

A map of North Walnut Township, Indiana, showing a network of roads and water features. The map is overlaid with a green semi-transparent background. Roads shown include South Walnut Dr, Bar Cir, Pillows Dr, Marquardt Dr, Avalon Dr, and Fair Oaks Dr. Highway markers for 79 and 360 are visible. A creek labeled 'Fair Oaks Creek' flows through the area. The text 'Wood by the Lake' is partially visible at the bottom left.

NORTH WALNUT TOWNSHIP STORMWATER CONVEYANCE STUDY

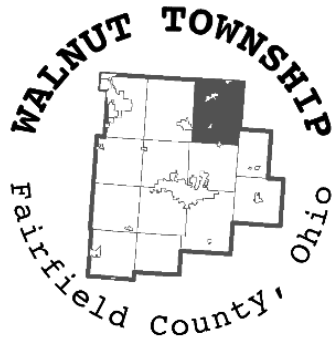
August 25th
7:00pm -8:30pm



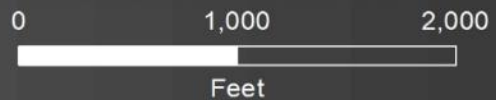
AGENDA

- Introductions
- Overview of Area
- Overall Study Expectations
- Model Runs
- Additional Information Gathered
- Initial Discussion on Solutions and Funding
- Public Comments and Questions
- Wrap-up of formal discussion
- Informal Public Review of Maps and Diagrams on Stage

ATTENDEES



OVERVIEW OF AREA



100 YEAR FLOODPLAIN



0 1,000 2,000
Feet

100 YEAR FLOODPLAIN VS. 25 YEAR FLOODPLAIN

- The hazard area or, Special Flood Hazard Area (SFHA), shown on the flood map is known as the 100-year floodplain. It is more precisely defined as **the floodplain associated with a flood that has a 1% annual chance of being equaled or exceeded in any given year.**

100-year flood-there is a 1% chance of having that flood in any given year
vs.

25-year flood-there is a 4% chance of having that flood in any given year

Reoccurrence in years	Probability of occurrence in any given year	Percent chance of occurrence in any given year
500	1 in 500	.2%
100	1 in100	1%
50	1 in 50	2%
25	1 in 25	4%
10	1 in 10	10%
5	1 in 5	20%
2	1 in 2	50%

HISTORIC & RECURRING FLOODING

The area has known flooding issues and photographs of past flood events:

- 1997
- 2002
- July 11th & 14th 2017
- February 17th 2022

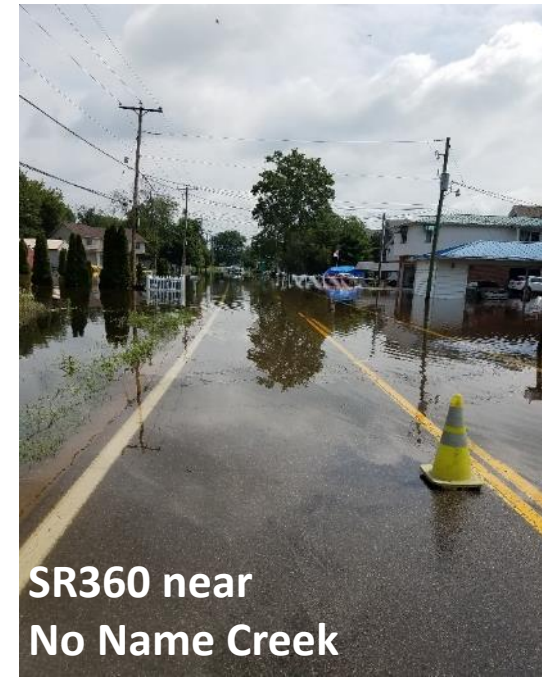
The 2017 and 2022 flooding events were due to approximately 2-year to 5-year rainfall events with ~1.8 to 2.7 inches. This suggests the current level of service is the 2-yr event or less.



