

Watershed Advisory Committee

Cuyahoga River South

March 3, 2020

NORTHEAST OHIO REGIONAL SEWER DISTRICT



REGIONAL
STORMWATER
MANAGEMENT
PROGRAM

Agenda

- Sewer District Updates
- Special Feature – CCS Reimbursements
- Stormwater Master Plan
- Stormwater Inspection and Maintenance
- Stormwater Design & Construction
- Looking Ahead

Program Highlights

Matt Scharver, Deputy Director of Watershed
Programs

Community Cost-Share: 2020

- CCS Funds Balance (1/31/2020) \$ 26,692,552
- 53 projects w/ executed agreement \$ 7,273,159
- 24 projects w/ agreements in progress \$ 2,608,062
- CCS Funds available to Member Communities \$ 16,811,331
- 19 approved allocation agreements \$ 9,378,822

42 of 55 Member Communities currently participating

54 of 55 Member Communities have participated

“Year-One” Funds

Community Cost Share

Title V and the CCS Policy states that communities:

- Must apply for Year One funds by July 1 of Year Five,
 - Unapplied funds will be returned to the RSMP general fund.
-
- Why?
 - Encourage communities to use their funds
 - Communities can only accumulate a maximum of 5 years of funds in their account

“Year-One” Funds

Community Cost Share

- This Year’s “Year One”- January 2013 through December 31, 2016.
 - Litigation temporarily paused the RSMP from September 26, 2013 to December 2, 2015.
- Communities that are at risk of losing funds have had conversations with their WTL. Only a few communities still falls in this category.

“Year-One” Funds

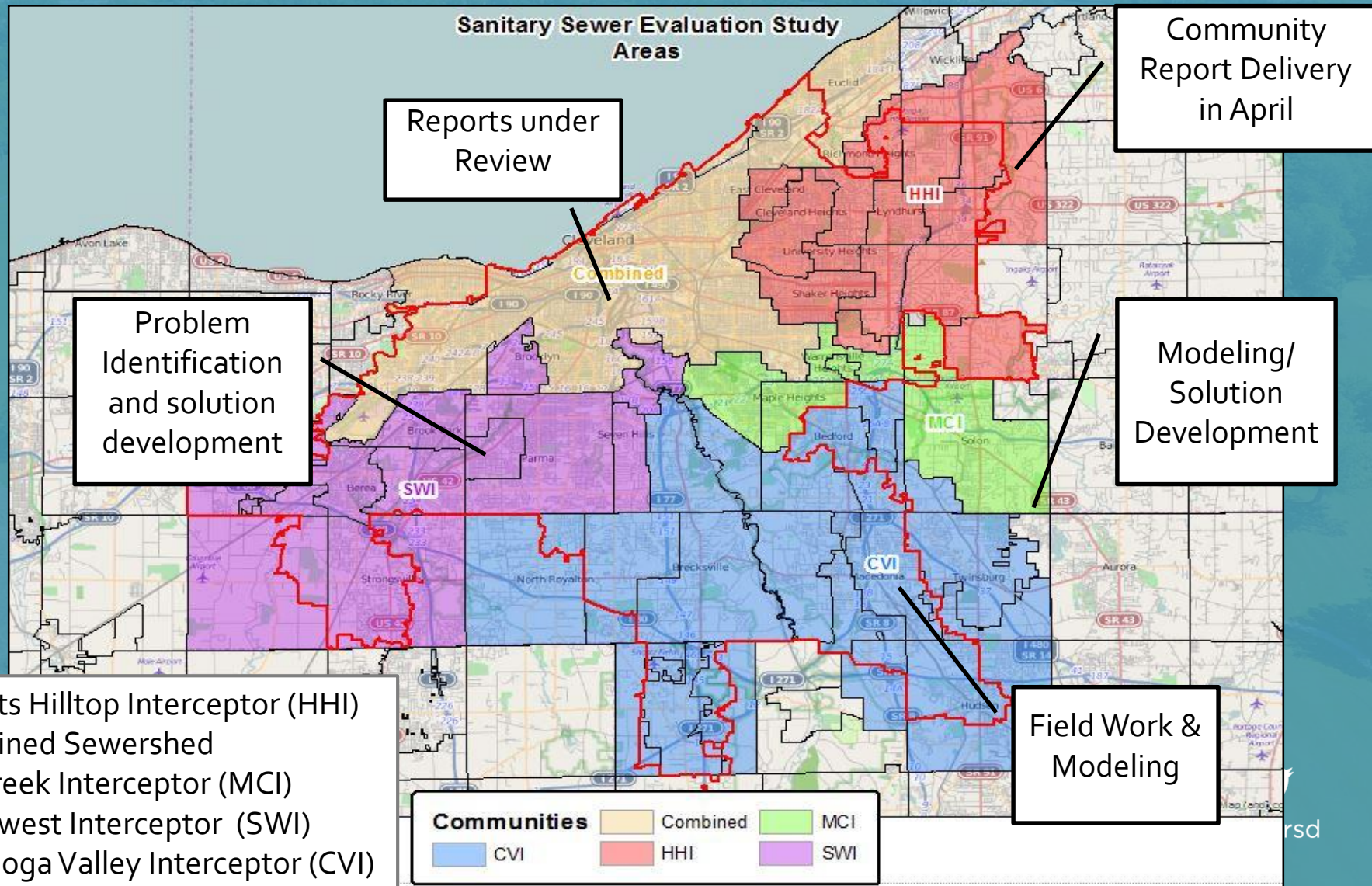
Community Cost Share

- What does this mean going forward?

“Year One”- funds to be applied for	Corresponding “Year Five” apply by date
<i>January 1, 2013- December 31, 2016</i>	July 1, 2020
<i>January 1, 2017- December 31, 2017</i>	July 1, 2021
<i>January 1, 2018- December 31, 2018</i>	July 1, 2022
<i>January 1, 2019- December 31, 2019</i>	July 1, 2023

- District will give your community updates if you are at risk.

Local Sewer System Evaluation Studies



Member Community Infrastructure Program

- Grant funding for local sanitary sewer rehabilitation targeted at reducing basement backups and human health issues
- LSSES early action project alternatives for the Southwest & Cuyahoga Valley Interceptor Area
- RFP will be released March 5 - due on May 11
- MCIP Workshop March 13 (8:30 – 11:30 am) at the Watershed Stewardship Center in Parma

Cost-Saving Programs

- *Summer Sprinkling**
 - *Average winter consumption*
 - *Crisis Assistance**
 - *\$300 sewer credit*
 - *Experienced financial hardship within last 6 months*
- * Does not apply in Summit County*

Cost-saving Programs

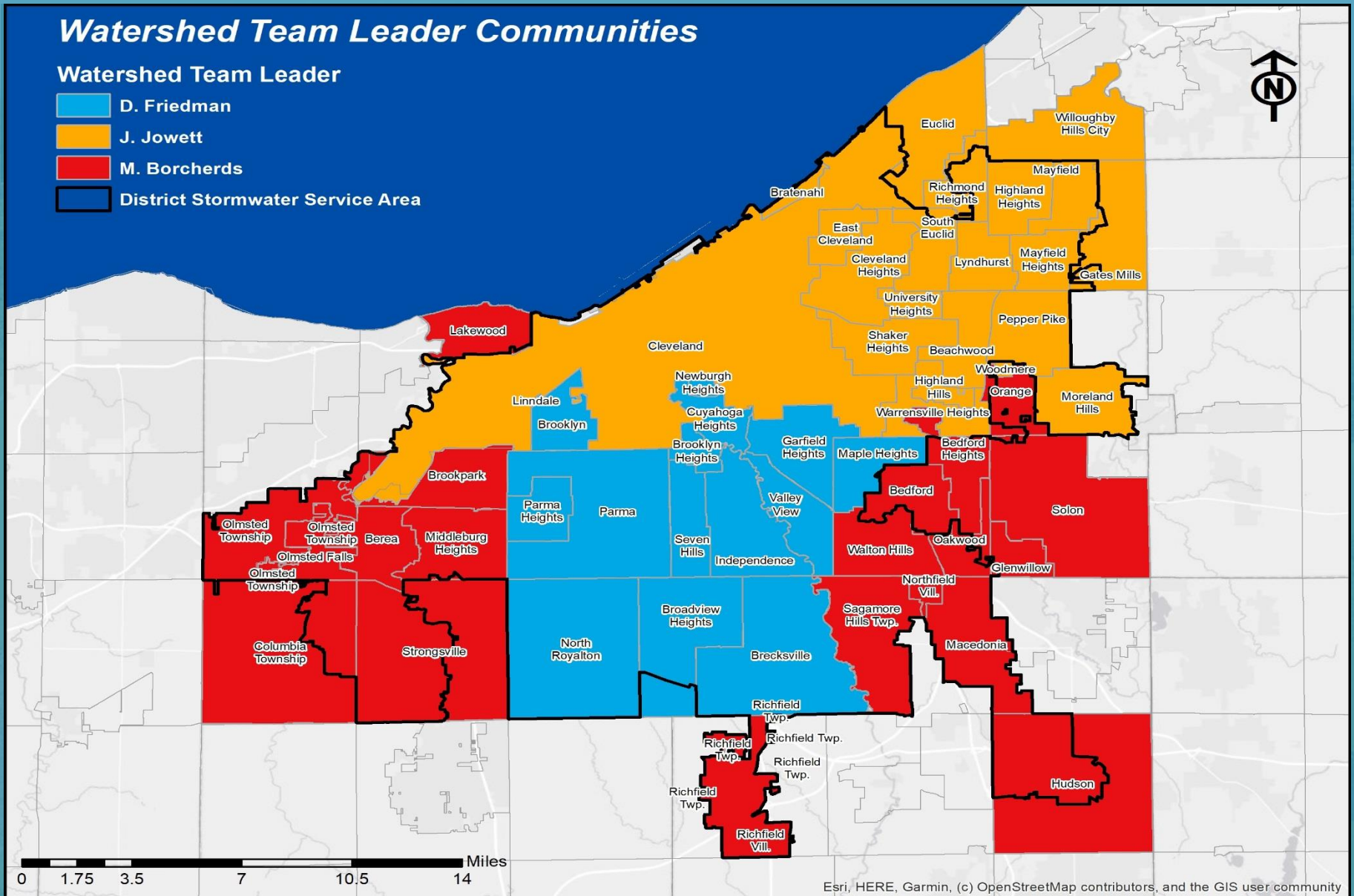
- *Homestead*
 - 65 and older *or* permanently disabled
 - Household income must not exceed \$33,500
- *Affordability*
 - Annual income is at or below 200% of the poverty level

