



SOUTHWESTERN PARKWAY CSO STORAGE BASIN

Conceptual Design Input Meeting #3

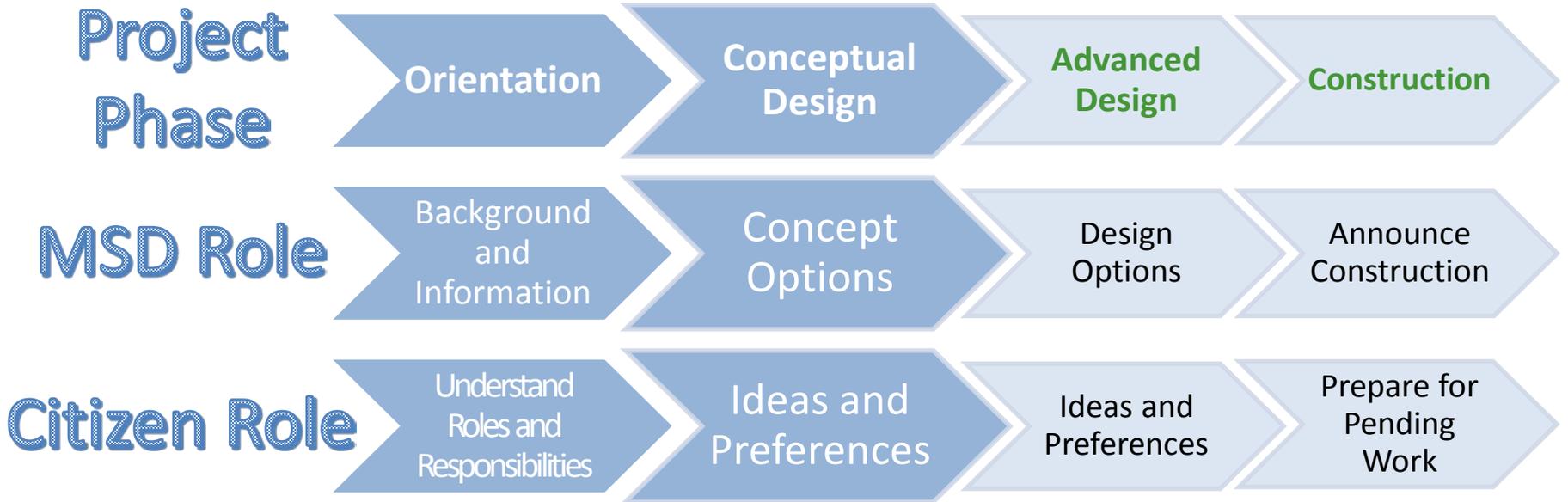
December 14, 2015

COMMUNITY OUTREACH

PROJECT BASED STRUCTURED PUBLIC INPUT

Previous Project Meetings

- September 24, 2013 – IOAP Orientation Meeting
- March 10, 2015 – Neighborhood Orientation Meeting
- March 23, 2015 – Conceptual Design Meeting #1
- October 19, 2015 – Mtg. with Councilwoman and Residents
- November 12, 2015 – Conceptual Design Meeting #2



AGENDA

- **Demographic Questions**
- Project Background
- Polling Results
- Basin Location and Possible Amenities
- Collect Question Cards
- Answer Questions

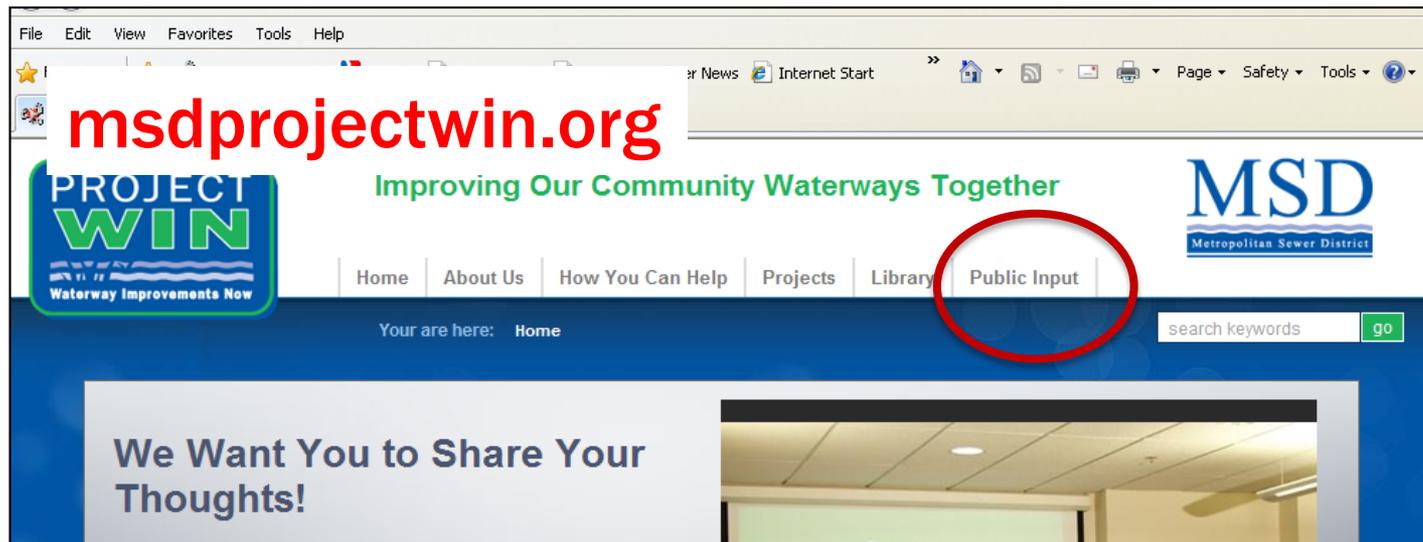
PUBLIC ENGAGEMENT: “CLICKERS” AND ONLINE POLLING

“Clickers” for Public Meetings

- Simple to use
- Anonymous (no one knows your answers)
- Simultaneous (we all see the results at the same time)
- Equal voice for all



Online polling for those who can't attend public meetings



File Edit View Favorites Tools Help

msdprojectwin.org

PROJECT WIN
Waterway Improvements Now

Improving Our Community Waterways Together

MSD
Metropolitan Sewer District

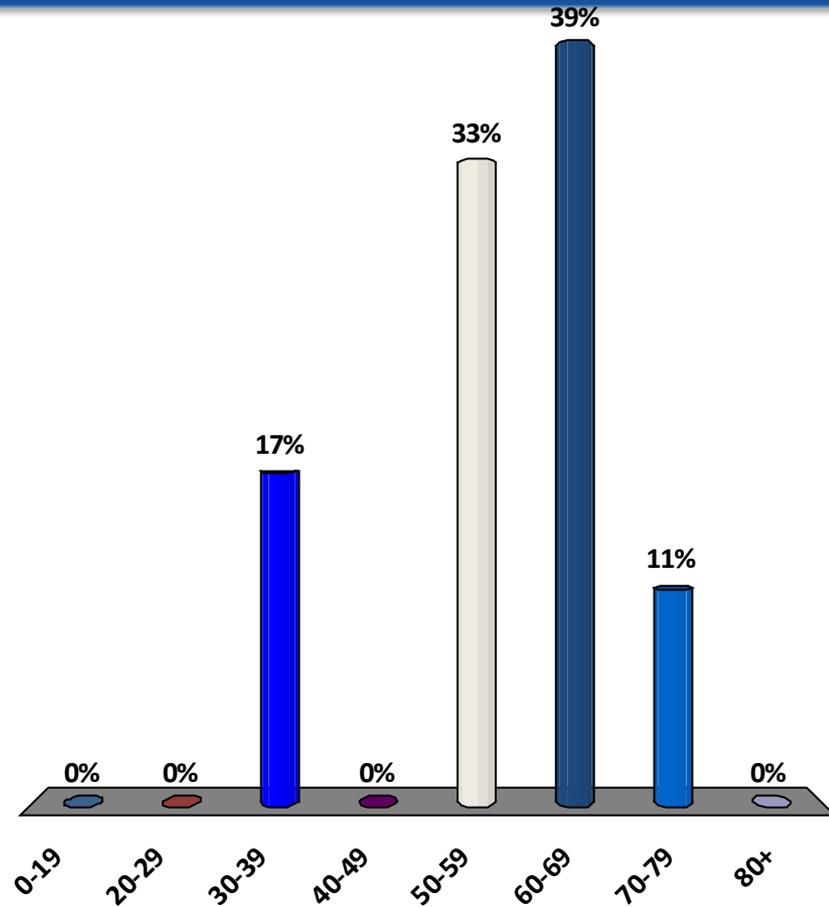
Home About Us How You Can Help Projects Library **Public Input**

Your are here: Home

We Want You to Share Your Thoughts!

