

Northeast Ohio Regional Sewer District
Regional Stormwater Management Program

CITY OF PARMA
WATER SUMMIT

March 28, 2019

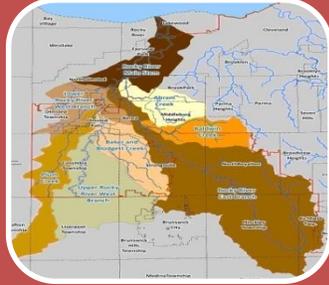
Agenda

- Regional Stormwater Management Program
 - *Bonny Banks Stormwater Detention Basin (Stormes Drive Basin)*
 - *Chevrolet Boulevard Stormwater Detention Basin*
 - *Baldwin Creek Streambank Stabilization*
 - *Upcoming projects*
- Community Cost Share
- Member Community Infrastructure Program
- Southwest Interceptor - Local Sanitary Sewer Evaluation Study
- Affordability

Regional Stormwater Management Program



Inspect & Maintain



Stormwater Master Plans

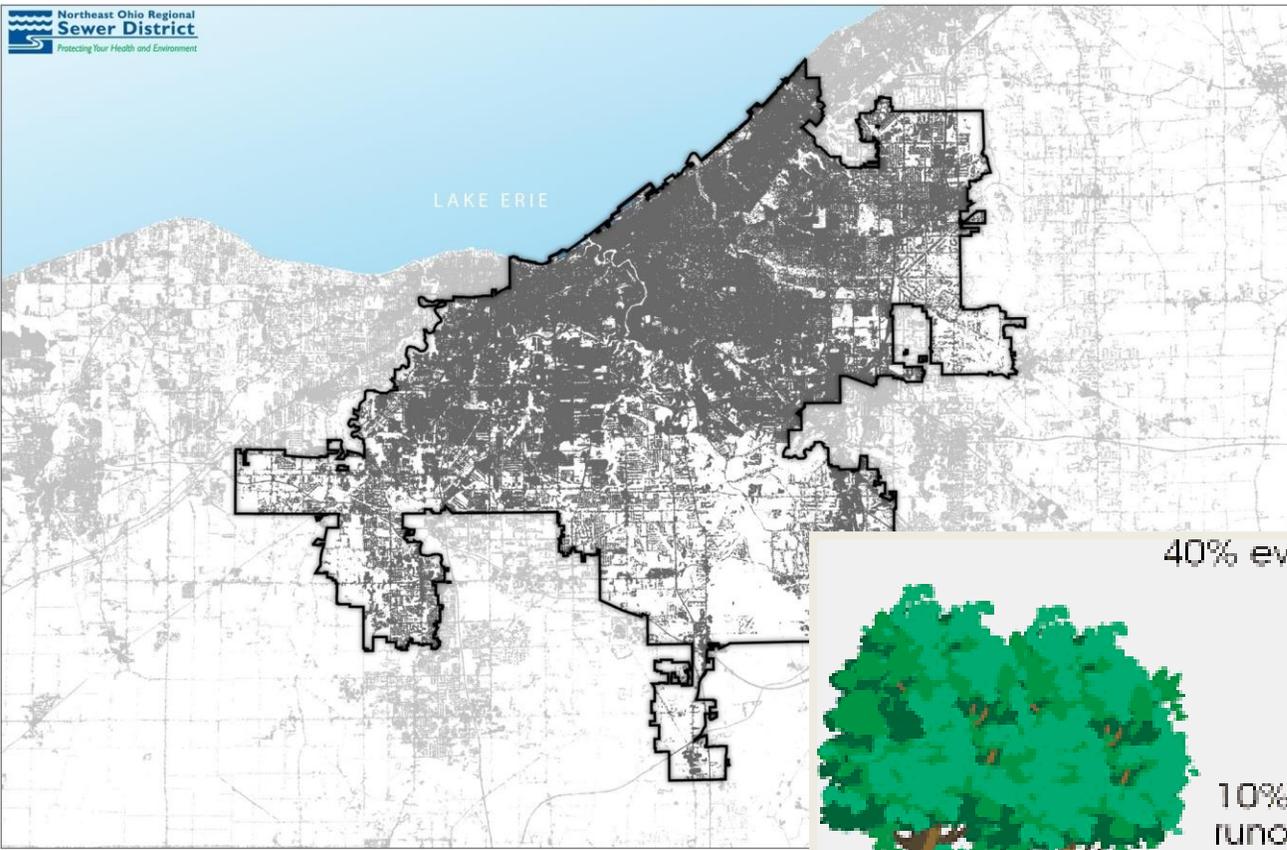


Construct Projects



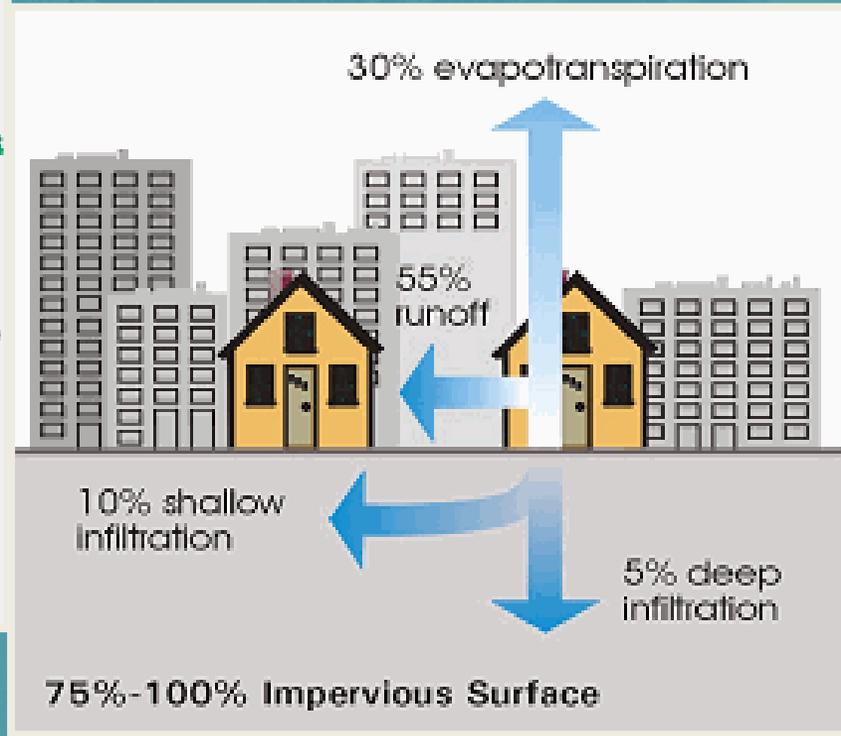
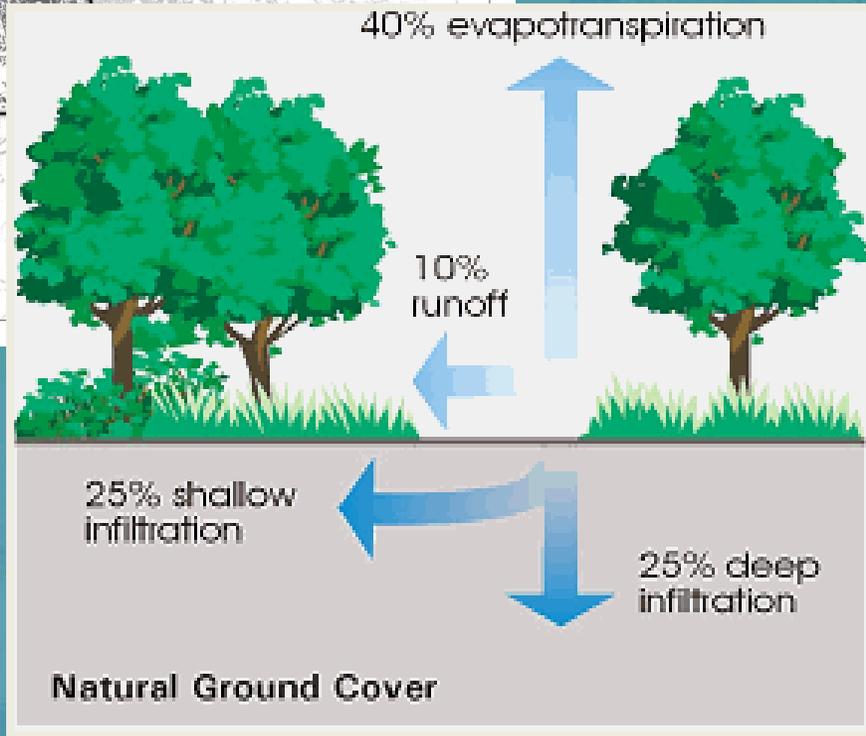
Encourage Good Practices





