Watershed Advisory Committee Lake Erie Direct Tributaries & Chagrin River March 12, 2020







Agenda

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





Program Highlights

Frank Greenland, Director of Watershed Programs

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.
 - Expiring funds will be discussed based on the year they were earned, so next year they will be referred to as "2017" funds, rather than Year One funds.
- Communities that are at risk of losing funds have had conversations with their WTL. Only a few communities still fall in this category.





"Year-One" Funds

Community Cost Share

What does this mean going forward?

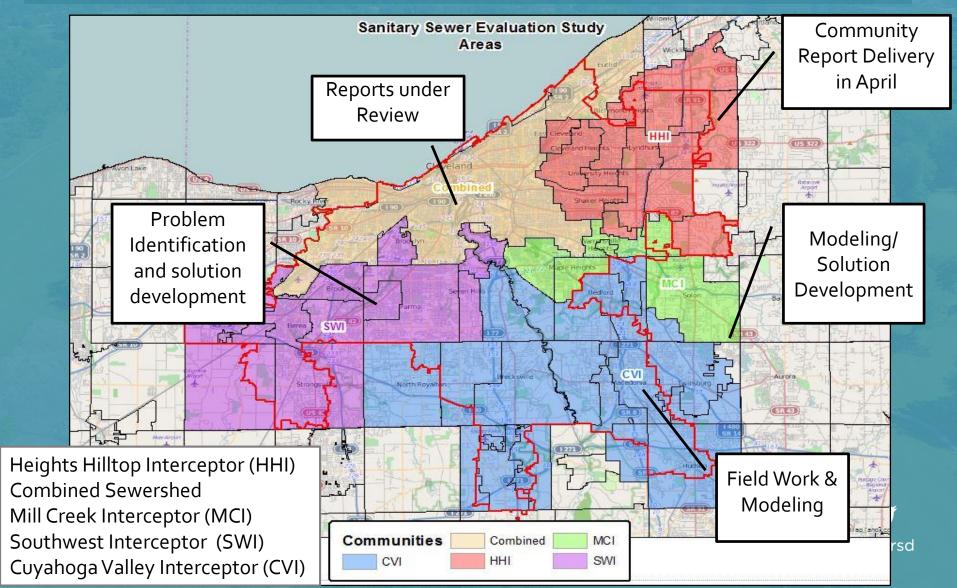
Expiring funds to be applied for,	Corresponding "Year Five,"	
collected during the following dates	apply by date	
January 1, 2013- December 31, 2016	July 1, 2020	
January 1, 2017- December 31, 2017	July 1, 2021	
January 1, 2018- December 31, 2018	July 1, 2022	
January 1, 2019- December 31, 2019	July 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





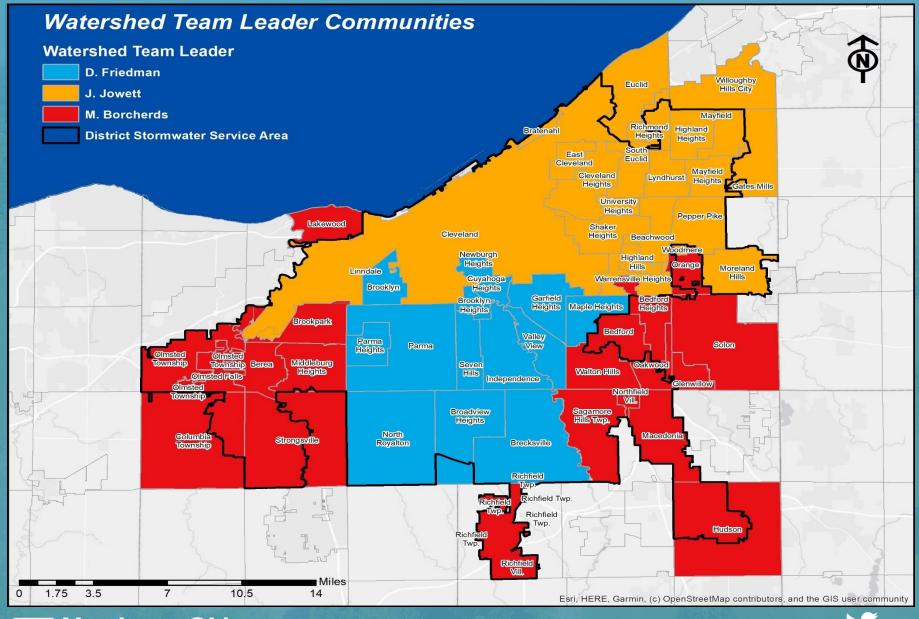
Cost-saving Programs

- 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











Questions



@Tom Jones





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

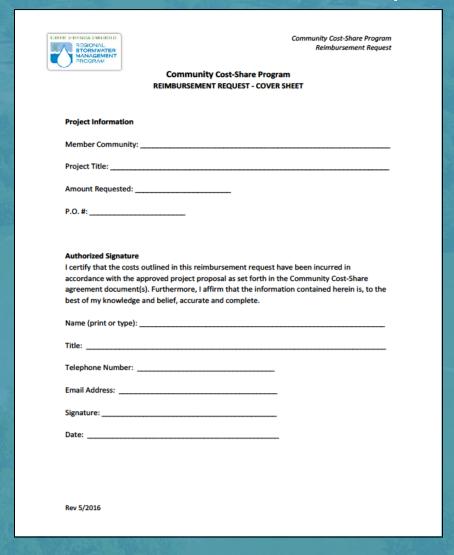




Community Cost-Share - Reimbursement Requests

A complete Reimbursement Request submission will include:

✓ Reimbursement Request Cover Sheet



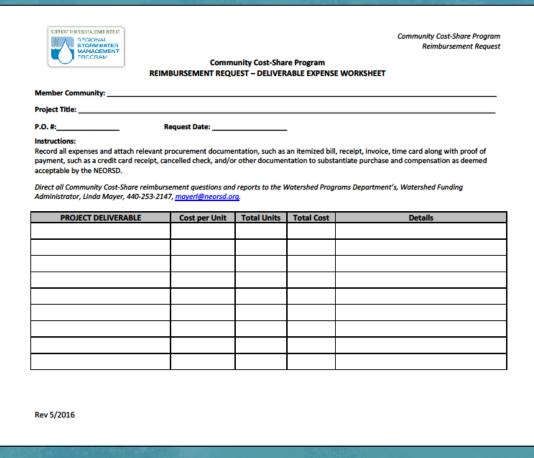




Community Cost-Share - Reimbursement Requests

A complete Reimbursement Request submission will include:

- ✓ Reimbursement Request Cover Sheet
- ✓ Reimbursement RequestDeliverable Expense Worksheetw/supporting documentation







Community Cost-Share - Reimbursement Requests

A complete 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

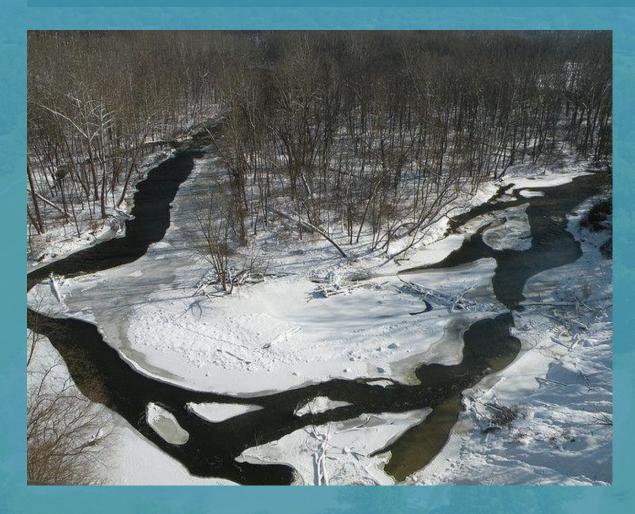
Instructions:

Rev 5/2019

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:					
 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.					
accurate and complete.					
Name (print or type):					
Title:					
Telephone Number:					
Email Address:					
Signature:					
Date:					

Questions



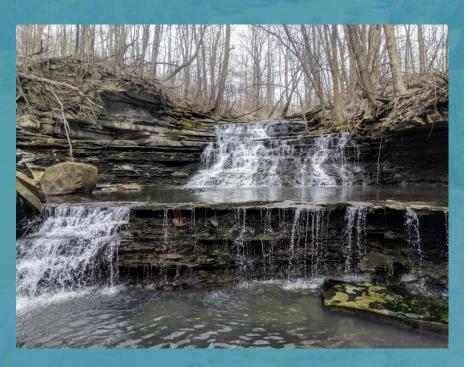
Linda Mayer
Grant Programs Administrator

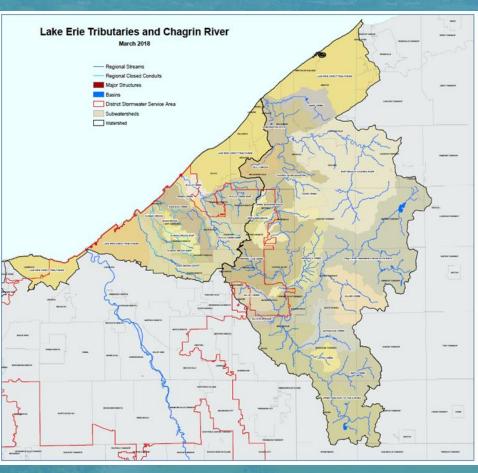
<u>MayerL@neorsd.org</u>

216-253-2147



Stormwater Master Plan









Stormwater Master Planning (status through 1/31/2020)