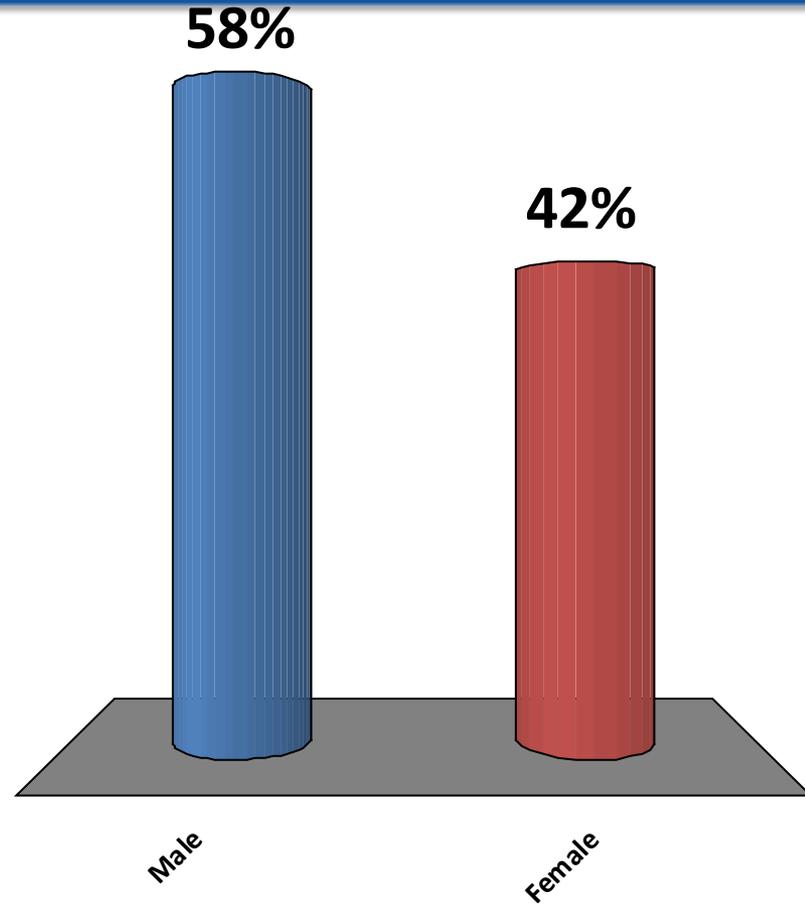
How Young Are You?

1. 0-19
2. 20-29
3. 30-39
4. 40-49
5. 50-59
6. 60-69
7. 70-79
8. 80+



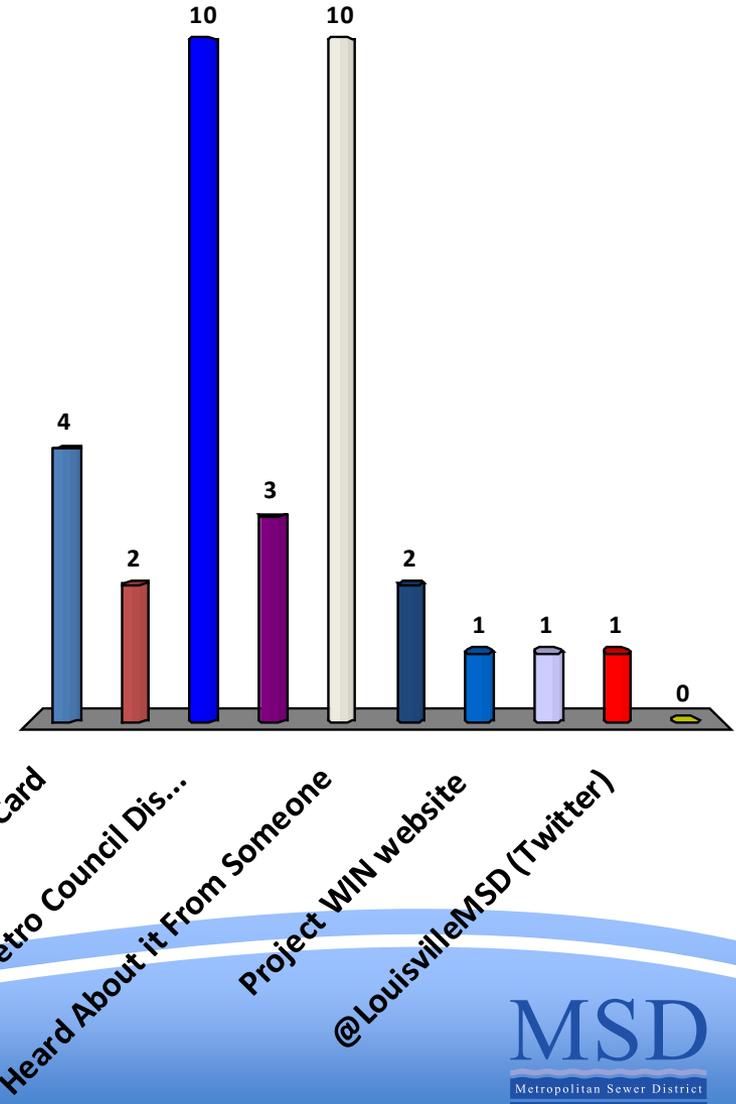
Gender?

1. Male
2. Female



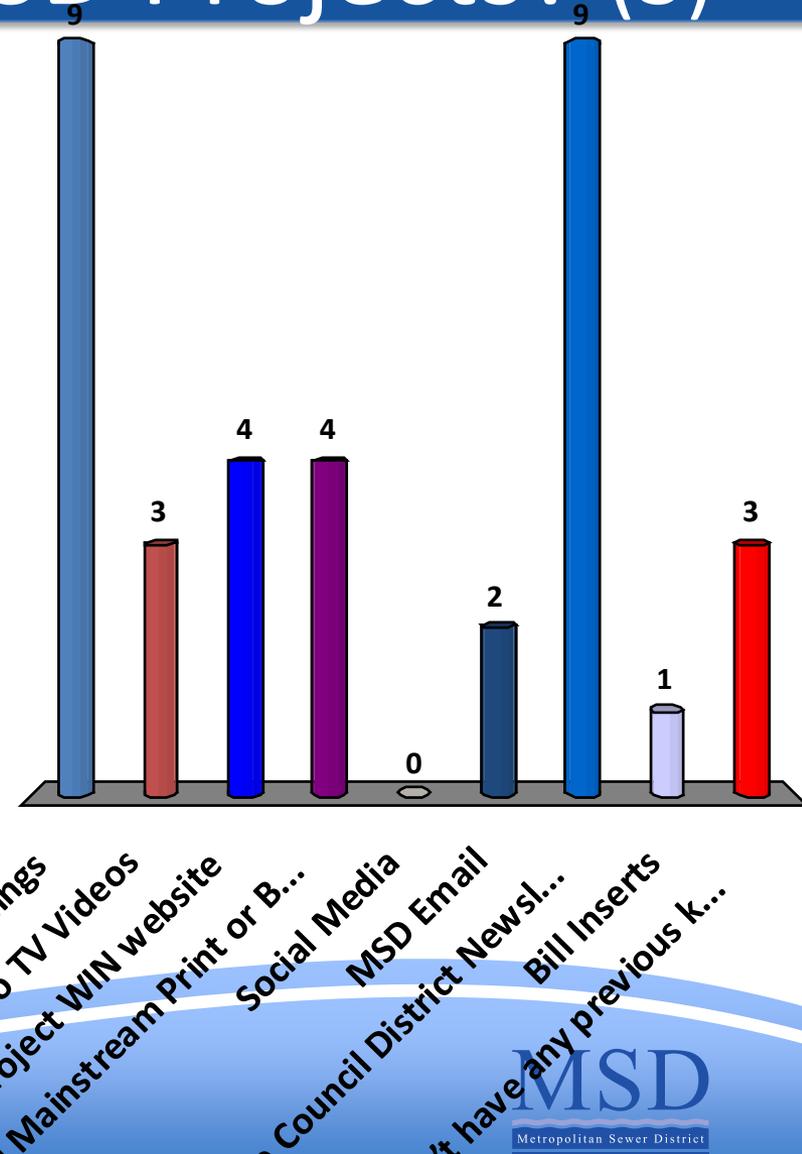
How Did You Hear About This Meeting? (3)

1. Post Card
2. Saw It in the CJ
3. Saw it in a Metro Council District Newsletter
4. Heard about it from Neighborhood Association
5. Heard About it From Someone
6. Received a Flyer
7. Project WIN website
8. MSD Email
9. @LouisvilleMSD (Twitter)
10. Other



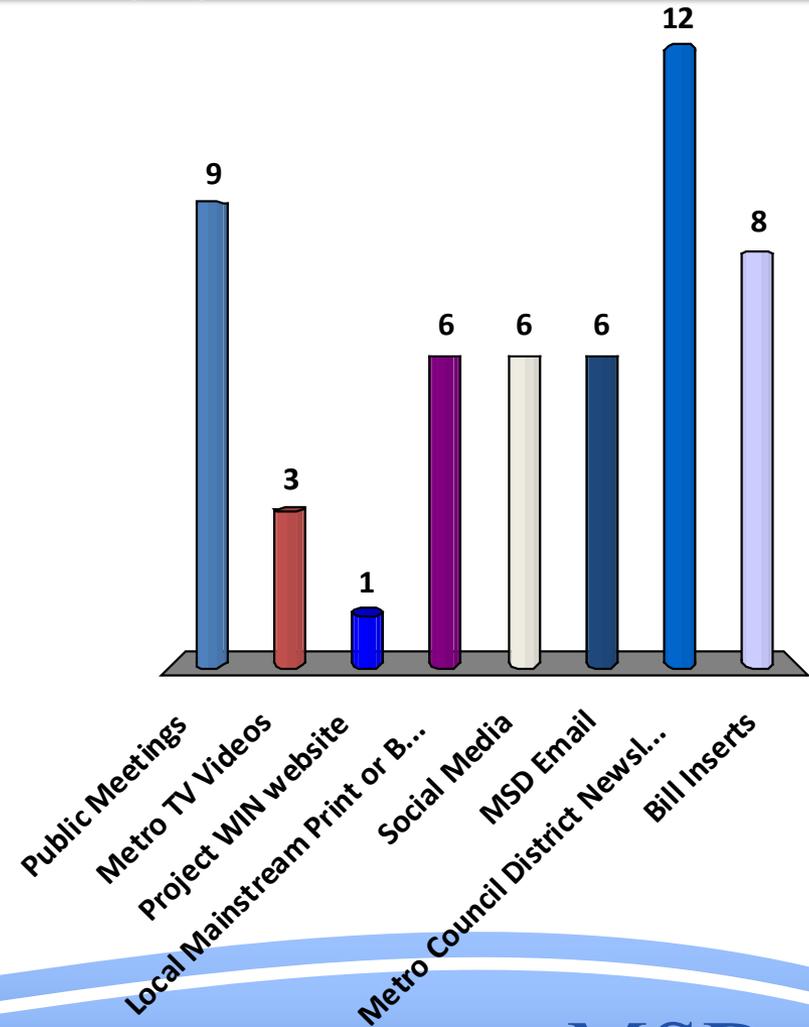
What Are Your Primary Sources of Information About MSD Projects? (3)

1. Public Meetings
2. Metro TV Videos
3. Project WIN website
4. Local Mainstream Print or Broadcast Media
5. Social Media
6. MSD Email
7. Metro Council District Newsletter
8. Bill Inserts
9. I don't have any previous knowledge of MSD projects.