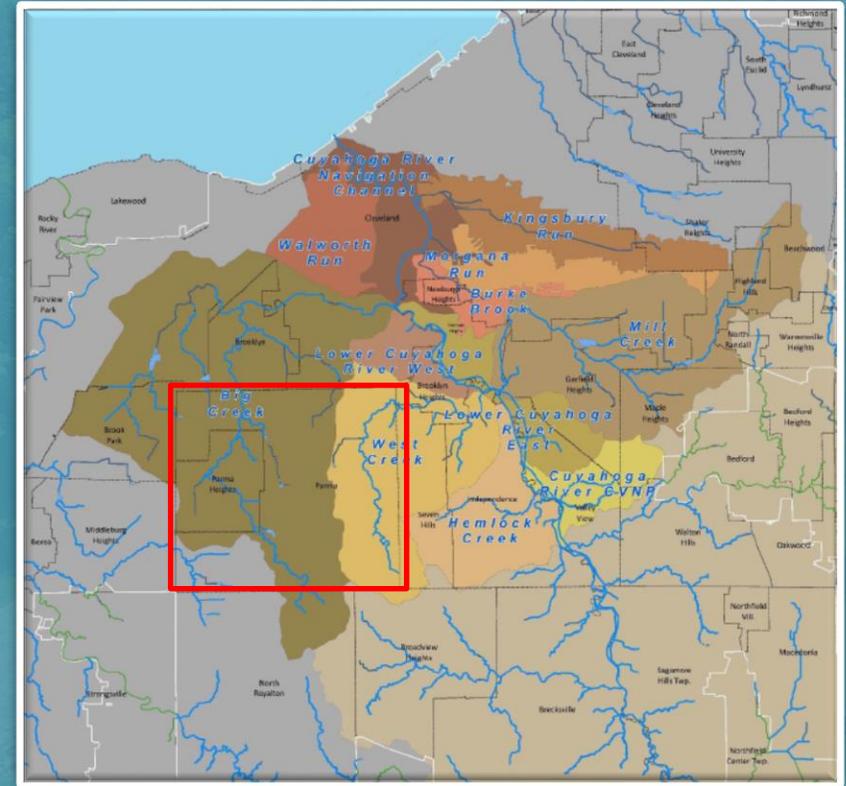
Impervious Surface

- ↳ Stormwater Runoff
- ↳ Flooding & Erosion



Cuyahoga River North SWMP

- Total Study Area: 99,000 acres
 - 11 Subwatersheds
 - 23 Member Communities
- Notice to Proceed - February 10, 2017
- \$8.02 million
- 77% Complete (through February 2019)



To be Completed 4th Qtr 2019

Bonny Banks Basin (Stormes Drive)

- In-line (Baldwin Creek) stormwater detention basin was dredged to restore active storage capacity
- 16,983 cubic yards of sediment excavated & removed
- Completed in December 2018
- Cost \$531,890 (RSMP)



