

# BOARD OF DIRECTORS MEETING

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August 15, 2023



## PLEDGE OF ALLEGIANCE

I pledge allegiance to the flag of the United States of America, and to the republic for which it stands, one nation under God, indivisible, with liberty and justice for all.



## PLEDGE OF ALLEGIANCE TO THE TEXAS FLAG

Honor the Texas flag; I pledge allegiance to thee, Texas, one state under God, one and indivisible.



# 2

## Public Comment



# 3

Consider Approval of the Minutes from the Meetings Held on July 17, 2023, and July 18, 2023

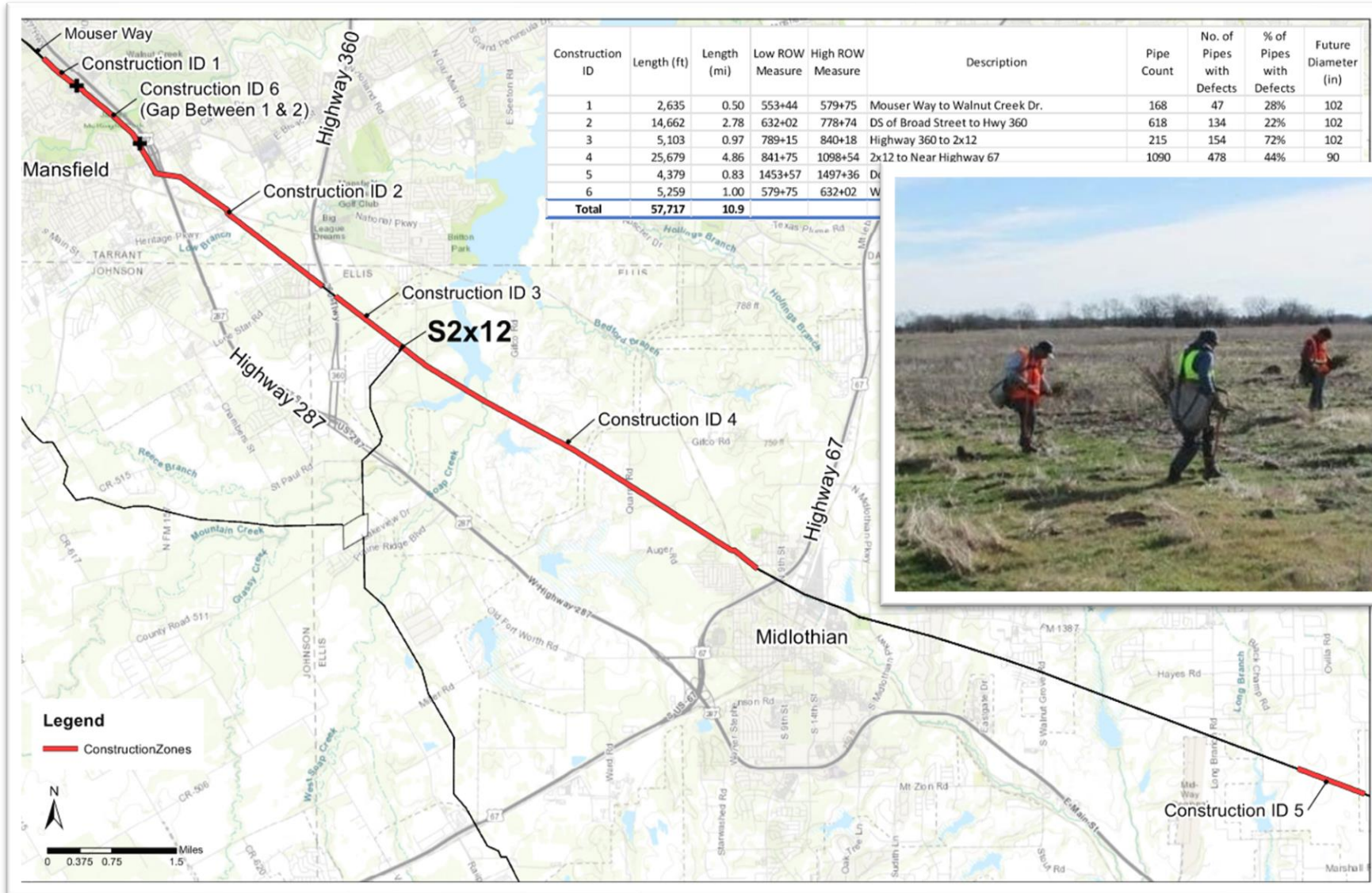


# 4

Consider Approval of Contract with Freese and Nichols, Inc. for Environmental and Permitting Services for the Cedar Creek Pipeline Replacement Project in the Mansfield to Waxahachie Area