How Would You Like to Learn About MSD Projects? (3)

1. Public Meetings
2. Metro TV Videos
3. Project WIN website
4. Local Mainstream Print or Broadcast Media
5. Social Media
6. MSD Email
7. Metro Council District Newsletter
8. Bill Inserts



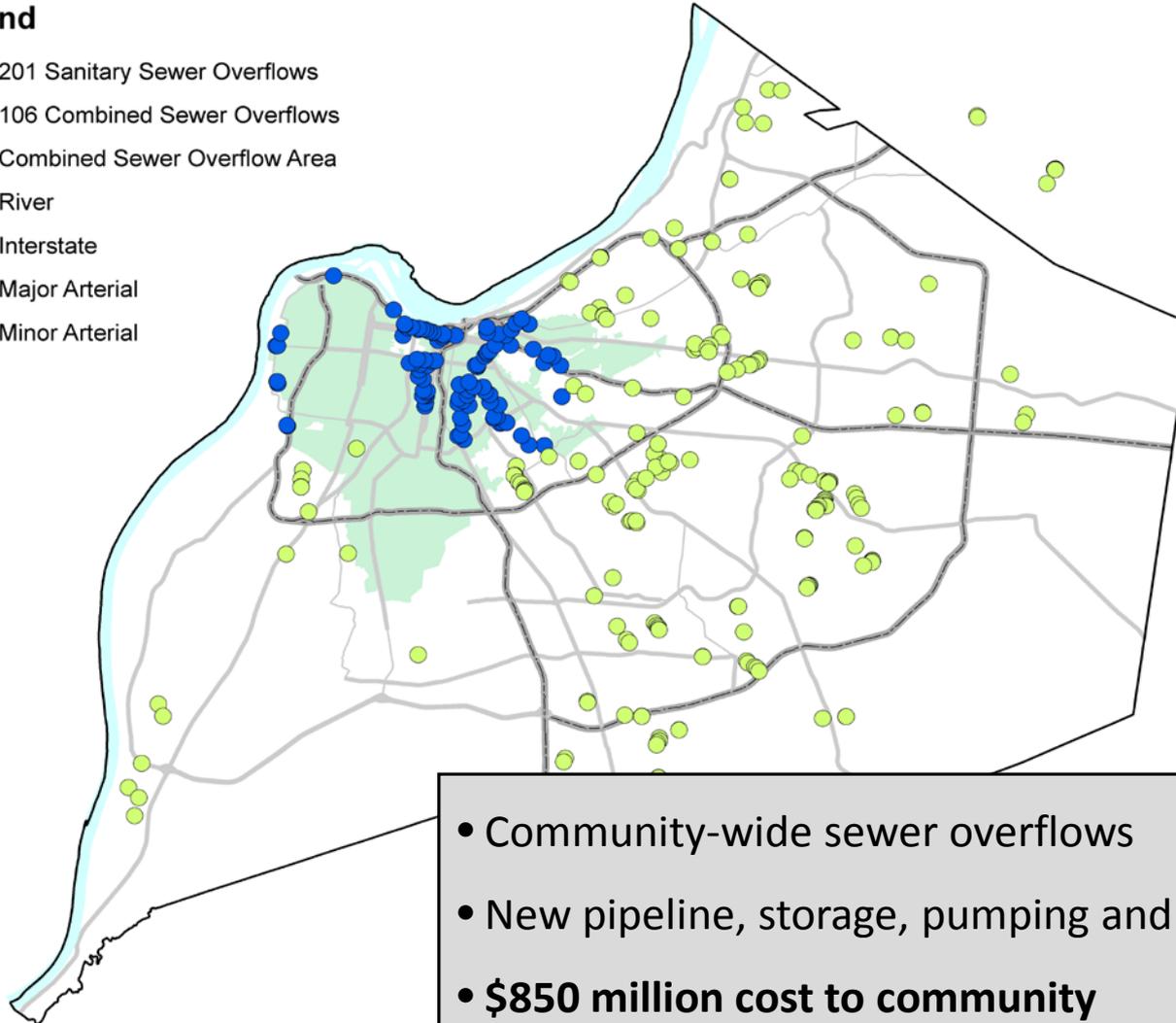
AGENDA

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- **Project Background**
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SEWER OVERFLOW LOCATIONS (2008)

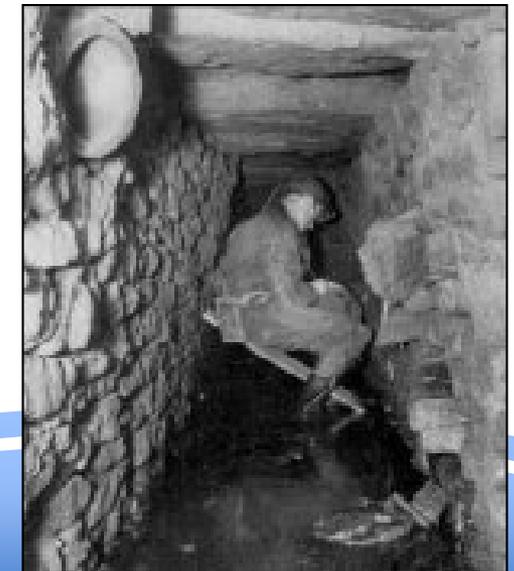
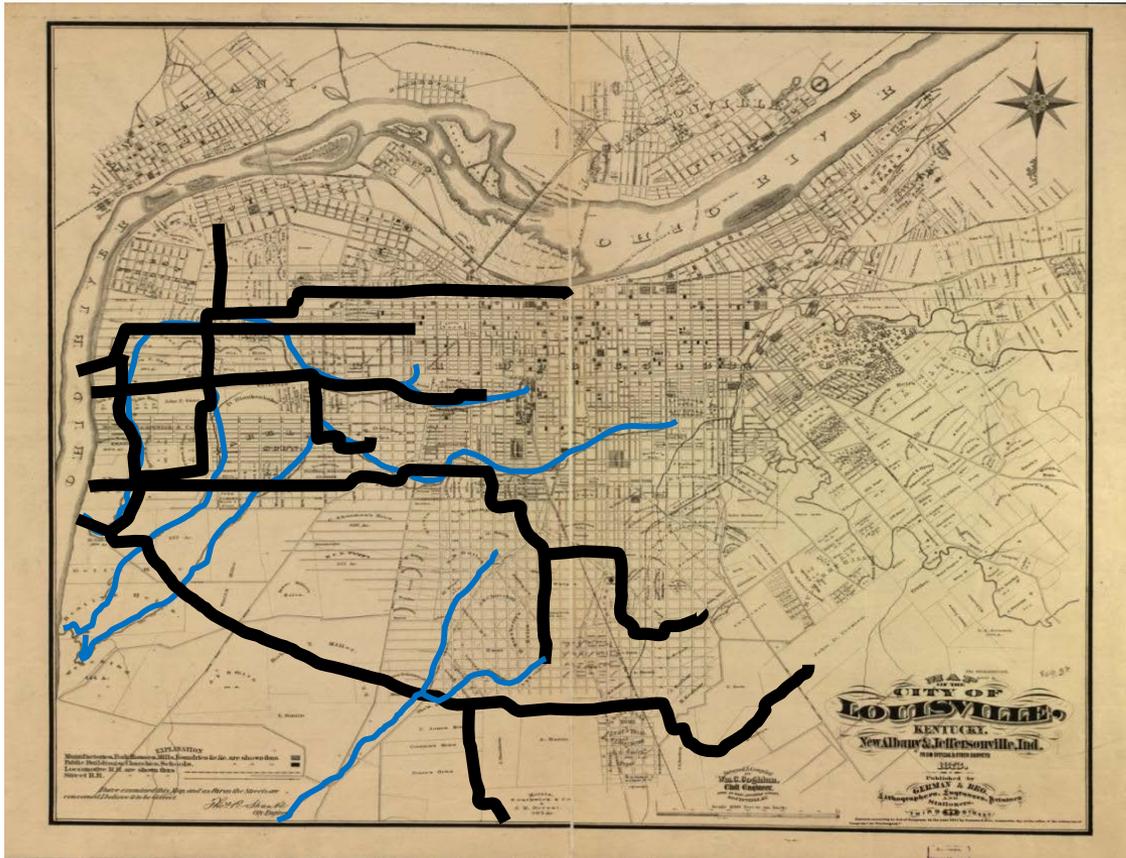
Legend