Bonny Banks Basin Rehabilitation

Before



During



Bonny Banks Basin Rehabilitation

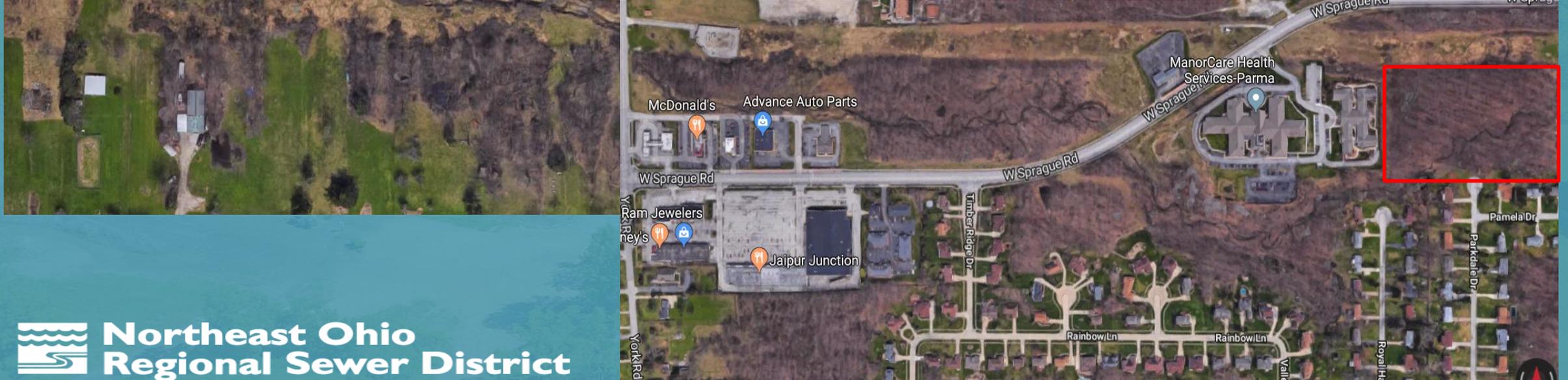
*Nearing
Completion*



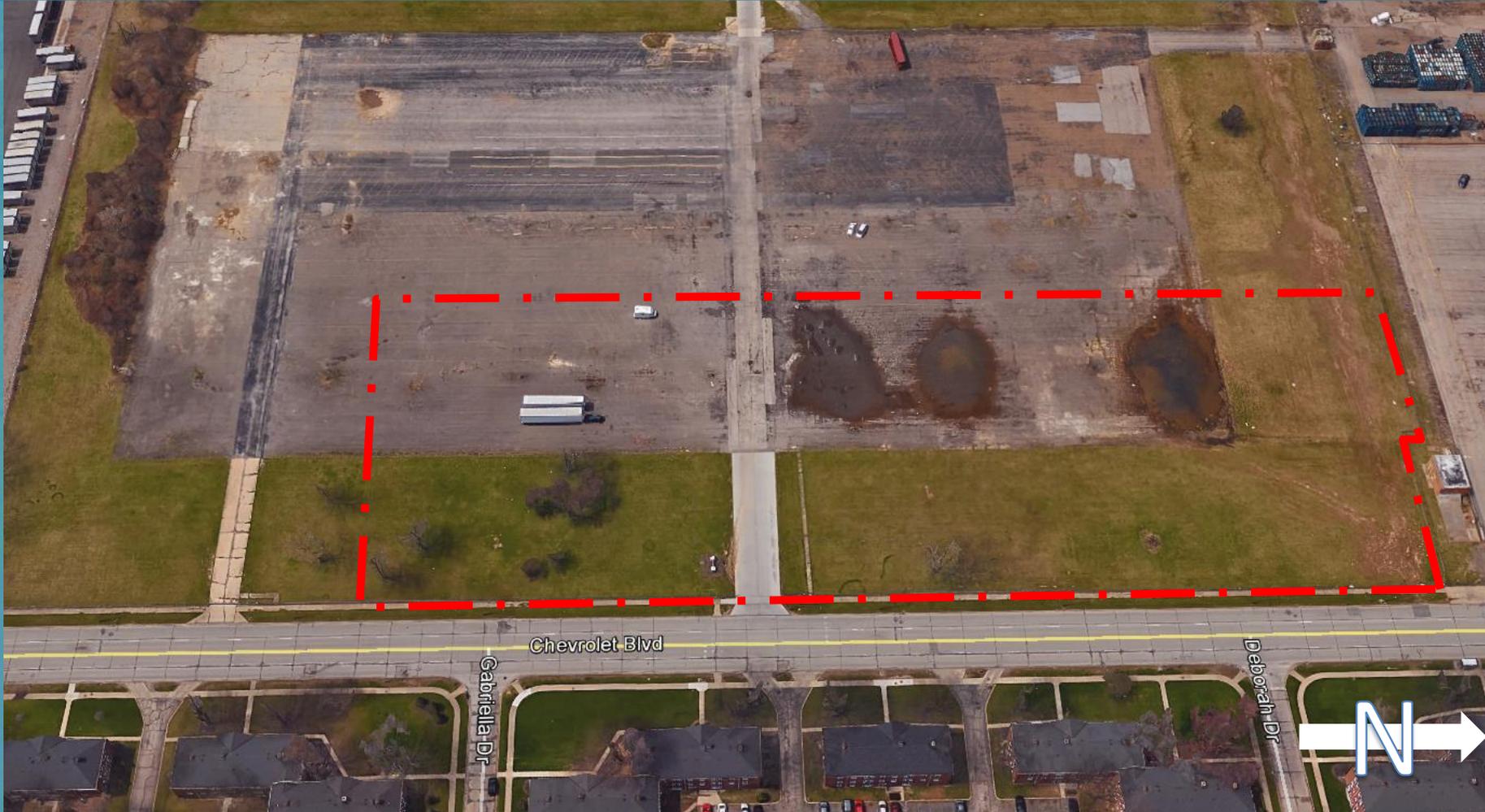
Why regional stormwater management?



