

Discussion Regarding Committees 5

- **Region 1 Canadian-Upper Red** – None
- **Region 2 Lower Red-Sulphur-Cypress** – None
- **Region 3 Trinity** – Their sub-subconsultant records show a PR/Comm firm along with the following committees: Technology, Nominating, Planning Goals
- **Region 4 Sabine** – None
- **Region 6 San Jacinto** – Their sub-subconsultant records show a PR/Comm firm along with the following committees: Technology and Public Engagement
- **Region 7 Upper Brazos** – None
- **Region 8 Lower Brazos** – RFQ Committee
- **Region 9 Upper Colorado** – None
- **Region 10 Lower Colorado-Lavaca** – Their sub-subconsultant records show a PR/Comm firm along with the following committee: Technology
- **Region 11 Guadalupe** – None
- **Region 12 San Antonio** – Outreach Committee
- **Region 13 Nueces** – Their sub-subconsultant records show a PR/Comm firm.
- **Region 14 Upper Rio Grande** – Their sub-subconsultant records show a PR/Comm firm and list their committees as: Subcommittee 2, 3, & 4 (all appear to be planning/task related)
- **Region 15 Lower Rio Grande** – Their sub-subconsultant records show a PR/Comm firm and the following committee: Technology

1



Update from Consultant Team


Neches Regional Flood Planning Group

March 28, 2023

2

Agenda 5

- Stakeholder Feedback on Potential Flood Project Ranking Methods
- Task 12 Update
 - [City of Tyler Master Drainage Plan](#)
 - [City of Jasper Master Drainage Plan](#)
 - [Jefferson County Drainage District 6 FMXs](#)



3

Scoring Criteria

- Email from TWDB on March 2nd soliciting input on FMX Ranking Criteria
 - <http://www.twdb.texas.gov/flood/planning/sfp/index.asp>
 - **Deadline for response is April 14th**
- Webinar on March 22nd at 9:00 am with TWDB regarding the ranking process

Texas Water Development Board

Home Board Financial Assistance Water Planning Groundwater Surface Water Flood D

State Flood Planning

In 2019, the Texas Legislature passed Senate Bill 8 directing the creation of the first-ever state flood plan for Texas. **Statute requires that all recommended flood mitigation projects be ranked in the state flood plan.** The 15 Regional Flood Planning Groups (RFPG), designated by the TWDB in 2020, will submit their amended regional flood plans to TWDB by July 10, 2023. The TWDB will combine the approved regional flood plans into a single state flood plan to be delivered to the Legislature by September 1, 2024.

Soliciting Stakeholder Feedback on Proposed Methods for Ranking Recommended Flood Mitigation Projects

Submission Deadline: April 1, 2023 EXTENDED TO APRIL 14

[ONLINE FEEDBACK FORM](#)

The Texas Water Development Board (TWDB) is soliciting public feedback on [proposed methods](#) for ranking recommended Flood Management Evaluations (FME), Flood Mitigation Projects (FMP), Flood Management Strategies (FMS) in the 2024 State Flood Plan. The intent of the TWDB ranking methods for the state flood plan is to provide a consistent approach to be used across all Texas regions to systematically address, in general, the flood hazard with most population, properties and critical facilities at risk first in the state during a 1% annual chance flood. The proposed

4

Scoring Criteria

- FMPs
 - 70% data from geodatabase
 - 30% reported project details
- FMEs
 - 100% data from geodatabase
- FMSs
 - 100% data from geodatabase
- Percentages allocated to many categories
- Scores normalized based on highest value recorded in each category for all FMEs

State Flood Planning

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Soliciting Stakeholder Feedback on Proposed Methods for Ranking Recommended Flood Mitigation Projects

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TWDB Proposed Ranking

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- Intended to
 - Identify areas with the worst existing risk of flooding in the 100-year floodplain
 - Identify flood risk mitigation solutions that may result in the greater overall reduction in flood risk
 - Primarily focus on projects with greater potential to mitigate the risk to life and property
- Not intended to
 - Serve as method for allocating state funding
 - How state flood plan project ranking may be considered in funding prioritization and allocation processes remains to be determined
 - State flood plan ranking will be at least one consideration

6

TWDB Proposed Ranking

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- Scoring criteria normalized on a range of 0-100 based on highest raw value represented for each criteria
 - Highest raw value for "Estimated population removed from 100yr Floodplain" is 346,773.
 - FMP with raw value of 346,773 receive a normalized score of 100
 - All other FMPs receive normalized score proportional to their raw value between 0 and 346,773
- Once normalized, scores multiplied by the weighting value and summed for final sequential ranking.
- Three sets of prioritization by flood solution type
 - Flood Management Evaluation (FME)
 - Flood Mitigation Projects (FMP)
 - Flood Management Strategies (FMS)

7

TWDB FME Proposed Ranking

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Criteria Name	Criteria Type	Criteria Grouping	FME Ranking Criteria	FME Ranking Weight	FME Grouping Weight
1 Emergency Need (Y/N)	Other		No	0.0%	
2 Estimated number of structures at 100yr flood risk	Flood Risk	Life, Safety and Structures	Yes	15.0%	80.0%
3 Residential structures at 100-year flood risk	Flood Risk		Yes	10.0%	
4 Estimated Population at 100-year flood risk	Flood Risk		Yes	15.0%	
5 Critical facilities at 100-year flood risk (#)	Flood Risk		Yes	20.0%	
6 Number of low water crossings at flood risk (#)	Flood Risk		Yes	20.0%	
7 Estimated number of road closures (#)	Flood Risk	Mobility	Yes	5.0%	15.0%
8 Estimated length of roads at 100-year flood risk (Miles)	Flood Risk		Yes	10.0%	
9 Estimated farm & ranch land at 100-year flood risk (acres)	Flood Risk	Agriculture	Yes	5.0%	5.0%
10 Number of structures with reduced 100yr (1% annual chance) Floodplain	Flood Risk Reduction				
11 Number of structures removed from 100yr (1% annual chance) Floodplain	Flood Risk Reduction	Life, Safety and Structures			
12 Percent of structures removed from 100yr (1% annual chance) Floodplain (calculated by TWDB from reported data)	Flood Risk Reduction				
13 Residential structures removed from 100yr (1% annual chance) Floodplain	Flood Risk Reduction				
14 Estimated Population removed from 100yr (1% annual chance) Floodplain	Flood Risk Reduction				
15 Critical facilities removed from 100yr (1% annual chance) Floodplain (#)	Flood Risk Reduction				
16 Number of low water crossings removed from 100yr (1% annual chance) Floodplain (#)	Flood Risk Reduction				
17 Estimated reduction in road closure occurrences	Flood Risk Reduction	Mobility			
18 Estimated length of roads removed from 100yr floodplain (Miles)	Flood Risk Reduction				
19 Estimated farm & ranch land removed from 100yr floodplain (acres)	Flood Risk Reduction	Agriculture			
20 Cost per structure removed from 100-year floodplain	Other				
21 Percent Nature-based Solution (by cost)	Other				
22 Benefits-Cost Ratio	Other				
23 Water Supply Benefit (Y/N)	Other				
Subtotal				100.0%	

