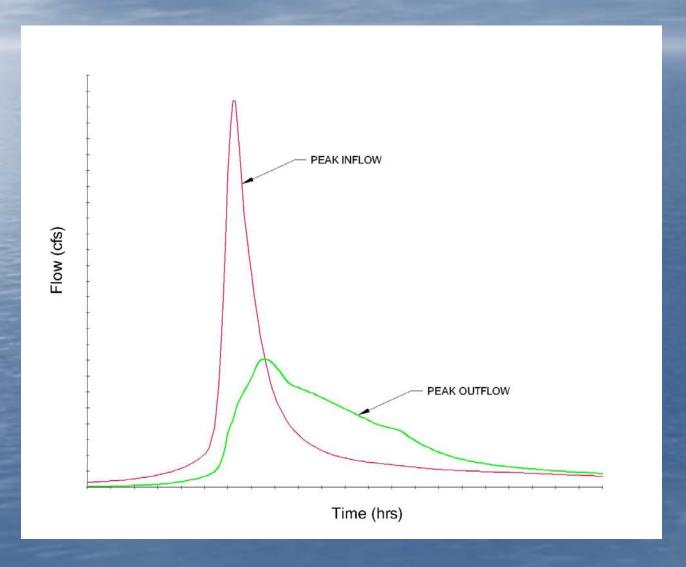


Sheffield Village Flood Prevention Strategies

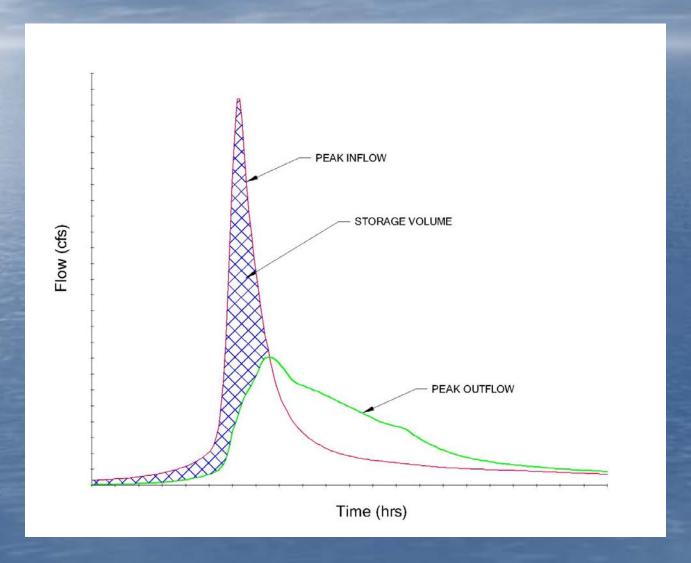
Jungbluth Ditch
From Abbe Road to Interstate 90
August 14, 2008
John D. Hunter, Mayor