Darrel Andrews, *Environmental Director*

# Cedar Creek Pipeline Replacement Project Area



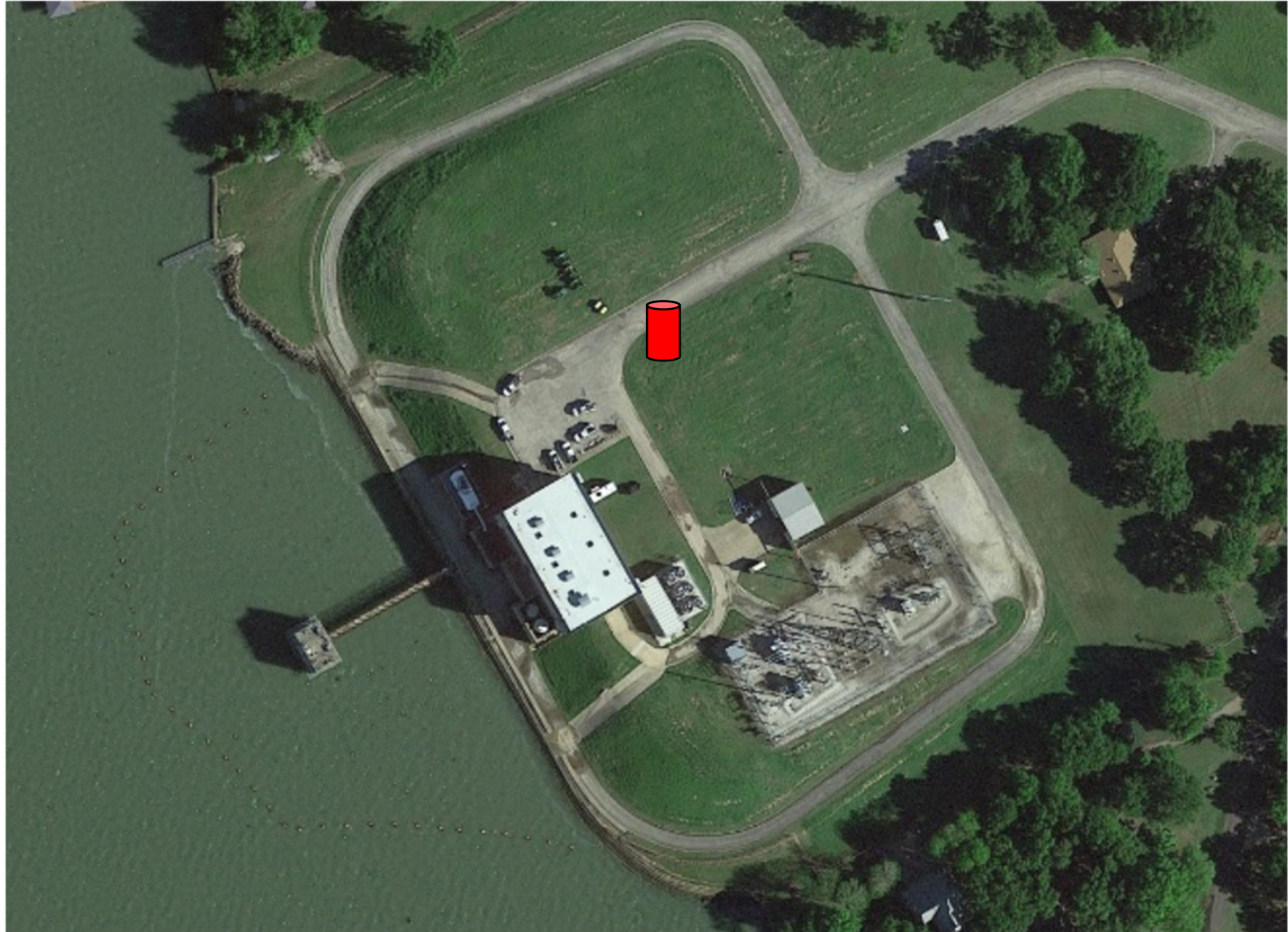
# 5

Consider Approval of Contract with Archer Western Construction, LLC for Backup Sodium Hypochlorite Feed Facility and Hydraulic Actuators Installation at Richland-Chambers Lake Pump Station