Customer Service (216) 881-8247

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



@Tom Jones

Special Feature

Community Cost-Share - Reimbursement Requests

TIPS

- ✓ Review the reimbursement request requirements prior to starting the project to ensure collection of the proper documents as the project progresses
- ✓ Reimbursement Requests can be submitted as the project progresses, it is not necessary to wait for project completion to submit
- ✓ Email the submission to the Grant Programs Administrator

Linda Mayer

MayerL@neorsd.org

Special Feature

Community Cost-Share - Reimbursement Requests

A complete
Reimbursement Request
submission will include:

✓ Reimbursement Request
Cover Sheet


	<i>Community Cost-Share Program Reimbursement Request</i>
Community Cost-Share Program REIMBURSEMENT REQUEST - COVER SHEET	
Project Information	
Member Community: _____	
Project Title: _____	
Amount Requested: _____	
P.O. #: _____	
Authorized Signature	
I certify that the costs outlined in this reimbursement request have been incurred in accordance with the approved project proposal as set forth in the Community Cost-Share agreement document(s). Furthermore, I affirm that the information contained herein is, to the best of my knowledge and belief, accurate and complete.	
Name (print or type): _____	
Title: _____	
Telephone Number: _____	
Email Address: _____	
Signature: _____	
Date: _____	
Rev 5/2016	

Special Feature

Community Cost-Share - Reimbursement Requests

A complete
Reimbursement Request
submission will include:

- ✓ Reimbursement Request
Cover Sheet
- ✓ Reimbursement Request
Deliverable Expense Worksheet
w/supporting documentation



Community Cost-Share Program
Reimbursement Request

Community Cost-Share Program
REIMBURSEMENT REQUEST – DELIVERABLE EXPENSE WORKSHEET

Member Community: _____
Project Title: _____
P.O. #: _____ Request Date: _____

Instructions:
Record all expenses and attach relevant procurement documentation, such as an itemized bill, receipt, invoice, time card along with proof of payment, such as a credit card receipt, cancelled check, and/or other documentation to substantiate purchase and compensation as deemed acceptable by the NEORS.

Direct all Community Cost-Share reimbursement questions and reports to the Watershed Programs Department's, Watershed Funding Administrator, Linda Mayer, 440-253-2147, mayerl@neorsd.org.

PROJECT DELIVERABLE	Cost per Unit	Total Units	Total Cost	Details

Rev 5/2016

Special Feature

Community Cost-Share - Reimbursement Requests

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Reimbursement Request
submission will include:

✓ Reimbursement Request
Cover Sheet

✓ Reimbursement Request
Deliverable Expense Worksheet
w/supporting documentation

✓ Reimbursement Request
Progress Report



*Community Cost-Share Program
Progress Report*

Community Cost-Share Program PROGRESS REPORT

Instructions:

Provide a summary of the accomplishments with respect to objectives, degree of completion based on the Project application, and any problems encountered. Progress Reports must be submitted within 30 days of written request from the Watershed Team Leader and as an attachment to all Reimbursement Requests. Progress Reports submitted with the Reimbursement Request reflect the accomplishments between Reimbursement Requests.

Project Information

Member Community: _____

Project Title: _____

Is the project complete? _____ If yes, is this the final reimbursement request? _____

Add additional page(s) to respond to the following questions:

- 1) Summarize progress and/or accomplishments during this reporting period as related to your project implementation schedule. (500 word maximum)
- 2) Difficulties and delays encountered during this reporting period. (500 word maximum)
- 3) Describe progress towards Project tasks. (500 word maximum)

Authorized Signature

I certify that the information in this Progress Report is accurate and reflects current status of the Project. Furthermore, I affirm that the information contained herein is, to the best of my knowledge and belief, accurate and complete.

Name (print or type): _____

Title: _____

Telephone Number: _____

Email Address: _____

Signature: _____

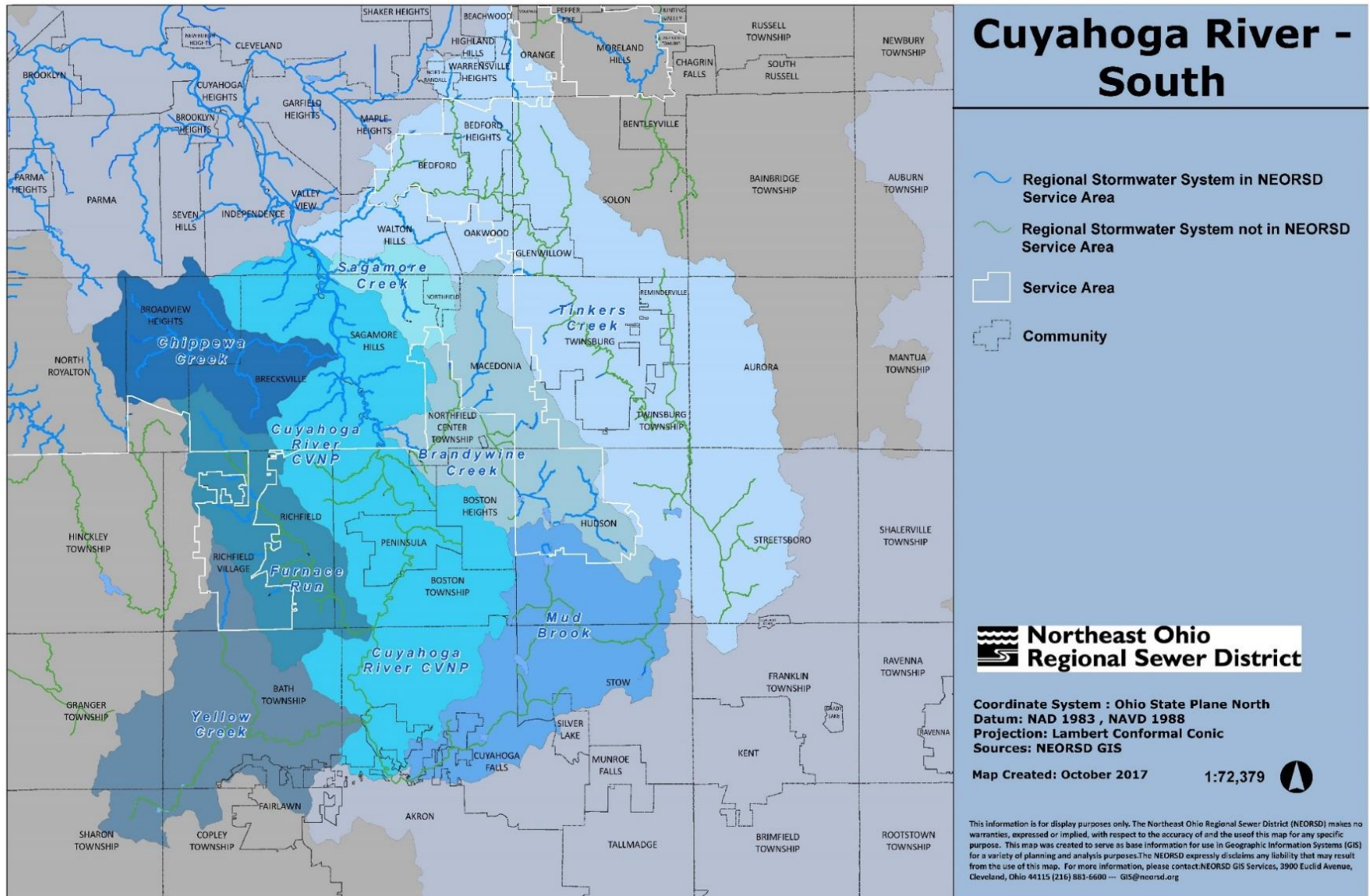
Date: _____

Questions



Linda Mayer
Grant Programs Administrator
MayerL@neorsd.org
216-253-2147

Stormwater Master Plan



Implementing Master Planning Recommendations

Baseline Recommendations

- Policy recommendations to community
 - Flood Damage Prevention Ordinance: Compensatory Storage/No-Net Loss
 - Riparian Setback Ordinance
 - Stormwater Management Ordinance - Reduce runoff volumes for redevelopment projects based on pre-redevelopment impervious area