Cuyahoga River South

Completion Date: June 2019



100 % Complete

Rocky River

Completion Date: August 2020



84% Complete



Cuyahoga River North

Completion Date: March 2020



95% Complete

Chagrin River / Lake Erie Tribs

Completion Date: May 2021



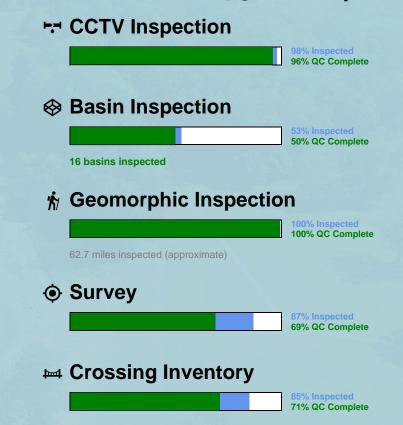
47% Complete



Stormwater Master Plan Field Work Project Status



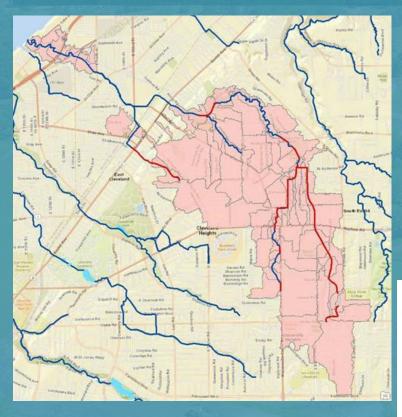
Task Item Status – 79% Complete



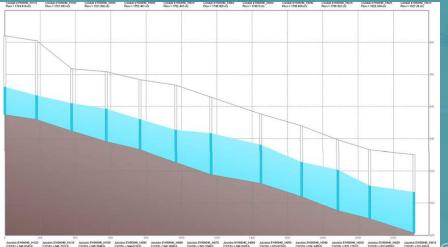




Stormwater Master Plan Model Development Status



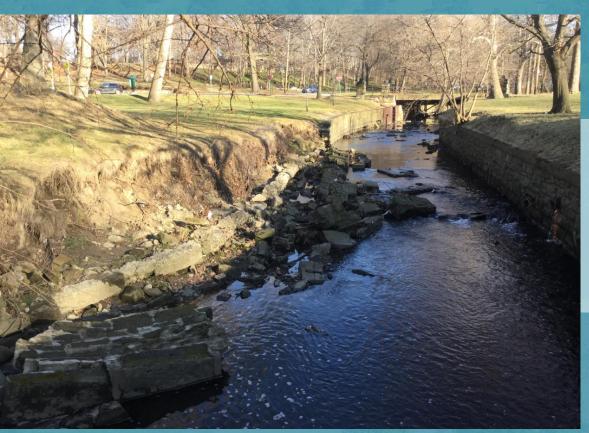
- Completed Models Doan Brook
 - o Doan Brook
 - Beechers Brook
- Models Currently Under Construction
 - Euclid Creek (East, West, Mainstem)
 - o Pepper Luce Creek
 - o Nine-Mile Creek
 - Dugway (East & West Branch







Stormwater Master Plan Problem Area I.D. / Alternative Evaluation



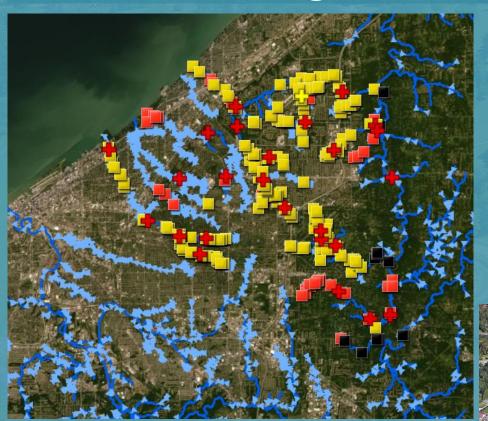
Start comparing structural problem areas with flooding problem areas:

- Doan Brook
- Beecher's Brook





Stormwater Master Plan Data Sharing with Community Members



- Culverted Stream CCTV/PACP Reports
- Spherical Imagery of Open Streams
- Basin Bathymetric Data
- Inventory of RSS Crossings
- SWMM Models of Sub-watersheds







Stormwater Master Plan

Community Communication

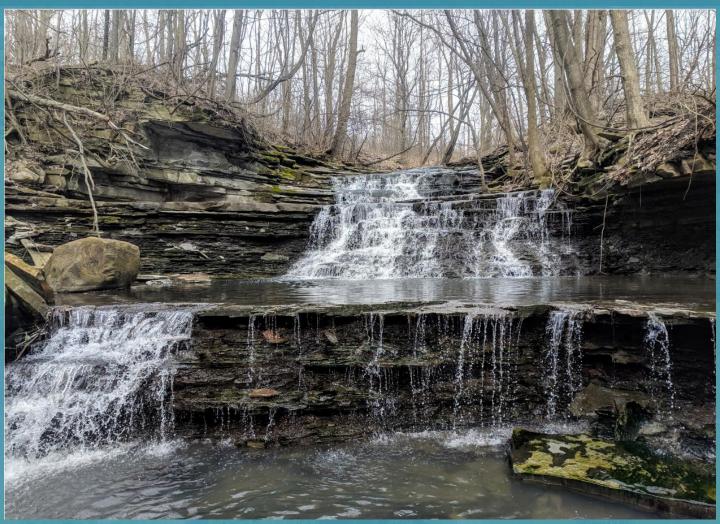
- Continued Coordination with Member Communities
- Meet with communities
 - Problem Area Review
- SWMP Recommendations and Community Report - 2021

Your Watershed Team Leader serves as the point of contact between the communities and the District