Jason Gehrig, *Infrastructure Engineering Director*

# Backup Sodium Hypochlorite Facility

WATER SUPPLY · FLOOD PROTECTION · RECREATION



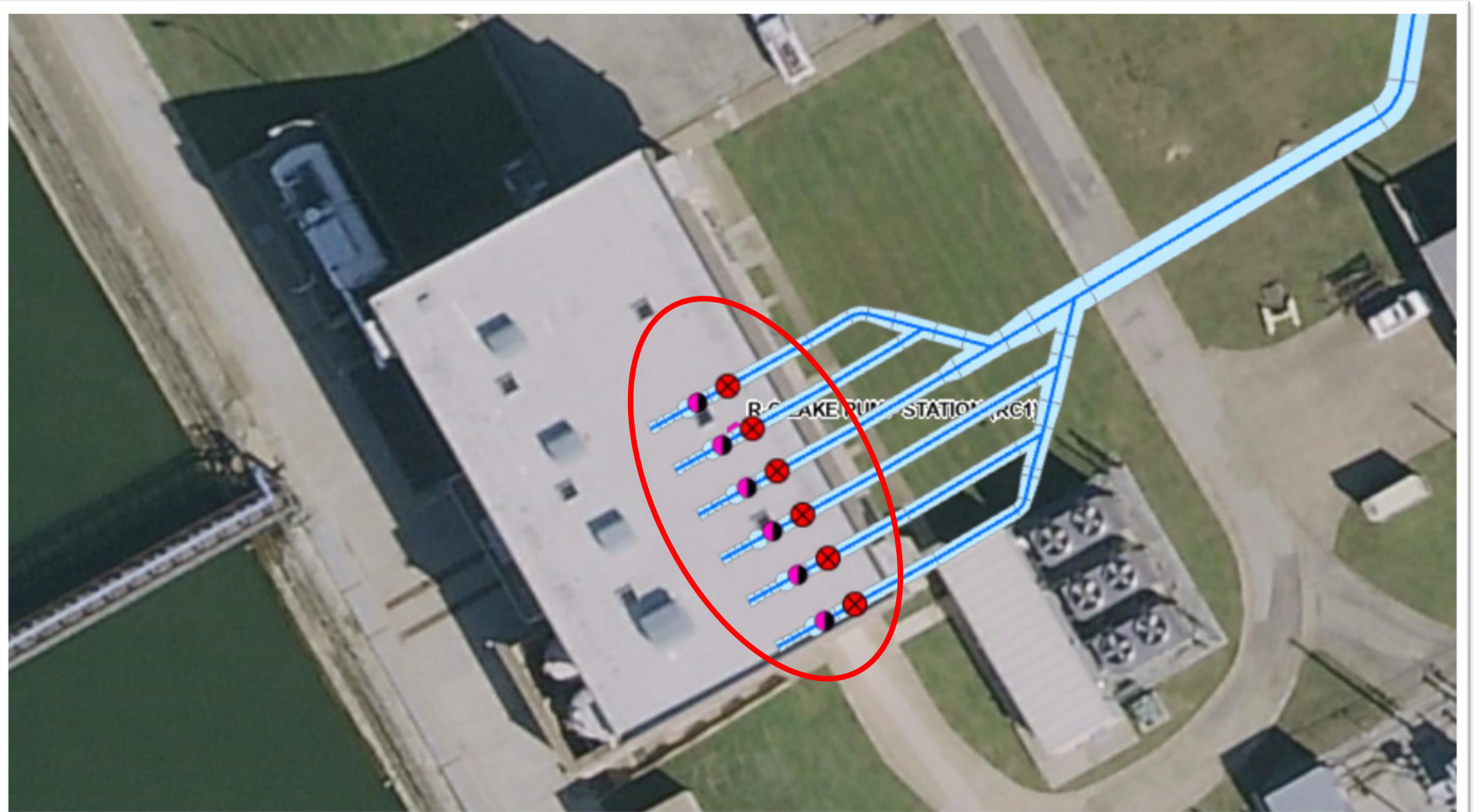


# Owner Procured Sodium Hypochlorite Tank

WATER SUPPLY · FLOOD PROTECTION · RECREATION

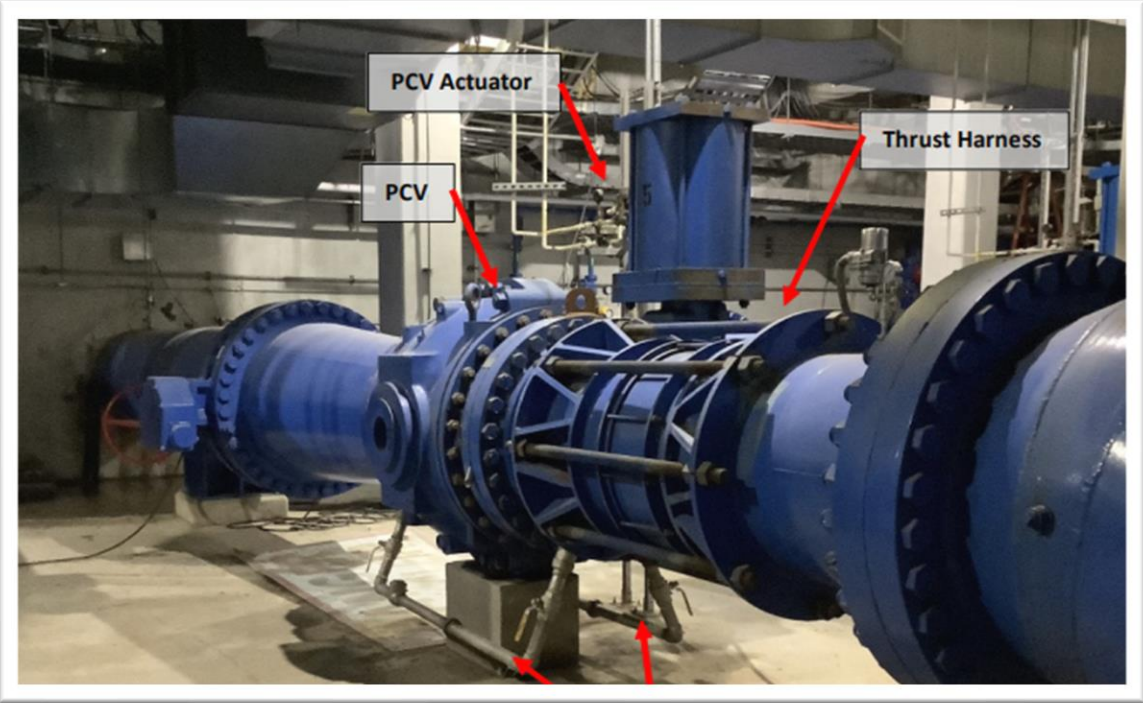


# Hydraulic Actuators for Pump Discharge Valves



# Existing Centralized Hydraulic Actuator System

WATER SUPPLY · FLOOD PROTECTION · RECREATION



# Owner Procured Trident Pump Control Valves

WATER SUPPLY · FLOOD PROTECTION · RECREATION

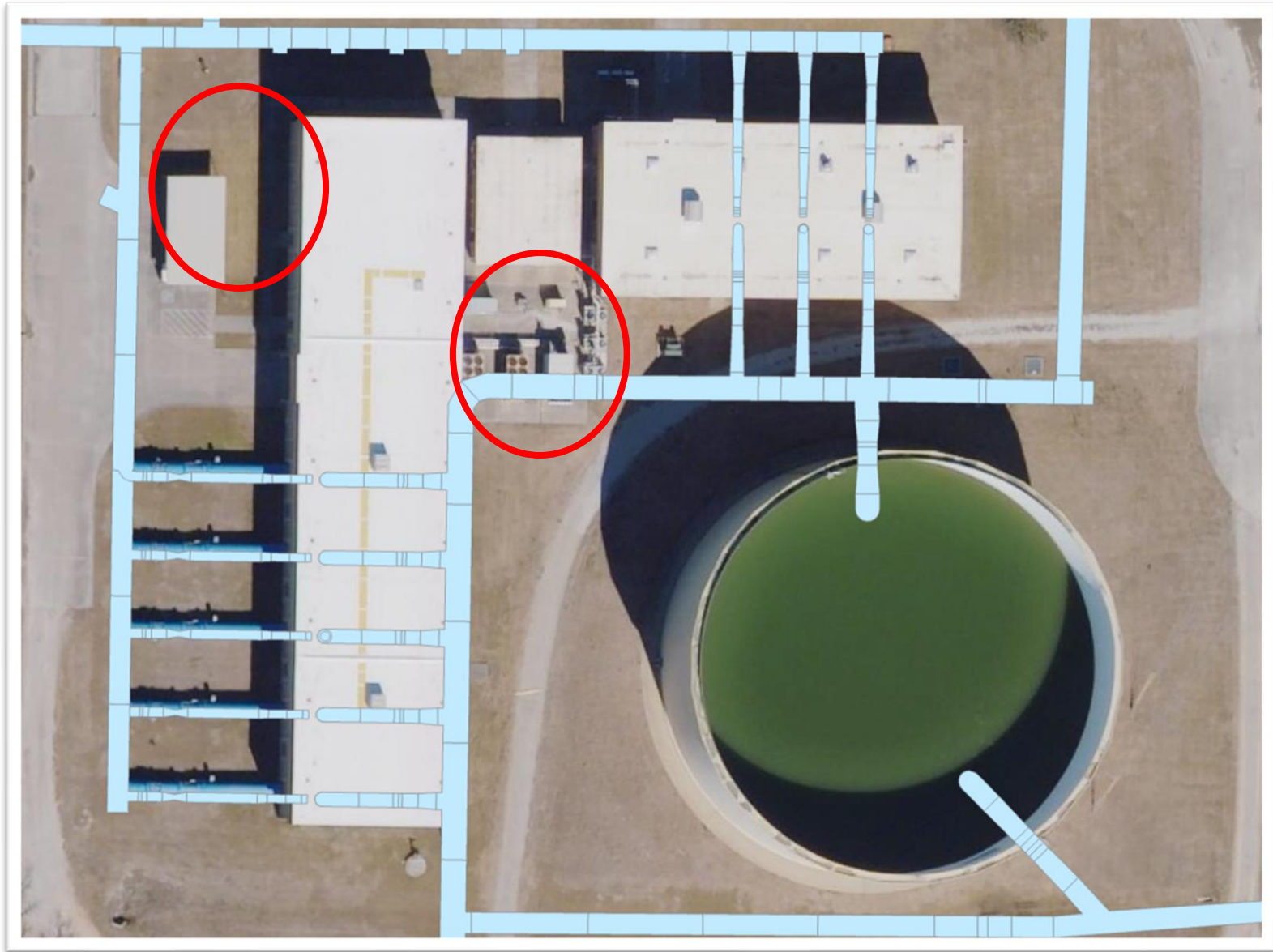


# 6

Consider Approval of Contract with Azcarate & Associates Consulting Engineers, LLC for Engineering Services for Electrical Room Cooling Improvements at Richland-Chambers High Capacity Booster Pump Station in Waxahachie

Jason Gehrig, *Infrastructure Engineering Director*