Reach out to WTL if Interested in Pursuing Updates



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Implementing Master Planning Recommendations

Baseline Recommendations

- Small bank/channel protection, monitor, or structural repairs:
 - Small Scale SWIM Project
 - SW Construction Plan Prioritization
 - Refer recommendation to owner to implement

Implementing Master Planning Recommendations

System Enhancement Recommendations (large RSS projects):

- SW Construction Plan prioritization – Problem Area preferred alternative were:
 - Prioritized and scheduled,
 - Identified for property acquisition,
 - Submitted for advanced planning, or
 - Deferred

Implementing Master Planning Recommendations

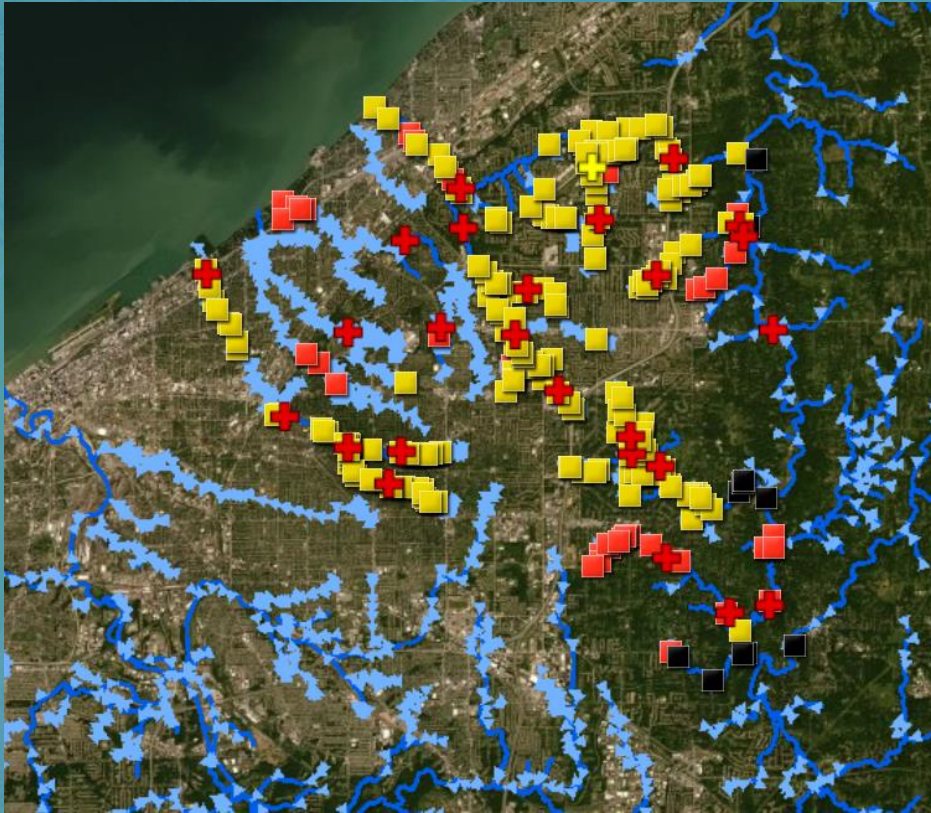
Community Reports:

- Overview of SWMP study
- Planning level recommendations within each community for...
 - Baseline projects
 - System Enhancements

Delivered to each Community
- Option to request meeting to review -

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 Report



Questions



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@Cuyahoga Valley Scenic Railroad



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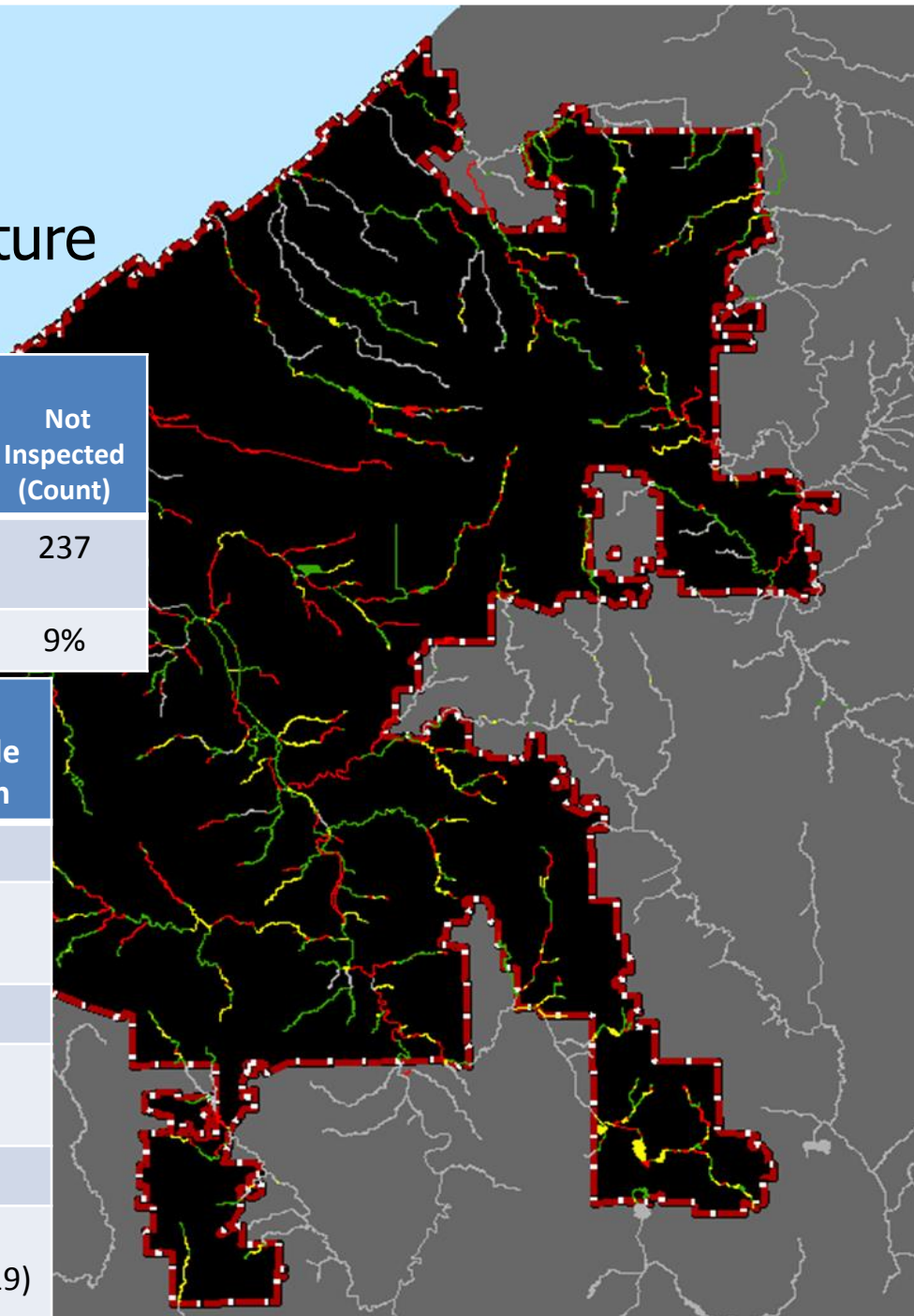
SWIM

March 2020

SWSA State of the Infrastructure Structural Condition: B-

RSS	Total (Count)	Good Condition (Count)	Acceptable Condition (Count)	Not Acceptable Condition (Count)	Not Inspected (Count)
Total	2,811	1,689	426	459	237
Percent	100%	60%	15%	16%	9%

Asset Class Type	Overall Grade	Assets Inspected	Not Acceptable Condition
Crossings	B-	1,057	191
Culverted Streams	B-	156	26
Basins	B-	96	15
Major Structure	B-	15	4
Streams	B-	1,250	223
Total	B-	2,574 (91%)	459 363 (3/2019)





Stormwater Service Area

Structural Condition Score

Not Inspected

Good

Acceptable

Not Acceptable

State of the Infrastructure

Structural Condition: B-

RSS	Total (Count)	Good Condition (Count)	Acceptable Condition (Count)	Not Acceptable Condition (Count)	Not Inspected (Count)
Total	685	403	120	143	19
Percent	100%	59%	17%	21%	3%