Questions







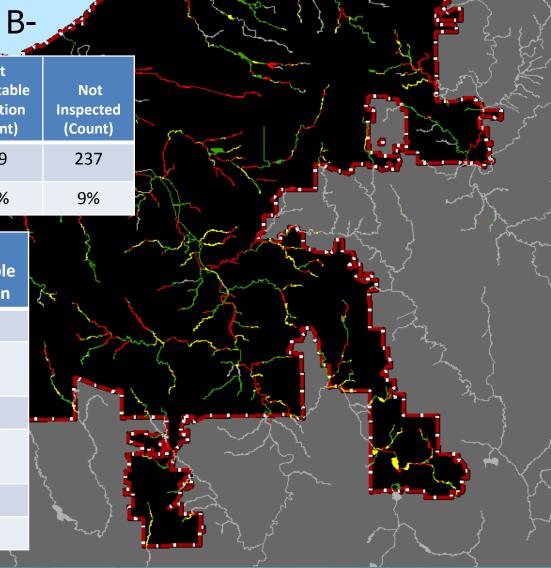
March 2020

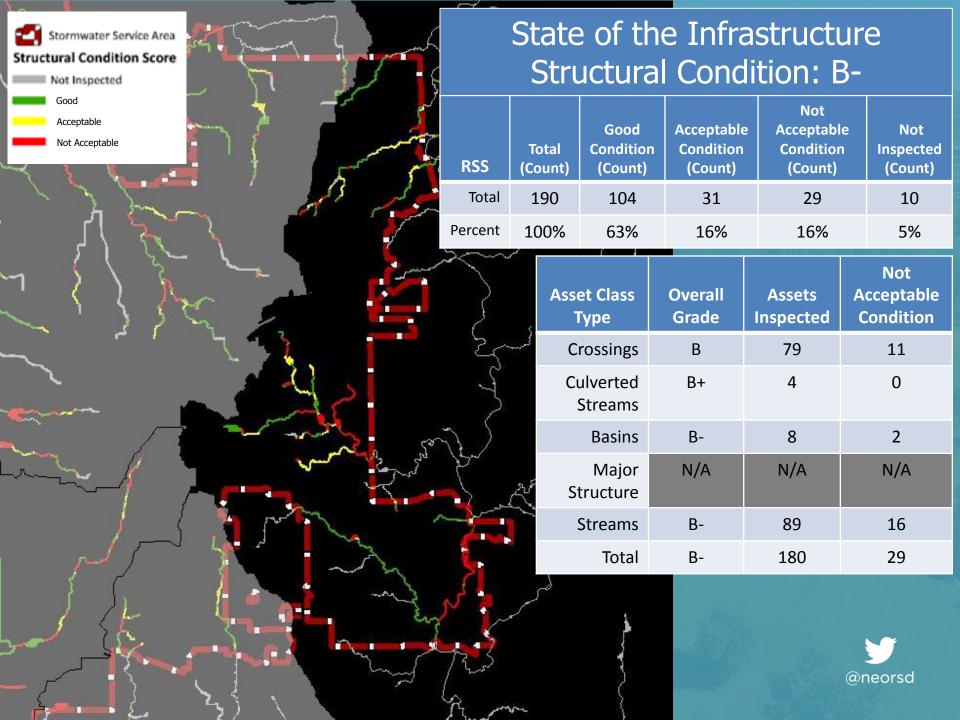
SWSA State of the Infrastructure

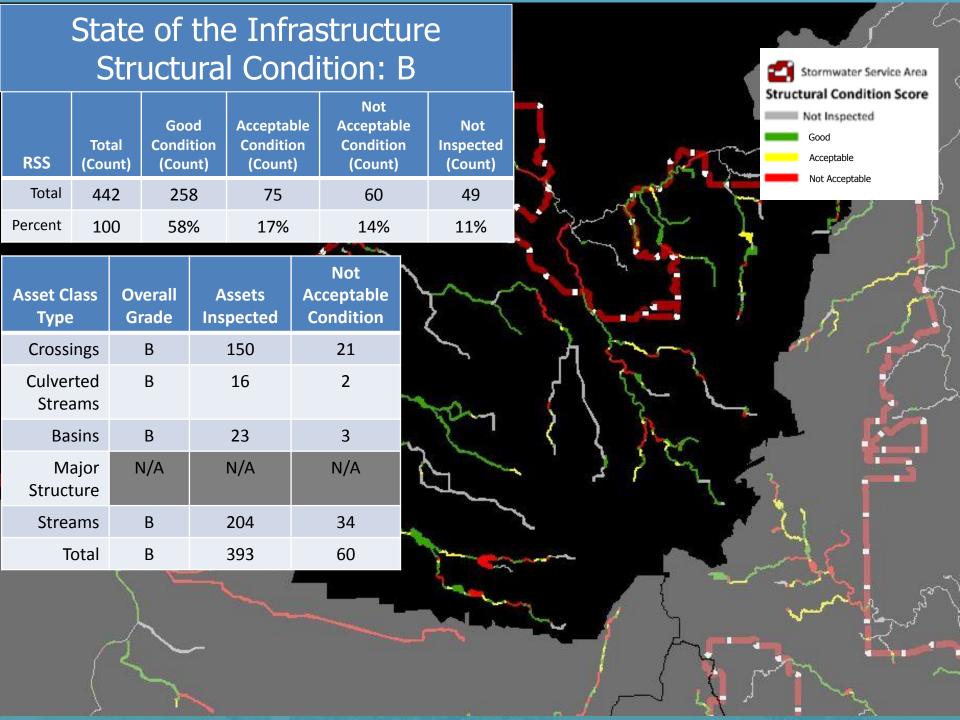
Structural Condition: B-

RSS	Total (Count)	Good Conditio n (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	459