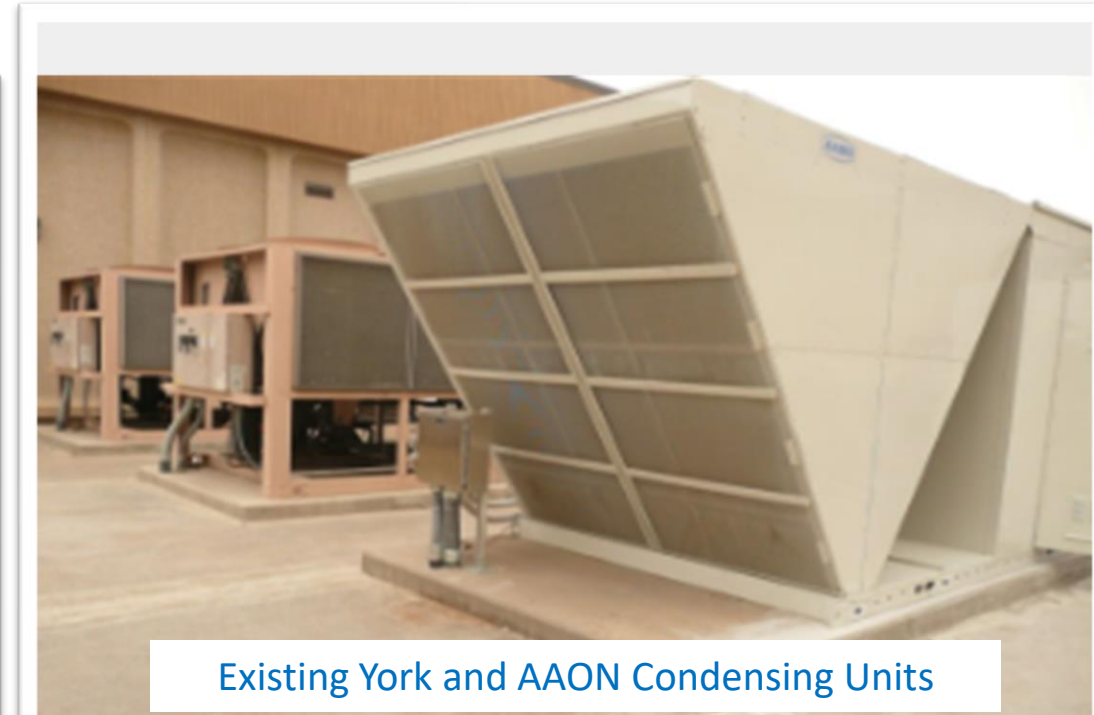
# RC3H Electrical Room Cooling Improvements



# RC3H Electrical Room Cooling Improvements

**Why Needed?** *RC3H pump station central to meeting customer water supply needs*

- ***Older equipment past its service life***
- ***Frequent, costly failures of existing equipment***
- ***Older equipment not capable of operating in temperature extremes***
- ***Air Handler Units above electrical equipment pose risks to equipment & staff safety***



# RC3H Electrical Room Cooling Improvements

Removing Air Handler Units from above the five 5000 Hp VFD's





# RC3H Electrical Room Cooling Improvements

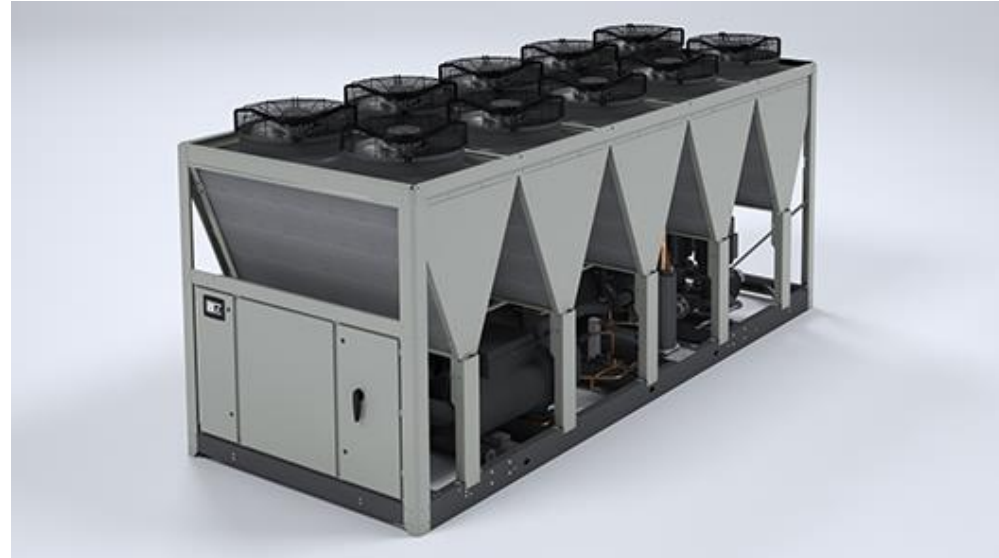
## Scope of Work

***Provide design, bid, and construction services for the installation of:***

- outdoor air-cooled chillers, with***
- indoor air-handling units in a new mechanical building,***