Asset Class Type	Overall Grade	Assets Inspected	Not Acceptable Condition
Crossings	B-	269	56
Culverted Streams	C+	24	7
Basins	B-	21	4
Major Structure	B-	21	2
Streams	B-	350	74
Total	B-	666	143 (105 3/2019)

State of the Infrastructure: BTU and Crossing Indian Creek

Asset #: IC00068
Macedonia: S Bedford Road
BTU Structural BRE= 16
Debris & Sediment BRE=15



State of the Infrastructure: Crossing Walton Hills

Asset #: TS00105
Walton Hills: SR 8
Stream Structural BRE= 9
Sediment & Debris BRE= 12



State of the Infrastructure: Crossing Brecksville

Asset #: CL00346

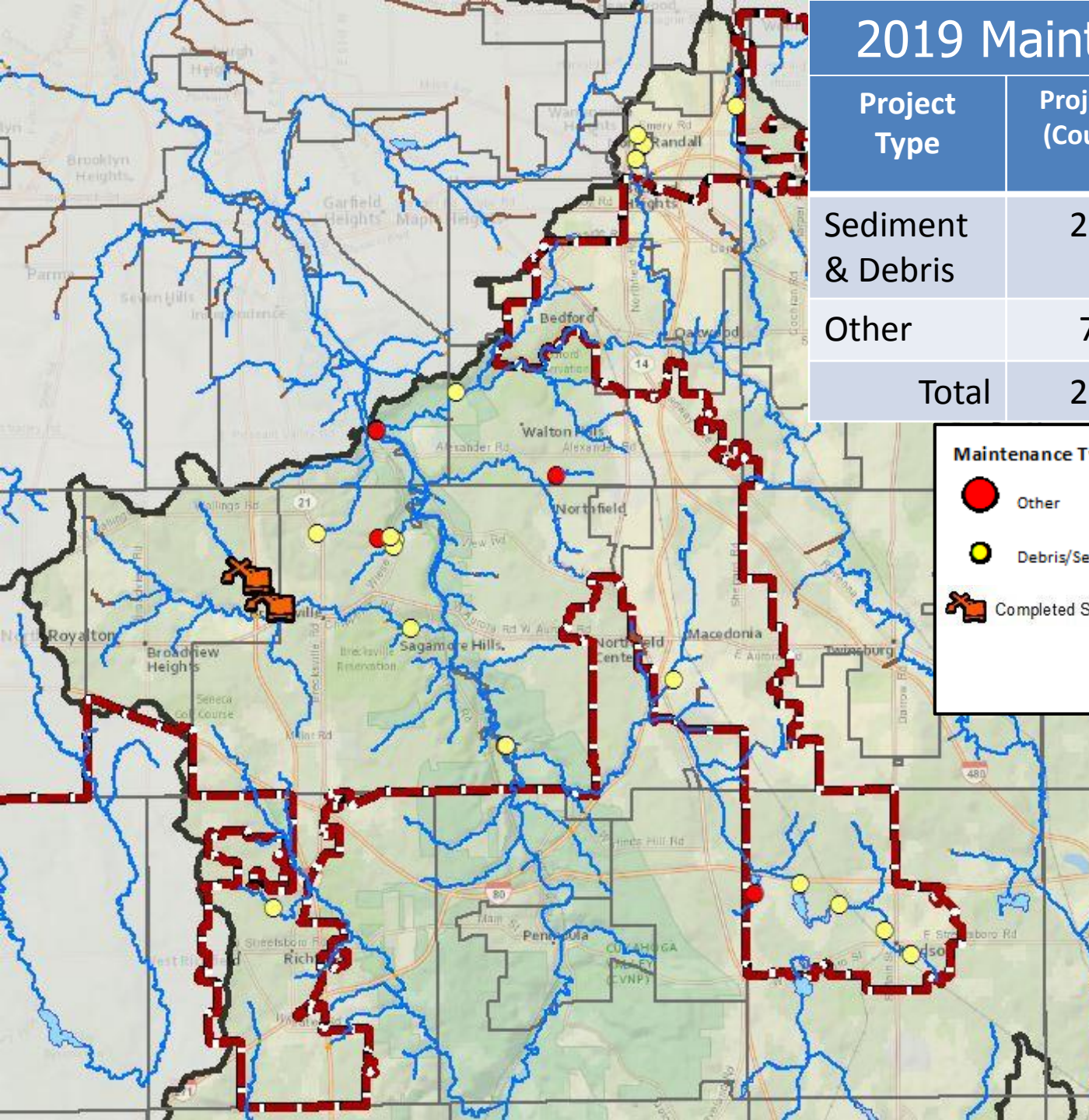
Brecksville: Riverview Road

Structural BRE= 24



2019 Maintenance Projects

Project Type	Projects (Count)	Debris Removed (CY)	Sediment Removed (CY)
Sediment & Debris	20	338	556
Other	7		
Total	27	338	556



Maintenance Type

- Other
- Debris/Sediment Removal
- Completed Small Scale Project
- Watershed Boundary
- Stream
- Major Structure
- Basin
- Crossing
- Culverted Stream
- Stormwater Service Area
- Community Boundary

Small Scale Maintenance Project: Dredging Cuyahoga River Mainstem Southeast

Asset #: CE00017, CE00018, CE00019
Sagamore Hills Twp: Ohio & Erie Canal, CVNP
Sed & Debris BRE=15, 9, 9 (respectively)



Small Scale Maintenance Project: Streambank Stabilization Chippewa Creek

Asset #: CC00082

Broadview Heights: Westminster Drive

Stream Structural Condition = 4

Project Cost: \$48,000



Small Scale Maintenance Project: Streambank Stabilization Chippewa Creek

Asset #: CC00080

Broadview Heights: Harris Road

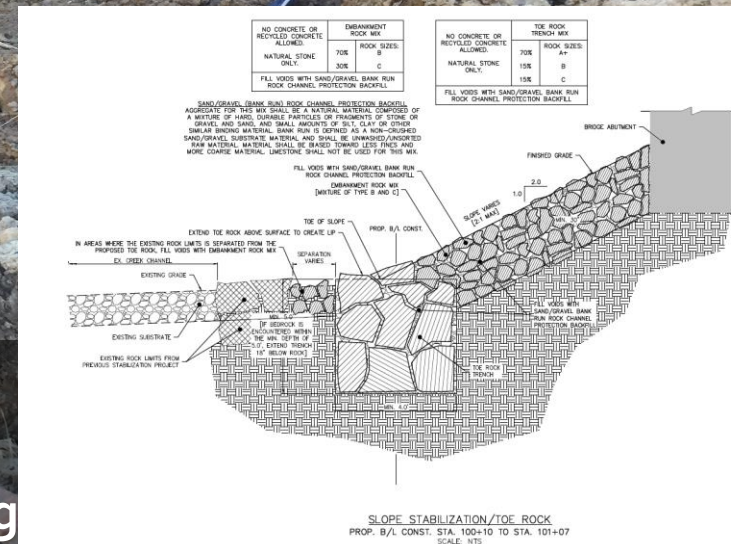
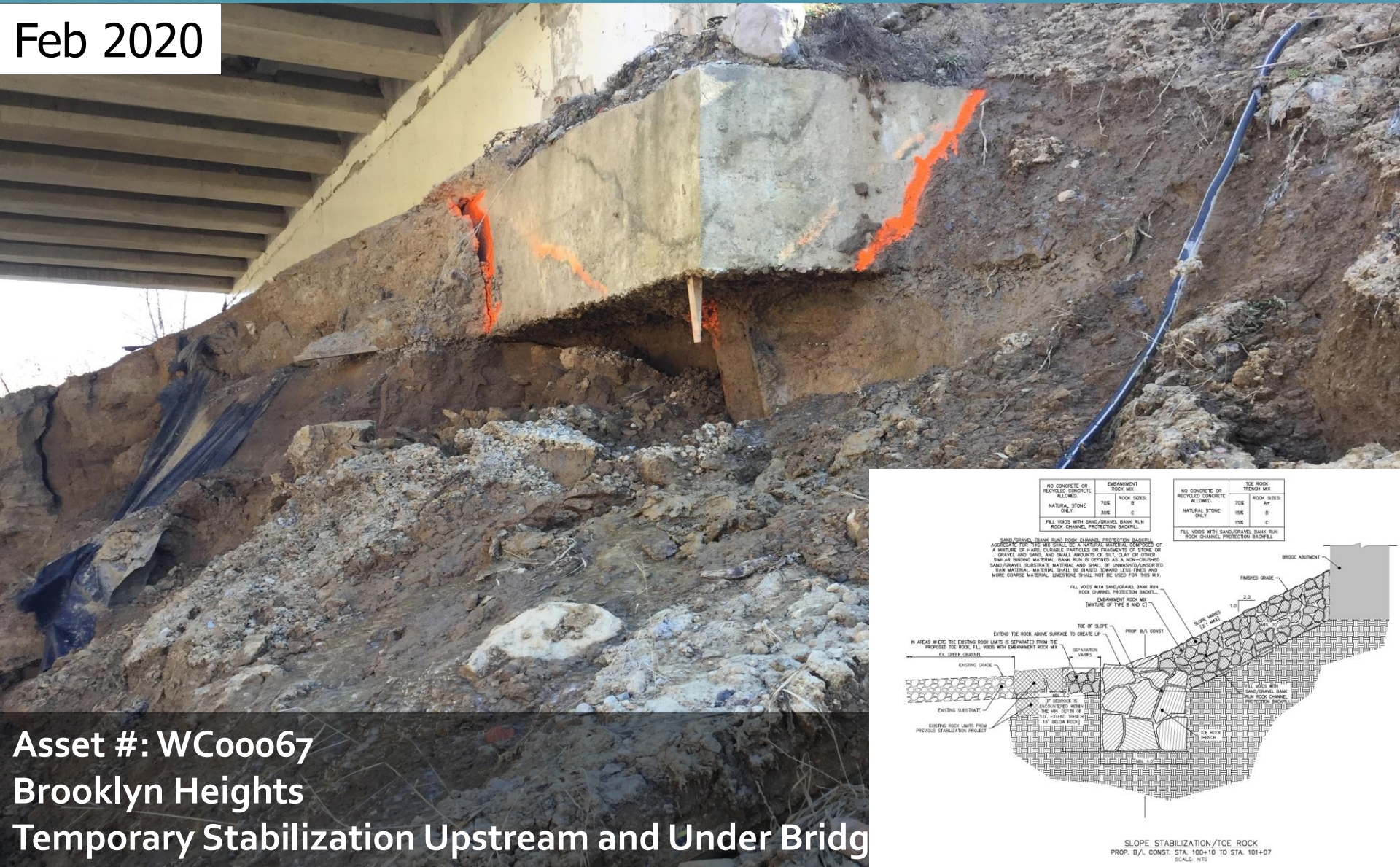
Stream Structural Condition = 4