State of the Infrastructure: Culverted Stream Nine Mile Creek



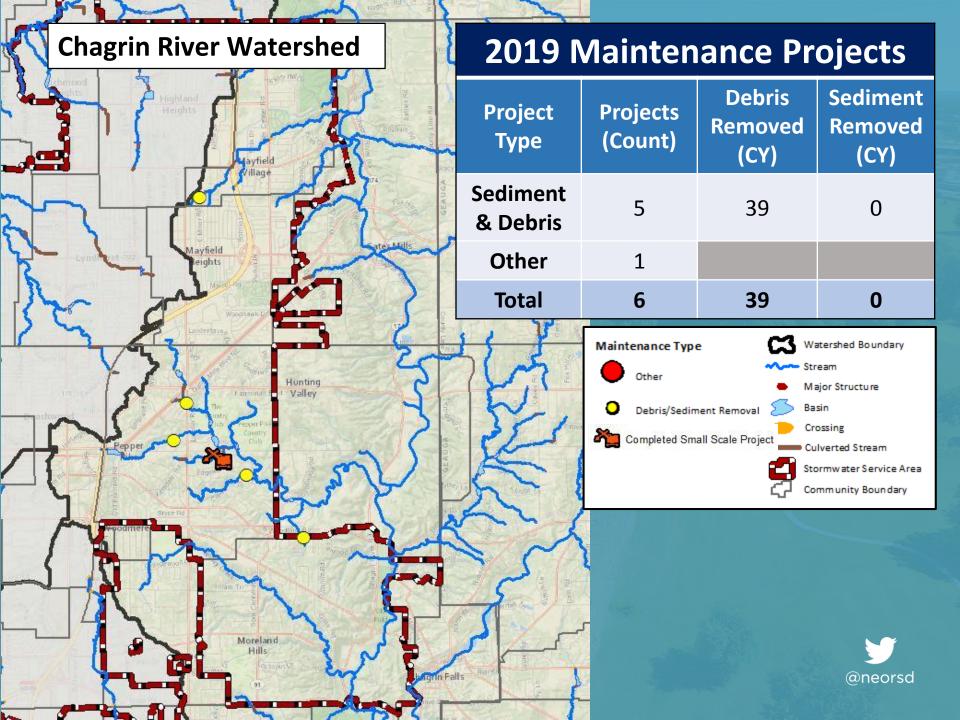


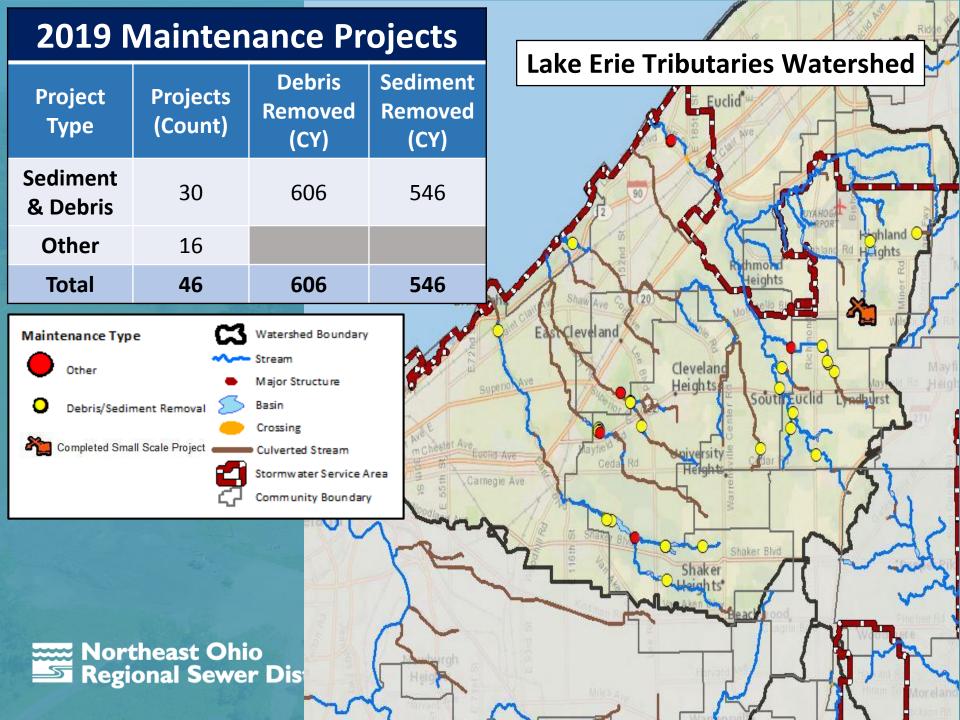
State of the Infrastructure: Culverted Stream Nine Mile Creek