8

TWDB FMP Proposed Ranking

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- Structural and nonstructural project that reduces flood risk
 - Non-zero capital costs or other non-recurring costs
- Ranking split into two major categories
 - Report Data
 - 70% of total weight for FMPs
 - Only one category computed by TWDB
 - "Percent of structures removed from 100yr"
 - Aimed at giving additional weight to projects with bigger impact to smaller communities
 - Project Details
 - 30% of total weight for FMPs
- FMP ranking primarily focuses on flood risk reduction in the 100yr
- Reported data grouped into three major themes
 - Life, Safety, and property
 - Mobility
 - Agriculture

9

TWDB FMS Proposed Ranking

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- Long term flood risk reduction solution ideas that still need to be formulated, i.e., regulatory enhancement
- All solutions that do not belong as FMEs or FMPs
- Ranking criteria focuses on both risk identification in the 100yr and flood risk reduction

10

TWDB Proposed FME Ranking

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Top Ranked FME by Criteria

Criteria Name	Criteria Type	Criteria Grouping	FME Ranking Weight	FME Grouping Weight	Raw Score	Weighted Score	Ranking Based on Normalized Reported Factors	Region with Highest Max Raw Value	FME Name	FME Description
Estimated number of structures at 100-year flood risk	Flood Risk	Life, Safety and Structures	15.0%	80%	186,744	76,980	1	1 - Trinity	Predicted Maximum Probable Inundation Map	Use NWS gage height forecasts from the River Forecast Center to generate a potential floodplain along the main stem of the Trinity River.
Residential structures at 100-year flood risk	Flood Risk		141,152		76,980	1	3 - Trinity	Predicted Maximum Probable Inundation Map	Use NWS gage height forecasts from the River Forecast Center to generate a potential floodplain along the main stem of the Trinity River.	
Estimated Population at 100-year flood risk	Flood Risk		976,798		59,344	2	6 - San Jacinto	Regional Implementation of Large Diameter Deep Tunnel Systems for Storm Water Management	Further study of regional implementation of Large Diameter Deep Tunnel Systems for Storm Water Management.	
Critical facilities at 100-year flood risk (N)	Flood Risk	Life, Safety and Structures	15.0%	80%	2,322	59,344	2	6 - San Jacinto	Regional Implementation of Large Diameter Deep Tunnel Systems for Storm Water Management	Further study of regional implementation of Large Diameter Deep Tunnel Systems for Storm Water Management.
Number of low water crossings at flood risk (N)	Flood Risk		1,737		76,980	1	3 - Trinity	Predicted Maximum Probable Inundation Map	Use NWS gage height forecasts from the River Forecast Center to generate a potential floodplain along the main stem of the Trinity River.	
Estimated number of road closures (N)	Flood Risk	Mobility	20.0%	10%	9,511	9,644	12	12 - San Antonio	Natural capital inventory	Development of a dataset identifying lands under governmental easement. Project includes courthouse and deed records research to identify lands that are protected or have future development restrictions.
Estimated length of roads at 100-year flood risk (Miles)	Flood Risk		7,655.4		76,980	1	1 - Trinity	Predicted Maximum Probable Inundation Map	Use NWS gage height forecasts from the River Forecast Center to generate a potential floodplain along the main stem of the Trinity River.	
Estimated farm & ranch land at 100-year flood risk (acres)	Flood Risk	Agriculture	10.0%	2,423,093.9	23,237	12	1 - Canyon-Lower Red	Region Wide Dam Safety	Coordinate region-wide investigation into current dam safety status, weighted based on distribution forecasts.	

Top 5 Ranked FMEs

Rank	Total Score	Region	FME Name	FME Description
1	76.98	3 - Trinity	Predicted Maximum Probable Inundation Map	Use NWS gage height forecasts from the River Forecast Center to generate a potential floodplain along the main stem of the Trinity River.
2	59.34	6 - San Jacinto	Regional Implementation of Large Diameter Deep Tunnel Systems for Storm Water Management	Further study of regional implementation of Large Diameter Deep Tunnel Systems for Storm Water Management.
2	59.34	6 - San Jacinto	Harris County Wide - Investigation of City of Houston Properties for Conversion to Stormwater Detention Basins	Further study for design and construction of stormwater detention basins on various City of Houston properties could reduce the risk of flooding in the area.
4	32.63	10 - Lower Colorado-Lavaca	Identify and Assess Flood Risk and Potential Mitigation Solutions for Low SVH Communities	Proactively seek out those communities to more fully assess and document their flood risk, consider potential solutions, and lay out a path to implement feasible and appropriate solutions.
5	28.55	13 - Nueces	Nueces Basin early flood warning system	Develop Flood Preparedness Toolkits Using Stream gaging and Flood Inundation Mapping to develop a basin wide early flood warning system.
53/2336	6.01	5 - Neches	Jefferson County Update Flood Hazard Mapping	Complete a detailed study within the county extent to delineate an updated flood hazard map, which can be used for regulatory purposes.

11

TWDB Proposed FMP and FMS Ranking

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Rank	Total Score	Region	FMP Name	FMP Description
1	60.22	6 - San Jacinto	Galveston Bay Surge Protection Coastal Storm Risk Management	Federal projects identified in the Texas Coastal Study (2021) including Rolliver Gates, Galveston Sea Wall Improvements, Ecosystem Restoration, Galveston Ring Barrier system, Clear Creek & Dickinson Bayou Gates, and non-structural measures.
2	27.66	1 - Canadian Upper Red	Landon, Duty and Sunset St Drainage Project	The proposed solution is a combination of curb and gutter street improvements for Duty Lane, Landon Road, and Sunset Lane south of Duty Lane.
2	26.37	10 - Lower Colorado-Lavaca	Walnut Creek Wastewater Treatment Plant Flood Wall	Strategic floodwall installation to protect WWTP
4	25.65	10 - Lower Colorado-Lavaca	Sandy Creek/Pecan Park Areas Buyout	Acquisition of 11 residential properties located in the regulatory 1NACE floodplain and floodway on Sandy Creek, Pecan Park area
5	25.41	12 - San Antonio	Concepcion Creek Improvements Project	Ph1. 54-ac detention, property acquisition and 10,000ft of storm drain systems and road reconstruction. Ph2. 1.35mi of Concepcion Creek channel improvements. Ph3. 2.300ft of (31)in48 MFC systems
71/205	15.03	5 - Neches	Channel 100-A Concrete Repair	Conduct repairs and install improvements to Channel 100-A located within the city of Beaumont.

Rank	Total Score	Region	FMS Name	FMS Description
1	48.63	6 - San Jacinto	Harris County Wide Voluntary Buyout Program	Targeted home buyouts to reduce flood damages in areas several feet deep in the floodplain where structural projects to reduce flooding are not cost-effective and/or beneficial.
1	48.63	6 - San Jacinto	Harris County Hazard Mitigation Action AW-3	Utilize the existing public outreach capability to develop, deploy, and disseminate targeted outreach projects promoting risk communication, mitigation and resilience to all the hazards of systems.
1	48.63	6 - San Jacinto	Harris County Hazard Mitigation Action AW-4	Strive to capture time-sensitive data such as high-water marks, extent and location of hazard, and loss information to support future updates to risk assessments as well as other plans and programs that utilize hazard extent data.
1	48.63	6 - San Jacinto	Harris County Hazard Mitigation Action AW-5	Continue to develop, improve, and implement an enhanced mass public warning and alert system within the Harris County Joint Information Center to provide warning capability throughout Harris County to support the emergency management of all hazards.
1	48.63	6 - San Jacinto	Harris County Hazard Mitigation Action AW-6	Utilize viable and relevant information, data and tools (Haus model) developed as part of the update to the risk assessment of this plan update to support training and exercise of the County's preparedness, response and recovery programs.
36/375	6.92	5 - Neches	Hardin County Voluntary Flood Buyout	Voluntary flood buyouts.

