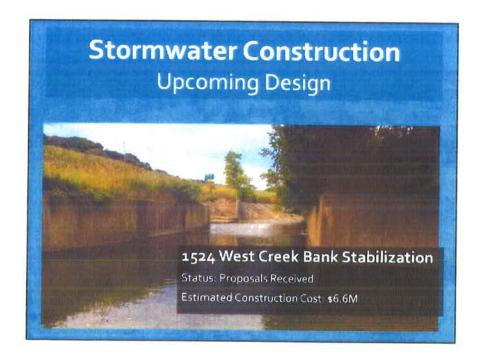


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dont	Proposell Project Frame	Watershire	Submateration	Project Continuents	Highert	Design HTP
1	Chippewa Creek_Bank Stabilization OS Rt 21 - CC00030 Chippewa Creek Bank Stabilization at Condominium- CC00032	Cuyahoga River South	Chippewa Creek	Brecksville	72	30-Jan-18 (2 Sites Combines
2	NEW SWIM Debris Racks, Access and Easements	Various	Various	Various	NA	26-Feb-18
3	Hemlock Creek and Mill Creek Bank Stabilization - HC00038, HC00040, HC00042, MC00125- Preliminary Design	Cuyahoga River North	Hemlock Creek	Seven Hills	69	1-Apr-19
4	Unnamed Trib. to E. Br. Rocky River Ridge Road Bank Erosion – RY00434 Baldwin Creek North Royalton Bank Erosion and Failing Private	Rocky River	Rocky River East Tribs	North Royalton	80	19-Apr-18 2 Sites Combined
5	Crossing BD00291 Unnamed Trib to Cuyahoga Failed Gablons CH00156	Cuyahoga River North	Baldwin Creek Cuyahoga River West Unnamed	Independence	61	29-May-18
	Hemlock Creek Stream Erosion at HC00005	Cuyahoga River North	Hemlock Creek	Independence	69	
6	Cuyahoga River Erosion at BTU CY00103C_T001	Cuyahoga River North	Mainstem (west)	independence	51	29-May-18 (3 Site Combined)
	Cuyahoga River Left Bank Erosion near CVNP RR - CY00219	Cuyahoga River South	Mainstern (west)	Brecksville	50	
7	Papper Luce Erosion and Deterioration - PC00145 Papper Luce Gates Mills Bivd Culvert Deterioration PC00218	Chagrin River	Pepper Luce Creek	Pepper Pike	69	31-Jul-18 (2 Sites Combined
8	Big Creek West Branch Stabilization -W800108, W800072, W800104	Cuyahoga River North	Big Creek	Parma	59	25-Jul-18
9	Chippewa Creek Erosion Near Local Sewer CC00170 Chippewa Creek Gabion Failure BTU CC00191_001 Chippewa Creek Bank Stabilitation at SWM Facility - CC00082	Cuyahoga River South		Broadview Heights	42	4th Qtr 2018 (3 Sites Combined