***to replace the existing split-system DX HVAC systems serving the RC3H Electrical Room.***

Air Cooled Chiller



Air Handling Unit

# RC3H Electrical Room Cooling Improvements

Similar Air-Cooled Chillers and Air Handlers at JB3 Booster Pump Station

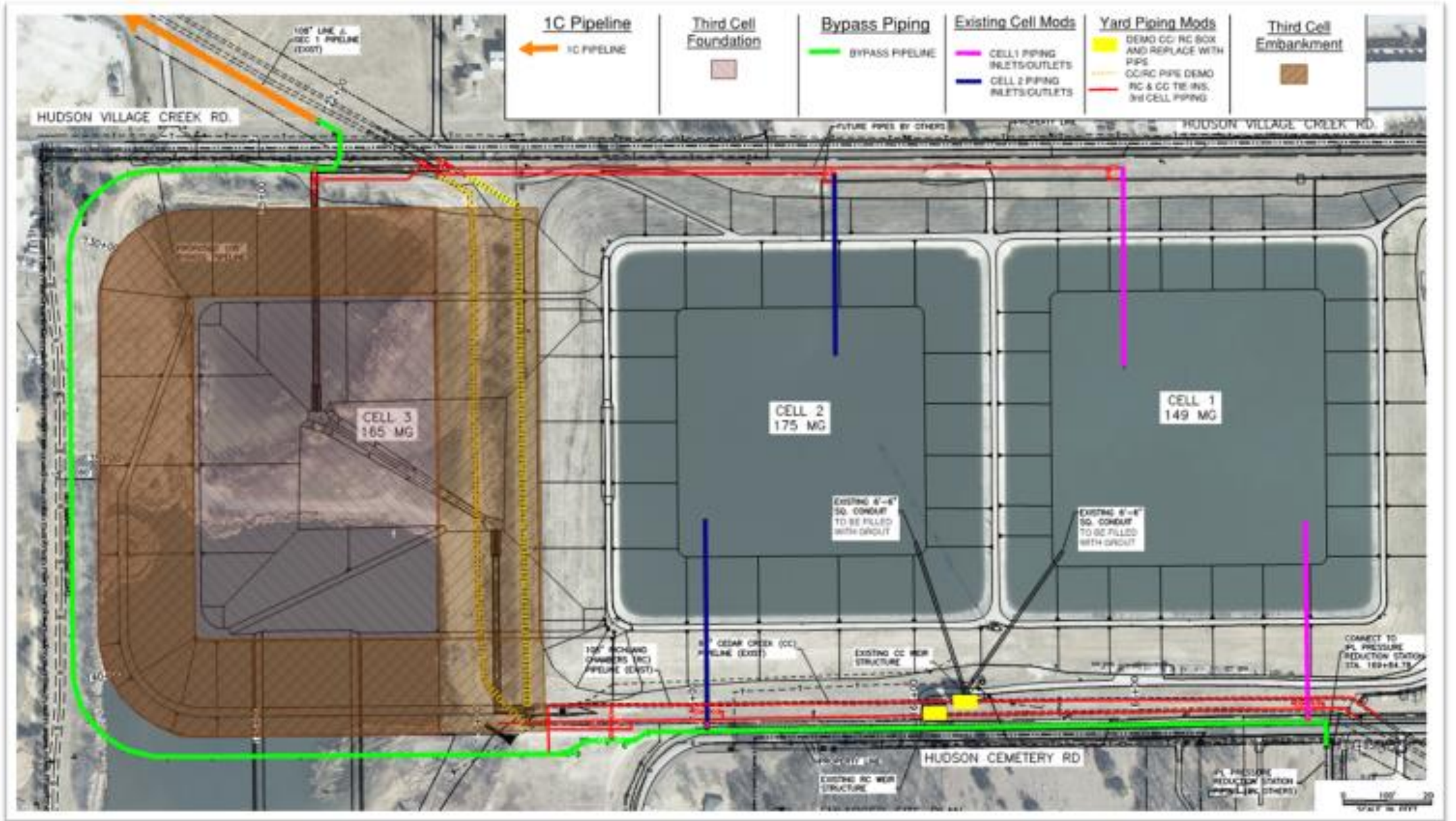




# 7

Consider Approval of Change in Calculation of Retainage with BAR Constructors, Inc. for Kennedale Balancing Reservoir Yard Piping and Inlet and Outlet Modifications Project

