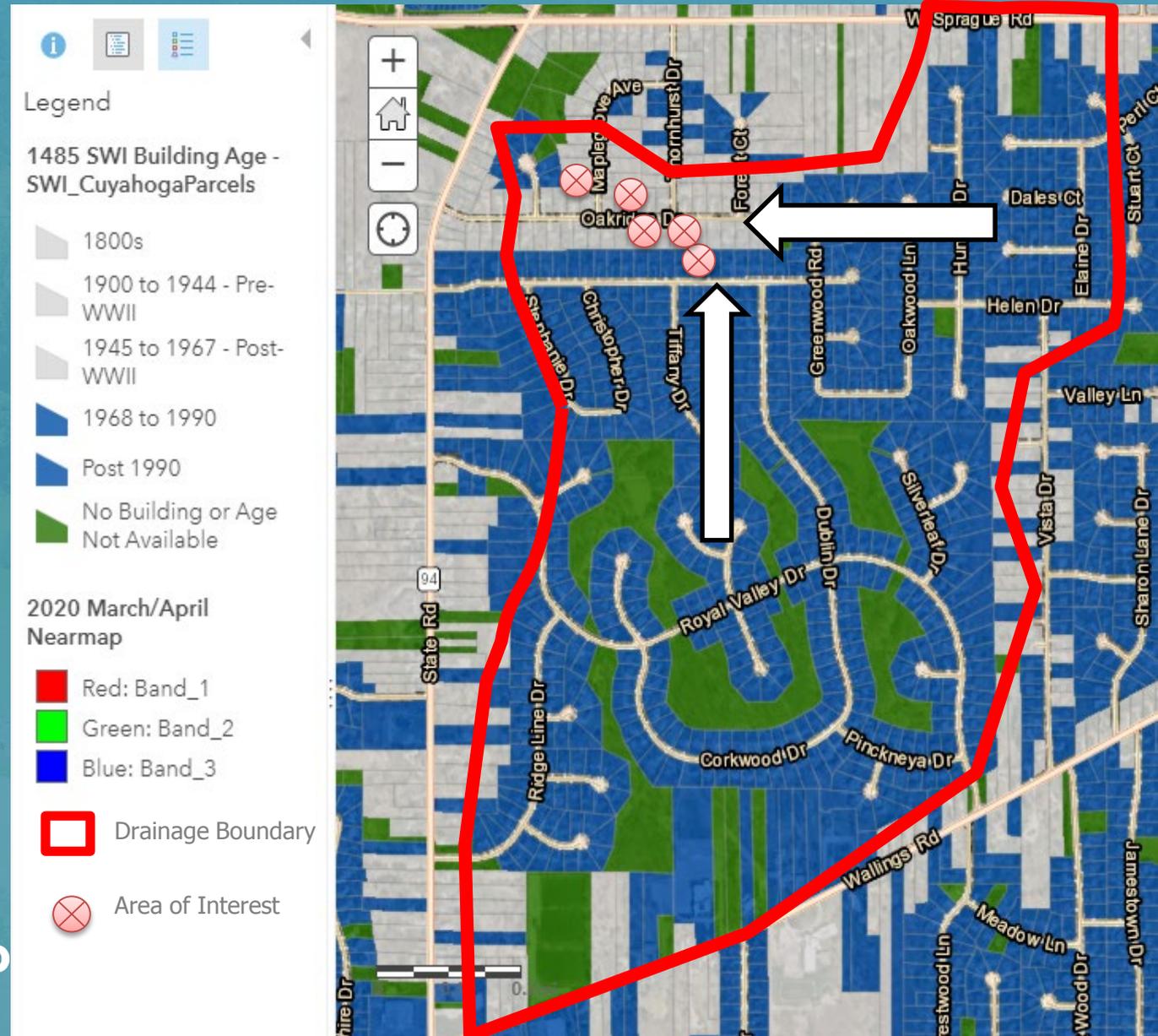
Ohio's Population and Stormwater Management Regulations By Decade



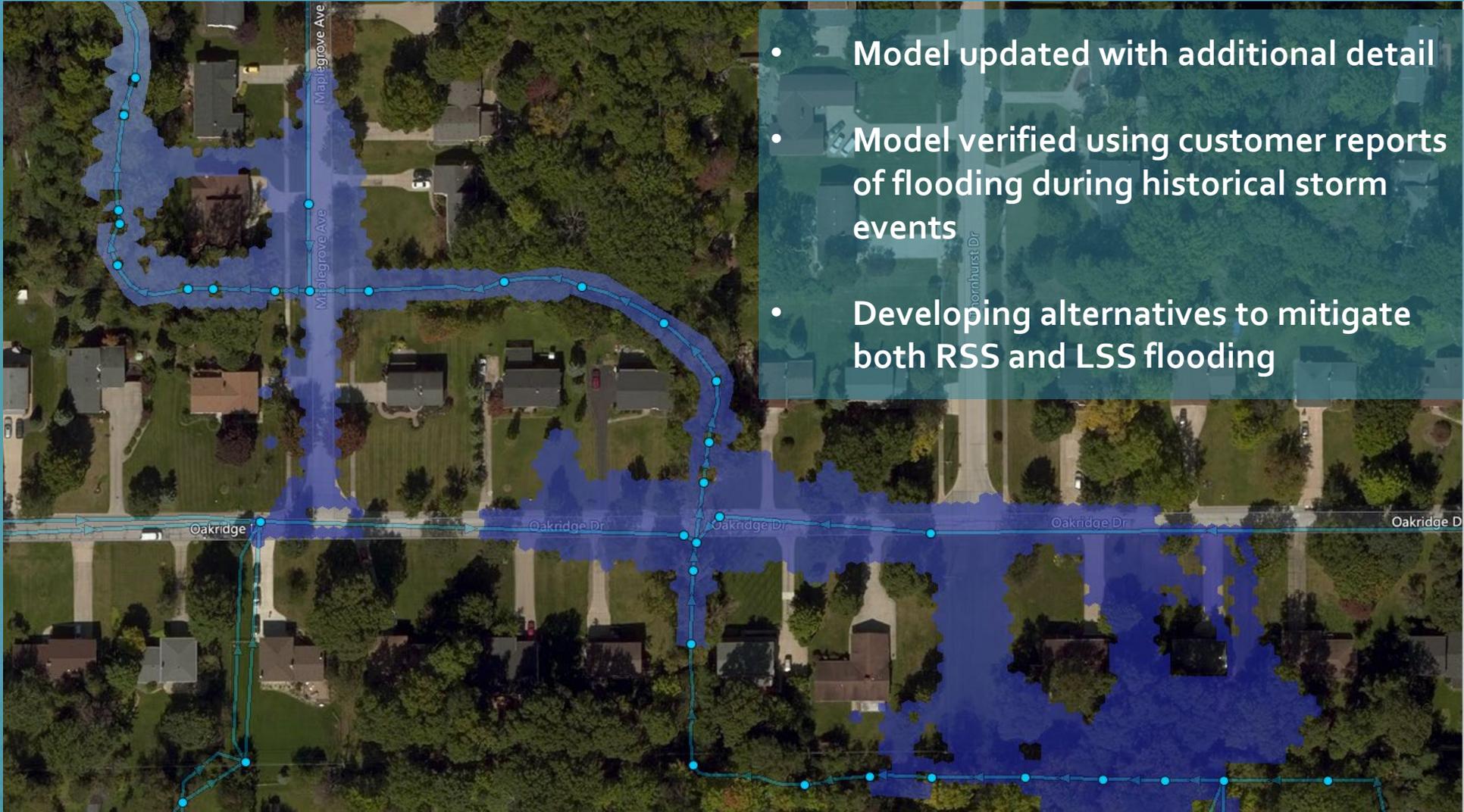
Pipe Capacity	< 2-yr Capacity		2-yr to 5-yr Capacity		5-yr to 10-yr Capacity	
Floodplain Regulations	No Regulations		No Regulations		FEMA 100-yr	Stream Setback
SCMs	No Regulations		No Regulations		Flood Control	WQV

Development History

- Nearly all the houses upstream of the flooded properties were built later
- Several houses were built without any SCMs
- Some SCMs were constructed for flood control purposes

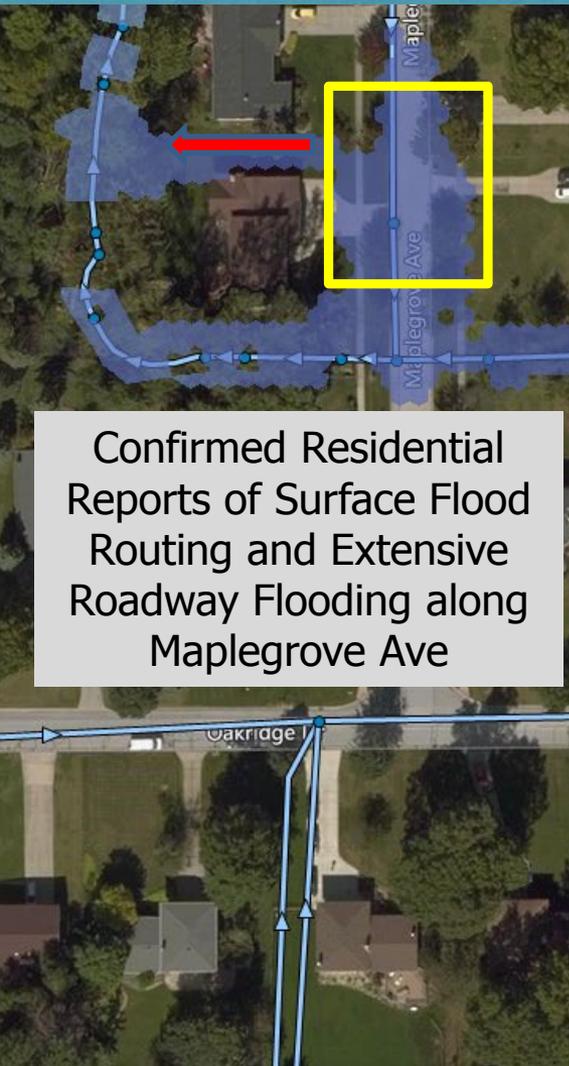


Big Creek North Royalton Problem Area [BCNRo2]