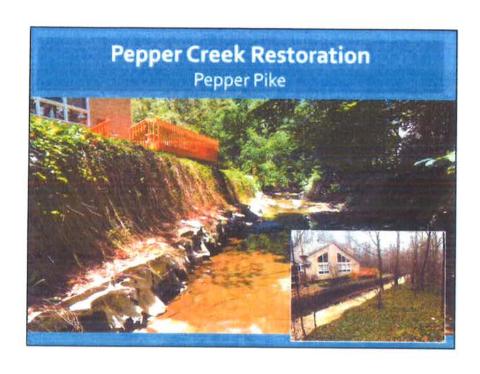


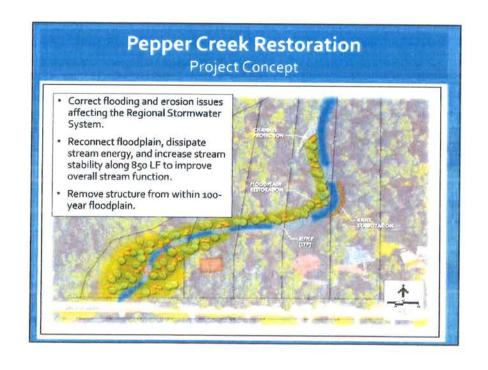




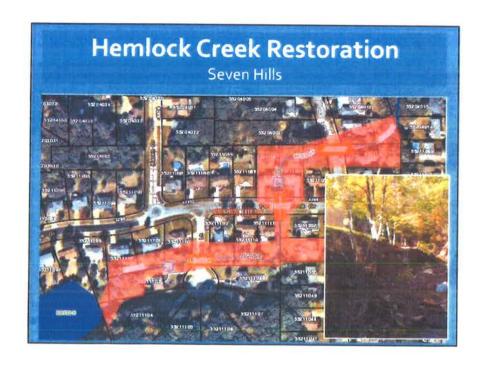
Easement Policy Inspection, Operation, Maintenance and Monitoring No easement needed Activities in ROW Activities in an existing easement which can be assigned to the District Permanent easement – installation of materials or facilities (i.e. stone) Right of Entry/temporary easement- sufficient for most debris/sediment removal No compensation

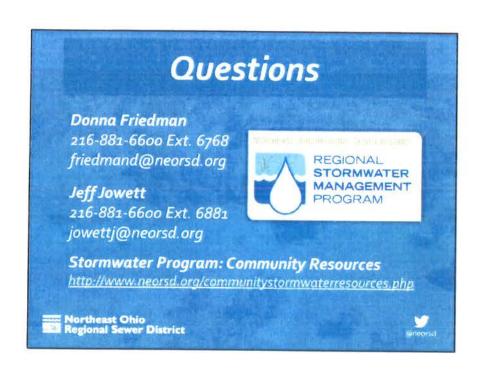


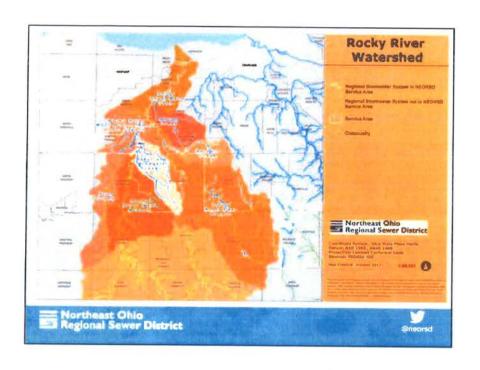


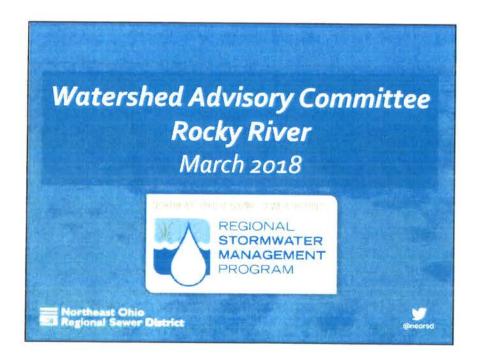














- Regional SW Program Updates
 - Illicit Discharge Detection and Elimination 2017 Update
 Watershed Partners Service Agreement
 Plan Review
- Stormwater Master Plan
- Stormwater Inspection and Maintenance

 - Inspections and Activities
 Urgent Storm Response Process
 - Long-term Monitoring of Assets
- Stormwater Construction Plan
 - 2018 Projects

 - Permanent and Temporary Easement Policy
 Conservation Planning and Land Acquisition





Illicit Discharge Detection & Elimination

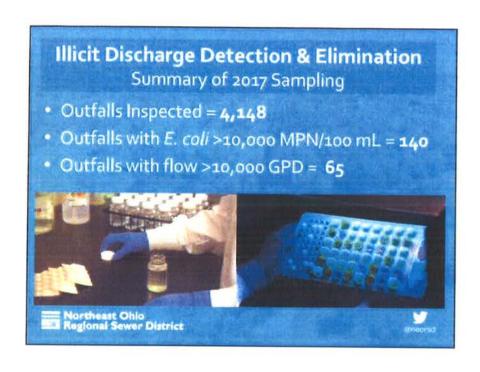
- What is community's role?
 - Title III and IV: sanitary overflows from any source, including illicit connections, are prohibited
 - Phase II MS4 permit compliance