*TWDB included 375 FMSs in the Ranking Spreadsheet although there were 846 total recommended FMSs across all flood planning regions

12

Initial Takeaways

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- 31 TAC §362.4 (c)(5)
 - Develop a statewide ranks list of recommended FMEs, FMSs, and FMPs that have associated one-time capital cost
- State flood plan ranking will be at least one consideration in allocating state funding
- Consider ranking project planning and watershed studies separately
- Need additional guidance on how overlapping FMXs scoring will be aggregated
- Reliance on ONLY the 100-year for project scoring
 - Important to reduce 100-year flooding
- Suggest comparing percentile or scoring bracket ranking to current draft ranking

13

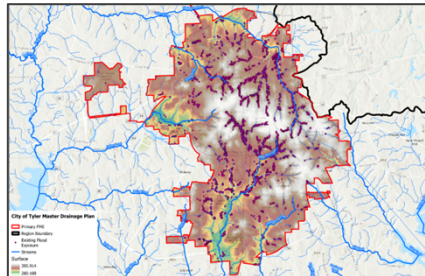
Task 12 Update

14

City of Tyler Master Drainage Plan

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- FME ID: 051000058
- Sponsor: City of Tyler
- Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects.



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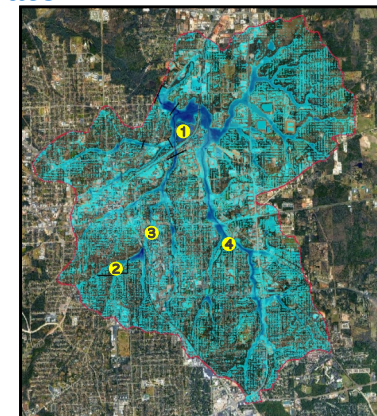
City of Tyler FME Update

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Study Area: Upper Black Fork Creek Watershed

Proposed Project Study Areas

1. Gentry Regional Detention
 - West Delek Detention
 - Available open space, few affected structures
2. Azalea District
 - Hogg MS Detention
 - Championed by City staff
3. Hospital Confluence
 - Hillside Park Detention
 - Proximity to other improvements
4. Pinkerton
 - Few affected structures



16

City of Tyler FME Update - West Delek Detention

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- Vacant property owned by refinery
- Adjacent floodplain and open space
- Approximately 30-Acre Detention Pond
 - 160 ac-ft of storage
 - Potential for recreational area and park space

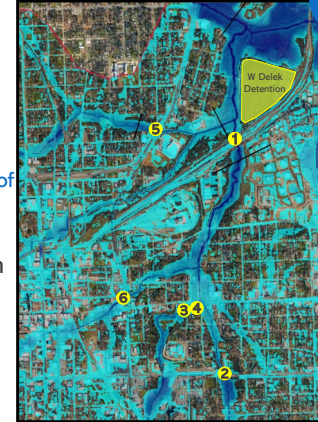


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City of Tyler FME Update - West Delek Detention

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- Detention, roadway crossing, and channel improvements
- Six roadway crossing improvements analyzed
 - Proposed culvert data provided by City of Tyler
- Channel improvements to be incorporated after area identified with most potential benefit



18

City of Tyler FME Update - West Delek Detention

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- Crossing 2
 - Existing 10'x10' RCB → Proposed (2)-10'x10' RCBs
 - Benefit 1400' of channel and approx. 13 upstream structures, but impacts approx. 6 downstream structures
 - Detention at Hillside Park with channel improvements may mitigate impacts. However, limited park space currently available in the area.
- Crossing 3 and 4
 - Existing 6'x5' RCB → Replace with (3)-15'x9' RCBs
 - Existing 6'x5' RCB → Replace with (3)-15'x9' RCBs
 - Localized improvements that do not directly benefit any structures

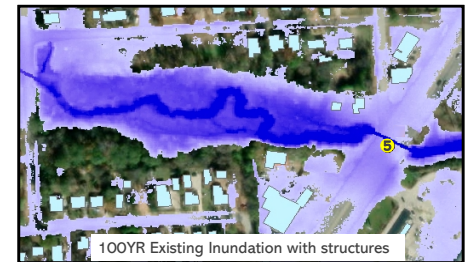


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City of Tyler FME Update - West Delek Detention

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- Crossing 5 Improvements
 - Existing 10'x10' RCB → Proposed (3)-10'x10' RCBs
 - Reduction in flooding from Gentry Pkwy to N Carlyle Ave (1,000')
 - 2 inundated structures improved
 - Unlikely that benefits outweigh costs

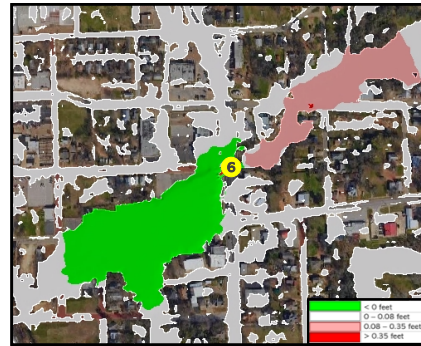


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City of Tyler FME Update - West Delek Detention

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- Crossing 6 Improvements
 - Existing 11.5'x7' RCB → Replace with (2)-10'x7' RCBs
 - Reduction in flooding from S Center Ave to N Beckham Ave (330')
 - 14 upstream inundated structures improved
 - Impacts to approx. 6 downstream structures
 - Channel improvements needed to reduce impacts to downstream structures

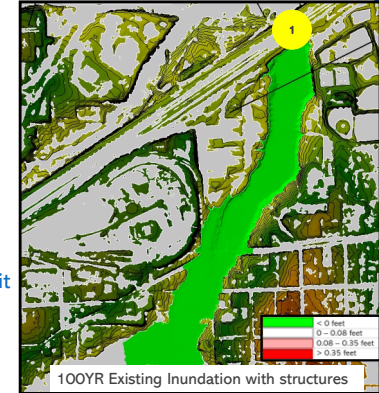


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City of Tyler FME Update - West Delek Detention

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- Crossing 1
 - Existing 11'x6' RCB → Add (2)-12'x12' RCBs
 - Improvements from railroad to E Locust St (3,200')
 - +6' of WSEL reduction
 - Approx. 16 inundated structures improved
 - Channel improvements may benefit more structures



22

City of Tyler FME Update – Hogg MS Detention

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- Project concept championed by the City of Tyler
- Developed concept from 2019 study
- 3.4-acre open space for underground detention
 - Approx. 65 ac-ft of storage
- Additional channel improvements for to benefit localized flooding