- Model updated with additional detail
- Model verified using customer reports of flooding during historical storm events
- Developing alternatives to mitigate both RSS and LSS flooding

April 16, 2018 Urgent Storm Event: Street Flooding



Confirmed Residential Reports of Surface Flood Routing and Extensive Roadway Flooding along Maplegrove Ave



General Topic: Informative Flooding Photos Building, Street, & Property Flooding



Hemlock Creek, Seven Hills

General Topic: Informative Flooding Photos

Property Flooding



Hemlock Creek, Seven Hills

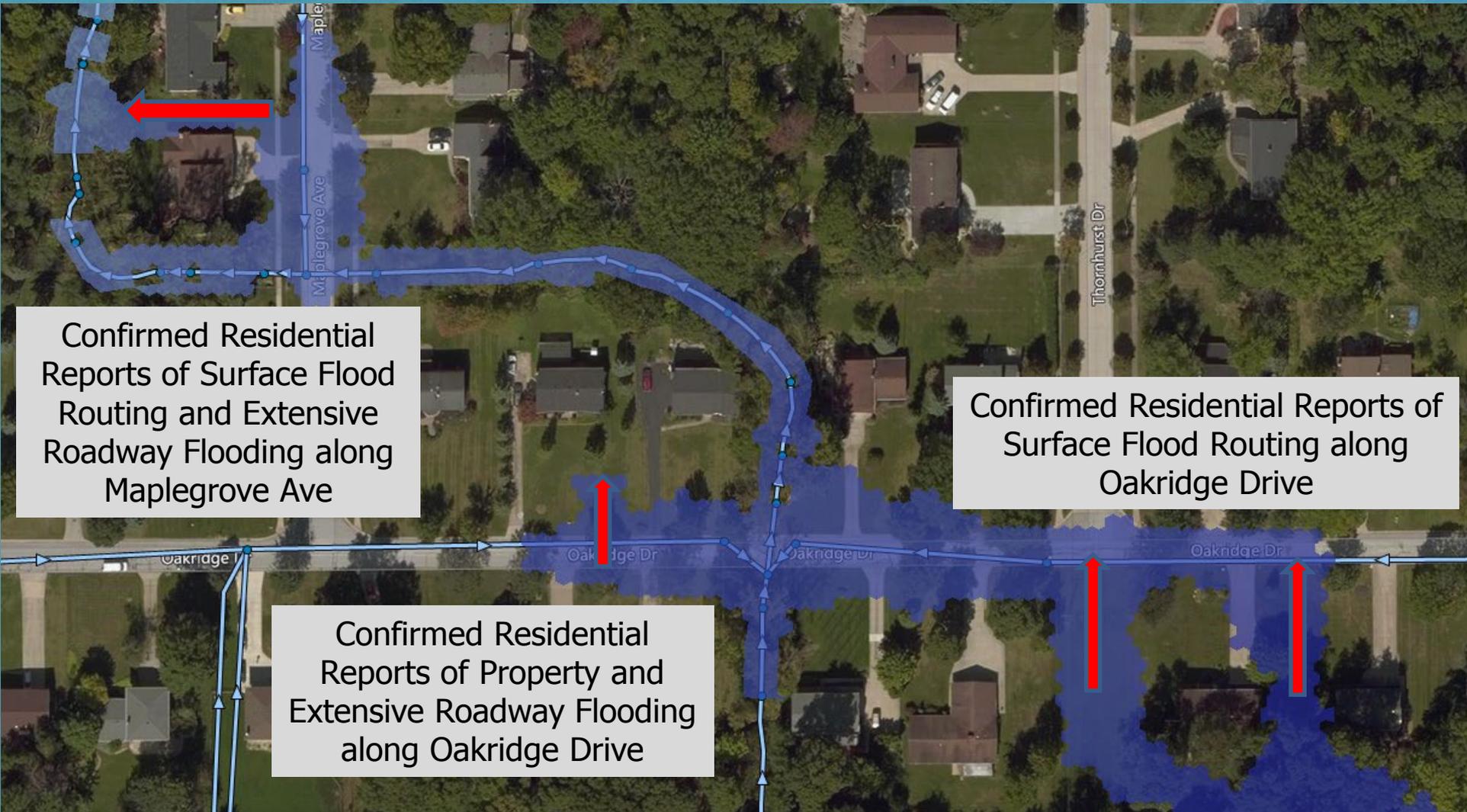
General Topic: Informative Flooding Photos