- 201 Sanitary Sewer Overflows
- 106 Combined Sewer Overflows
- Combined Sewer Overflow Area
- River
- Interstate
- Major Arterial
- Minor Arterial



- Community-wide sewer overflows
- New pipeline, storage, pumping and treatment
- **\$850 million cost to community**

SEWERS FOLLOWED NATURAL DRAINAGE



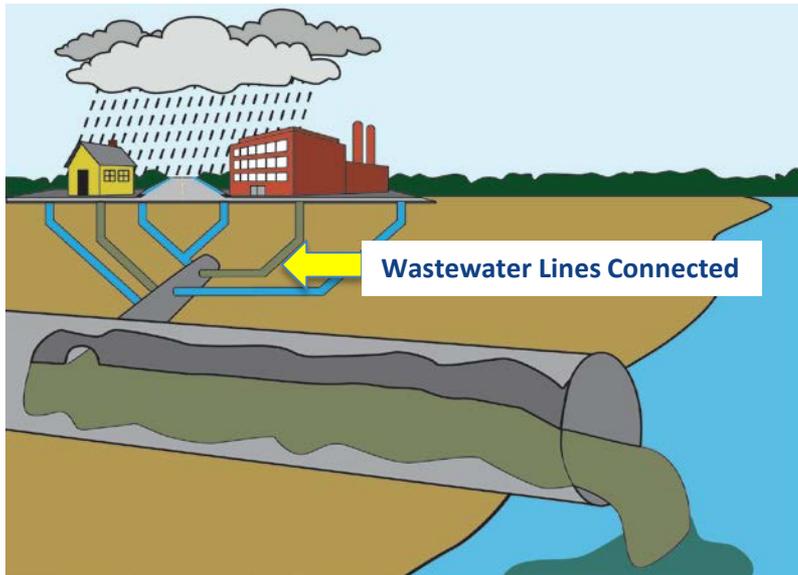
Q – Why does this have to be in my neighborhood?

A – Gravity

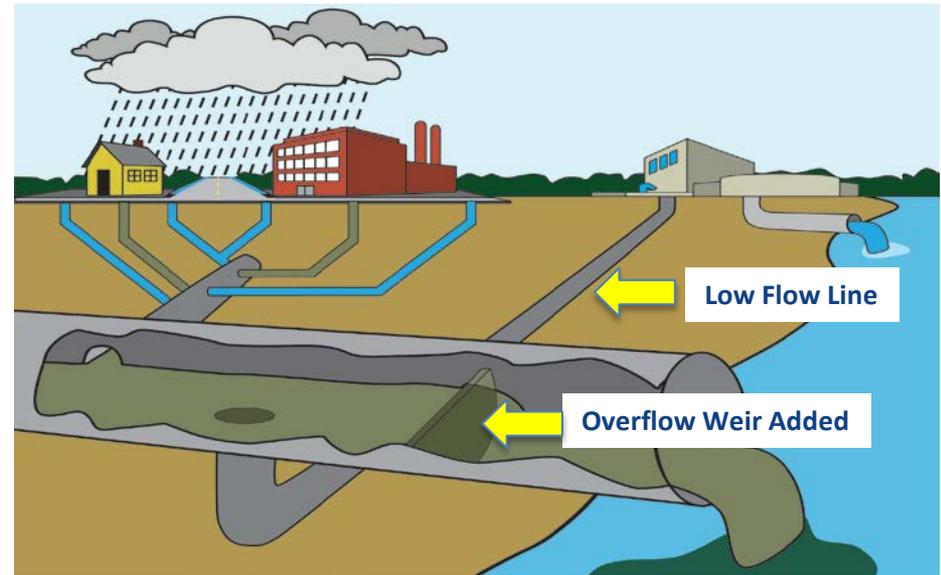
WHAT IS A COMBINED SEWER?

What is a combined sewer?

- Both storm water and wastewater conveyed in the same system



Original Combined Sewers discharged directly to rivers and streams

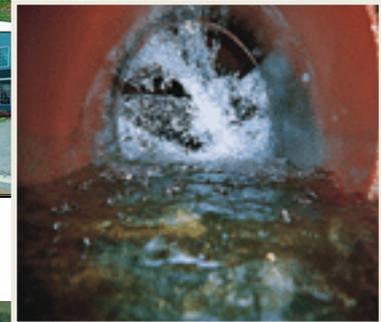


Wastewater treatment added in 1958. Dry weather flow treated. Some wet weather flow discharged to prevent flooding.

HOW DO WE CONTROL OVERFLOWS?

Source Control Projects

- Green infrastructure
- Downspout disconnections
- Sump pump disconnections
- Sewer rehabilitation



Gray Infrastructure Projects

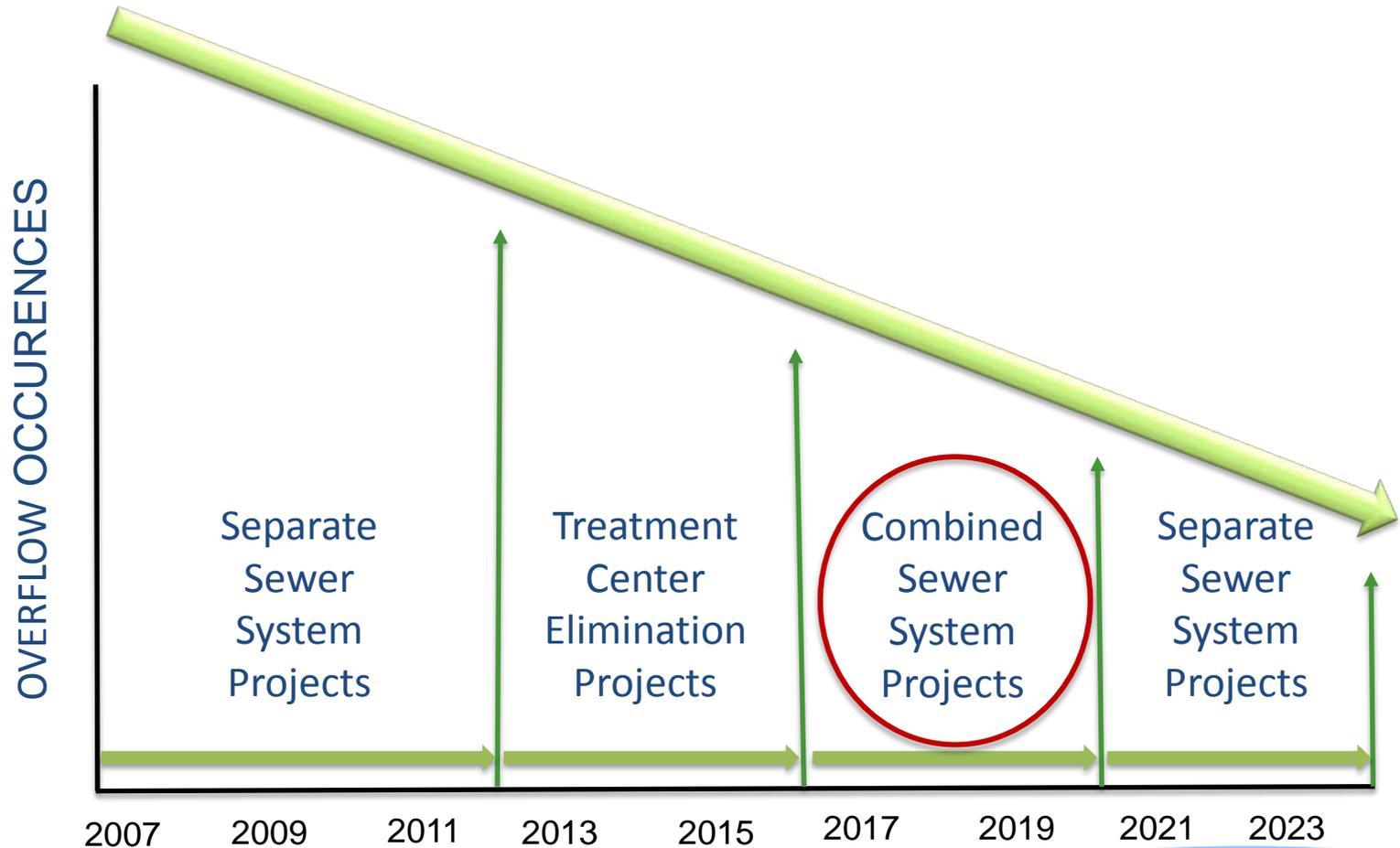
- Pipeline projects
- Pump station expansions
- Wastewater treatment plant expansions
- **Storage Basins**