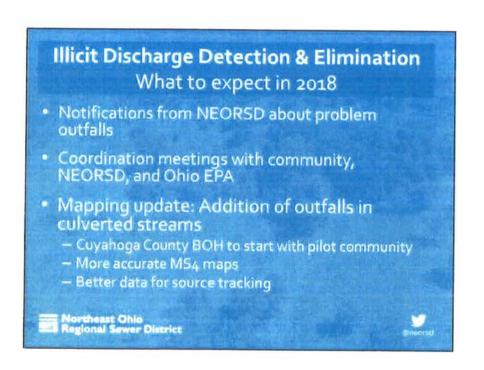


- Services provided by the District
 - BOH outfall screening/sampling for E. coli and flow
 - Assistance with source tracking through BOH and Water Quality and Industrial Surveillance group

Northeast Ohio Regional Sewer District







2018 Central Lake Erie Basin Collaborative Services

Provide strategic implementation of the District's Regional Stormwater Management Program. Work includes:

- Development of a stormwater fee credit <u>assistance</u> program
- Development of a stormwater fee tree credit to compliment municipal & regional tree canopy recovery goals







2018 Central Lake Erie Basin Collaborative Services

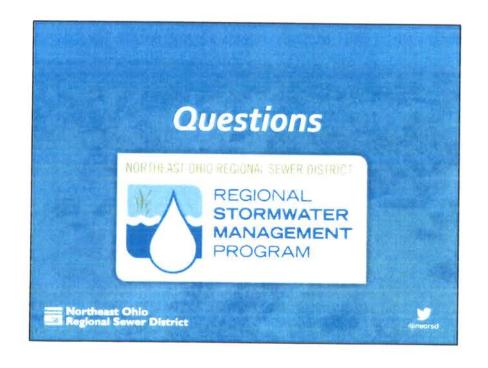
Provide strategic implementation of the District's Regional Stormwater Management Program. Work includes:

- Assist the District with the implementation of Stormwater Master Plan recommendations
- Assist Member Communities in updating parking lot and downspout disconnection codes