Building Flooding

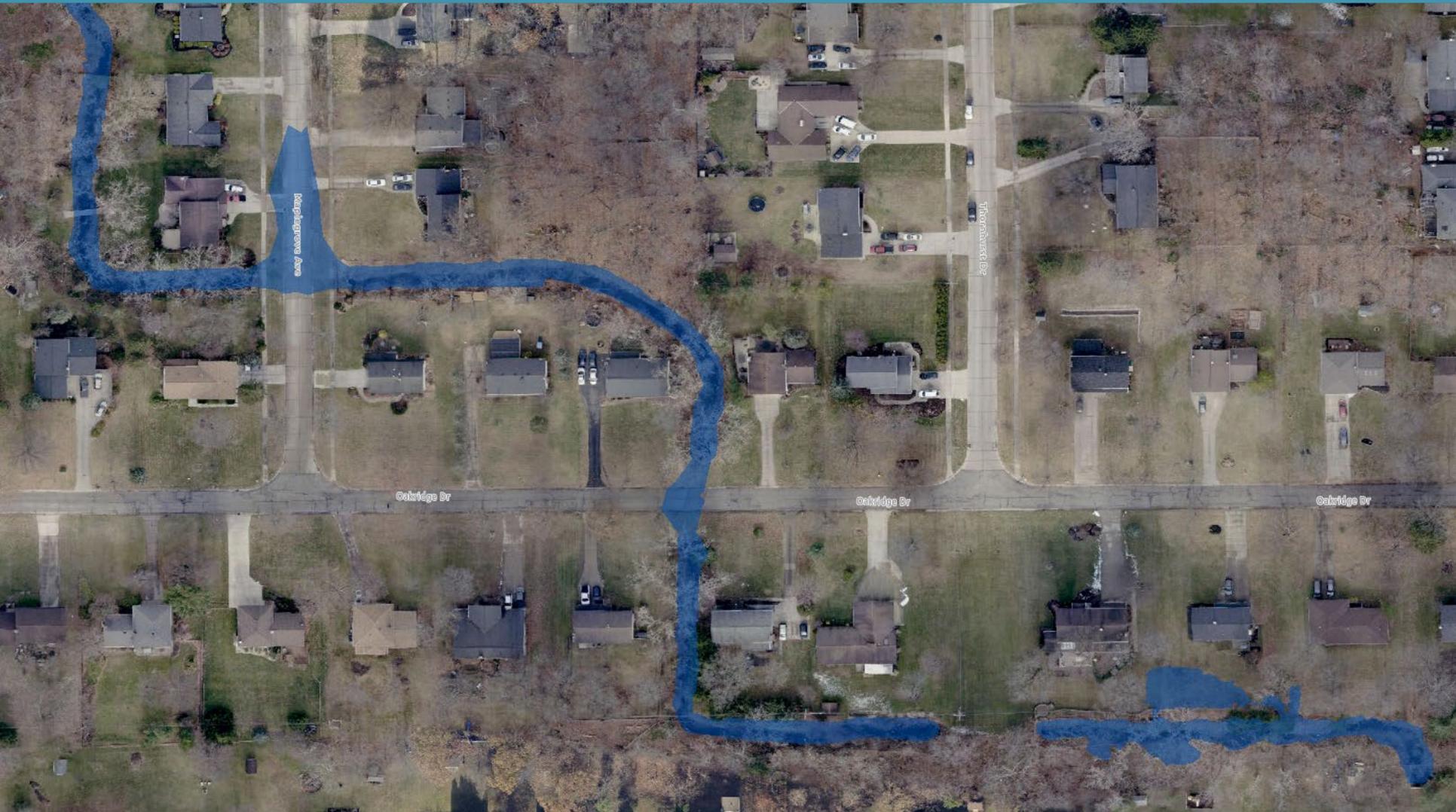


Hemlock Creek, Seven Hills

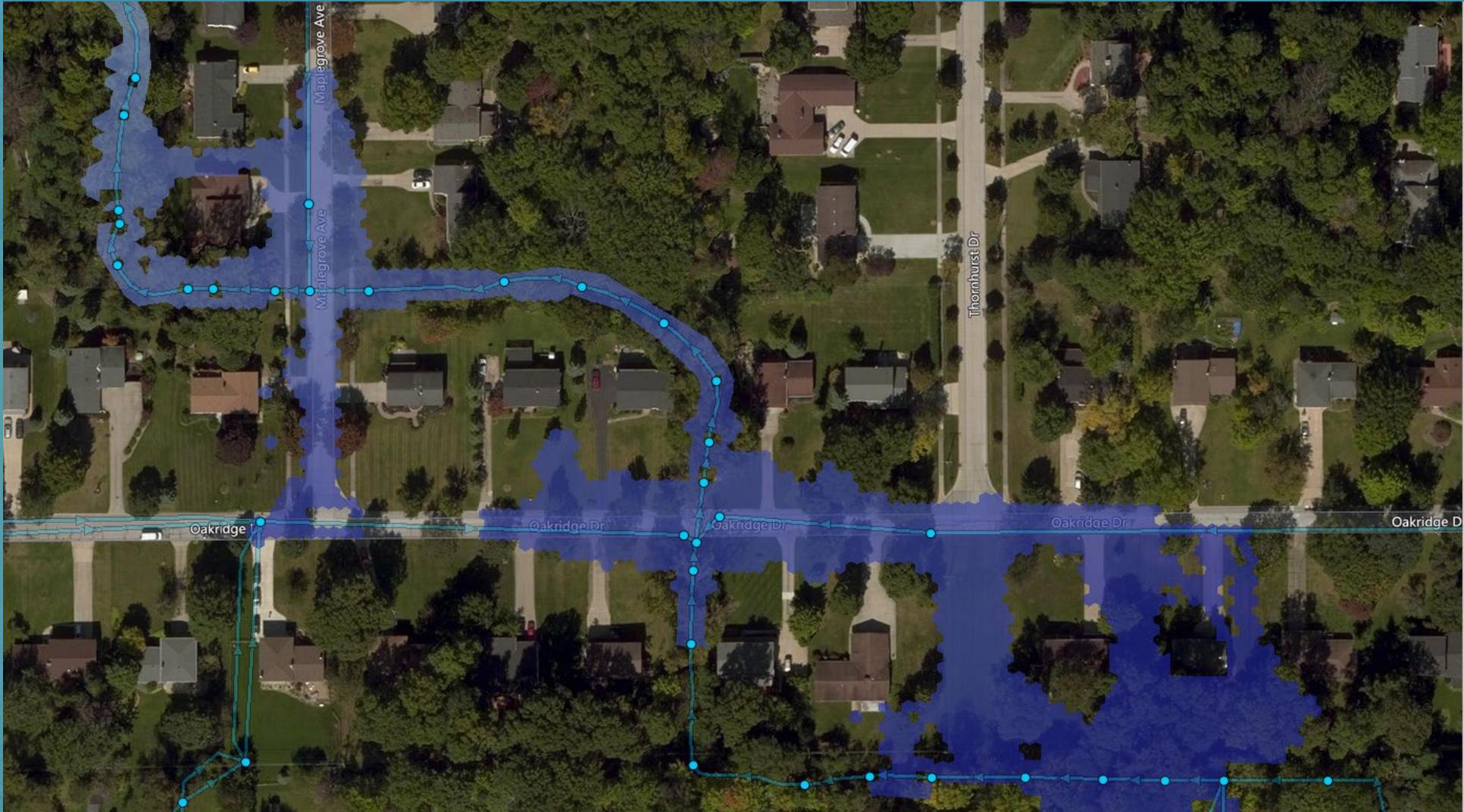
April 16, 2018 Urgent Storm Event: Street Flooding



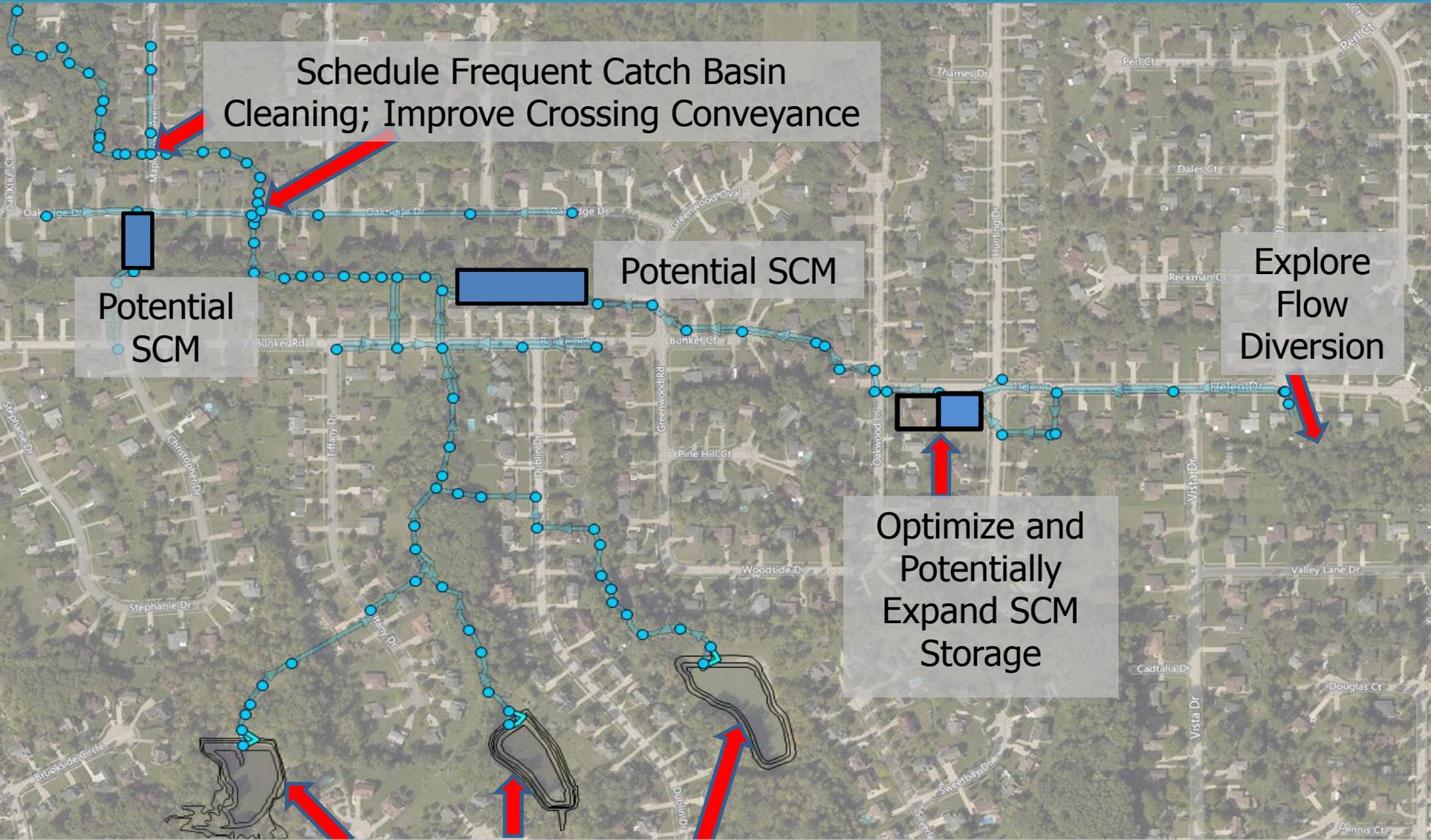
CRN SWMP Model: 10-year design storm



Updated Model: 10-year design storm



BCNR02: Alternative Development & Evaluation



Questions

Maplegrove Avenue
Crossing Outlet



Stormwater Inspection & Maintenance (SWIM)