Generic routed hydrograph-A

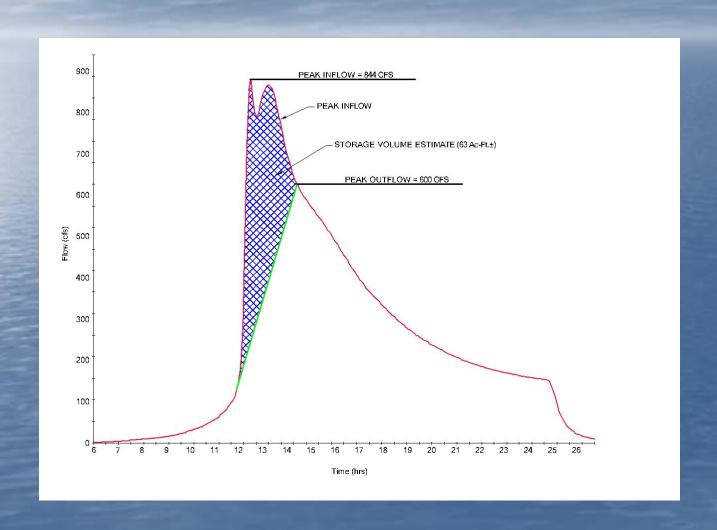
Shows Pre & Post Retention



Generic routed hydrograph Shows Storage Volume as an area

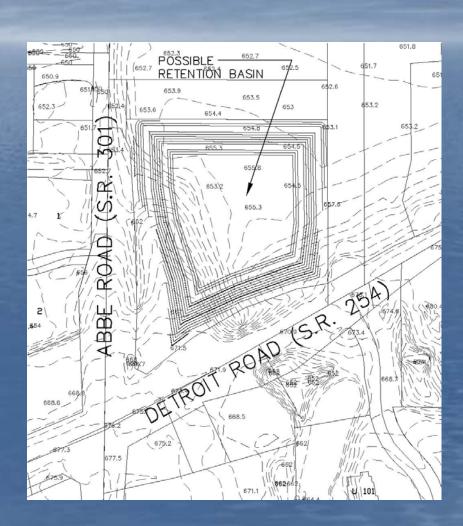


Existing hydrograph Shows Needed Storage Volume as an area



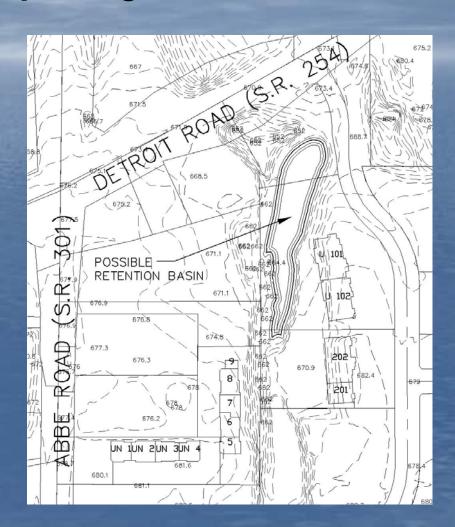
Brown property basin plan

Shows possible
 34.1 Ac-ft +/-

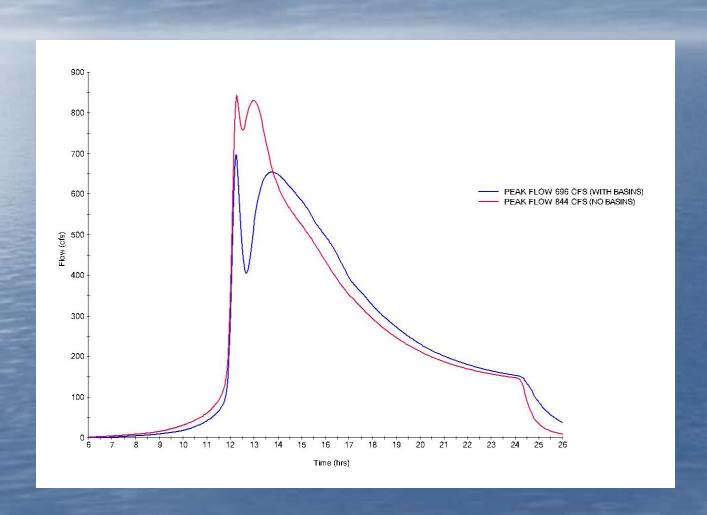


Waterford Property Basin

Shows possible3.4 Ac-Ft +/-



Hydrographs if Basins are Built



Impact of basin construction on inundation elevations:

Strategy

- 1. Waterford basin constructed
- 2. Brown basin constructed
- 3. Willoway basin constructed

Effect

neglible

lowers WS 0.2-1.0 feet

under study

Note- Combined impacts of multiple strategies is only approximately linear

Preliminary Project Costs:

- Waterford Basin
- Brown Basin (Const)
- Brown Property
- Willoway Basin

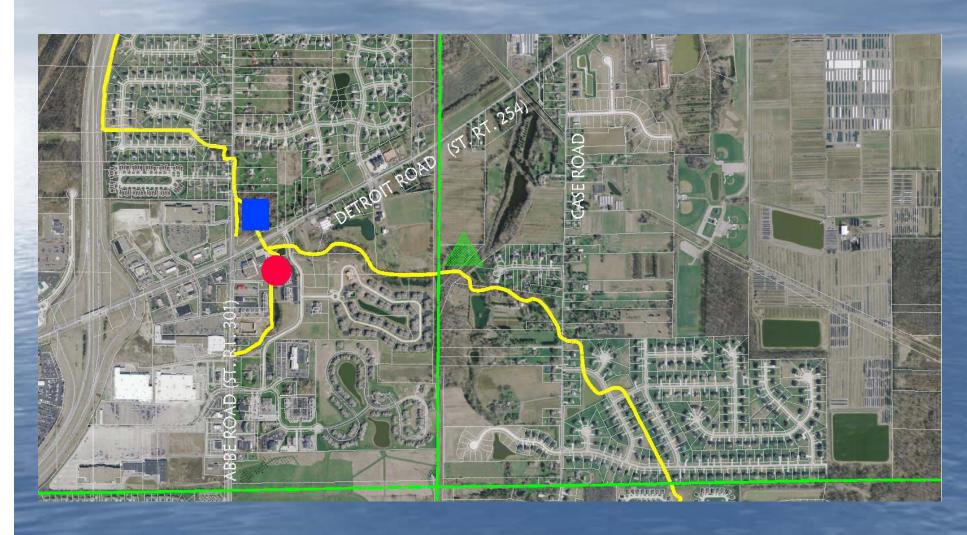
\$150,000

\$1,525,000

\$1,200,000

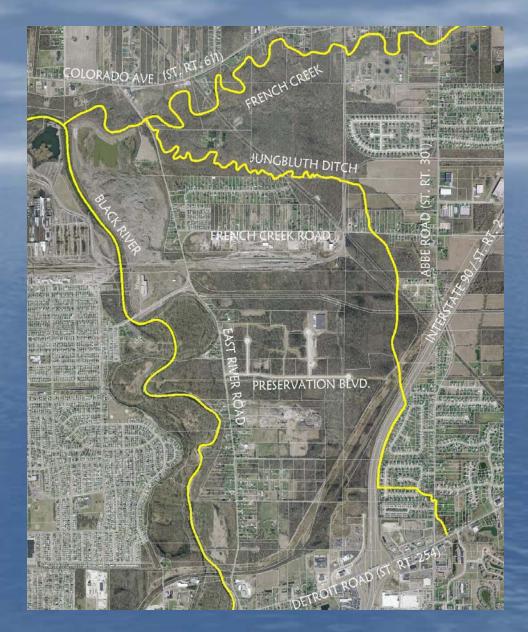
under study

Potential Basin Locations



Jungbluth Ditch





Other noteworthy issues:

- The cities of Avon & North Ridgeville are continuing to work modifications to their existing basins upstream.
- The future development of upstream areas in the watershed will reduce flooding in the future.
- ODOT is replacing Abbe Road Culvert/Bridge
- The Lorain County Engineer is working on a Regional Storm Water Control Feasibility Study.

Next Steps for Mayor:

- Make sure ODOT analyzes impact of New Abbe Road Culvert on Flooding
- Continue to work on Regional Solutions such as Willoway
- Continue to identify possible revenue sources

Next Steps for Council:

- Determine the viability of this project in terms of its costs and benefits.
- Develop a project financing plan.
- Help set direction for future alternatives analysis

Next Steps for the Engineer (After the council develops a financing plan and confirms project viability):

- Produce project timeline and permitting plan (12-15 months to start of Construction);
- Prepare plans and specifications; and
- Complete and publish a report summarizing all findings
- Supervise Bidding & Construction
- Total Duration 2 years minimum, likely 2.5 years before completion

Open Floor to Questions?

THANK YOU FOR ATTENDING AND PARTICIPATING