Project Cost: \$32,600



Small Scale Maintenance: Temporary Streambank Stabilization West Creek [Planned Small Scale Project]

Feb 2020



Asset #: WC00067
Brooklyn Heights
Temporary Stabilization Upstream and Under Bridge

Monitoring Landcaster Bridge

Feb 2016



Questions



Stormwater Design and Construction Program

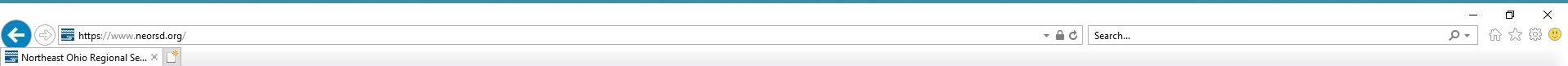


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Stormwater Storymap



Residential | Business | Careers | Industrial

About Us ▾ Customer Service ▾ Business ▾ Community ▾ Stormwater ▾ Careers ▾ Blog

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.

programs

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 culverts, conduits, etc). Use the "Zoom To" drop down menu to locate your watershed.

All Projects Design Construction Complete



1 Abram Creek / Big Creek Parkway Detention...



5 Brandywine Creek - Barlow Community...



9 Chippewa Creek Stabilization at...



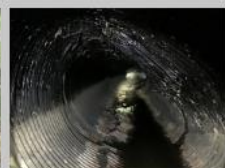
2 Baldwin Creek Stabilization Near Abb...



6 Brandywine Creek - Owen Brown Bridge...



10 Chippewa Creek Stream Stabilization Near...



3 Bear Creek Culvert Removal



7 Chippewa Creek Bank Stabilization at Route 21



11 Cuyahoga River Bank Stabilization Brecksville



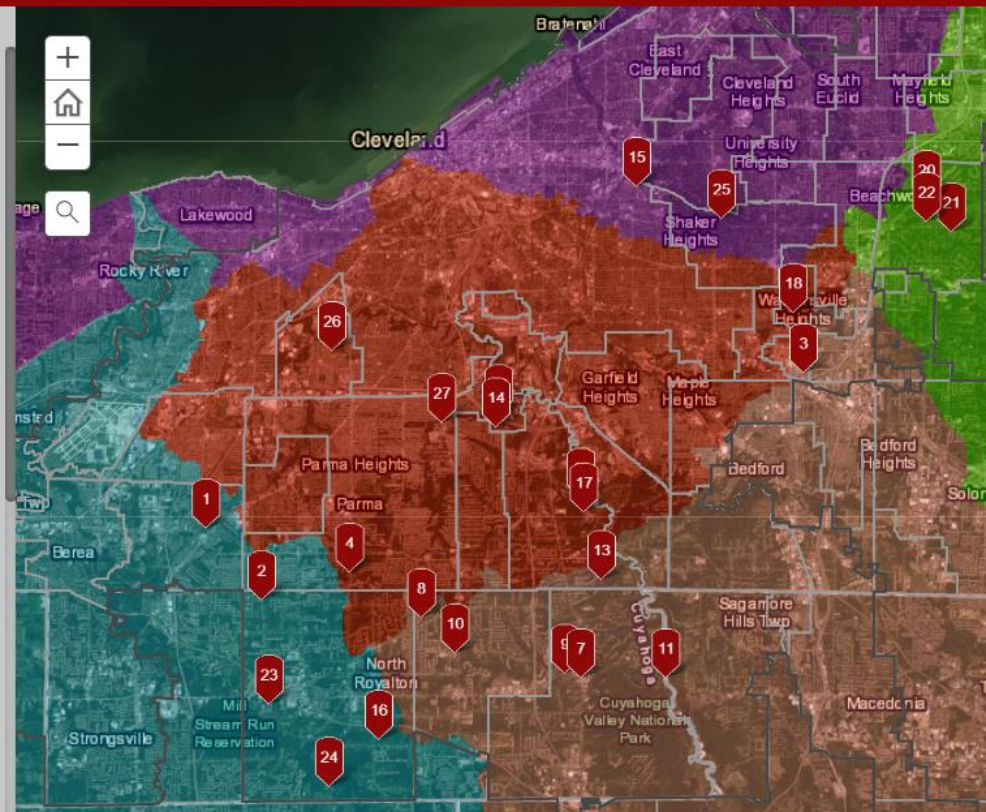
4 Big Creek Stream Stabilization Upstream...



8 Chippewa Creek Flood Reduction Near Echo...



12 Cuyahoga River Bank Stabilization at Railway...



Design



Bear Creek Improvements – North Randall

Goals:

- Daylight or replace failing culverts
- Reduce flood elevations

Current Design Phase:

- 50% Design
- Est. Construction Cost: \$1M

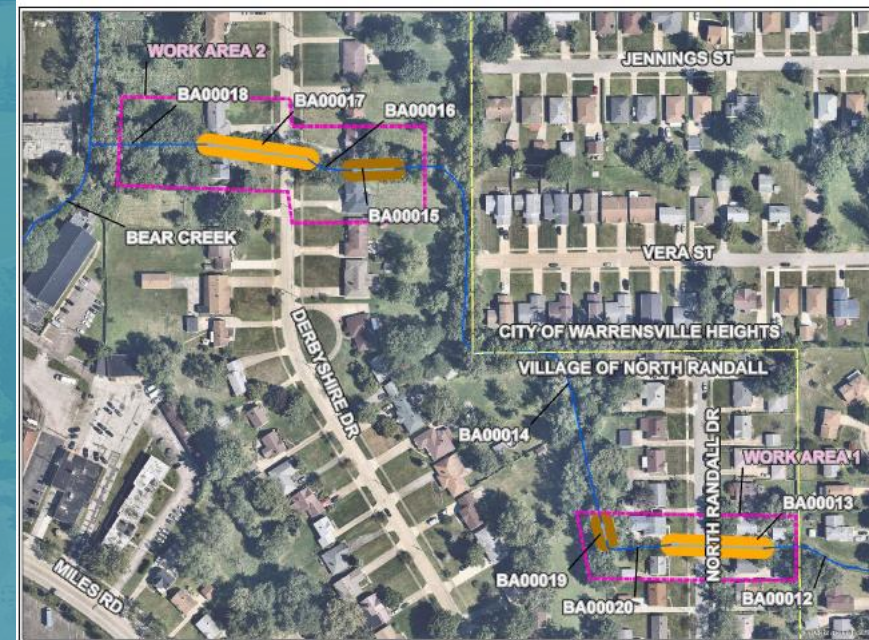


Figure 6: BA00013 Deteriorated Timber Section



Figure 7: BA00013 Failing Timber at Outfall Section



Brookside Culvert Rehabilitation – Cleveland



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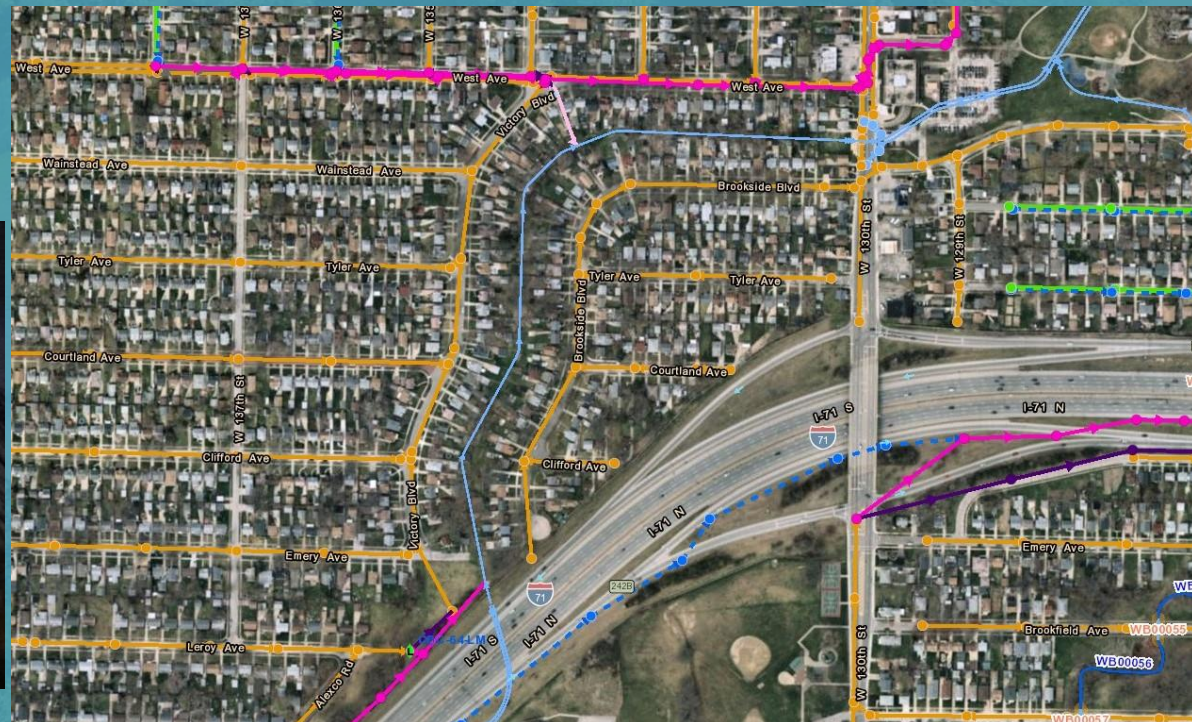
Brookside Culvert Rehabilitation – Cleveland

Goals:

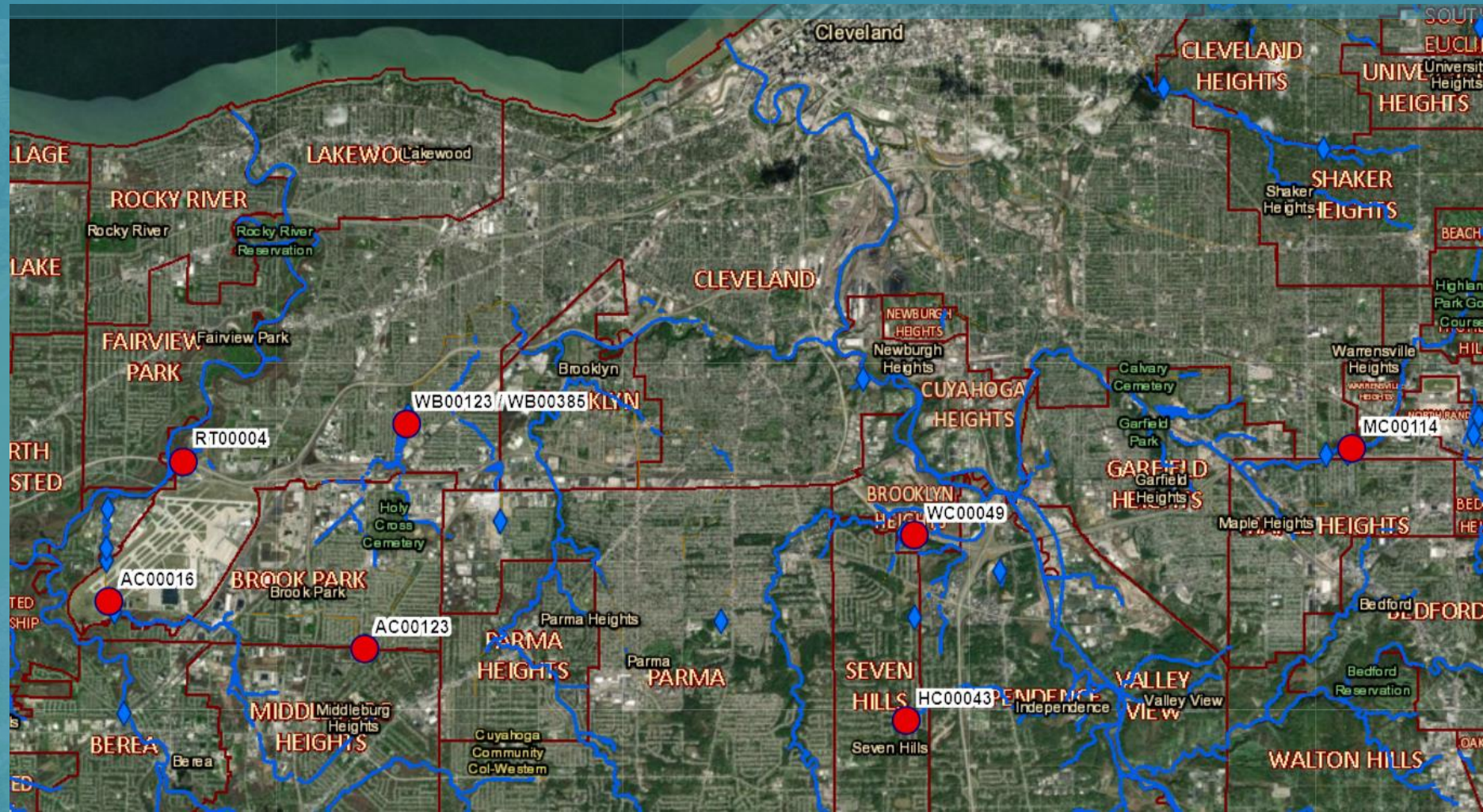
- Rehab culvert to maintain conveyance without increasing water surface elevations up- or downstream

Current Design Phase:

- Design Procurement
- Est. Construction Cost: \$5-10M



Debris Racks and Access Roads in Various Locations



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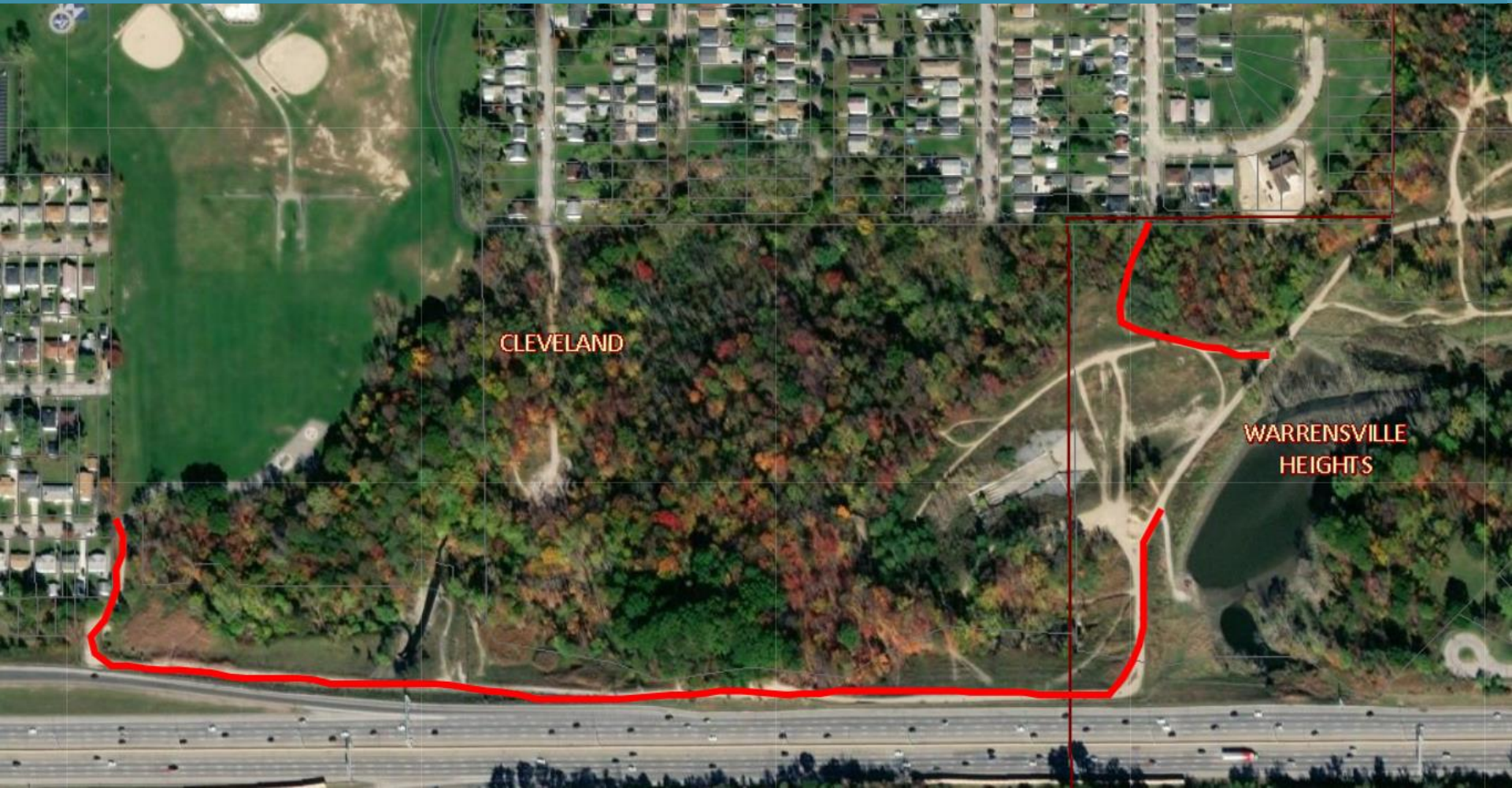