- Inspection Program
- Root Cause Failure Analysis (RCFA)
- Maintenance Program



SWIM

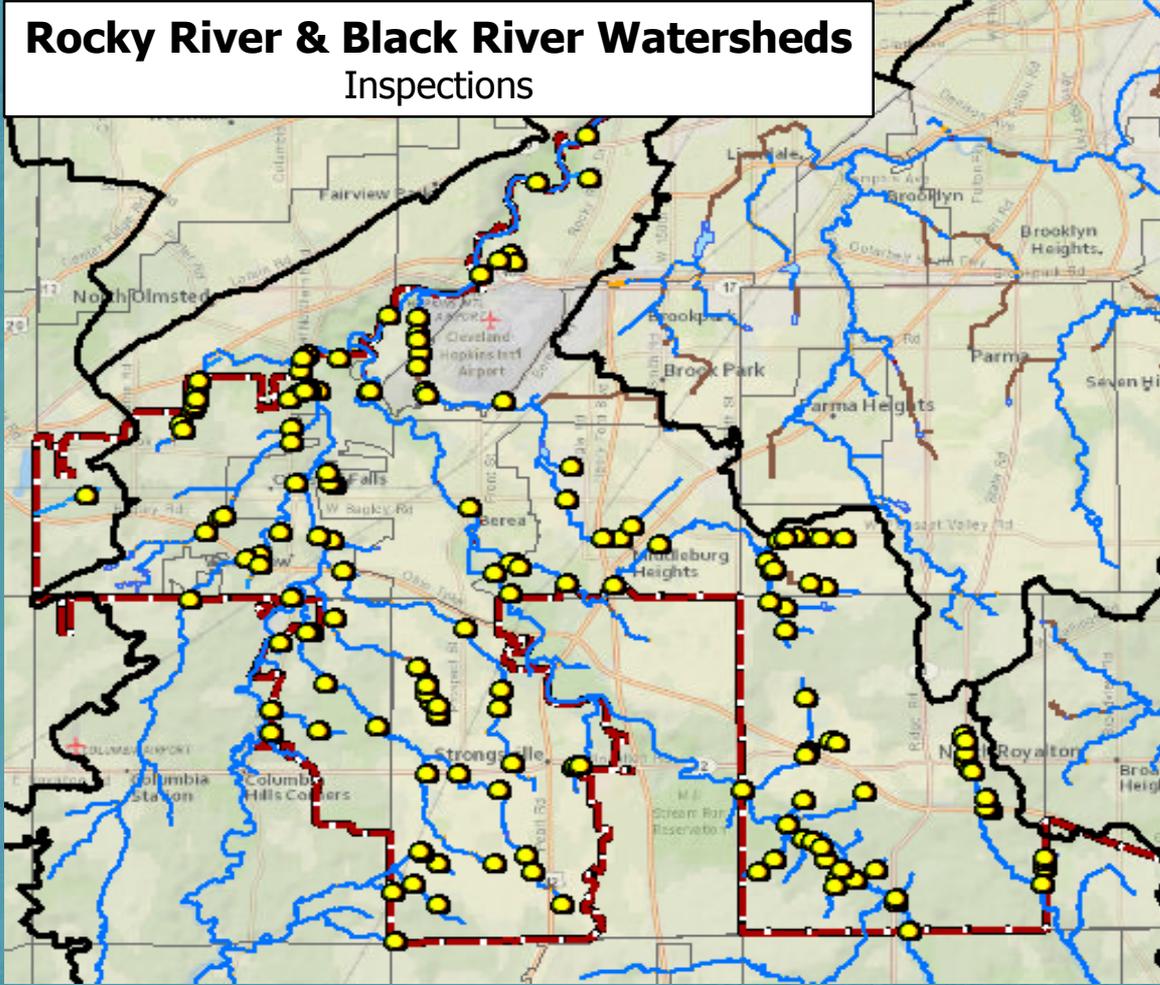
2021 Inspection Program



SWIM

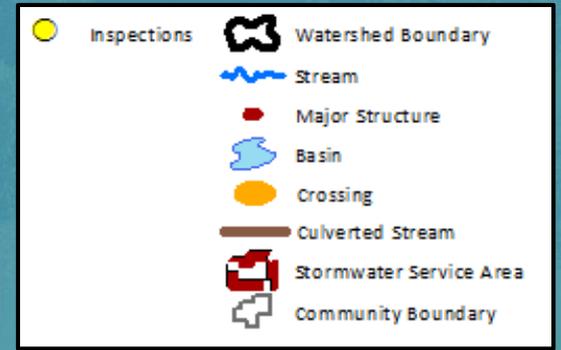
2021 Inspection Program

Rocky River & Black River Watersheds Inspections



Completed Inspections
10/2020 - 02/2021
178 Total Inspections

- 150 SWIM Inspections
- 28 Responsible Party Benchmark Inspections



SWIM

2021 Inspection Program



Headwaters of the Rocky
East Branch, North Royalton

- Failed footbridge, stream has scoured along both sides. Multiple methods of artificial surface protection have also been scoured. Channel is incised (no access to floodplain)





SWIM

2021 Inspection Program



Tributary to Rocky
West Branch,
Sunset Memorial
Park Cemetery,
Olmsted Township



SWIM

Root Cause Failure Analysis (RCFA)

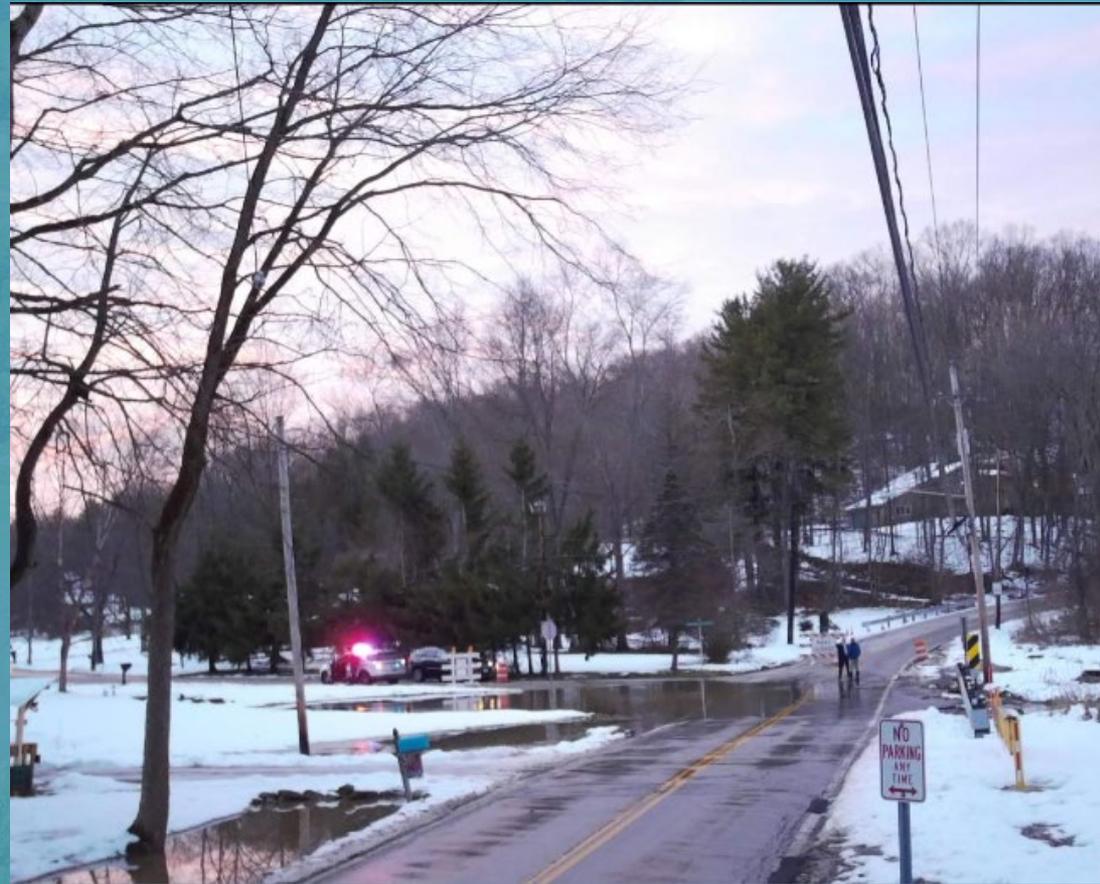


SWIM

Root Cause Failure Analysis (RCFA)

Problem Identification

- Greenhaven Parkway and Riverview Road in Brecksville, Unnamed Trib to Cuyahoga
- Intersection frequently floods
- Sediment vaults require repeated maintenance



SWIM

Root Cause Failure Analysis (RCFA)

Data Collection



- Goal: Find the source of the sediment
- Mapped the LSS, including all outfalls >12" diameter
- Performed STEPL analysis on all stream segments draining to intersection
- Height and length measured on each eroding bank
 - Assigned a Lateral Recession Rate for each bank, ranging from .01' to .5' per year based on bank material and surface protection (lack thereof)
- Calculated volume of sediment from each segment

SWIM

Root Cause Failure Analysis (RCFA)

Study Area

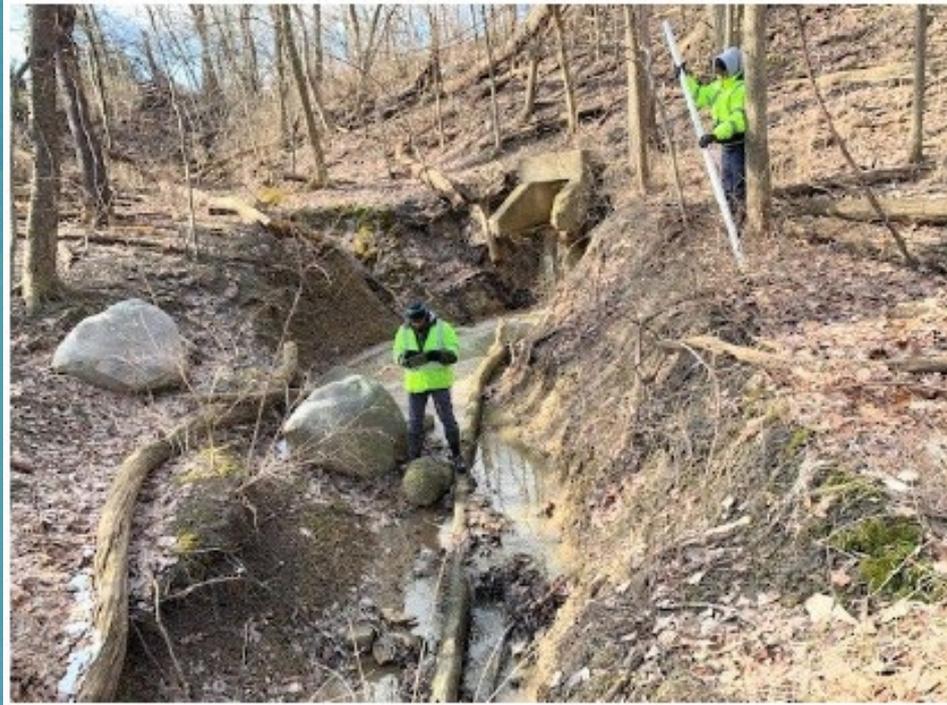




SWIM

Root Cause Failure Analysis (RCFA)

Data Analysis



Brecksville Road culvert outlet
Contributes about 18 tons sediment/yr (6%)



South of Whitewood Rd
Contributes 10 tons sediment/yr (3%)

SWIM

Root Cause Failure Analysis (RCFA)

Recommendations

Address top contributors

- Reconnect Carriage Hill to floodplain
- Stabilize Brecksville Road culvert outlet
- Restore channel south of Whitewood Road to historic location
- Stabilize outfalls north of Whitewood Road
- Make sediment removal maintenance more effective and efficient – utilize existing detention basin
- Opportunities throughout to install engineered log jams, notably north and south of Whitewood Road