Bonny Banks Basin
A wider lens



Chevrolet Boulevard Stormwater Detention Basin



General Motors Plant



**Outlet to Chevrolet Boulevard
Storm Sewer**



**Deborah & Gabriella Drive
Neighborhood**



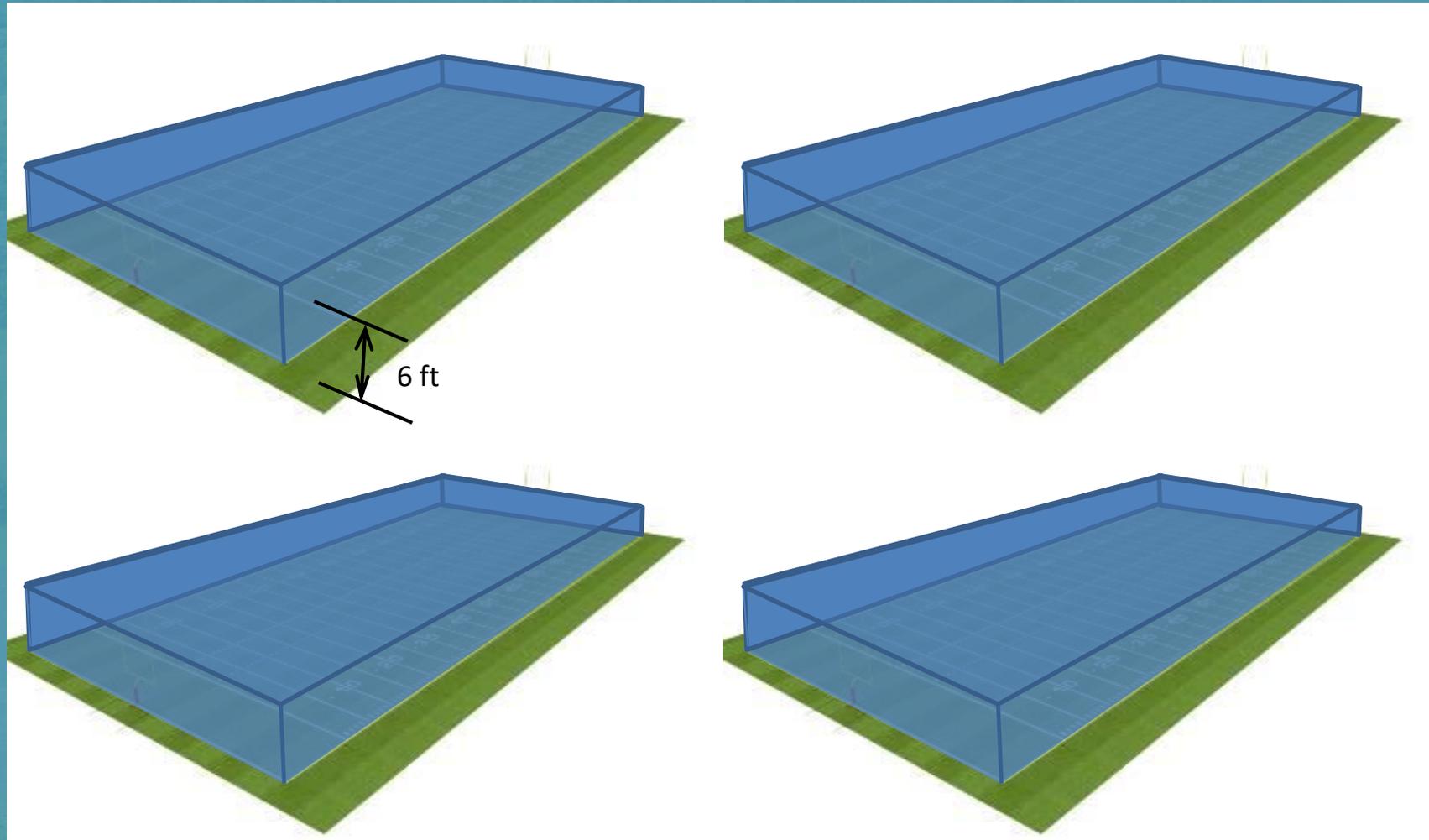
**Inlet to Chevrolet Boulevard
Detention Basin**