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AC00016 – Cleveland Hopkins Airport Culvert Debris Rack



MCoo114 - Kerruish Basin Access Drives



HC00043 – Hemlock Creek Basin Debris Rack and Access Road



WB00123 & WB00385 – Puritas Basin Access Roads



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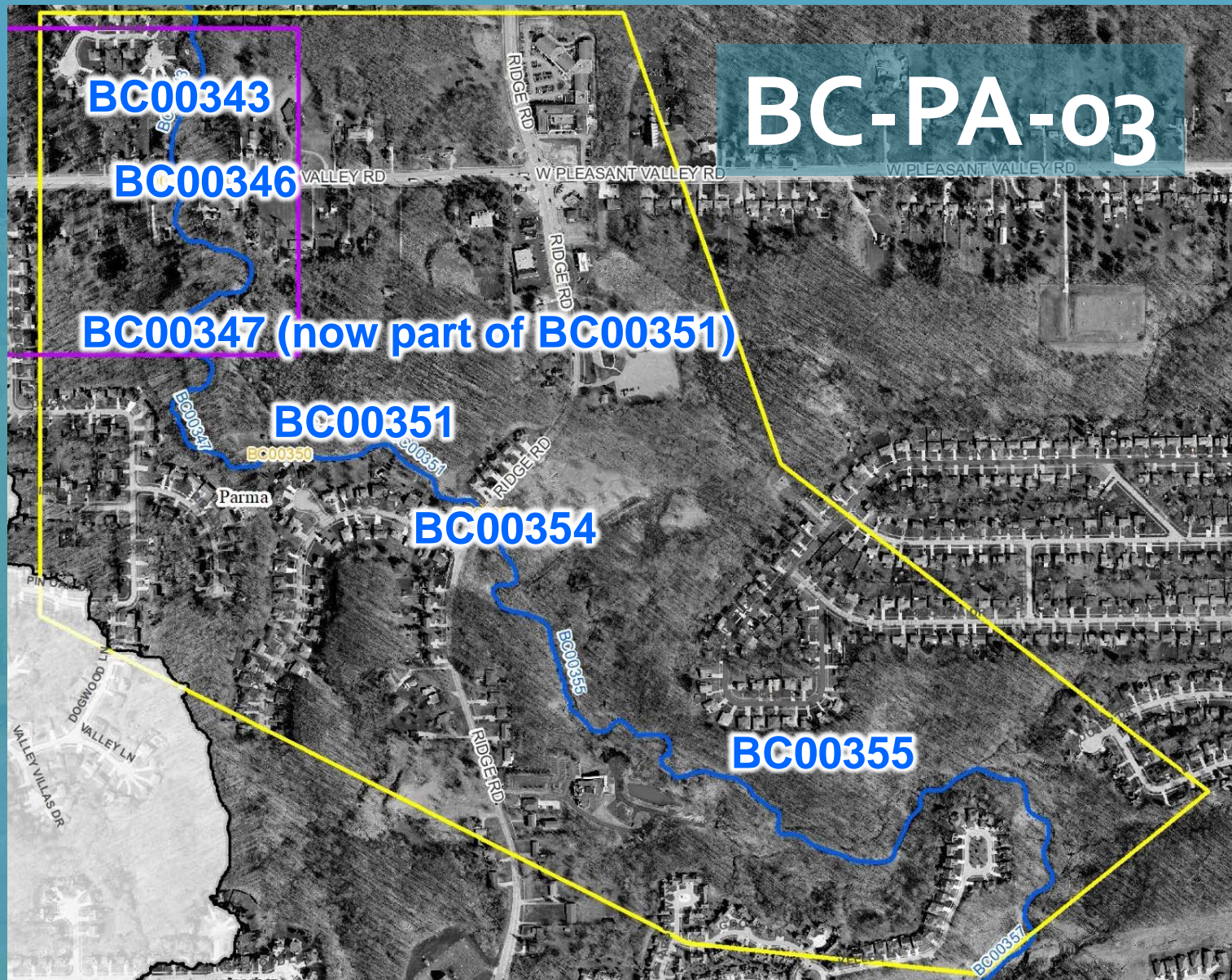
Big Creek Stream Restoration Upstream and Downstream of Ridge Road



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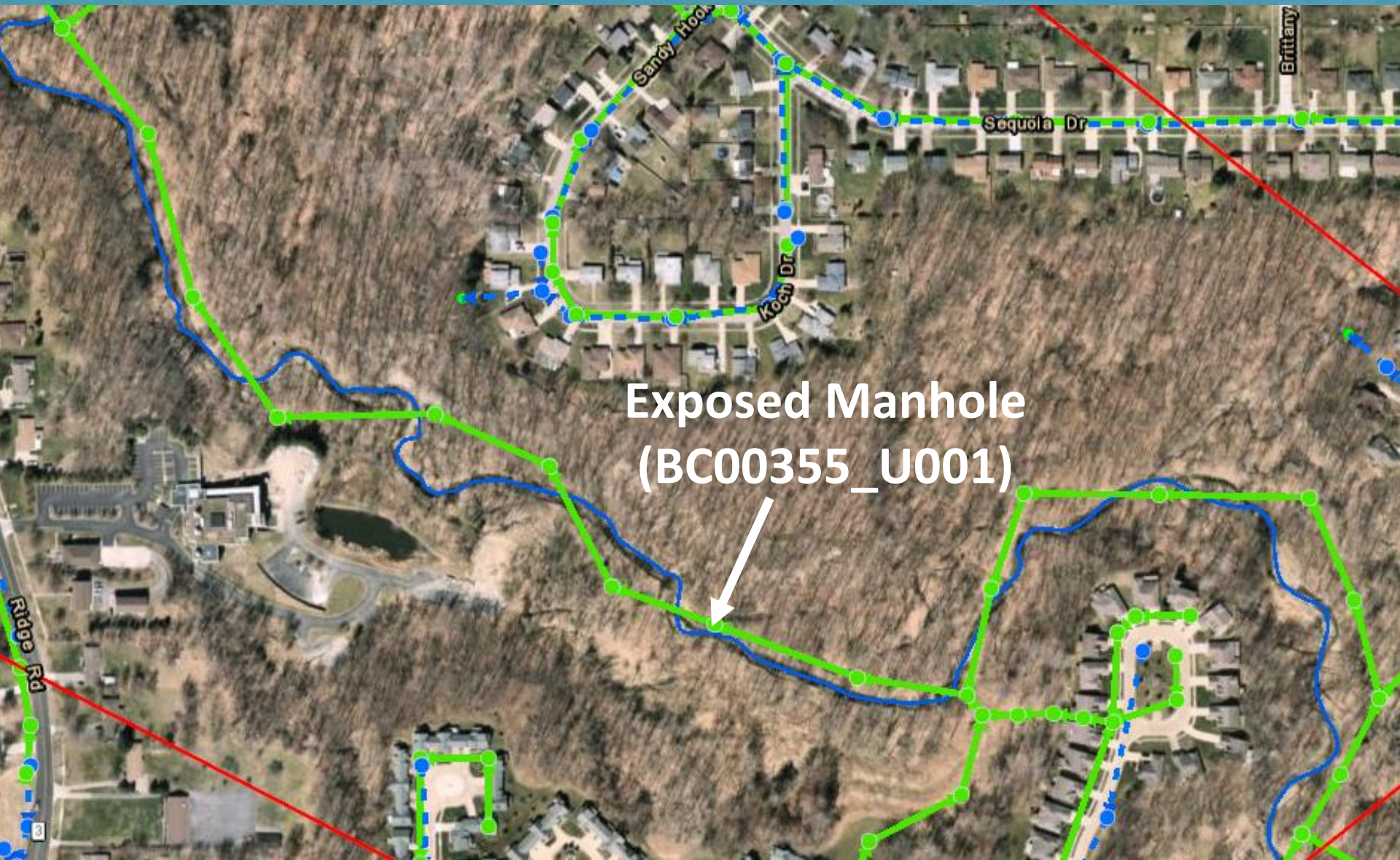