SWIM

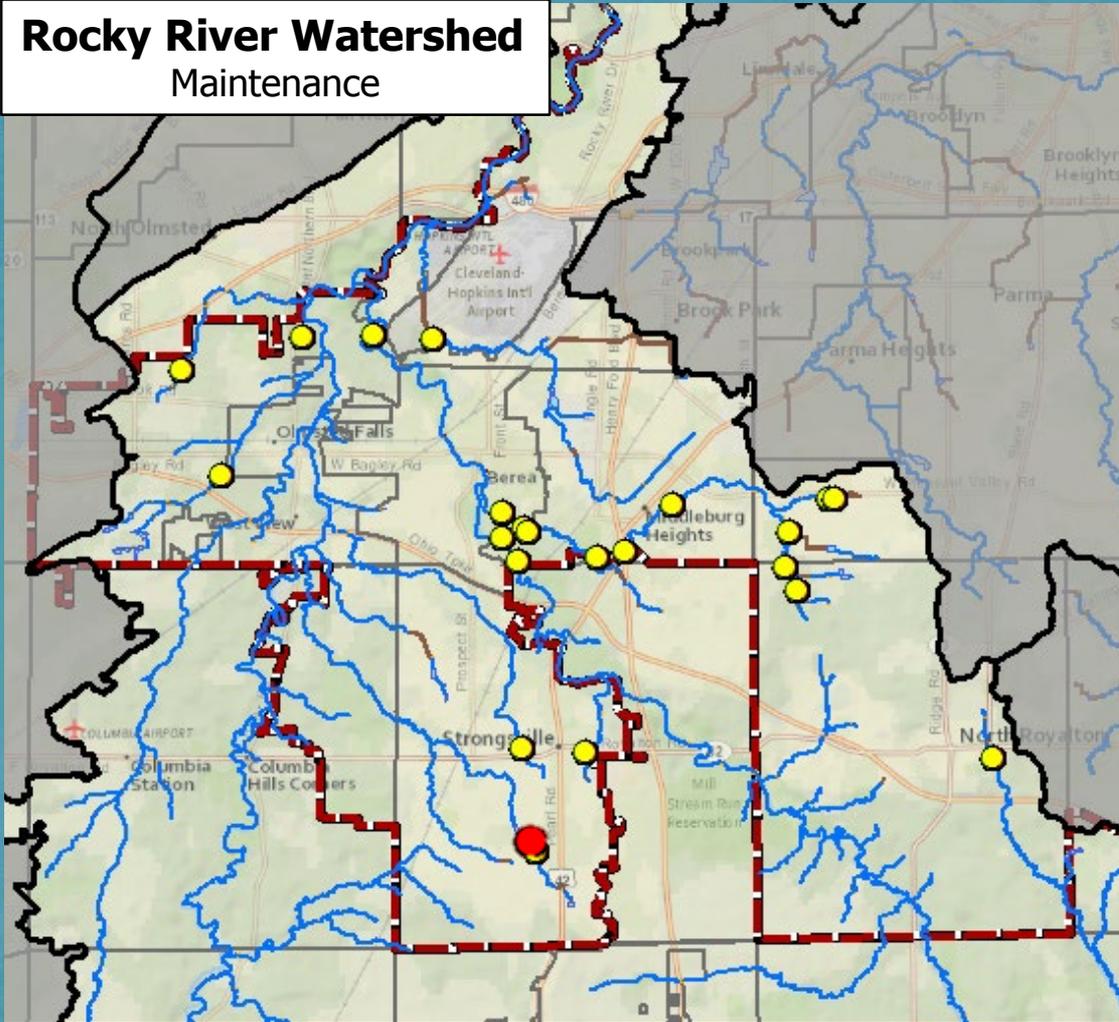
2021 Maintenance Program



SWIM

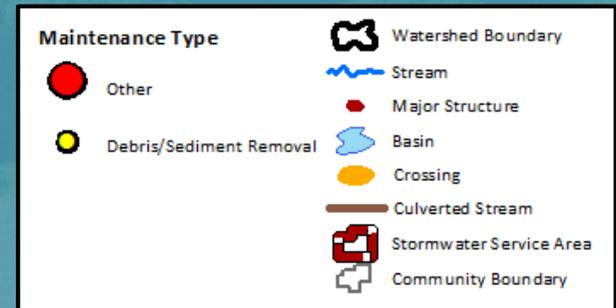
2021 Maintenance Program

Rocky River Watershed Maintenance



10/2020 – 02/2021 Maintenance Projects

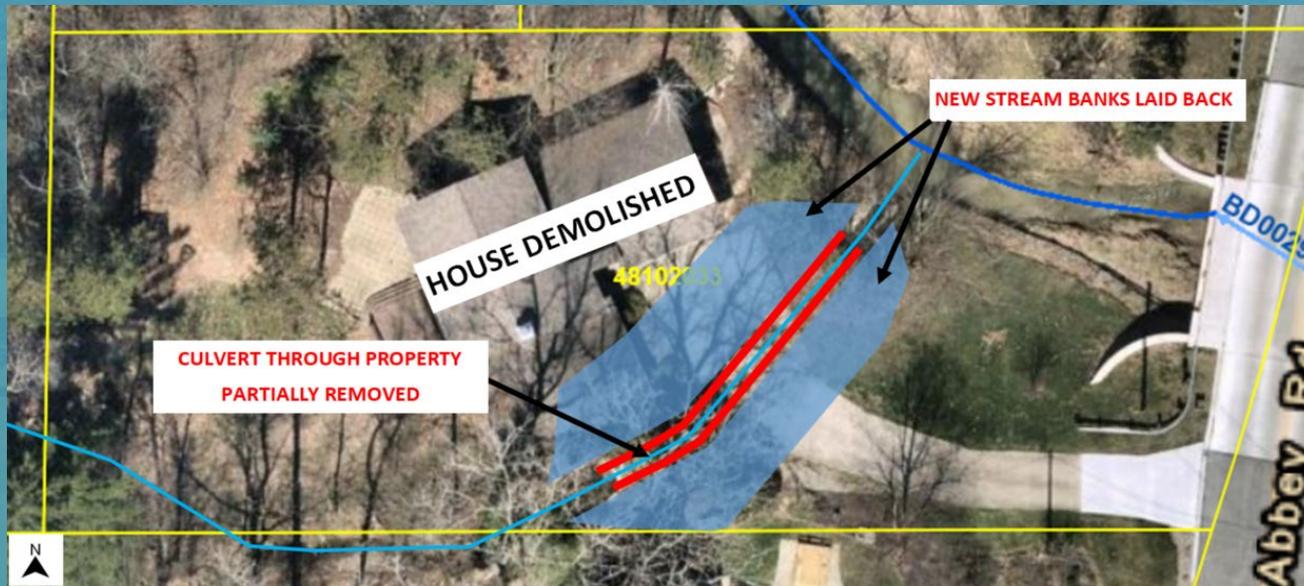
Project Type	Projects (Count)	Debris Removed (CY)	Sediment Removed (CY)
Sediment & Debris	23	1,033	0
Other	1		
Total	24	1,033	0



*no maintenance in Black River Watershed during this time period

SWIM Maintenance Task

Tributary to Baldwin Creek



SWIM Maintenance Task

Minnie Creek Dredging



Questions?

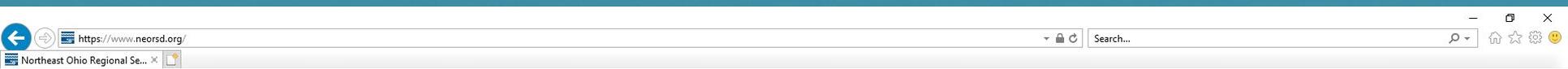


Stormwater Design and Construction Program

Stickney Creek



Stormwater Storymap



NOTICE: Southerly Electrical Infrastructure I

Doing business with us ▸

Industrial Customers ▸

Engineering & Construction

Plan Review

Procurement

Register as a New Vendor /
iSupplier Login

Bids and Proposals: Active,
Closed, and Awarded

Business Opportunity Program:
Get certified

Event Calendar

GovDeals Surplus Items

Capital Improvement Plan

Stormwater Construction
Program

Opportunity Corridor on-site
stormwater management
strategy report

*qualify for a lower
? We can help.*

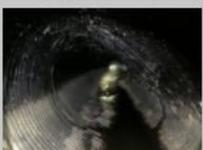
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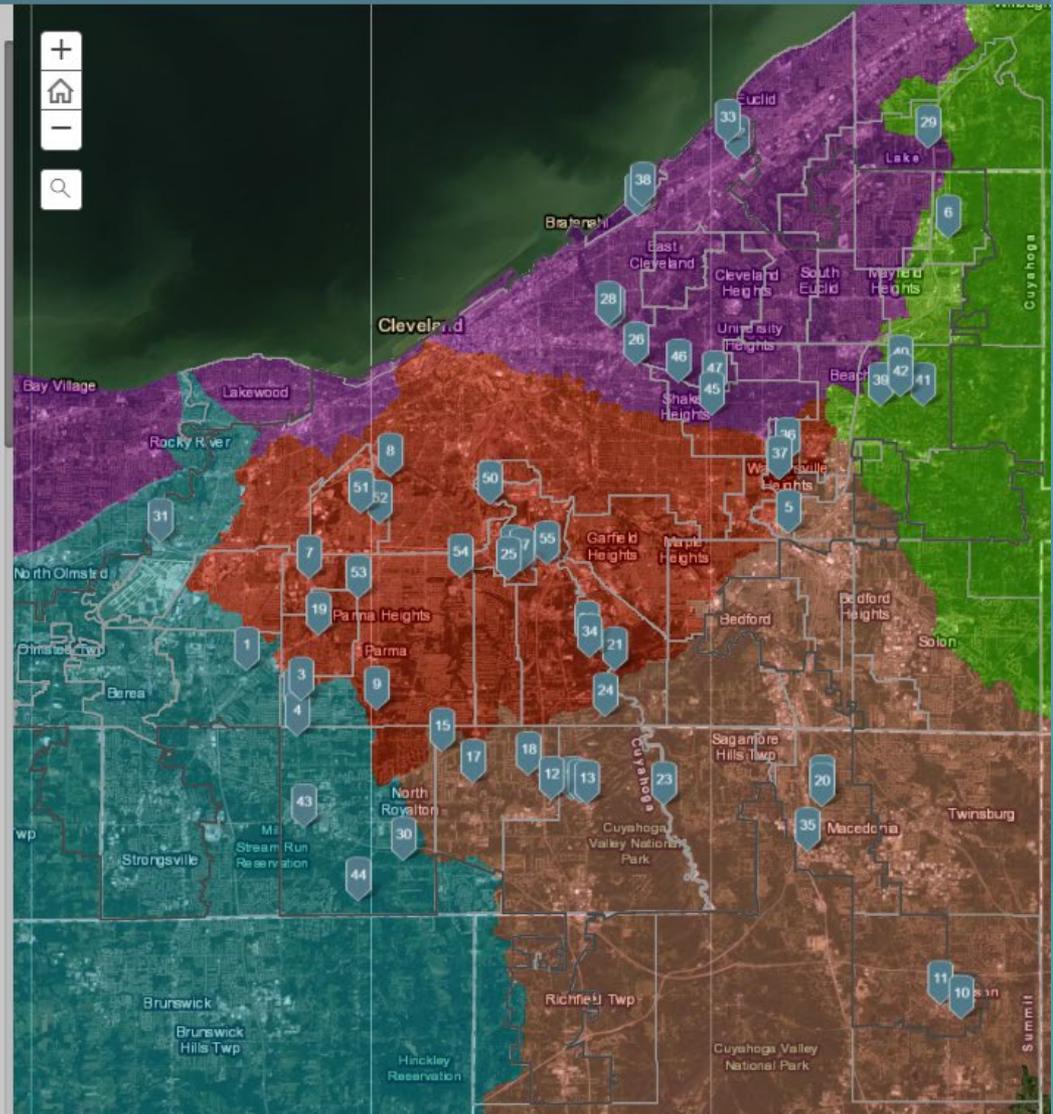
NEORSD Stormwater Design & Construction Program