Jason Gehrig, *Infrastructure Engineering Director*









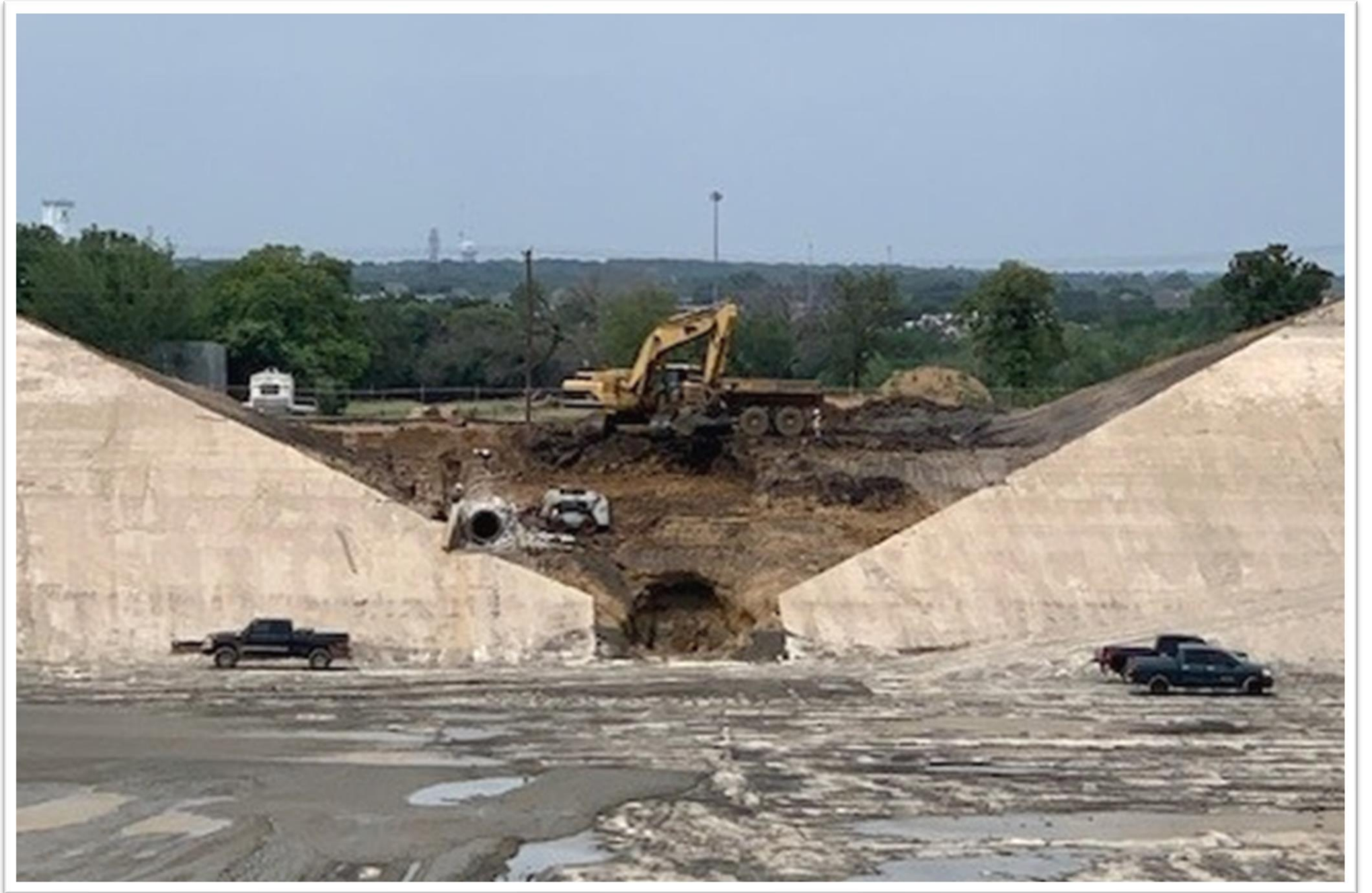
WATER SUPPLY · FLOOD PROTECTION · RECREATION