CSO STORAGE BASINS PER CONSENT DECREE



PROGRAM STATUS



CSOs IN SHAWNEE PARK

DRY WEATHER DAY

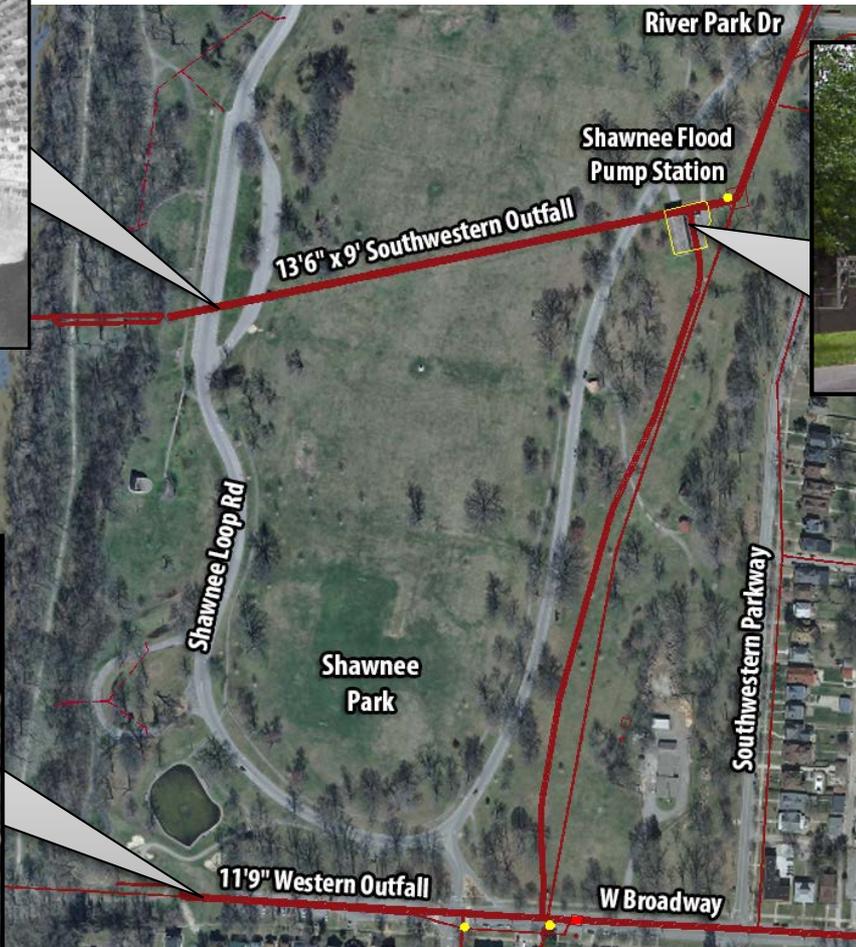


EXISTING SEWERS & FLOOD PROTECTION FACILITIES IN SHAWNEE PARK



Sewers through Shawnee Park built in 1910

Ohio River



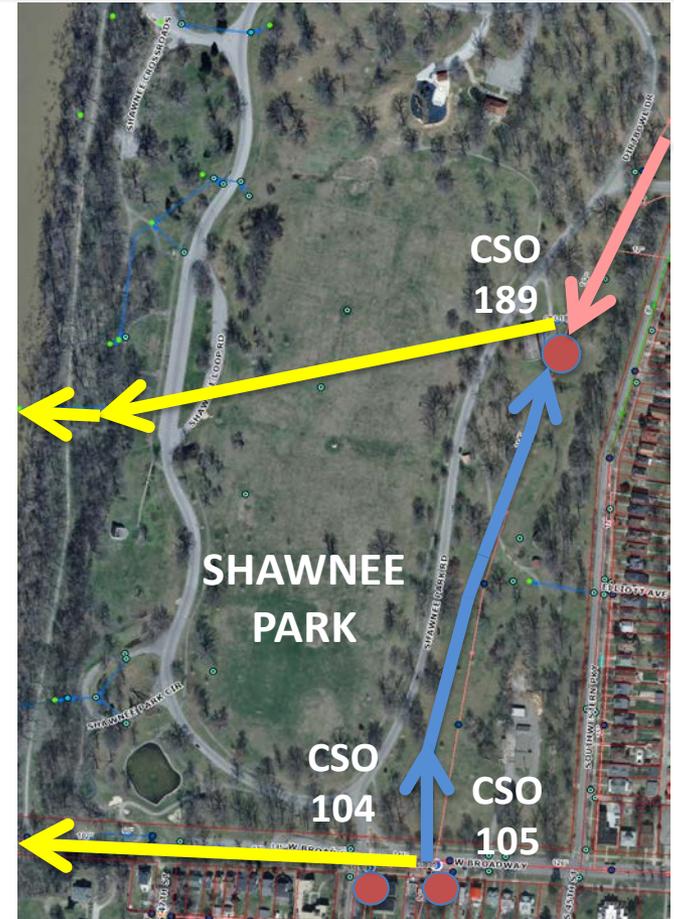
U.S. Army Corps of Engineers built Shawnee Flood Pumping Station/Levee system in Shawnee Park in 1951

CSOs IN SHAWNEE PARK

CURRENT WET WEATHER SITUATION

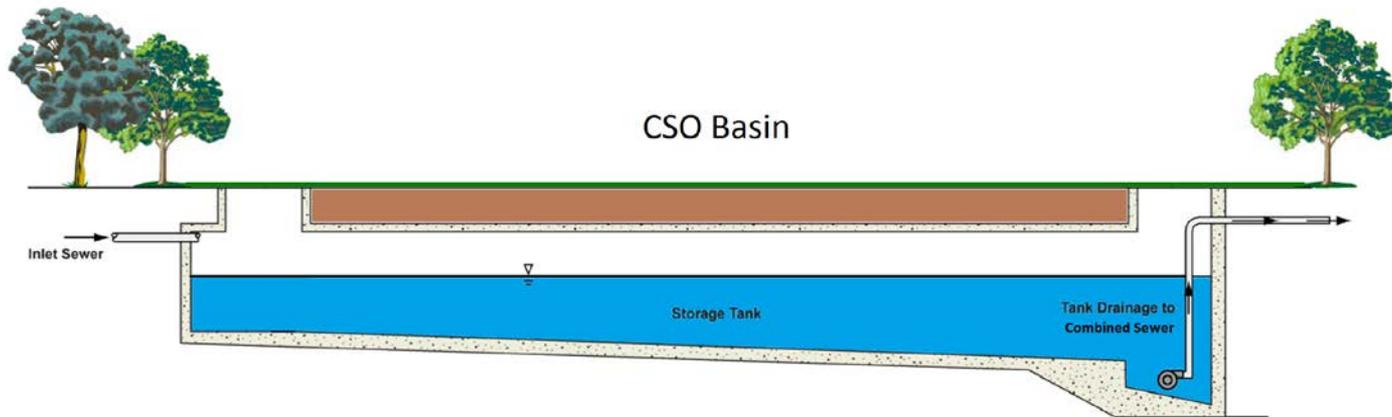
Untreated combined sewage is discharged to Ohio River

- Sewage overflows occur with **1/10 inch rainfall event**
- 74 overflows per typical year
- 115,000,000 gallons of overflow volume per typical year



WHAT IS A CSO STORAGE BASIN?

- CSO Storage Basin provides temporary storage for wet weather overflows that would otherwise flow directly to creeks, streams, and rivers
- Released back into the collection system for treatment when system capacity is available



PROJECT INFORMATION

- Project is a component of the Consent Decree
- Storage volume is 20 million gallons
 - Total reduction from 74 overflows to 24 overflows per “typical year”
- Basin will be underground and covered
- **Operational by December 31, 2018**
- **Project Completion by Summer 2019**

AGENDA

- Demographic Questions
- Project Background
- **Polling Results**
- Basin Location and Possible Amenities
- Collect Question Cards
- Answer Questions

SOUTHWESTERN PKWY CSO BASIN LOCATION

- Received input on two basin locations within Shawnee Park:
 - Site A: Existing Maintenance Building
 - Site B: Great Lawn
- Received input on the important considerations for the public



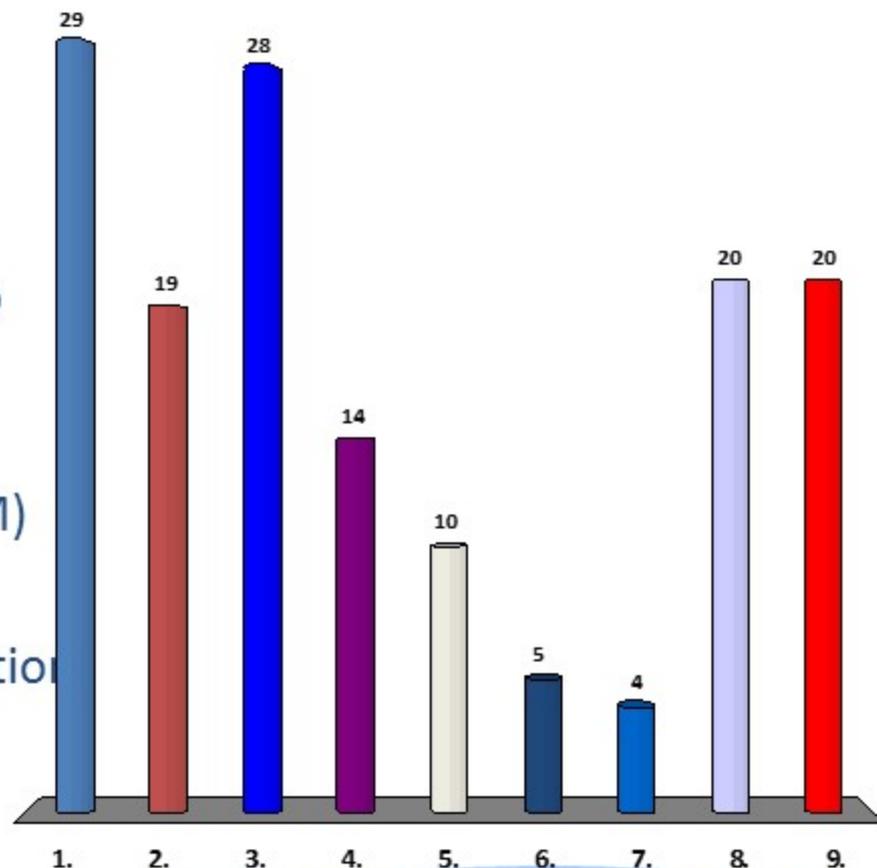
POLLING RESULTS

- Public meeting held on November 12, 2015
 - Fifty (50) attendees
 - Forty (40) provided feedback
- Online survey that was active from November 16, 2015 to December 7, 2015
 - Two hundred eighty (280) participants
 - Two hundred fifty-three (253) provided feedback