Navigate using the tabs below and by clicking the images to view more details on our completed, current design, and current construction stormwater projects. Zoom in to view satellite imagery and Regional Stormwater System features watershed.

- All Projects
- Design
- Construction
- Complete

THE EAST OHIO REGIONAL SEWER DISTRICT
REGIONAL STORMWATER MANAGEMENT PROGRAM

 1 Abram Creek / Big Creek Parkway Detention...	 2 Baldwin Creek Bank Stabilization at East...	 3 Baldwin Creek Bank Stabilization at Pleasan...	 4 Baldwin Creek Stabilization Near Abb...
 5 Bear Creek Culvert Removal	 6 Beechers Brook Bank Stabilization	 7 Big Creek Chevrolet Boulevard Detention...	 8 Big Creek Stabilization
 9 Big Creek Stream Stabilization Upstream...	 10 Brandywine Creek - Barlow Community...	 11 Brandywine Creek - Owen Brown Bridge...	 12 Chippewa Creek Bank Stabilization at Harris...
 13 Chippewa Creek Bank Stabilization at Route 21	 14 Chippewa Creek Floodplain Control...	 15 Chippewa Creek Flood Reduction Near Echo...	 16 Chippewa Creek Stabilization at...
 17 Chippewa Creek Stream Stabilization Near...	 18 Chippewa Creek Stream Stabilization Near...	 19 Colombo Park Stream Restoration	 20 Culvert Repair at Berkshire Drive



Projects in Design and Construction

Project Name	City	Next Step/Submittal	Estimated Construction NTP	Estimated Construction Cost
West Creek Bank Stabilization by Sandpiper Drive	Parma	Construction	17-Jun-20	\$ 1,295,090.00
Chippewa Creek Stabilization at Condominiums	Brecksville	Construction	28-Aug-20	\$ 1,282,013.50
Rocky River Trib Re-alignment along Ridge Road	North Royalton	Construction	1-Dec-20	\$ 438,471.10
Pepper Luce Creek Stabilization Near Lander Road	Pepper Pike	Construction	23-Nov-20	\$ 593,034.90
Doan Brook Culvert Debris Removal	Cleveland	Construction	10-Nov-20	\$ 543,900.00
Strongsville SR82 Culvert	Strongsville	Construction	1-Jan-21	\$ 500,000.00
Debris Racks and Access Road Improvements	various	GMP	1-Apr-21	\$ 1,500,000.00
Rocky River Stabilization & Sewer Protection	North Royalton	Bid Docs	1-Sep-21	\$ 839,000.00
Chippewa Creek Stabilization Route 21	Brecksville	Bid Docs	15-Sep-21	\$ 1,295,000.00
Chippewa Creek Stream Stabilization near Broadview Road	Broadview Hts	Bid Docs	29-Sep-21	\$ 1,738,000.00
Baldwin Creek Stabilization near Abbey Road	North Royalton	100% Design	18-Aug-21	\$ 775,600.00
Bear Creek Culvert Improvements	North Randall	Bid Docs	16-Feb-22	\$ 1,021,900.00
Big Creek Flood Reduction near Sprague Road	various	90% Design	17-Nov-21	\$ 742,000.00
Pepper Luce Creek Stabilization Near Gates Mills Blvd	Pepper Pike	90% Design	5-Jan-22	\$ 2,200,000.00
West Creek Stabilization	Brooklyn Hts	90% Design	19-Jan-22	\$ 16,554,000.00
Abram Creek - Big Creek Prky Flood Reduction Phase 1	Middleburg Hts	-	2021	\$ 787,938.00
Brandywine Creek Barlow Dam Improvements	Hudson	70% Design	1-Oct-21	\$ 1,354,000.00
Chippewa Creek Flood Reduction Project Near Echo Lane	Broadview Hts	60% Design	23-Mar-22	\$ 8,200,000.00
Brandywine Creek - Owen Brown Bridge Replacement	Hudson	50% Design	2022	\$ 1,106,500.00
Big Creek Phase 1 BCPA07 - Ridgewood Basins	Parma	50% Design	2-Feb-22	\$ 1,000,000.00
Baldwin - Stormes Drive Basin	Parma	50% Design	16-Mar-22	\$ 2,500,000.00
Abrams Creek Flooding at Sheldon Road	various	FUNDING	2023	\$ 2,000,000.00
Hemlock - Seven Hills Phase 1	Seven Hills	Design RFP	1-Dec-22	\$ 2,000,000.00
Hemlock Creek near Hemlock Road	Independence	D/B RFQ/RFP	2023	\$ 1,200,000.00
Shaker Lakes Dam Modifications: Phase II - Upper Lake Dam	various	Final Design	1-Mar-22	\$ 8,500,000.00
Big Creek Near Ridge Road	Parma	Pre-Design BODR	2023	tdb

For this meeting, we will focus mostly on projects under construction, and briefly discuss in-house design projects.

- 7 projects under construction contract
- 20 projects in some procurement or design phase
- 4 projects under reimbursement contract to community

* Upcoming projects subject to change



What Do Stream Restoration Projects Look Like?

What Do Stream Restoration Projects Look Like?

Beechers Brook Stabilization Project in Mayfield Village:



Stickney Creek Stream Restoration & Utility Repair Project in the City of Brooklyn:



Baldwin Creek Stabilization Project in the City of Parma:

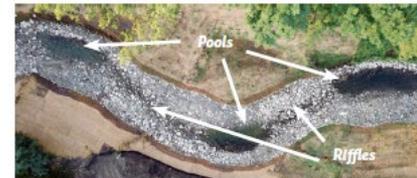


What are the Typical Components of Stream Restoration Projects?



Rocks

Sometimes referred to as “riprap,” rocks are used to stabilize streambanks and line the bottom of the stream to make it less vulnerable to erosion. Sizing of the rocks depends on the amount of flow that the stream experiences. Limestone and sandstone are commonly used.



Pools & Riffles

Pools are deeper sections of the stream usually built on the outside of bends. Riffles are shallow areas of the stream with protruding rocks at the surface. Both structures work together to reduce the energy of the stream.



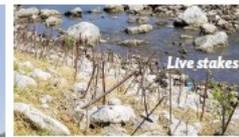
Floodplains

Floodplains are areas where streams can flow out of their main channels during large storm events to provide some temporary flood storage and dissipation of stream energy. After a large storm event, water on the floodplains will infiltrate or slowly flow back into the stream channel. Floodplains also have a positive impact on water quality by allowing sediment and nutrients to settle out and not be carried downstream.

Vegetation

Vegetation typically installed on stream restoration projects include:

- Trees and shrubs;
- Live stakes, which are woody cuttings harvested from trees in the dormant season. They are installed along streambanks and develop dense root systems to help hold the soil together and minimize future erosion;
- Herbaceous plugs and seeding.