BAR laying valve T466



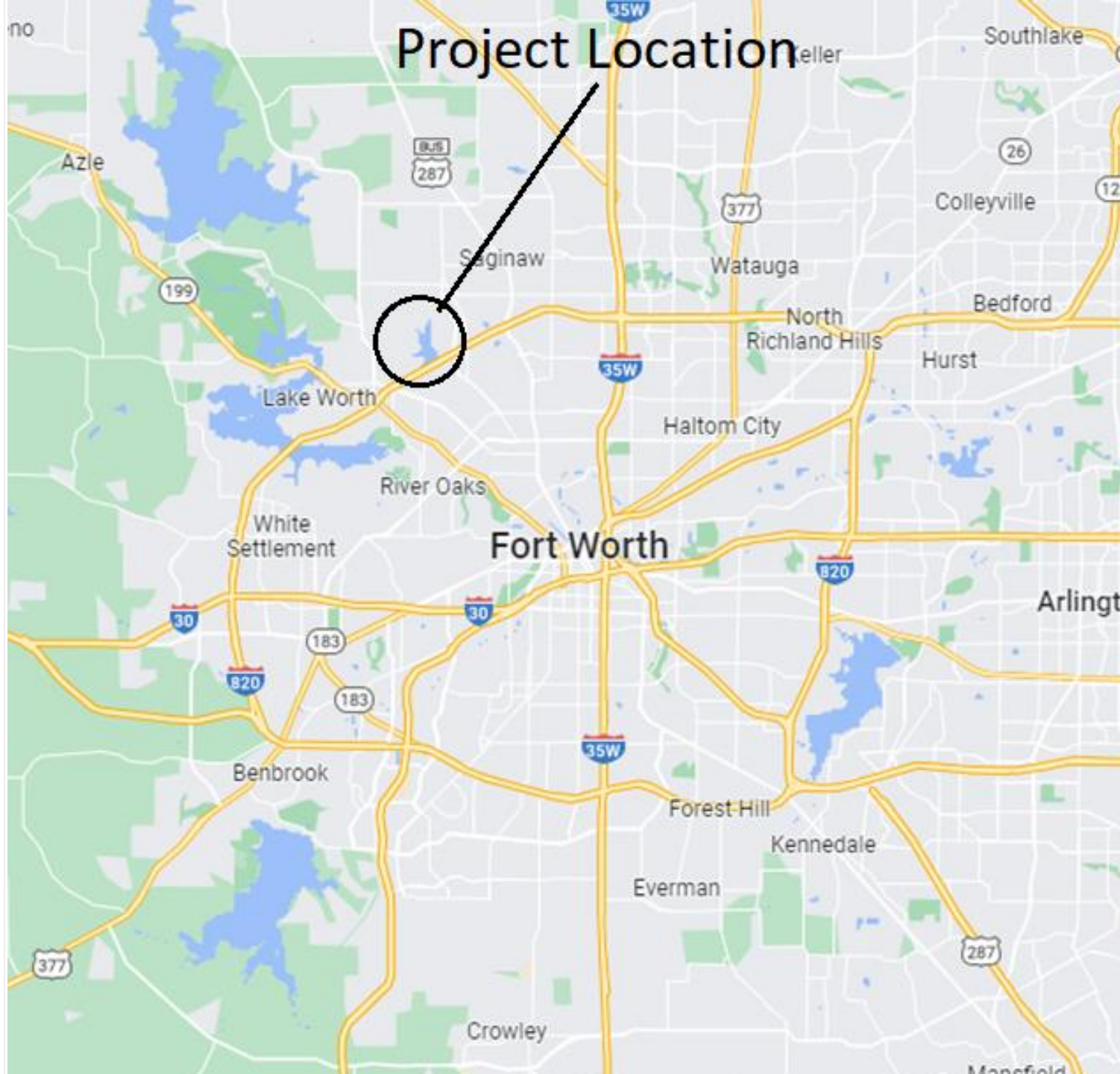




# 8

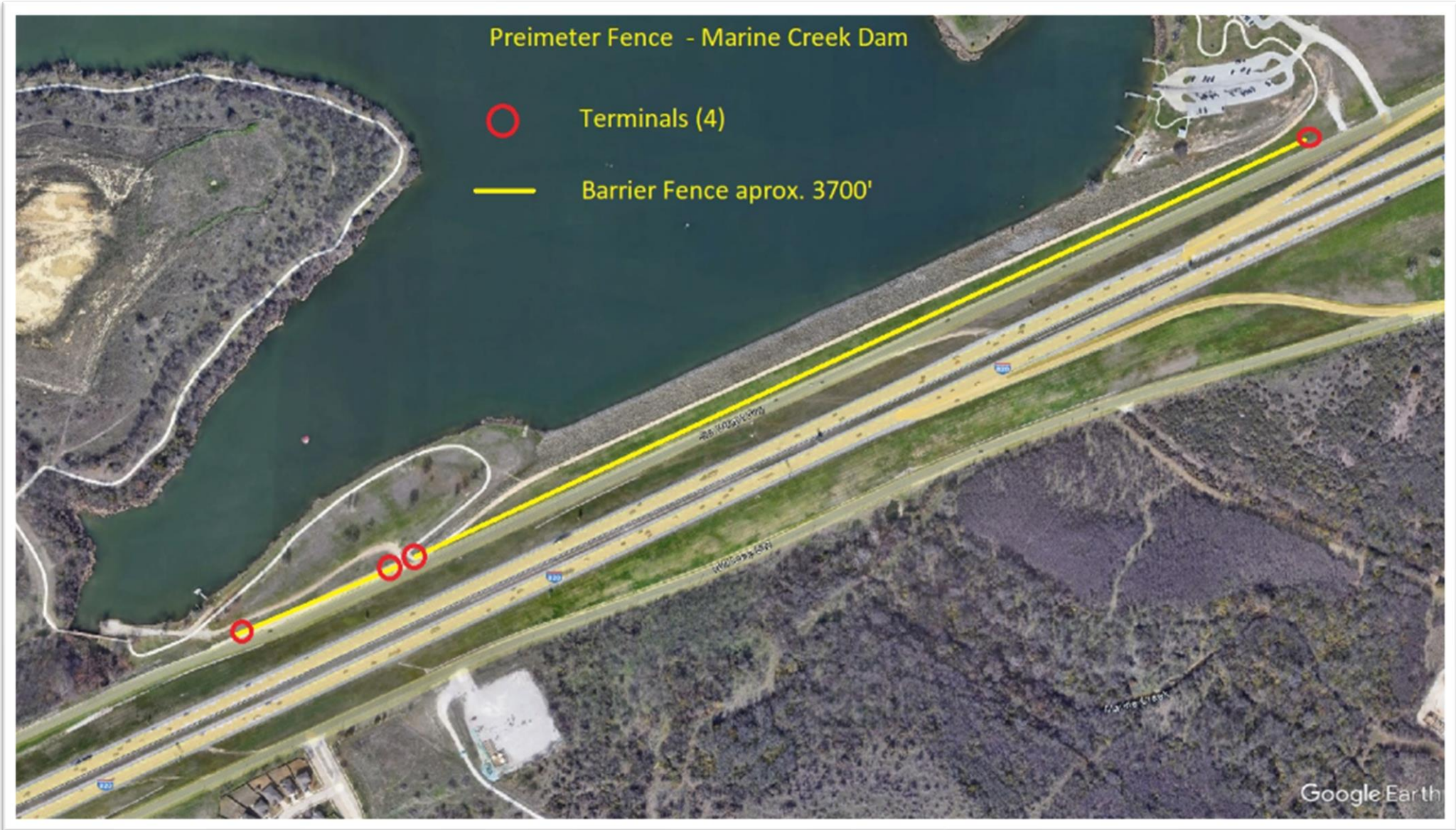
## Consider Approval of Contract with Vann/Elli Inc. for Marine Creek Dam Barrier Fence Installation