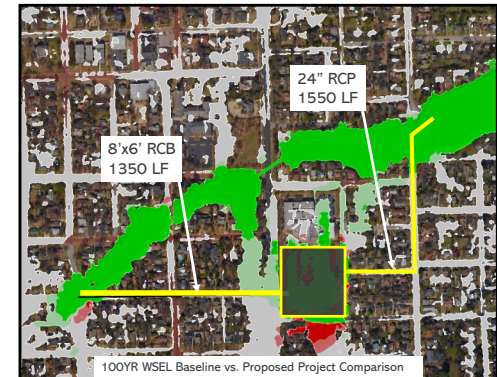


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City of Tyler FME Update – Hogg MS Detention

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- 65 ac-ft detention basin
- 8'x6' RCB diversion
- 24" RCP diversion outfall
- 3" – 1.3" of WSEL reduction
- Approx. 70 inundated structures improved



24

City of Tyler FME Update – Next Steps

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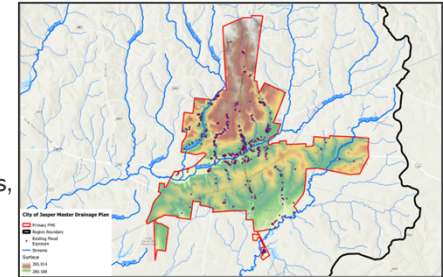
- West Delek Detention
 - Incorporate channel improvements with Crossings 10 and 8
 - Focus on reducing downtown flooding
- Hogg MS Detention
 - Incorporate channel improvements within Azalea District
 - Compare two outfall pipe locations for greatest benefit and total costs
- Hillside Park Detention
 - Add detention at park with Crossings 1, 2, and 3
 - Incorporate channel improvements to mitigate Crossing 1 impacts
- Consult with City of Tyler staff for stakeholder input
- Compare Residential and Commercial structure impacts for the three concepts
- Select one FMP to develop

25

City of Jasper FME Update

5

- FME ID: 051000052
- Sponsor: City of Jasper
- Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects.



26

City of Jasper FME Update

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- Study Area: Sandy Creek Watershed
 - City limits within creek valley
- Proposed Projects Evaluated
 - Channel Improvements
 - Detention Ponds
- Area experiences flooding during more frequent rain events
 - 5-YR 24-HR event, 6.17 in

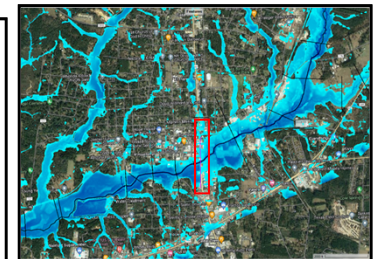
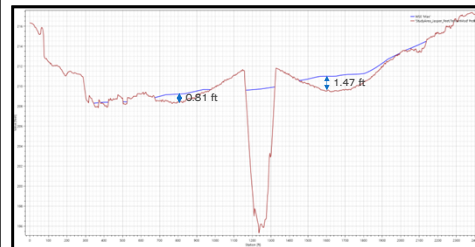


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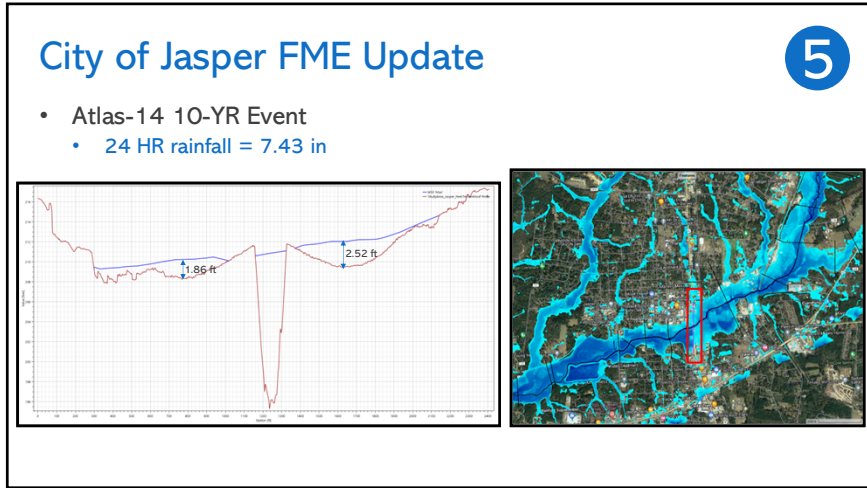
City of Jasper FME Update

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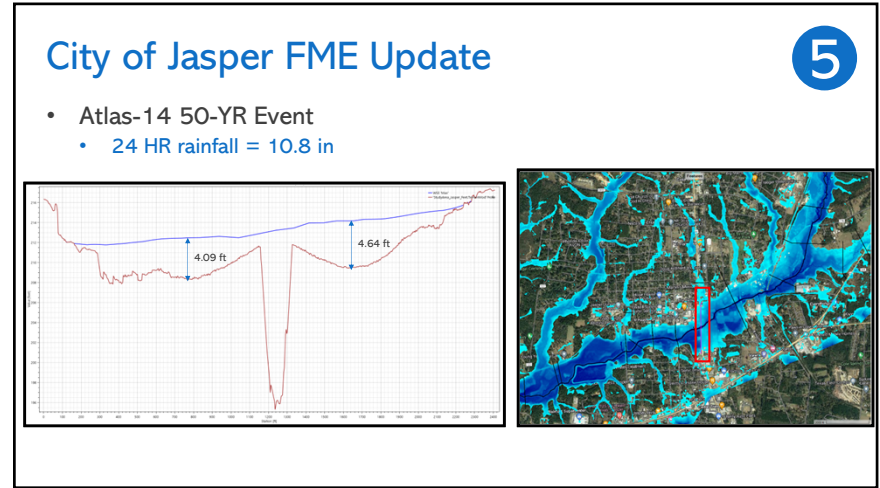
- Atlas-14 5-YR Event
 - 24 HR rainfall = 6.17 in