Pepper Luce Creek at Lander Road City of Pepper Pike

Pepper Luce Creek Streambank Stabilization

- Arrest streambank erosion
- Protect utility assets
- Create & expand floodplain

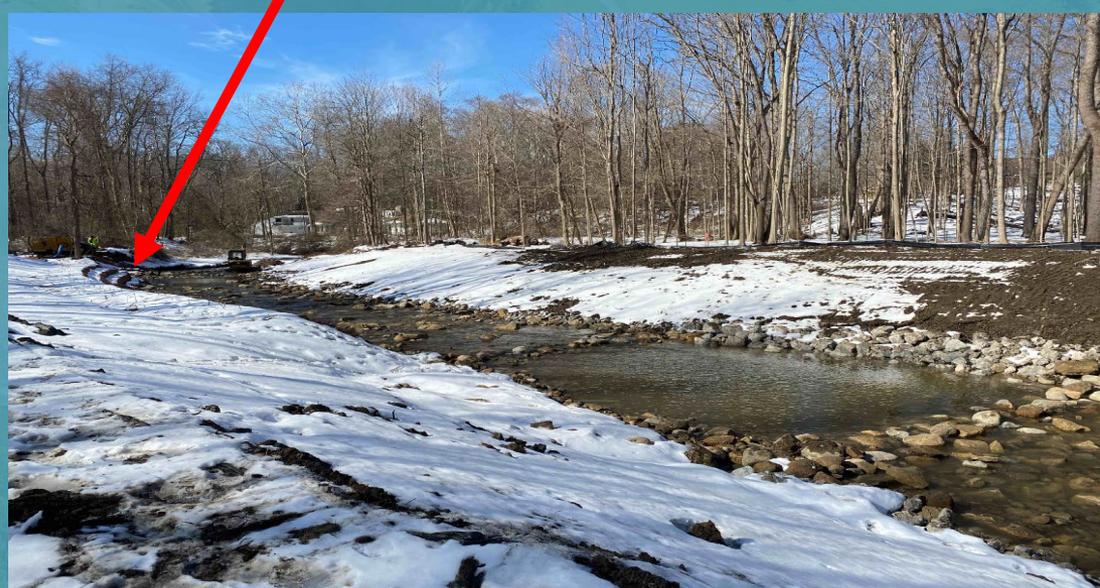
<u>Professional Service Firm:</u>	Jacobs
<u>Contractor:</u>	Tucson
<u>Construction Phase:</u>	NTP - 11/23/20
<u>Bid Estimate:</u>	\$760,000.00
<u>Award:</u>	\$593,034.90



**Failed gabion baskets &
streambank erosion**

Pepper Luce Creek at Lander Road City of Pepper Pike

- Purchased 1 residential property and acquired easements on several others
- Installation of Fabric Encapsulated Soil Lifts (FESLs)
- Expanding floodplain
- Tied into gabions at downstream end of project (had to shorten project due to easement refusal from 1 property owner)



Pepper Luce Creek at Lander Road City of Pepper Pike

before

after



Doan Brook Culvert Debris Removal

Remove 1950 cubic yards



Doan Brook Culvert Debris Removal

Construction Complete

Doan Brook Culvert in Cleveland

University Circle around Euclid Ave and Chester Ave



before



after

Chippewa Creek Stabilization at Condominiums in Brecksville



- *Eroding streambank within 12 ft of the condominiums*
- *Erosion within 6 ft of local sanitary sewer*
- *Stream infrastructure more cost effective than acquisition*
- *Construction Award: \$1,282,013*
- *Excavate Floodplain on left bank*

Chippewa Creek Stabilization at Condominiums in Brecksville



0073_1499_SSCC_11-24-20_Retaining Wall_SW.JPG

West Creek Stabilization by Sandpiper Drive

- *Stream infrastructure more cost effective than acquisition*
- *Large area of property impacted including large trees*
- *Construction Award: \$1,295,090*

West Creek Stabilization by Sandpiper Drive

Construction Complete



City of North Royalton - Ridge Road Repair and Rocky River Tributary Stabilization

Problem: Bank erosion adjacent to Ridge Road

Project benefit to RSS:

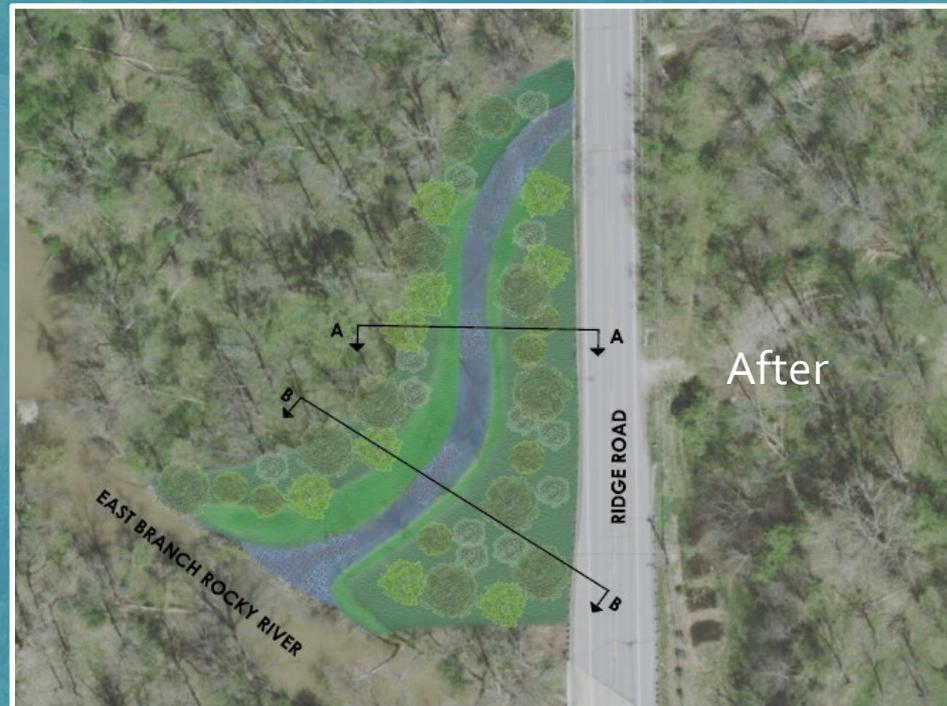
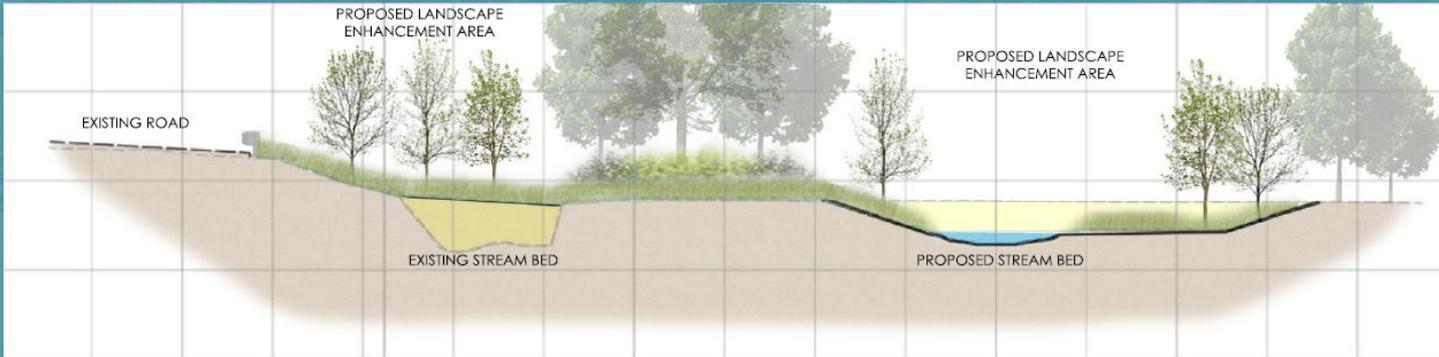
- Reduces sediment deposition
- Creates a new stable stream channel

Construction Award:

\$438,471



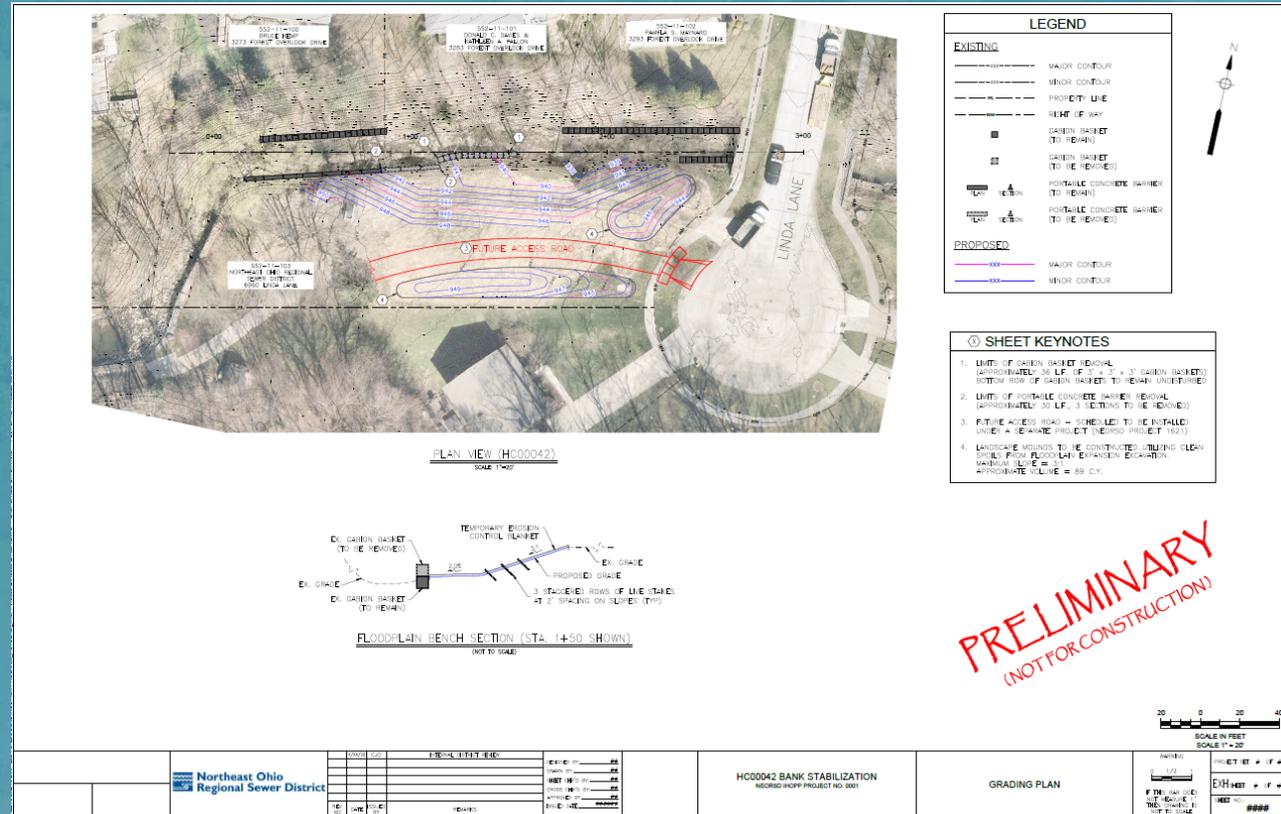
City of North Royalton - Ridge Road Repair and Rocky River Tributary Stabilization