NOVEMBER 12, 2015 PUBLIC MEETING POLLING RESULTS

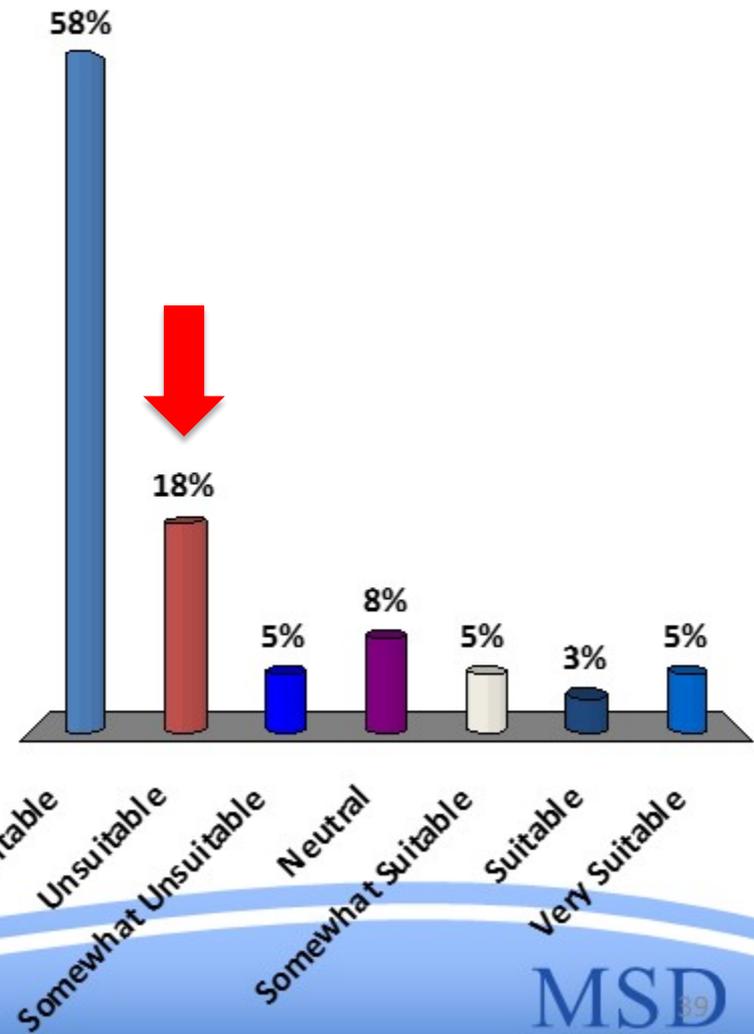
Which of These Considerations Are Most Important to You? (4)

1. Proximity to Residences
2. Minimizing Loss of Public Park Areas During Construction
3. Amount of Tree Loss
4. Maintaining Access on Shawnee Loop Road During Construction
5. Dedicated Construction Entrance
6. Reduced Basin Depth (Improves O&M)
7. Available Construction Flexibility
8. Potential Education Center or Recreation Pavilion
9. Avoid Flood Protection System



SUITABILITY OF SITE A FOR THE BASIN? (MAINTENANCE BUILDING SITE)

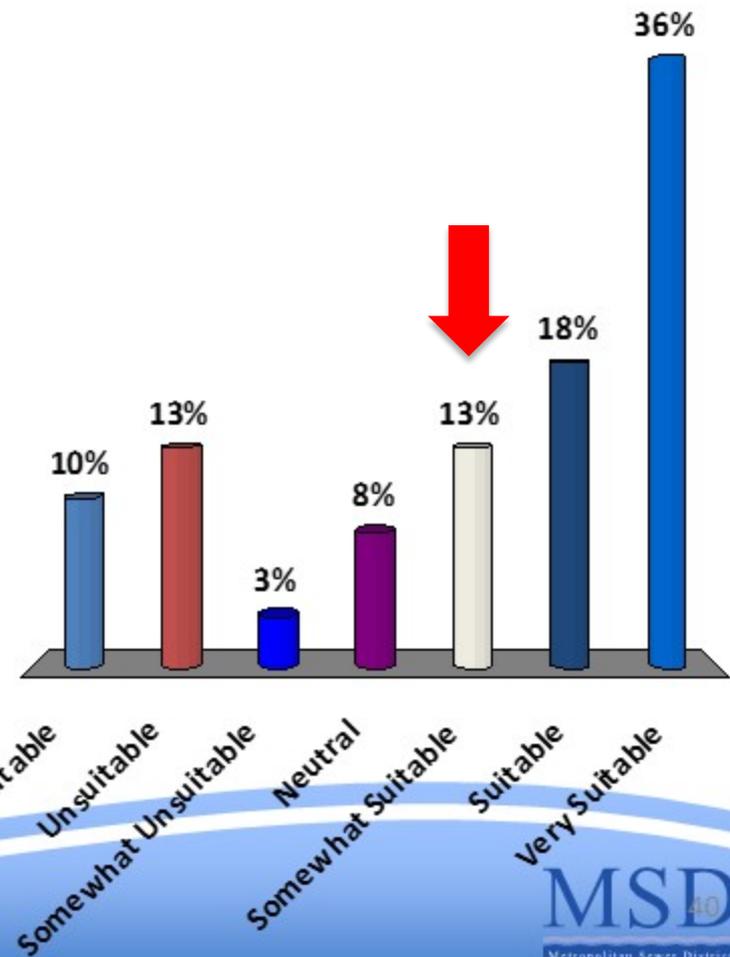
1. Very Unsuitable
2. Unsuitable
3. Somewhat Unsuitable
4. Neutral
5. Somewhat Suitable
6. Suitable
7. Very Suitable



Mean = 2.13

SUITABILITY OF SITE B FOR THE BASIN? (GREAT LAWN SITE)

1. Very Unsuitable
2. Unsuitable
3. Somewhat Unsuitable
4. Neutral
5. Somewhat Suitable
6. Suitable
7. Very Suitable



Mean = 4.97

ONLINE SURVEY POLLING RESULTS

ONLINE SURVEY POLLING RESULTS

WHICH OF THESE CONSIDERATIONS ARE MOST IMPORTANT TO YOU?

#	Answer	Response	%
1	Proximity to Residences	147	60%
2	Minimizing Loss of Public Park Areas During Construction	148	61%
3	Amount of Tree Loss	169	69%
4	Maintaining Access on Shawnee Loop Road During Construction	74	30%
5	Dedicated Construction Entrance	25	10%
6	Reduced Basin Depth for Better Operations and Maintenance	31	13%
7	Available Construction Flexibility	20	8%
8	Potential Education Center or Recreation Pavilion	60	25%
9	Avoiding the Flood Protection System	91	37%

ONLINE SURVEY POLLING RESULTS

SUITABILITY OF SITE A (MAINTENANCE BUILDING SITE)

#	Answer	Response	%
1	Very Unsuitable	137	54%
2	Unsuitable	20	8%
3	Somewhat Unsuitable	4	2%
4	Neutral	5	2%
5	Somewhat Suitable	11	4%
6	Suitable	26	10%
7	Very Suitable	50	20%
	Total	253	100%
Statistic		Value	
Min Value		1	
Max Value		7	
Mean		3.04	
Total Responses		253	

ONLINE SURVEY POLLING RESULTS

SUITABILITY OF SITE B (GREAT LAWN SITE)

#	Answer	Response	%
1	Very Unsuitable	46	18%
2	Unsuitable	20	8%
3	Somewhat Unsuitable	14	6%
4	Neutral	7	3%
5	Somewhat Suitable	10	4%
6	Suitable	16	6%
7	Very Suitable	139	55%
	Total	252	100%
Statistic		Value	
Min Value		1	
Max Value		7	
Mean		5.06	
Total Responses		252	

SUMMARY OF POLLING RESULTS

Suitability of Site A vs. Site B

Polling Scenario	Average Scores (out of 7)	
	Site A (Maintenance Building)	Site B (Great Lawn)
Public Meeting	2.13	4.97
Online Survey	3.04	5.06

Per the polling results, Site B was considered more suitable than Site A

SUMMARY OF POLLING RESULTS

- Consistent responses from Public Meeting and Online Survey participants
- Most important considerations to residents are:
 - Loss of mature trees
 - Loss of public park area during construction
 - Proximity of basin to residences

AGENDA

- Demographic Questions
- Project Background
- Polling Results
- **Basin Location and Possible Amenities**
- Collect Question Cards
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SOUTHWESTERN PKWY CSO BASIN LOCATION

Site B is selected as the site location for the proposed basin based on:

- Metro agency coordination
- Multiple public and neighborhood meetings
- Online survey polling