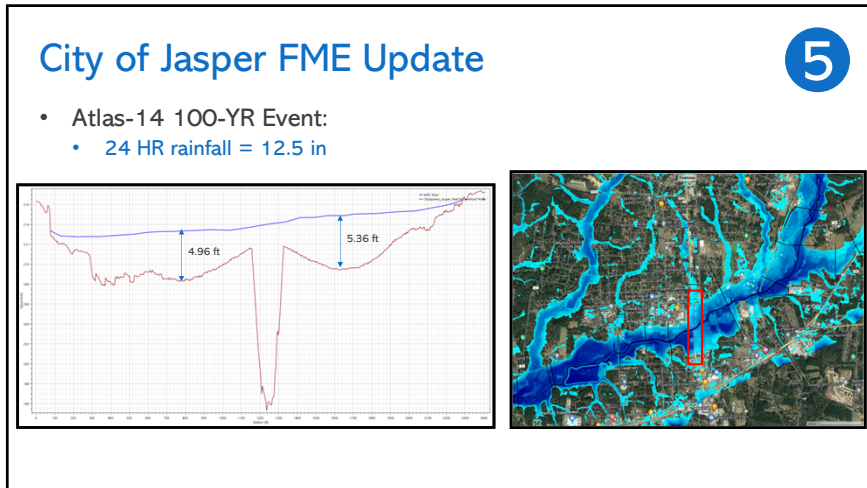
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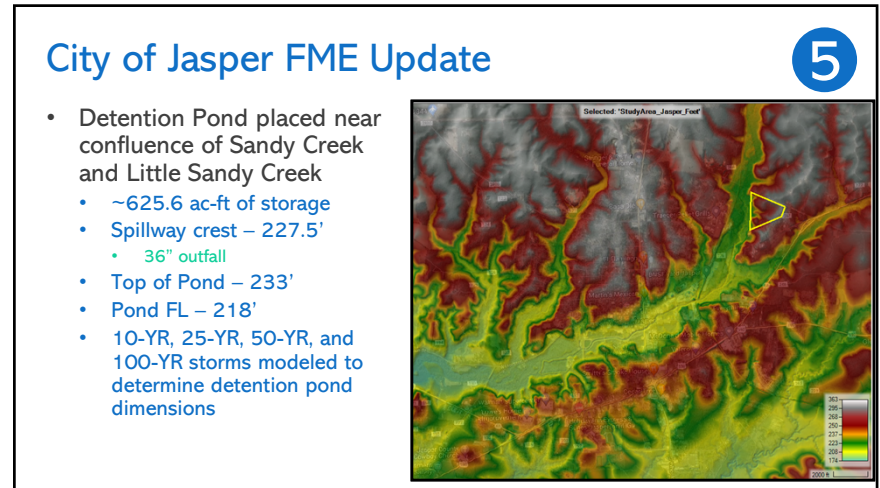
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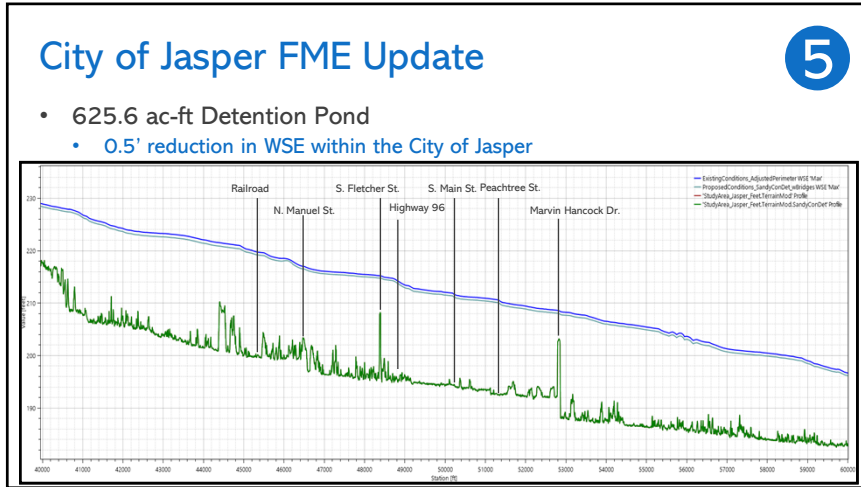
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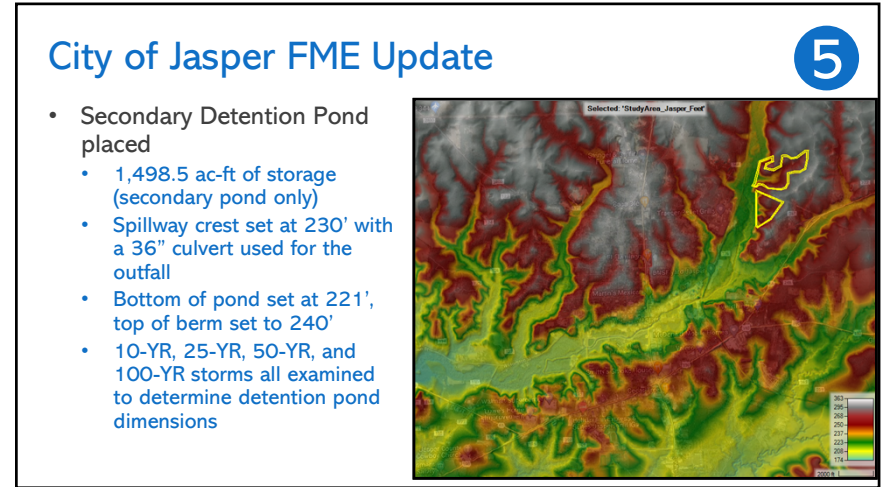
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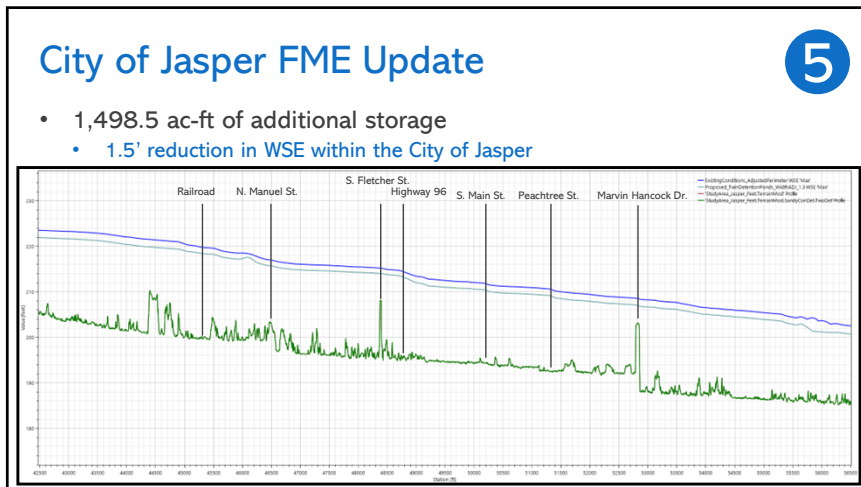
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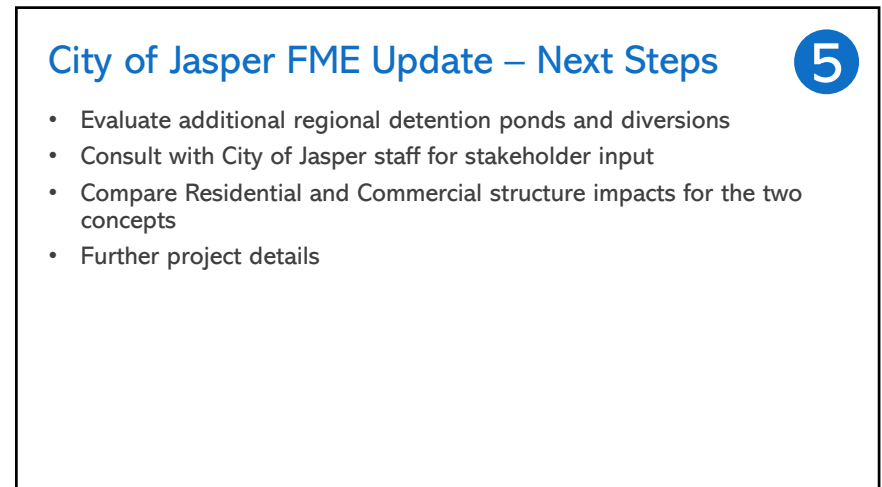
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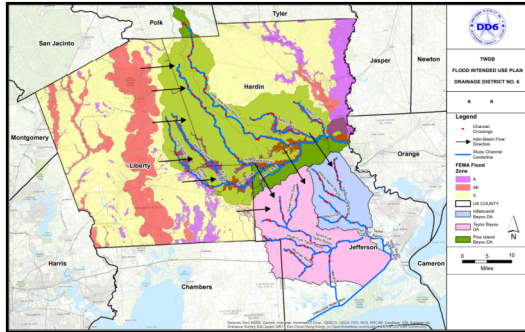


36

Jefferson County Drainage District 6 FIF

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- Ongoing Flood Infrastructure Fund (FIF) Regional Water Study
- Project Goals
 - Identify areas of high flood risk and the sources of flooding.
 - Develop large-scale regional flood reduction solutions to address flood damages.
 - Prepare an implementation path for future projects that includes costs, benefits, challenges, and prioritization.