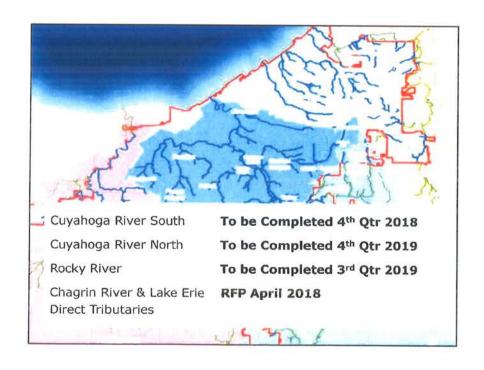


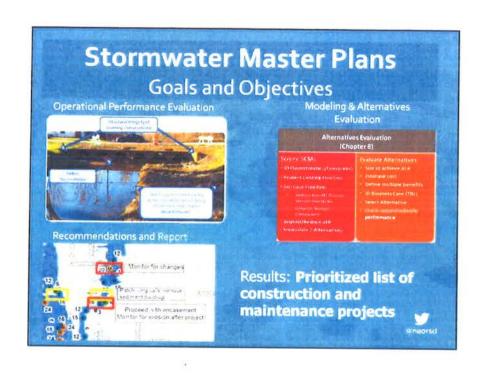


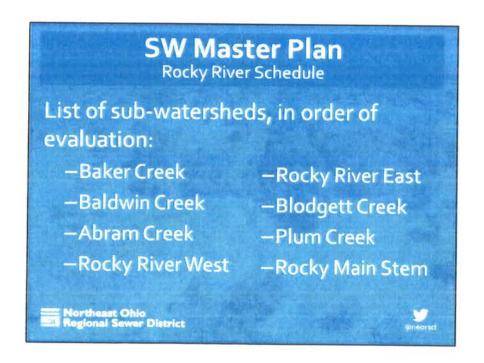


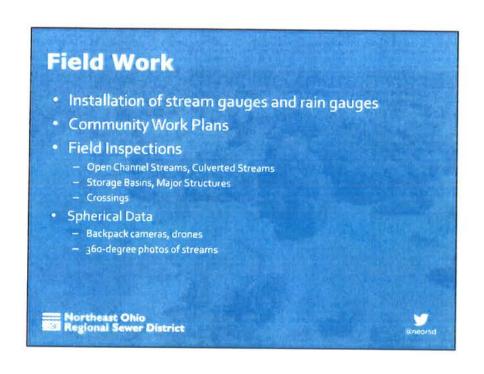


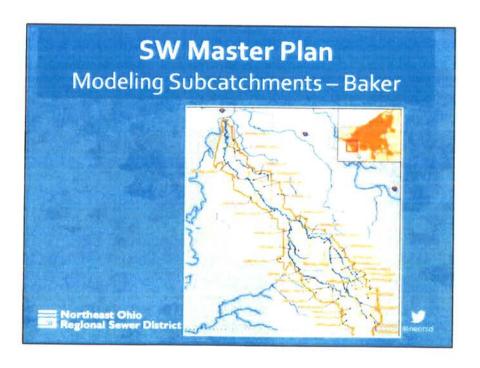


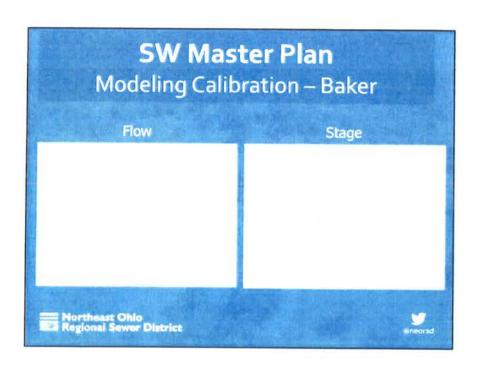














SW Master Plan

Evaluation and Recommendations - 2018

- Opportunities / Constraints
- Protect Existing Function and/or Increase Function
 - Reduce runoff / restore stream-floodplain
 - Enhance storage-conveyance
- Property Acquisition
- Size to achieve acceptable Level of Risk
- · Define multiple benefits, including water quality
- Check watershed-wide performance
- Community input





SW Master Plan

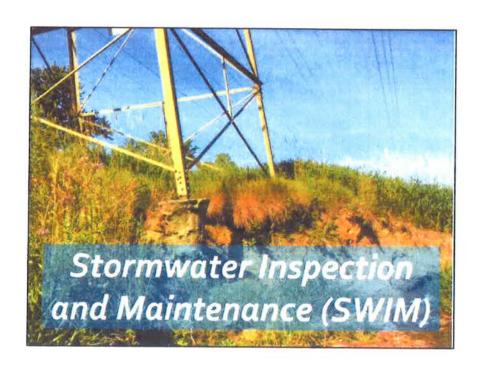
Community Communication

- · Meet with communities
 - Alternatives Evaluation
- Recommendations and Community Report

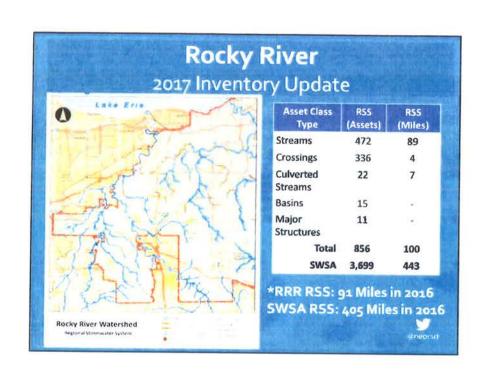
Your Watershed Team Leader serves as the point of contact between the communities and the District