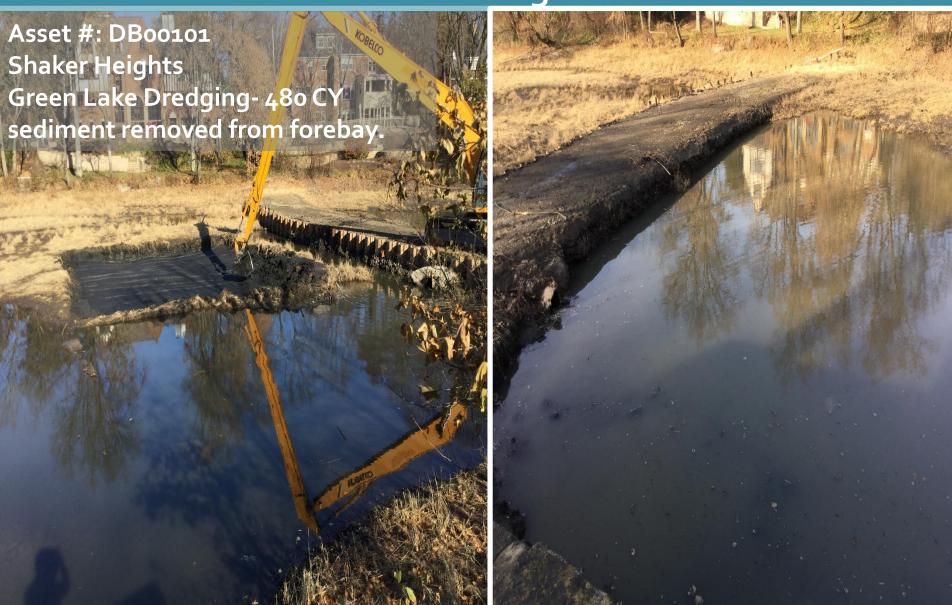
State of the Infrastructure: Stream & BTU Euclid Creek East Branch



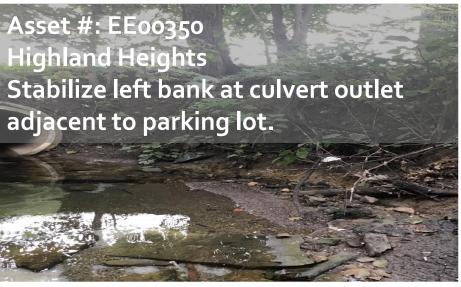




Maintenance: Green Lake Shaker Heights



Small-Scale Maintenance: Euclid Creek East Branch Highland Heights





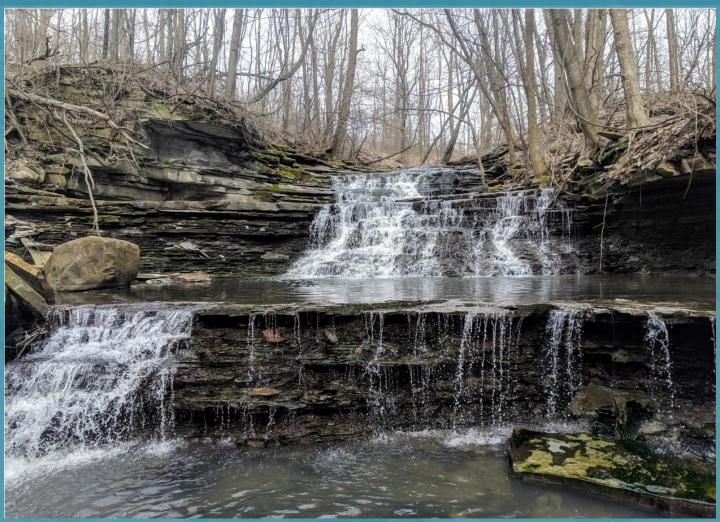


Small Scale Maintenance: Temporary Streambank Stabilization West Creek [Planned Small Scale Project]





Questions





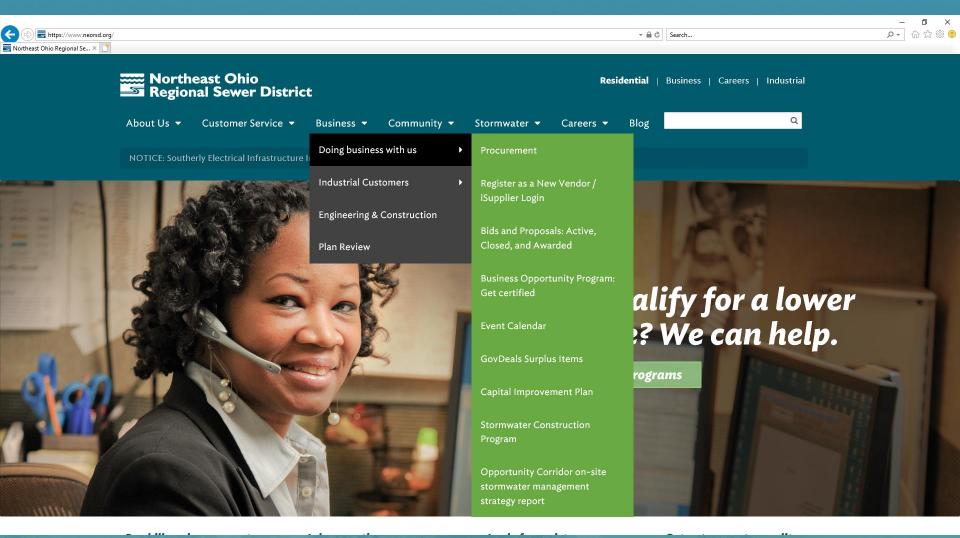
Stormwater Design and Construction Program