37

Jefferson County Drainage District 6 FIF

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No.	Watershed	Project Name	Description	Improvement Type
1	Hillebrandt Bayou	Pevitot Gully Improvement System	The project proposes an improvement system consisting of offline detention basins and channelization along Pevitot Gully.	Widening
2	Hillebrandt Bayou	Willow Marsh Bayou Phenlan Blvd Detention	The project proposes an improvement system consisting of in-line detention basins and channelization along Willow Marsh from Phenlan Blvd to Highway 90.	Widening
3	Hillebrandt Bayou	Willow Marsh Main Improvement System	The project proposes an improvement system consisting of off-line detention basins and channelization along Willow Marsh from Highway 90 to South Major Dr.	Widening
4	Hillebrandt Bayou	Willow Marsh Downstream Improvement System	The project proposes an improvement system consisting of off-line detention basins and channelization along Willow Marsh from South Major Dr to Hillebrandt Bayou.	Widening
5	Hillebrandt Bayou	Tyrell Park Improvements	The project proposes a new channel alignment across Tyrell Park to an existing channel that outfalls into Hillebrandt Bayou, to gain the full benefits the project should be accompanied by improvements of roadside ditches in adjacent neighborhoods.	Widening/Deepening
6	Hillebrandt Bayou	Calder Diversions Connections	The project proposes sub-surface diversion primarily located along Calder Avenue that discharges into the Neches River. Short segments of additional diversion would be installed along the following roadways to help collect and convey stormwater: Elizabeth St, IH-10 frontage roads, N 11th St, 7th St. Approximately 5.2 miles of 2 to 3- 12'x8' storm sewer would reduce flow draining to Hillebrandt Bayou and reduce flood depths in certain neighborhoods along 7th and 11th streets and along the IH-10 frontage roads.	Diversion

38

Jefferson County Drainage District 6 FIF

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No.	Watershed	Project Name	Description	Improvement Type
7	Pine Island Bayou	Rosedale Improvement System	The project proposes widening and deepening of existing channels upstream of the LNVA canal, a diversion channel to the Neches River, and detention basins, near the Rosedale Acres community. This project should include the installation of backflow preventers on existing siphons along the water canal.	Diversion/Widening/Deepening
8	Pine Island Bayou	Nome Conveyance Improvements	The project proposes an improvement system consisting of channelization along Cotton Creek and an off-line detention basin to mitigate impacts.	Widening
9	Pine Island Bayou	Sour Lake Channel Improvement	The project proposes a new diversion channel through Sour Lake, providing a path for runoff from the West to the East. Also provides a path for local runoff.	Diversion/Deepening/Widening
10	Taylor Bayou	Green Pond Flow Diversion	The project proposes a diversion of storm runoff into the Green Pond detention facility and flow regulation structure across Channel 505-B east of the Green Pond facility. Coupled with the diversion are construction of a new internal collector channel within the Green Pond basin which will more efficiently equalize water surface elevations within the basin. That channel will be extended northward to divert flow from D06 Channel 602 southward and into the Green Pond detention facility.	Diversion/Retention

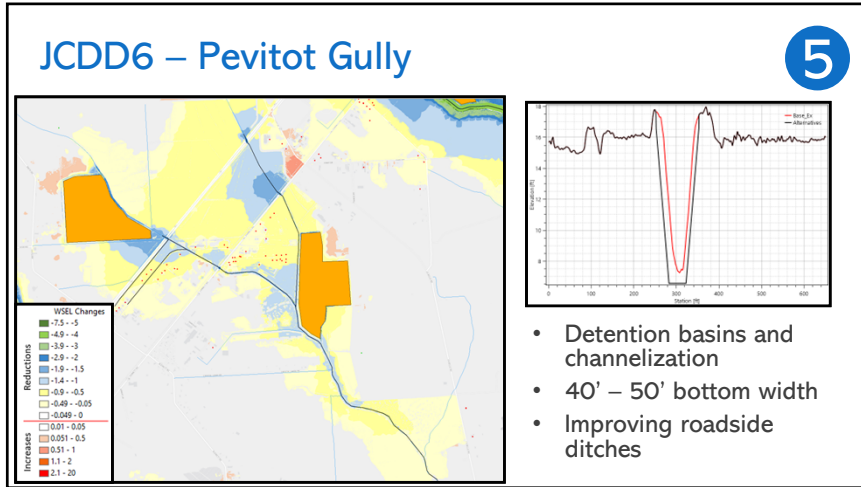
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Jefferson County Drainage District 6 FIF

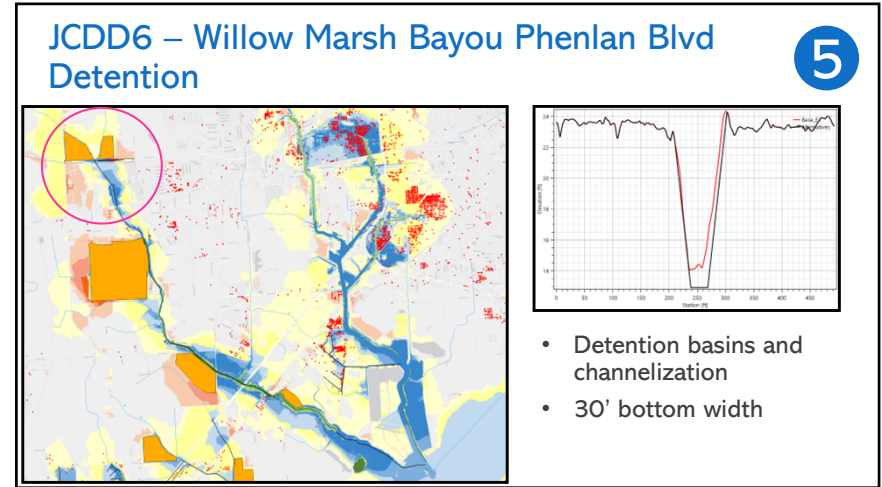
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No.	Watershed	Project Name	Description	Improvement Type
11	Taylor Bayou	Mayhaw Bayou Regional Detention Basin	The project proposes a regional detention facility north and west of IH10 in the upper portion of the Mayhaw Bayou watershed. A detention facility is proposed, with multiple openings in the at locations where existing channels cross IH10. The project mitigates impacts related to downstream channel improvements and increases the effectiveness of those improvements.	Retention
12	Taylor Bayou	North Taylors Regional Detention Facility	The project proposes a regional detention facility north of FM365 and west of South China Road in the upper portion of the North Fork of Taylors Bayou watershed. A detention facility is proposed, with multiple openings in the at locations where existing channels cross FM365 and South China Road. The project mitigates impacts related to downstream channel improvements and increases the effectiveness of those improvements.	Retention
13	Taylor Bayou	South Taylors Bayou Regional Detention	The project proposes a regional detention facility west of Heizig Road in the watersheds of both the North and South Forks of Taylors Bayou. A detention facility is proposed, with multiple openings at locations where existing channels cross Heizig Road. The project mitigates impacts related to downstream channel improvements and increases the effectiveness of those improvements.	Retention