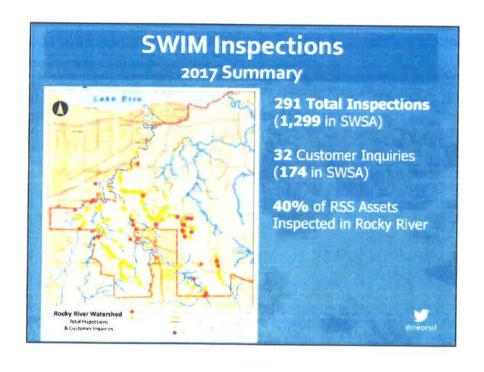
Northeast Ohio
Regional Sewer District



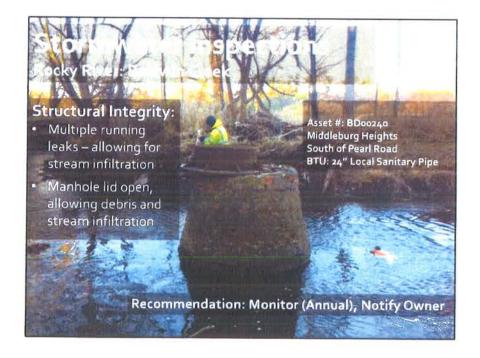


Terminology Review • Asset Class Types: - Streams (Open) - Crossings (Bridges/Culverts) - Culverted Streams (Long Reaches of Buried Pipe) - Basins (Dry/Wet, Regulated/Unregulated) - Major Structures (Low Head Dams/Drop Structures/Locks) • Acronyms: - ALR - Acceptable Level of Risk - RSS - Regional Stormwater System - BTU - Building, Transportation, Utility Assets along the RSS - BEHI/NBS - Bank Erosion Hazard Index/Near Bank Stress - SWSA - Stormwater Service Area





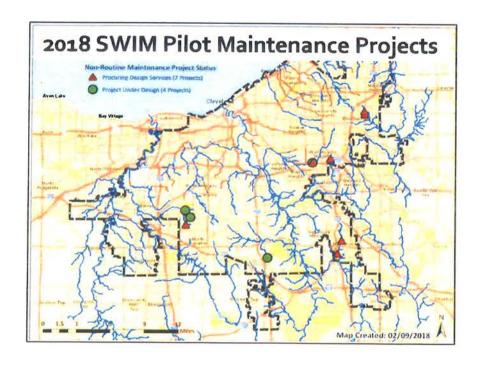
















SWIM Urgent Storm Response

- Review any Advanced Warning Notification (e.g., National Weather Service)
- · Field Check and Clean Known Problem Assets Prior to Storm
- Track Rainfall for Size of Storm (e.g., 10-yr, 24-hr) and Monitoring data for Evidence of Flooding (monitoring data)
- Review any media, customer, or Member Community reported flooding

Please notify us of any flooding along RSS!





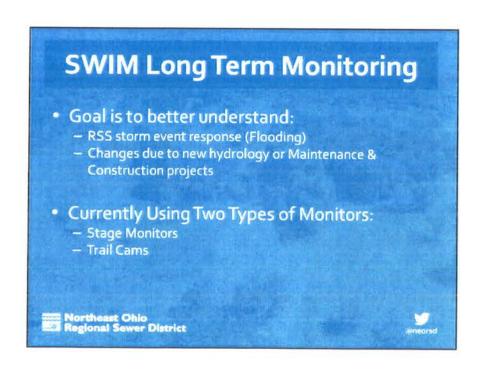
SWIM Urgent Storm Response

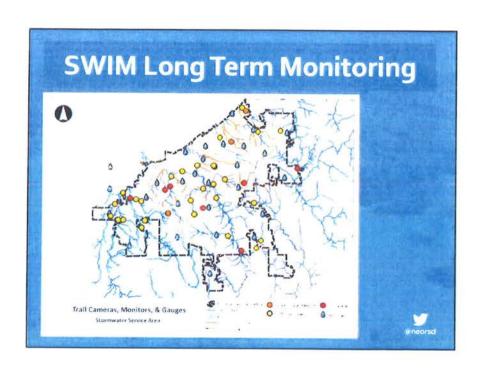
- Field Check areas of concern, which can expand depending upon extent of flooding
- Conduct any recommended field maintenance activities, once water level permits safe access for Contractors
- Any observable structural issues are assessed.
 If a structural failure appears imminent, then both owner and senior District staff are notified for potential emergency declaration and resolution