BASIN FUNCTIONALITY

SAME FOR B1 AND B2

- Gravity in – pump out system
- The water surface elevation in the basin (when full) will be below basement elevations
- When the basin is full, the system will act as it does today (overflows will be discharged into the Ohio River)
- Provisions for odor control
- MSD control building required (similar in size to the existing Shawnee Flood Pump Station building)
- Park amenity attached to the control building
- Air vents to surface to equalize basin air pressure
- Screened generator

SOUTHWESTERN PKWY CSO BASIN LOCATION

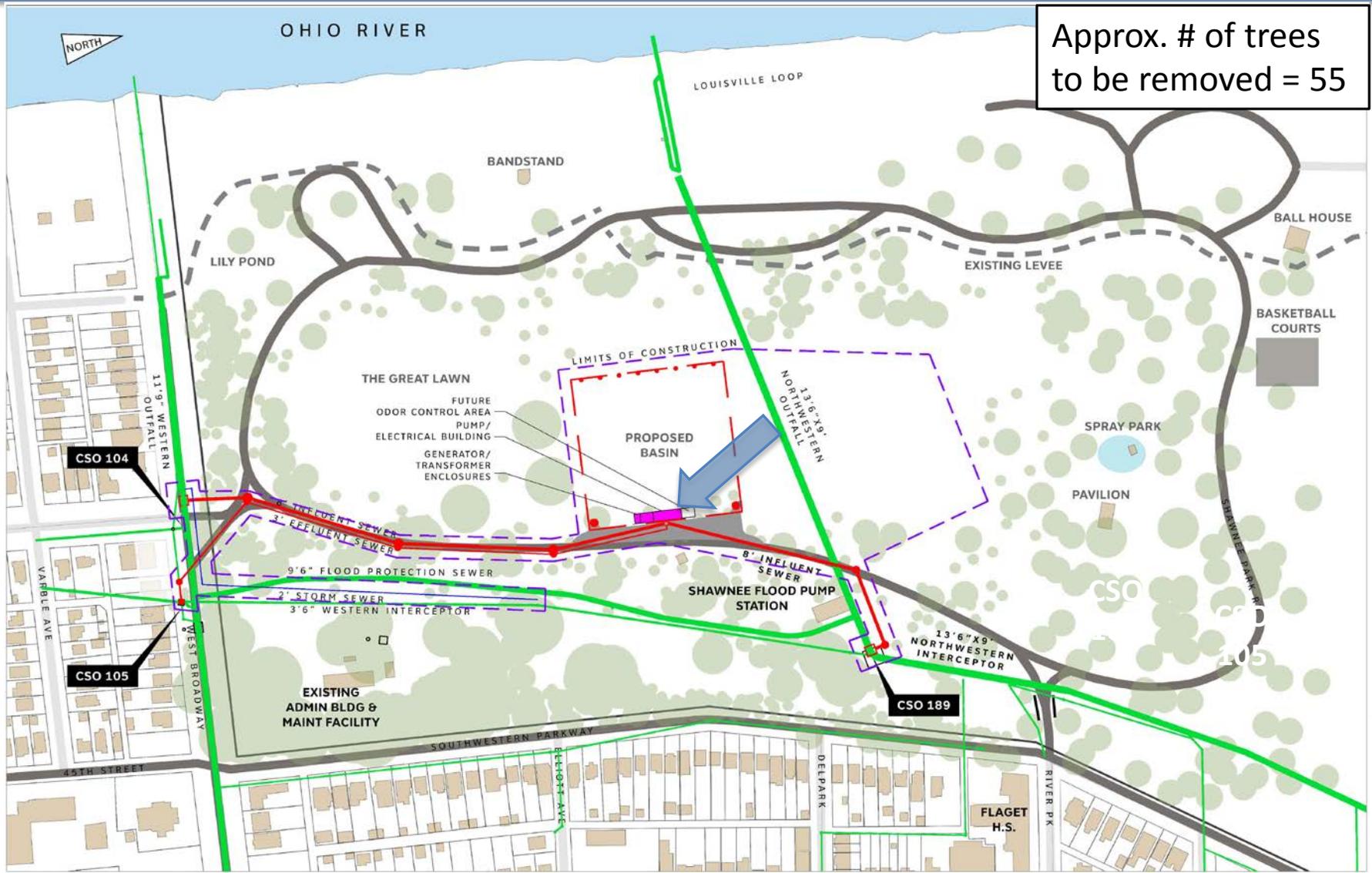
NEXT lets discuss options for the control building

- B1 – located on top of the basin
- B2 – located near the existing Shawnee Flood Pump Station