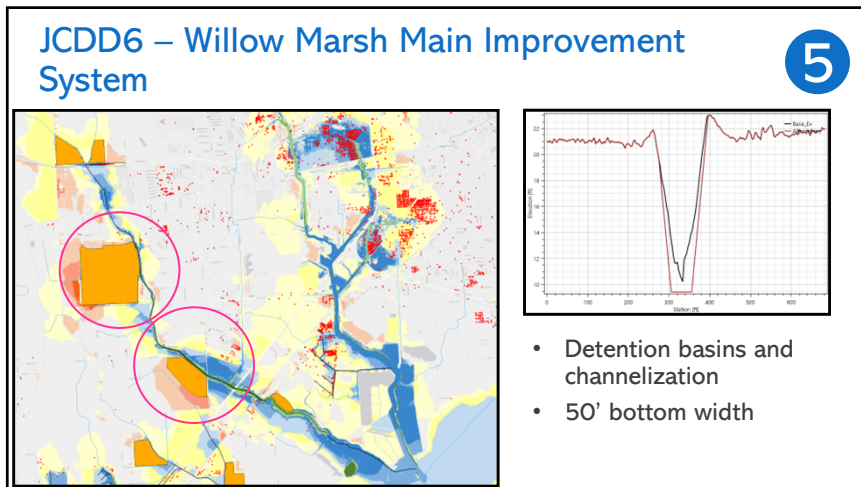
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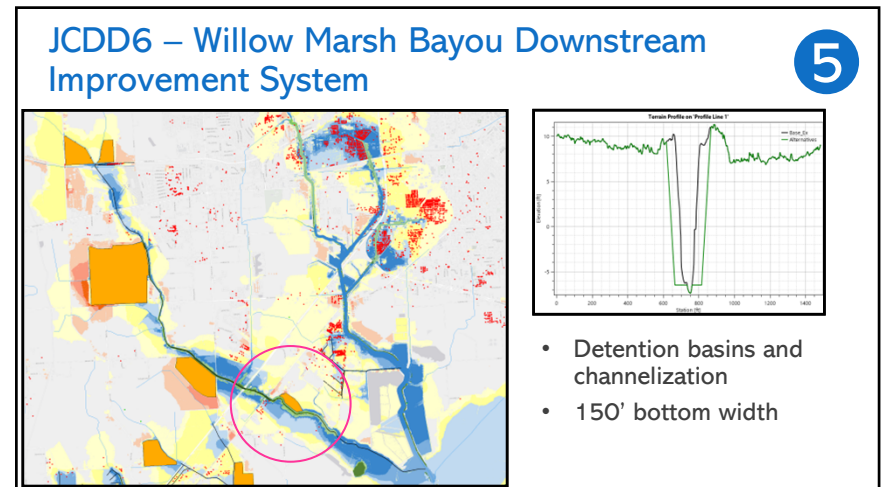
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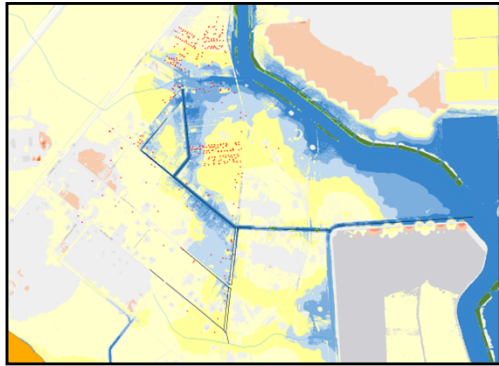
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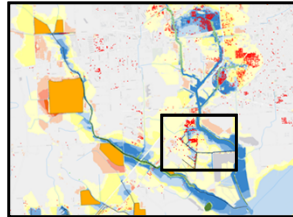
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JCDD6 – Tyrell Park Improvements

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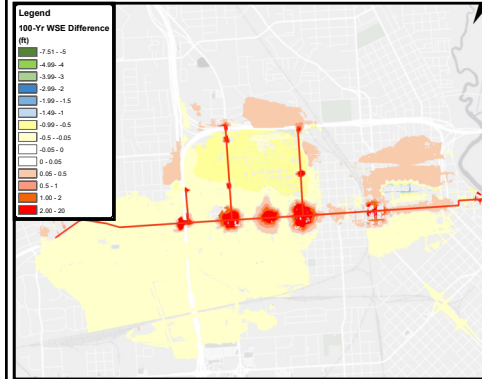
- New Channel alignment
- Diversion
- Roadside ditch improvements
- 20' – 50' bottom width



45

JCDD6 – Calder Diversions Connections

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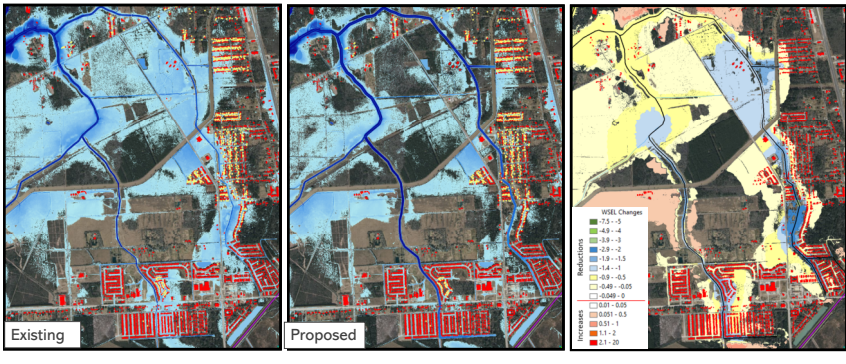


- Add connecting lines along 7th St., 11th St., and the IH-10 frontage
- Shows some reduction along the route:
 - 7th St. (0.5' – 1.0')
 - 11th St. (0.5' – 1.0')
 - IH-10 Frontage (< 0.5')
- 7th St. trunk may already be in; need to confirm
- Potential updates during detailed modeling phase
 - Update alignment
 - Direct hydrograph application