Northeast Ohio
Regional Sewer District







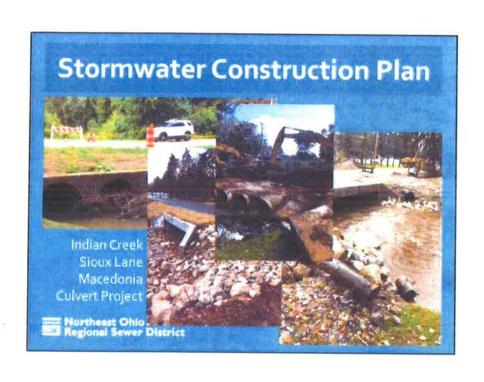


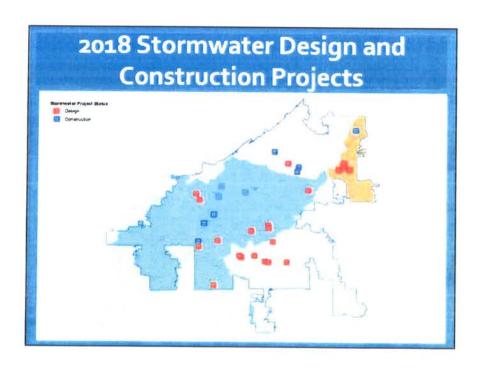
SWIM 2018 Planned Activities

- Implement Recommended Maintenance Projects from SW Master Plans
- Continue Piloting Non-Routine Maintenance Projects
- Inspect and Inventory RSS assets and BTUs without condition scores
- Request Record Drawings from Member Communities (Basins and Crossings)











Project f(umbs		RSS Asset (D(s)	WAC Watershee	Subwaterstree	Project Community	Constructio
1320	Shaker Lakes Dam Rehabilitation	DB00056 & DB00101	LED	Doan	Shaker Hts. and Cleveland Hts.	5-Apr-18 (Ar June 2018)
1369	Beechers Brook Bank Stabilization (Design- Build)	BE00021	Chagrin River	Beechers	Mayfield Village	15-Mar-18
1369	Baldwin Creek Bank Stabilization (Design- Bulld)	80000259	Rocky	Baldwin	Parma	19-Apr-18
1515	Spring Creek Culvert Rehabilitation	5P00002	Cuyahoga River North	Spring	Cleveland	10-May-18
1410	Doan Brook Stream and Bank Stabilization	BD 00029	LED	Doan	Cleveland	24-May-18
1409	Colombo Park Stream Restoration-BC00299	BC00299	Cuyahoga River North	Big Creek	Parma Hts	8-Jun-18
1520	Lower Twin Lakes Dam Repair	BC0002618	Cuyahoga River North	Big Creek	Parma	29-Jun-18
1411	Big Creek Stabilization	BC00032	Cuyahoga River North	Big Creek	Cleveland	13-Jul-18
1502	Stickney Creek at Ridge Road- Stream Relocation and Utility Repair (Design-Build)	ST00209	Cuyahoga River North	Stickney	Brooklyn	26-Oct-18





	2018 Storm	VA / S	OF	DOC!	-	
	2018 Storm	wat	GI F	JESI	ш	
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reginet Historia	Proposed Project Name	WAC	Suthwatershe	d Project	Highest	DealgrantP
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Easement Policy

Stormwater Construction Plan Projects

- Easements or permanent property rights will be required for all projects
- Owner compensation
 - Private Property owners may be paid for the easements based on fair market value established by appraisals
 - Member communities will not be compensated as outlined in the Service Agreements





Easement Policy

Inspection, Operation, Maintenance and Monitoring

- No easement needed
 - Activities in ROW
 - Activities in an existing easement which can be assigned to the District
- Permanent easement installation of materials or facilities (i.e. stone)
- Right-of-Entry/temporary easement sufficient for most debris/sediment removal
- No compensation