Stormwater Storymap



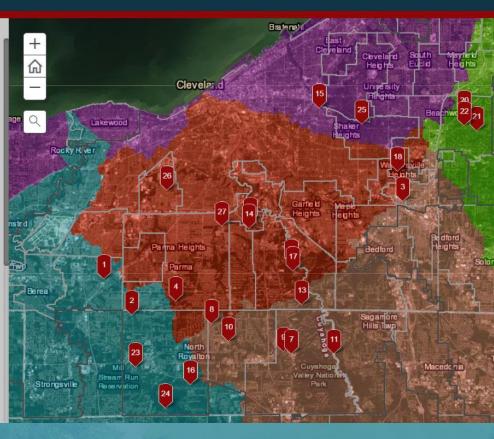




NEORSD Stormwater Design & Construction Program

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

All Projects Construction Complete Design RTHEAST OHIO REGIONAL SEWER DISTRI REGIONAL STORMWATER MANAGEMEN' PROGRAM 3 Bear Creek Culvert 4 Big Creek Stream Abram Creek / Big Creek Baldwin Creek Parkway Detention.. Stabilization Near Abb... Stabilization Upstream... 8 Chippewa Creek Flood 7 Chippewa Creek Bank Brandywine Creek -6 Brandywine Creek -Owen Brown Bridge.. Barlow Community... Reduction Near Echo. Stabilization at Route 21 12 Cuyahoga River Bank Chippewa Creek Stream 11 Cuyahoga River Bank Chippewa Creek Stabilization Near... Stabilization Brecksville 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



Brookside Culvert Rehabilitation – Cleveland

Goals:

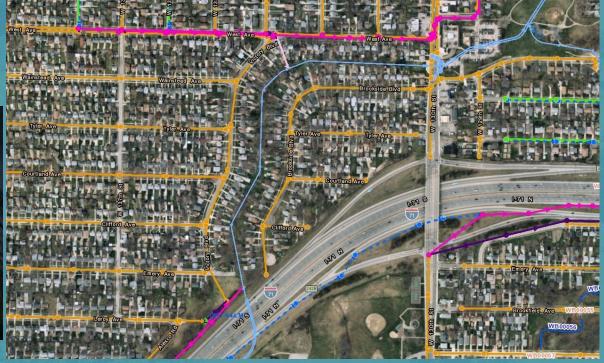
 Rehab culvert to maintain conveyance without increasing water surface elevations up- or

Current Design Phase:

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



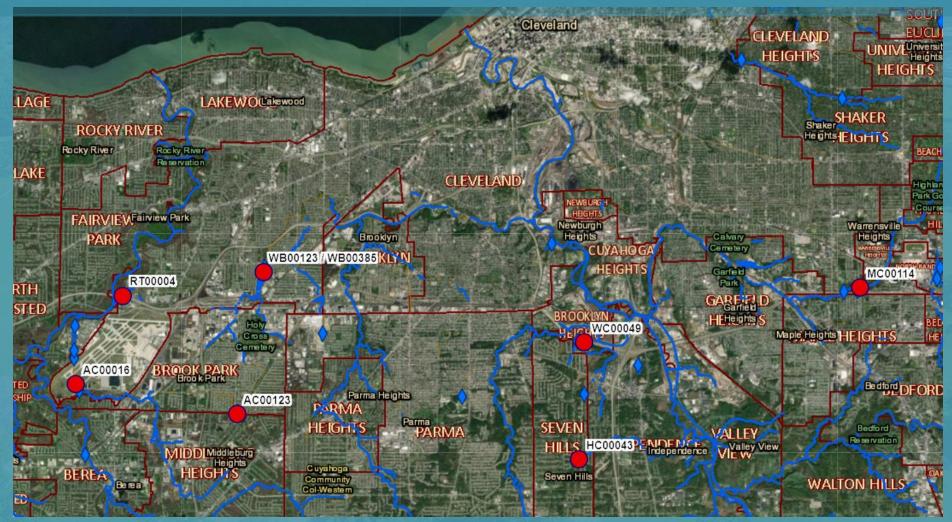
downstream



Brookside Culvert Rehabilitation – Cleveland



1539 Debris Racks and Access Roads in Various Locations









MC00114 - Kerruish Basin Access Drives





HCooo43 – Hemlock Creek Basin Debris Rack and Access Road











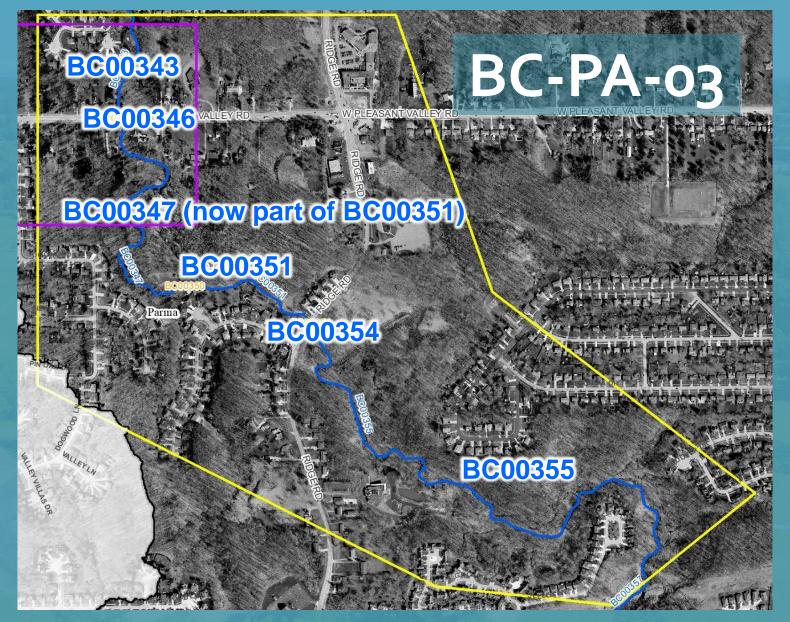




1597 Big Creek Stream Restoration
Upstream and Downstream of Ridge Road



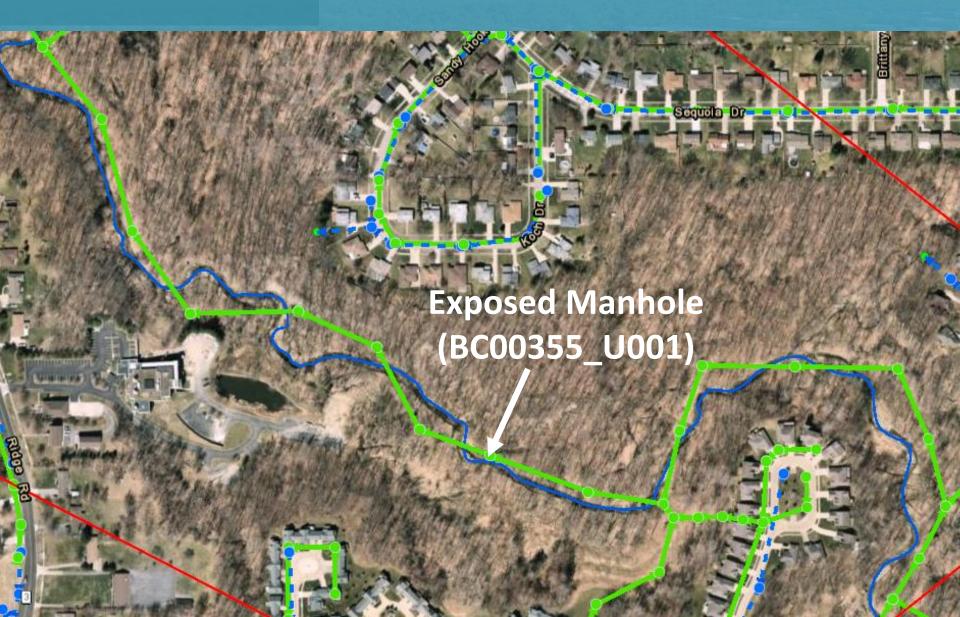








BC00355





Questions

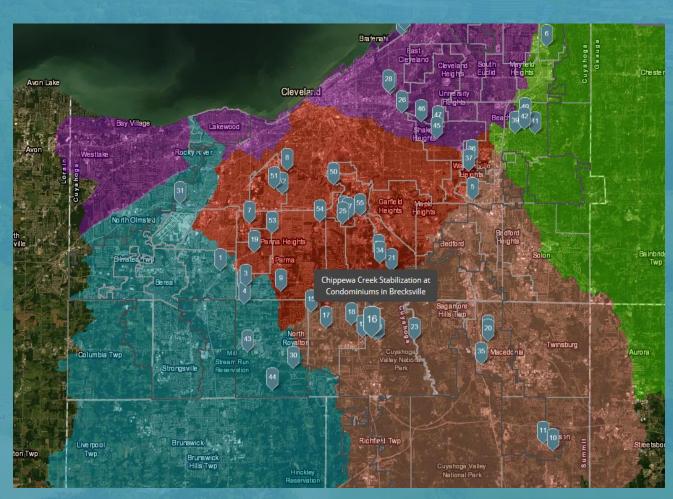




1499_Upcoming Construction

Chippewa
Creek is a
tributary to the
Cuyahoga River

Eroding right bank by Condominiums







Chippewa Creek Stabilization at Condominiums in Brecksville



- Eroding streambank within 12 ft of the condominiums
- Erosion within 6 ft of local sanitary sewer
- Exposed storm sewer pipe and headwalls
- Approx. \$1.2M
 Construction Cost

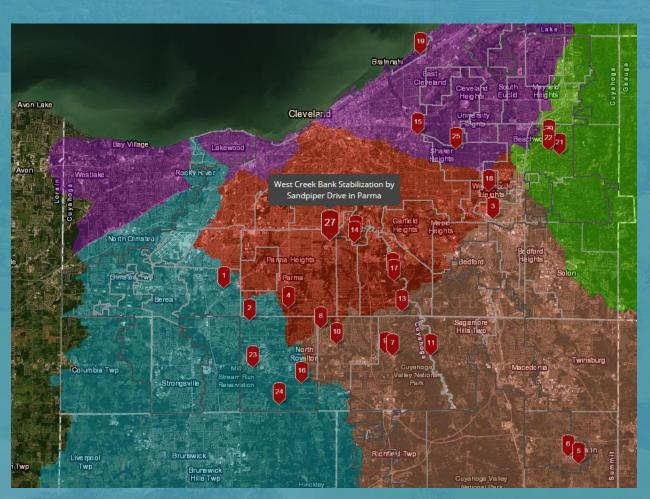




1569_Upcoming Construction

West Creek is a tributary to the Cuyahoga River

Eroding banks by a nursing facility







West Creek Stabilization by Sandpiper Drive



- Eroding streambank has damaged parking lot at skilled nursing facility in Parma
- Large area of property impacted including large trees
- > Approx. \$2.3M
 Construction Cost



Questions





WTL Contact

Jeff Jowett 216.881.6600 Ext. 6881 Cell: 216.630.1433 jowettj@neorsd.org



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