32 Acre-feet of storage volume (10.4 MG)

\$2.5M Total Cost - \$1.8M NEORSD Capital Investment

Total Basin Volume \approx 32 ac-ft



Baldwin Creek Streambank Stabilization

- Location: E. Linden Lane, Parma
- Streambank stabilization project
- Reduce erosion, replace failing retaining walls, repair headwalls & street underdrains and storm sewer outfall



Upcoming projects in Parma

- Baldwin Creek Restoration east of Stormes Drive Basin (Bonny Banks Basin); severe erosion & threats to utility
- Big Creek Stream and Sewer project; exposed sanitary sewer manholes
- Big Creek by Ridge Road Stabilization Project; erosion & stream velocity mitigation

Community Cost Share – City of Parma

2018/2019

- \$130,000- Baldwin Creek Stabilization Project, underdrains and headwall repair (RSS)
- \$300,000- Orchard Park culvert and headwall repair (LSS)
- \$200,000- Skylark Drive culvert repair (LSS)
- \$160,300- Stormwater equipment (\$1M allocation agreement)
- \$750,000- Catch basin repair and replacement

Member Community Infrastructure Program

- Grant funding for local sanitary sewer rehabilitation, targeted at reducing basement backups and human health issues
- Parma has been successful in obtaining these grants from NEORSD for **2017, 2018, and 2019** projects
- Total of **\$1,490,196** in funding over three years