46

JCDD6 – Rosedale Improvement System

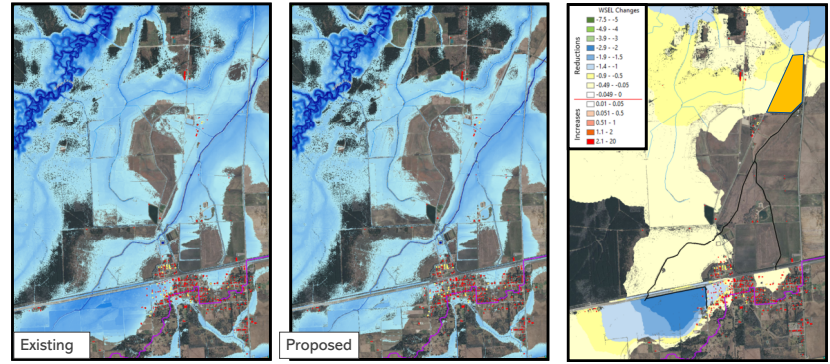
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47

JCDD6 – Nome Conveyance Improvements

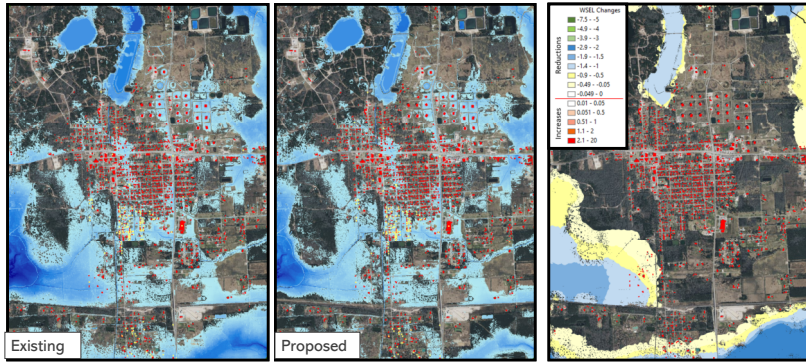
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48

JCDD6 – Sour Lake Channel Improvement

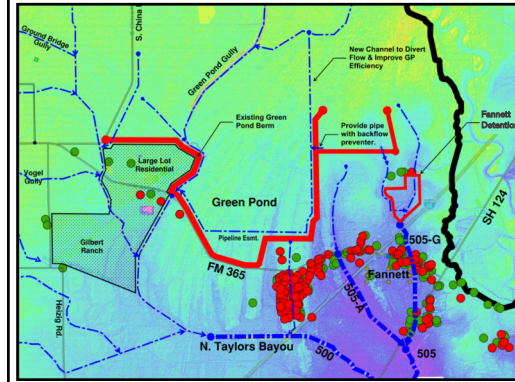
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49

JCDD6 – Green Pond Flow Diversion

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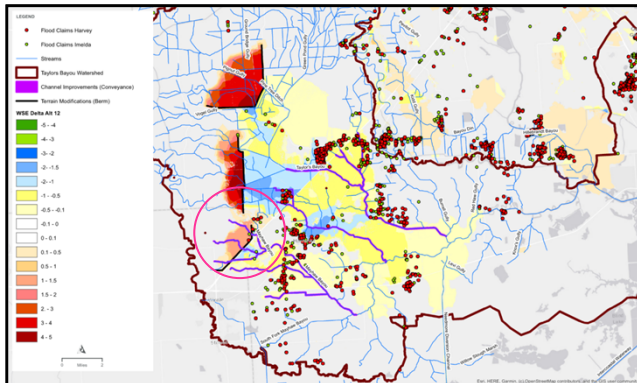


- Extension of Sherron Outfall Channel to North
- Green Pond Auxiliary Ditch Within Facility
- Gates on All Culverts Through Levee
- Construction of New Levee to the East
- Cross-Drainage at Existing Levee w/ Backflow Preventer
- Cross-Drainage at Existing Channel
- Fannett Detention (Grant)

50

JCDD6 – Mayhaw Bayou Regional Detention Basin

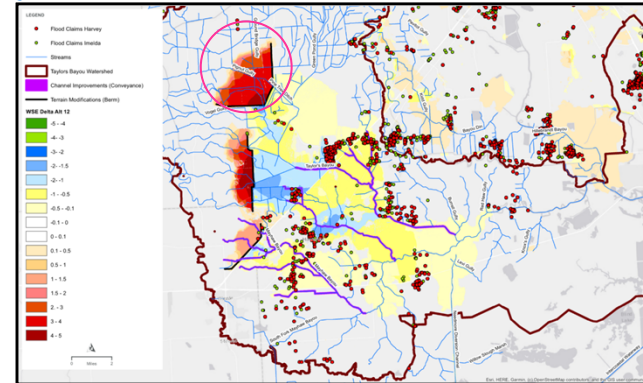
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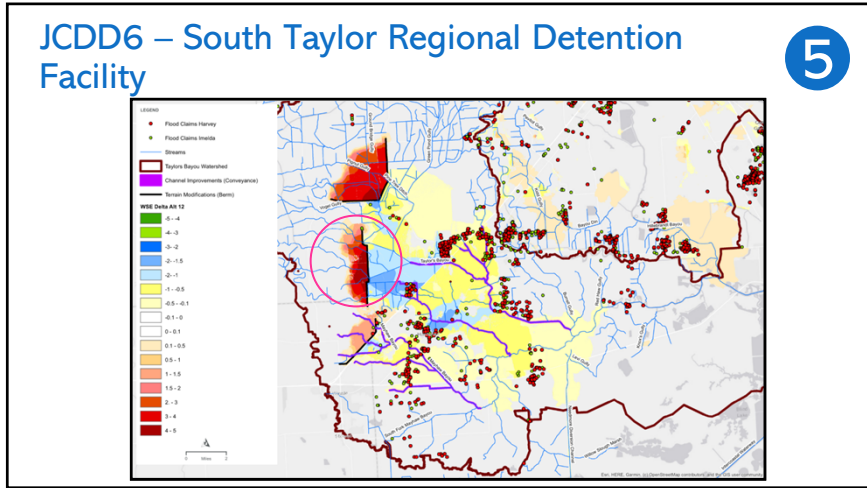
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JCDD6 – North Taylor Regional Detention Facility

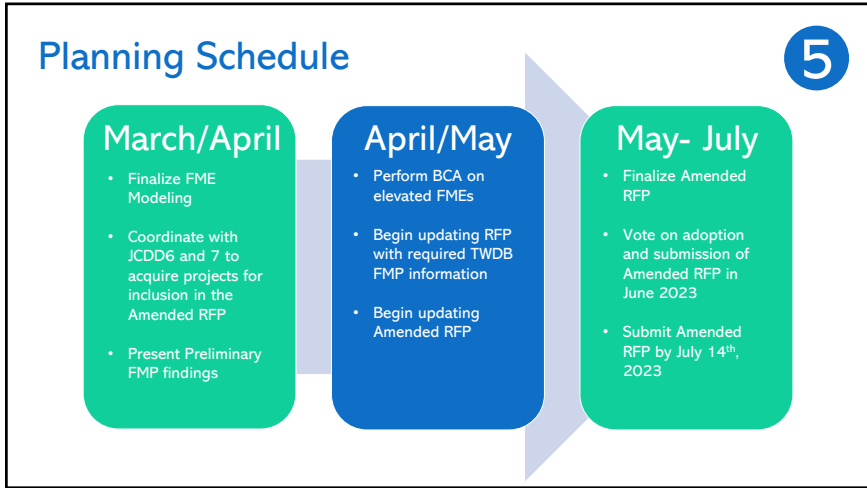
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54