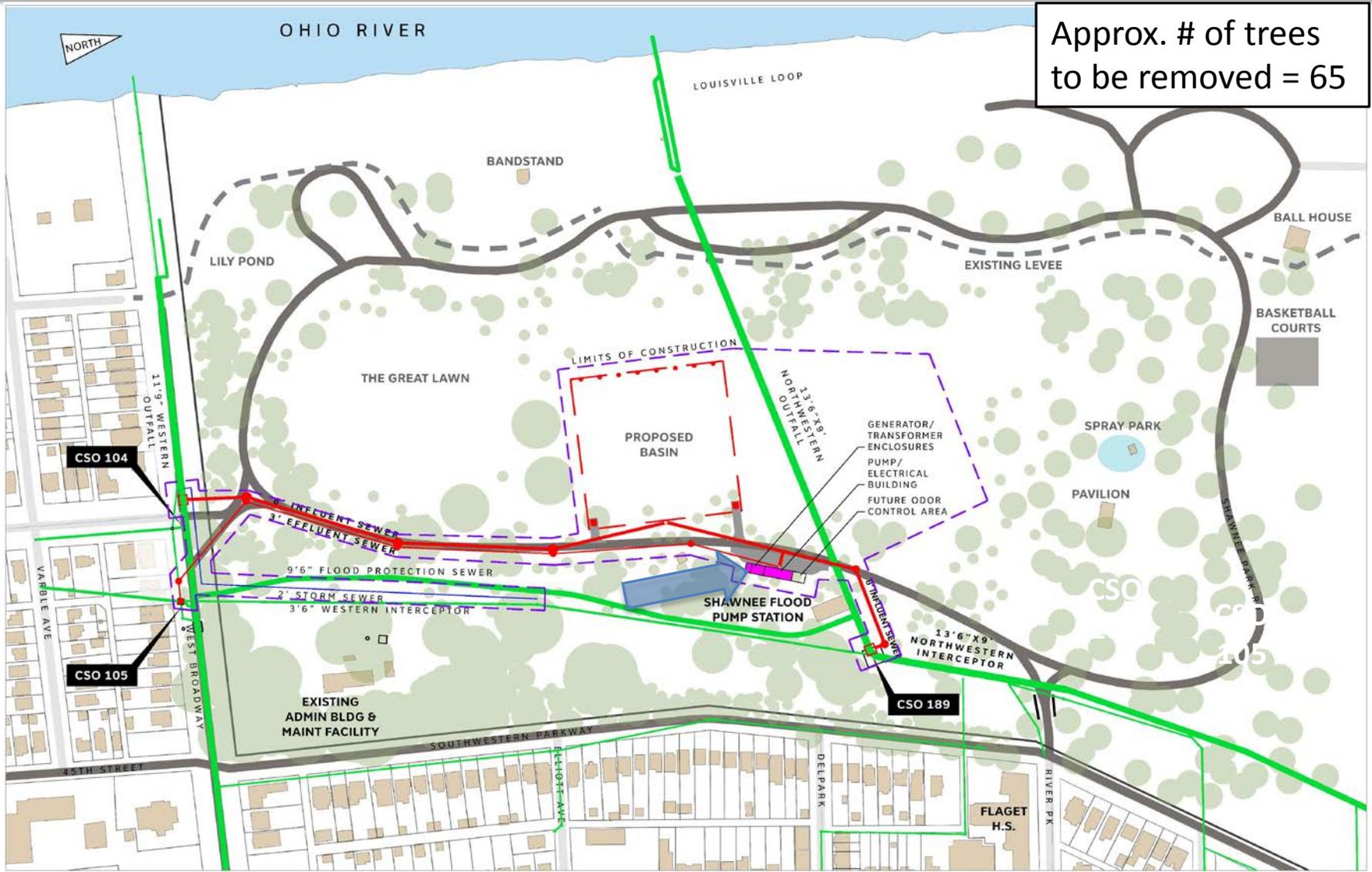
CONTROL BUILDING LOCATION

B1: LOCATED ON TOP OF THE BASIN



CONTROL BUILDING LOCATION

B2: LOCATED NEAR THE EXISTING SHAWNEE FLOOD PUMP STATION



RENDERING OF PROPOSED CONTROL BUILDING INSIDE OF LOOP ROAD



EXISTING SHAWNEE FLOOD PUMP STATION



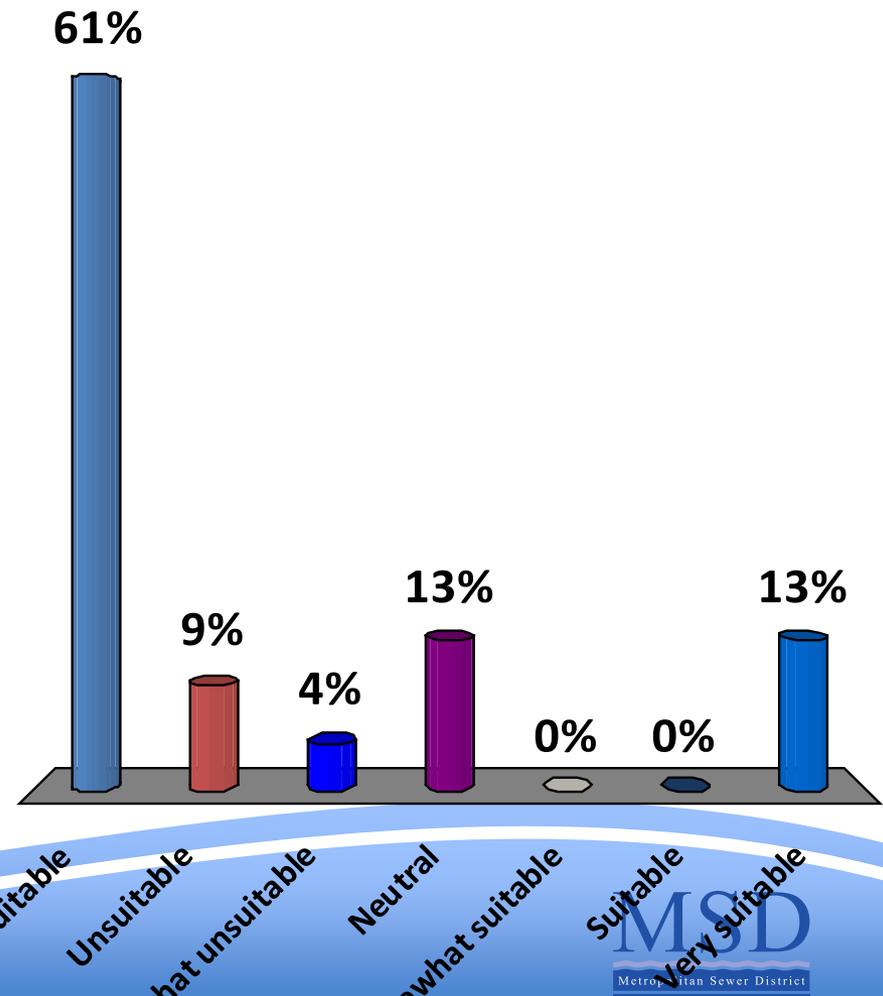
POSSIBLE AMENITIES THAT COULD BE ADDED

- Integrated amenities for public use could include:
 - Pavilion type structure
 - Restroom
 - Air station for bicycles
 - Etc.

SUITABILITY OF LOCATION B1 FOR THE CONTROL BUILDING? (LOCATED INSIDE LOOP RD)

1. Very unsuitable
2. Unsuitable
3. Somewhat unsuitable
4. Neutral
5. Somewhat suitable
6. Suitable
7. Very suitable

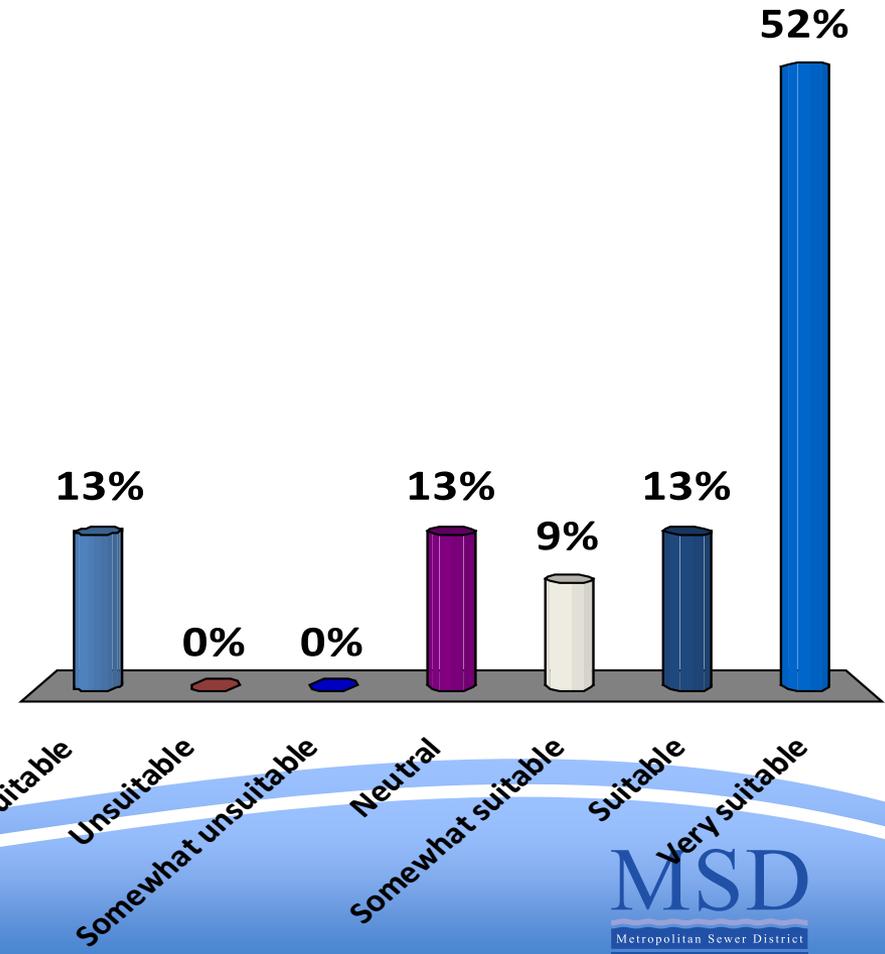
Mean = 2.35



SUITABILITY OF LOCATION B2 FOR THE CONTROL BUILDING?

(LOCATED OUTSIDE LOOP RD AND NEAR THE EXISTING SHAWNEE FPS)

1. Very unsuitable
2. Unsuitable
3. Somewhat unsuitable
4. Neutral
5. Somewhat suitable
6. Suitable
7. Very suitable



Mean = 5.52

THANK YOU!

NEXT STEPS

- MSD to proceed with advanced design of the selected basin site location
- Discussion of possible amenities that could be integrated into the project
 - Offer examples of amenities
 - Solicit ideas for other amenities
 - Gather feedback on the desirability of the amenities

SCHEDULE

- Project Design
 - Advanced Design Public Input Meeting Early 2016
- Construction Start Spring/Summer 2016
- **Operational Deadline Dec. 2018**
- Construction/Restoration Completion Summer 2019

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PROJECT WIN WEBSITE



Improving Our Community Waterways Together



- Home
- About Us
- How You Can Help
- Projects
- Library
- Public Input

You are here: Home

search keywords go

MSD In Your Area

Rainwater can enter the sewer system during rain events and cause a mixture of sewage and rainwater to flow untreated into our waterways. MSD is using storage basins and green infrastructure to control and decrease the amount of rainwater entering the system, thus reducing overflows into our waterways. Click "Read More" to find out about projects near you.

[Read More](#)

Go to the Project WIN website to take the online survey

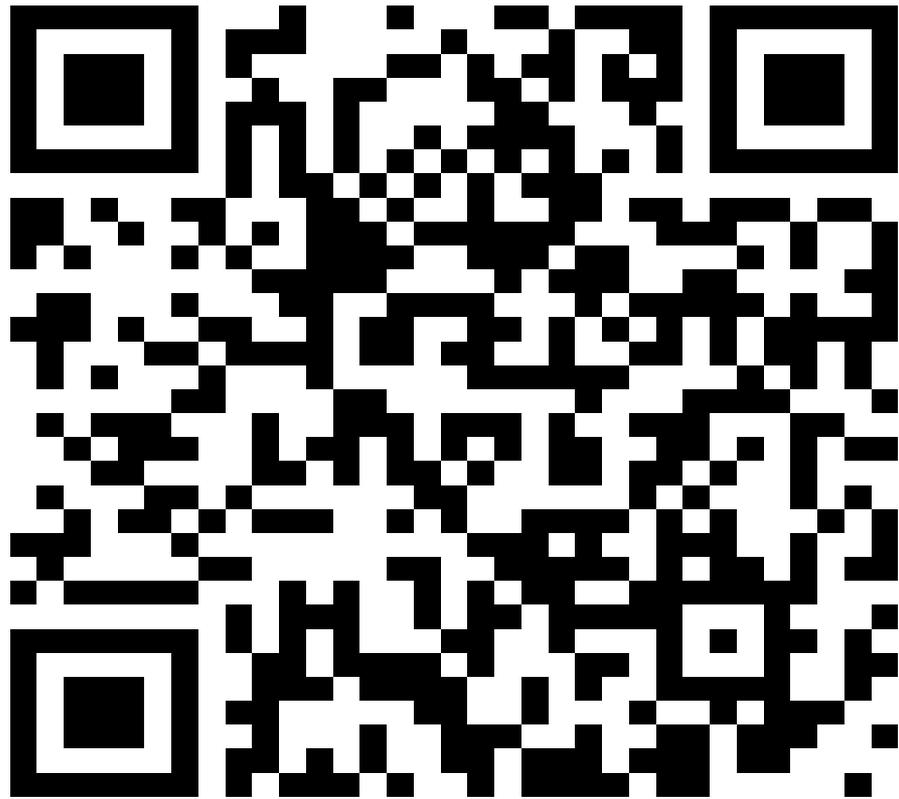


COLLABORATING PROJECTS



ONLINE SURVEY ACCESS AVAILABLE IN A FEW DAYS

tinyurl.com/MSDSouthwestPKWY2-8



For *general information or emergencies* regarding the MSD system, call:

(502) 587-0603

Your Call Will be Answered

- By an MSD Staff Member
- Around the Clock
- Every Day of the Year

AGENDA

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QUESTIONS?