Southwest Interceptor

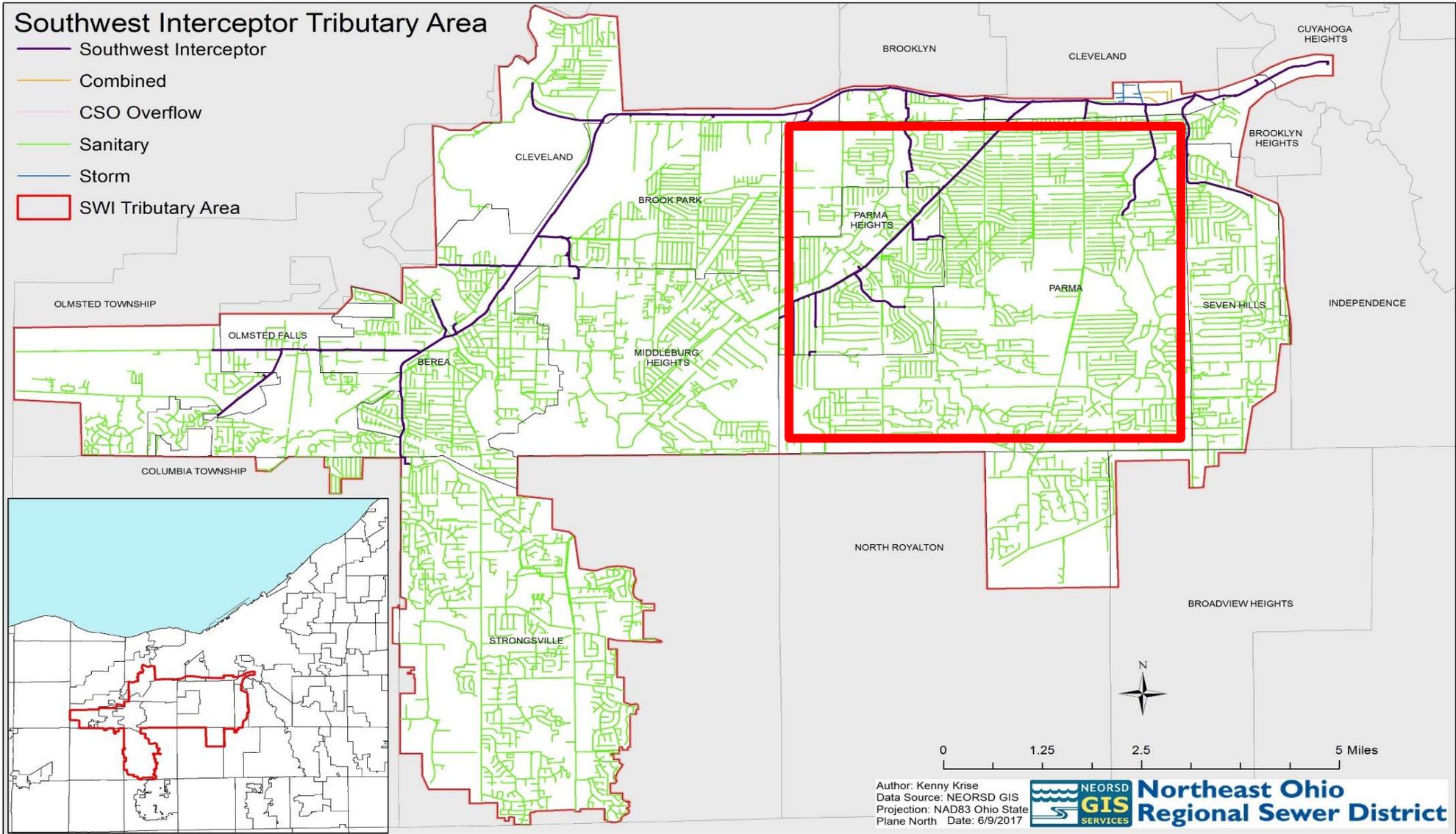
Local Sanitary Sewer Evaluation Study

2018-2020

- Identify sanitary sewer overflows, address basement flooding, sources of **infiltration** and **inflow** to the local sanitary sewer system
- NEORSD grant funding through the Member Community Infrastructure Program for solution implementation

Southwest Interceptor Tributary Area

- Southwest Interceptor
- Combined
- CSO Overflow
- Sanitary
- Storm
- SWI Tributary Area



Author: Kenny Krise
Data Source: NEORS GIS
Projection: NAD83 Ohio State
Plane North Date: 6/9/2017



**Northeast Ohio
Regional Sewer District**

Cost-Saving Programs

- **Homestead** - 65 or older, or permanently disabled at any age with a \$34,000 annual adjustable gross income
- **Affordability** - Rate reduction of 40 percent available for customers whose annual income is at or below 200% of the poverty level
- **Crisis Assistance** - Available to customers affected by a major event in their life (i.e. sudden medical expenses, job loss or divorce) offering financial assistance of 50% of wastewater sewer balance due
- **Summer Sprinkling** - bases your summer use on your average winter water consumption

Customer Service (216)881-8247





Questions?

*Matt Scharver,
Deputy Director of Watershed Programs*

*Donna Friedman
Watershed Team Leader/ Parma community contact
216-881-6600 Ext. 6768
friedmand@neorsd.org*

Customer Service line: (216) 881-8247