SR360 near No Name Creek

Sellers Drive

February 17, 2022



SR360 near
No Name Creek



Sellers Drive

July 14, 2017

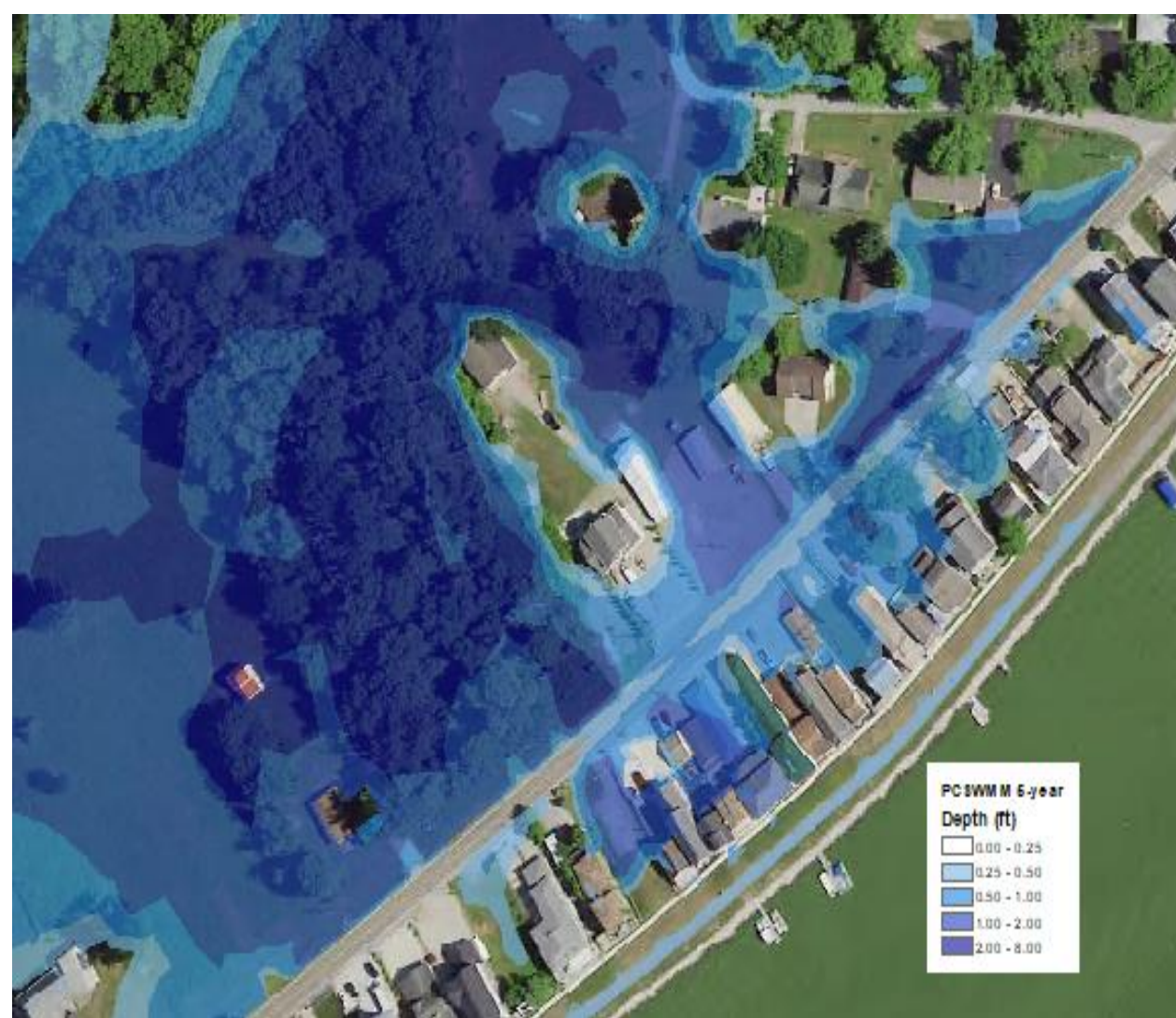
STUDY EXPECTATIONS

- Typical stormwater design level of service in central Ohio
 - Local Roads: 2-year
 - Minor Arterial Roads: 5-year
 - Major Arterial Roads: 10-year
- North Walnut Township stormwater design level of service
 - Goal: 25-year
 - Minimum: 10-year
- The study will develop alternatives to improve interior flooding and drainage but will not address flooding from the South Fork Licking River.

PRELIMINARY MODEL RUN: 5-YEAR STORM

PRELIMINARY MODEL RUN: 25-YEAR STORM

5-YEAR MODEL RUN vs. JULY 14, 2017 PHOTOGRAPHS



5-YEAR MODEL RUN vs. JULY 14, 2017 PHOTOGRAPHS



ADDITIONAL INFORMATION GATHERED

Tasks Completed:

- Data Collection
- Survey and Field Mapping
- CAD Base Mapping
- Evaluate Existing Flooding Issues (Photos & Gages)
- Preliminary H&H Model Construction



NEXT STEPS

- Alternatives Analysis
- Project Phasing
- Opinion of Probable Construction Cost Estimate
- Stormwater Master Planning for the project area
- Funding Strategies- OPWC, HMGP etc.



STATUS OF OTHER STUDIES



QUESTIONS??

BREAK FOR DISCUSSION AROUND MAPS