In-House Design Projects

Hemlock Creek in Seven Hills

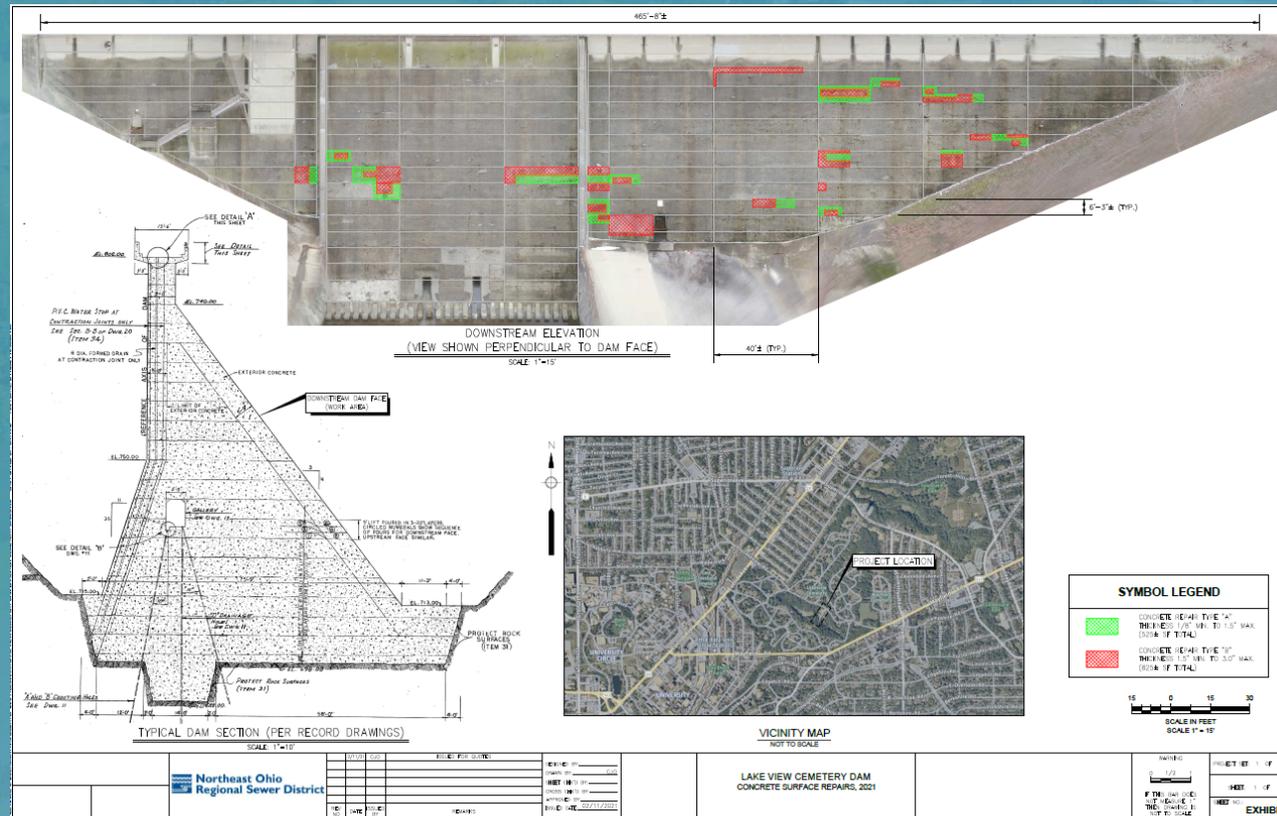
- Excavate and grade south bank of stream to increase cross section and create more floodplain area to reduce energy on north eroding bank
- To be constructed 2nd Qrt 2021



In-House Design Projects

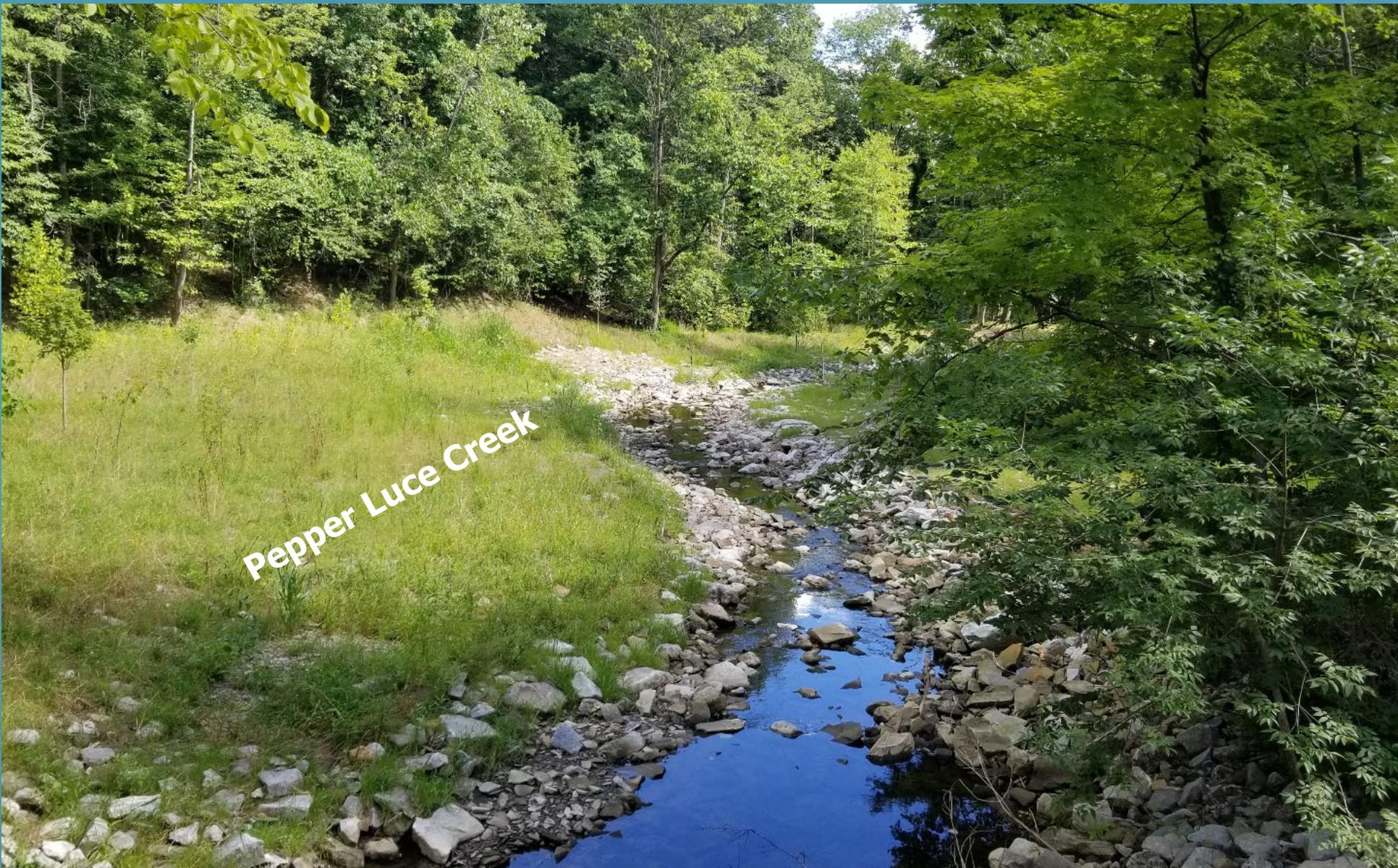
Lakeview Dam Repairs

- ODNR inspection report maintenance items
- Concrete surface repairs on downstream face of dam
- Air vent modifications
- To be constructed 2021



Questions

Pepper Luce Creek





Cost-Saving Programs

- *Crisis Assistance*
 - *Up to \$300 sewer credit*
 - *Experienced financial hardship within last 6 months (loss of job, loss of income, death in family, medical expenses, etc.)*



Cost-Saving Programs

- *Homestead*
 - 65 and older *or* permanently disabled
 - Household income must not exceed \$33,500
- *Affordability*
 - Annual income is at or below 200% of the poverty level

Customer Service: (216) 881-8247

Cost-Savings Programs

NOTICE: March 11, 2021 Final Meeting
March 11, 2021 Final Meeting
discussions and decisions
meeting begins. [Find out more.](#)

Got Questions? FAQ ▶

Billing, Rates & Account Information ▶

Cost-Saving Programs ▶

About Your Sewers: Common Problems and Responsibilities

Contact Us / Ask Us

COVID-19 emergency, and in accordance with House Bill 404, signed into law by Governor DeWine, the committee will be held on March 11, 2021 at 10:00 a.m. The meeting will be attended through video conference that allows the public to electronically observe and hear the proceedings. If you wish to address the committee, please use the Q&A option on the livestream before the meeting begins. [Find out more.](#)

Ways to Save On Your Bill

Homestead

Affordability

Crisis Assistance

Summer Sprinkling

Learn what it takes to
protect our Great Lake

WTL Contact

Meiring Borchers
216.881.6600 Ext. 6159
Cell: 440 409 1766
borcherdsm@neorsd.org



Stormwater Program: Community Resources
<http://www.neorsd.org/communitystormwaterresources.php>