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BC00355



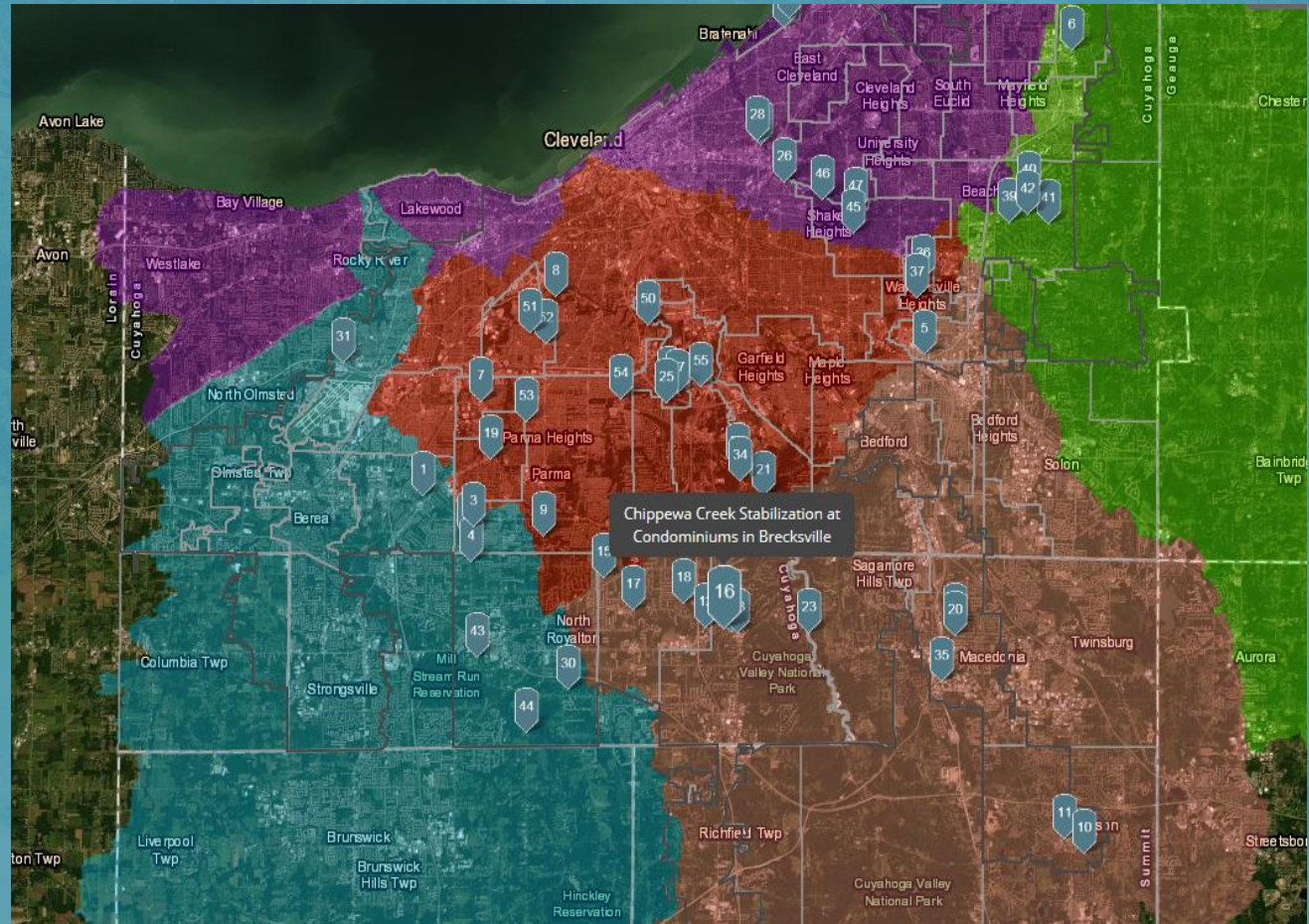


BC00351

Upcoming Construction

Chippewa
Creek is a
tributary to the
Cuyahoga River

Eroding right bank by Condominiums in Brecksville



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*
- *Approx. \$1.2M Construction Cost*
- *Excavate Floodplain on left bank*



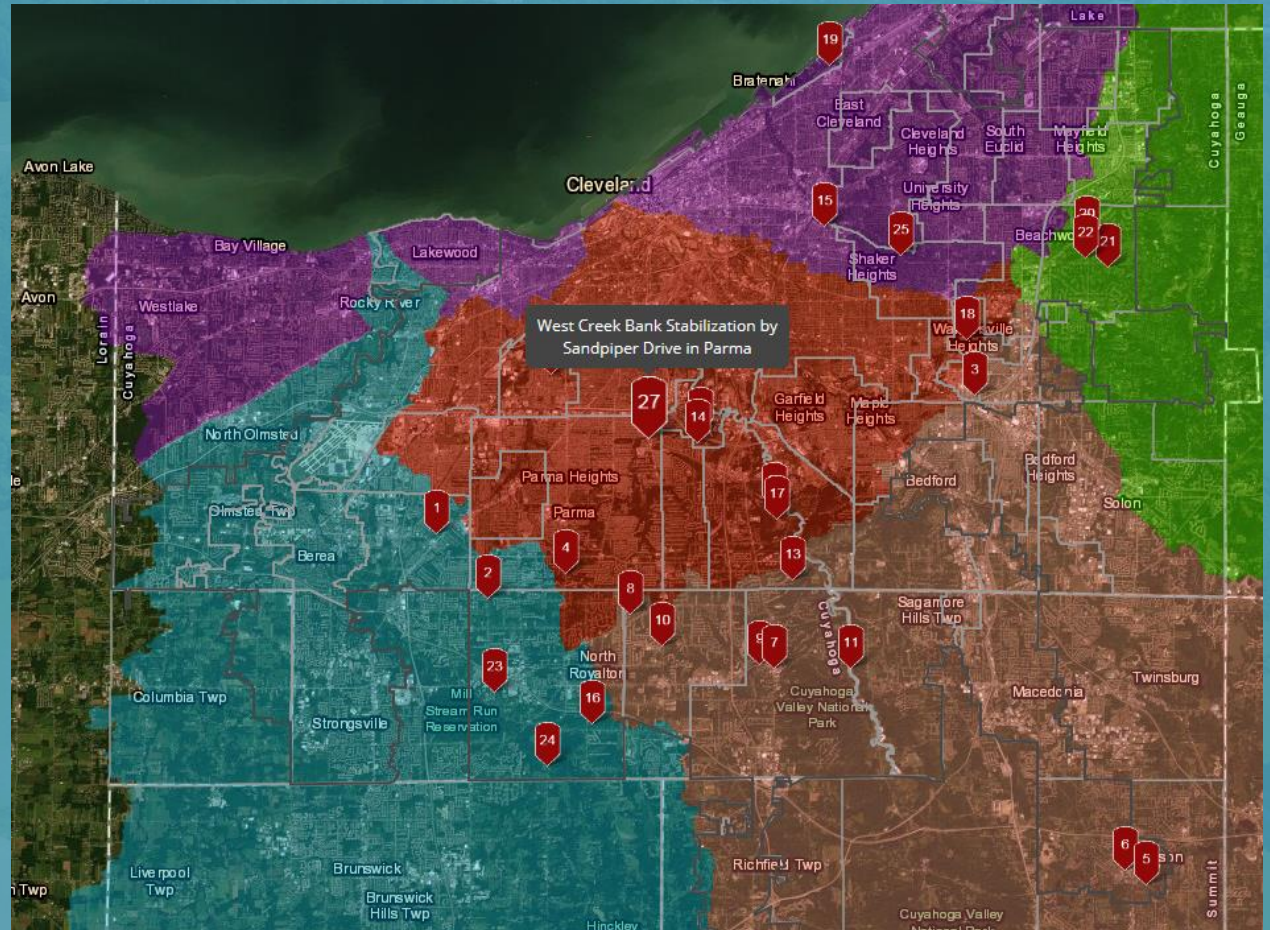
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Upcoming Construction

West Creek is a tributary to the Cuyahoga River

Eroding banks by a nursing facility



West Creek Stabilization by Sandpiper Drive



- *Stream infrastructure more cost effective than acquisition*
- *Large area of property impacted including large trees*
- *Approx. \$2.3M Construction Cost*

Questions



**Northeast Ohio
Regional Sewer District**

@Tom Jones



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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>