Darrell Beason, *Chief Operations Officer*



# Marine Creek Dam Barrier Fence

# Marine Creek Dam Barrier Fence





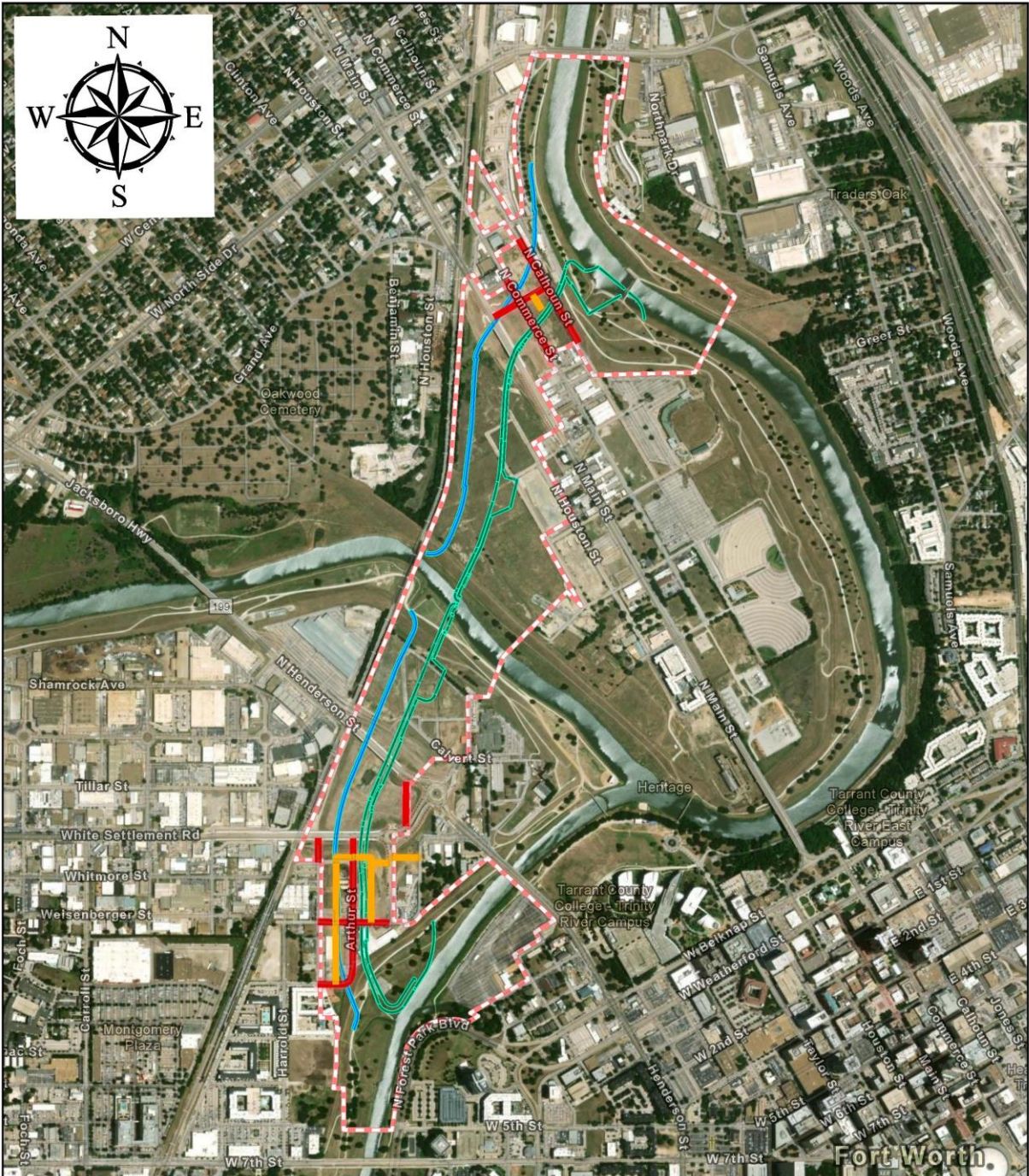
## Marine Creek Dam Barrier Fence



# 9

## Consider Approval of Contract with Kimley-Horn & Associates, Inc. for Central City and Panther Island Engineering Support Services

*Kate Beck, Program Director  
Central City Flood Control Project*



**TRWD Central City 2023  
Central City and Panther Island  
Engineering Support Services  
Scope includes  
FWCC Local Street Modifications  
Street and Alley Vacations**

- Alley Vacation
- Street Vacation
- Bypass Channel Soft Edge:**
- Inner Levee Toe & 15' Offset
- Bypass Channel Hard Edge: Bottom & Top Floodwall**
- 
- Bypass Channel Construction Limits (Proposed)**
- 



Disclaimer:  
This data is an approximation based upon the best information available at the time of printing. Information contained on this map is intended for general planning level use only and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and only represents approximate relative locations. The Tarrant Regional Water District is not liable for misuse of this information or derivative products resulting from this map.  
MAP PRODUCED ON 8/4/2023 4:31 PM BY TRWD



# 10

Consider Approval of Contract with The National Theatre for Children, Inc., for Elementary School Water Conservation Education Services

Linda Christie, *Government Affairs Director*



# 11

## Consider Approval of Contract with Tinker LLC for Elementary School Water Conservation Education Services

Linda Christie, *Government Affairs Director*

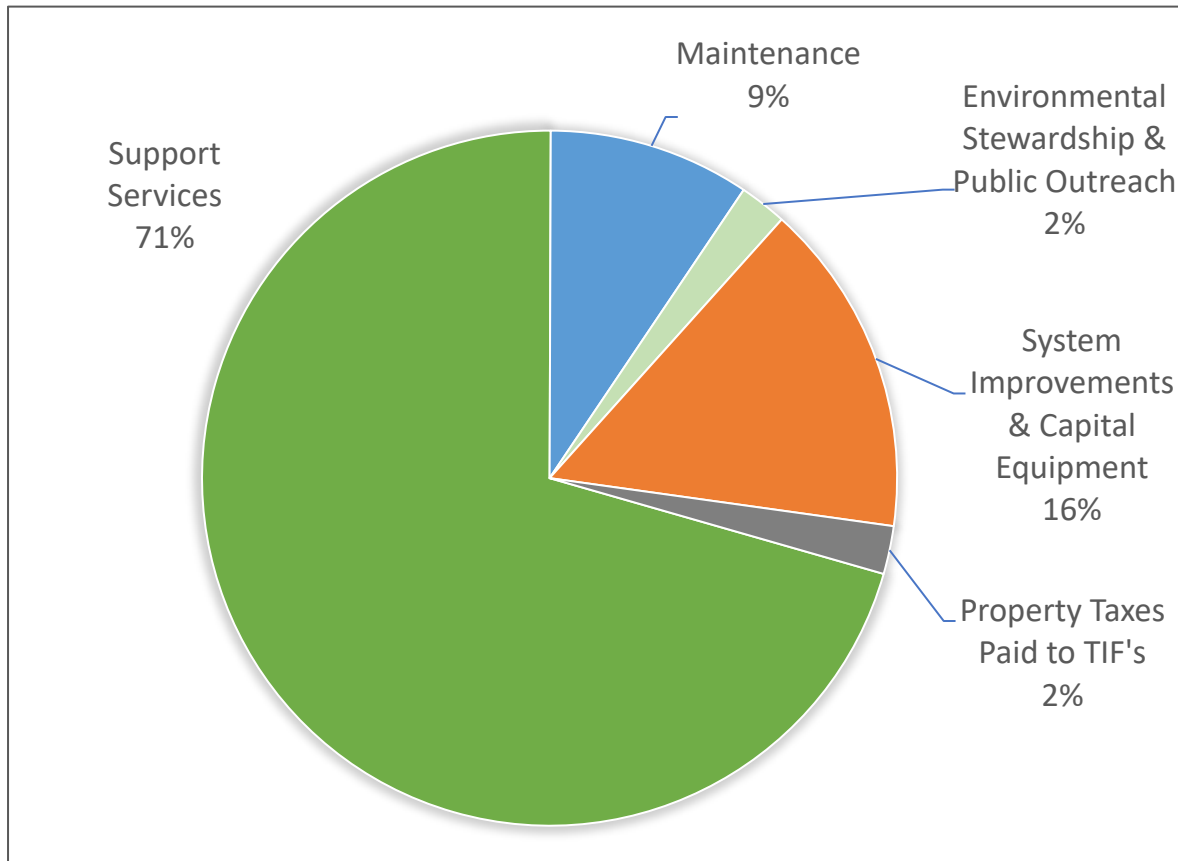
# 12

Vote to Place a Proposal to Adopt a Tax Year 2023 Tax Rate of \$.0267/\$100 on the Agenda for the September 19, 2023 Board of Directors Meeting; and Establish a Date for a Public Hearing to be Held September 13, 2023 at 3:30 PM on the Proposed Tax Year 2023 Tax Rate of \$.0267/\$100

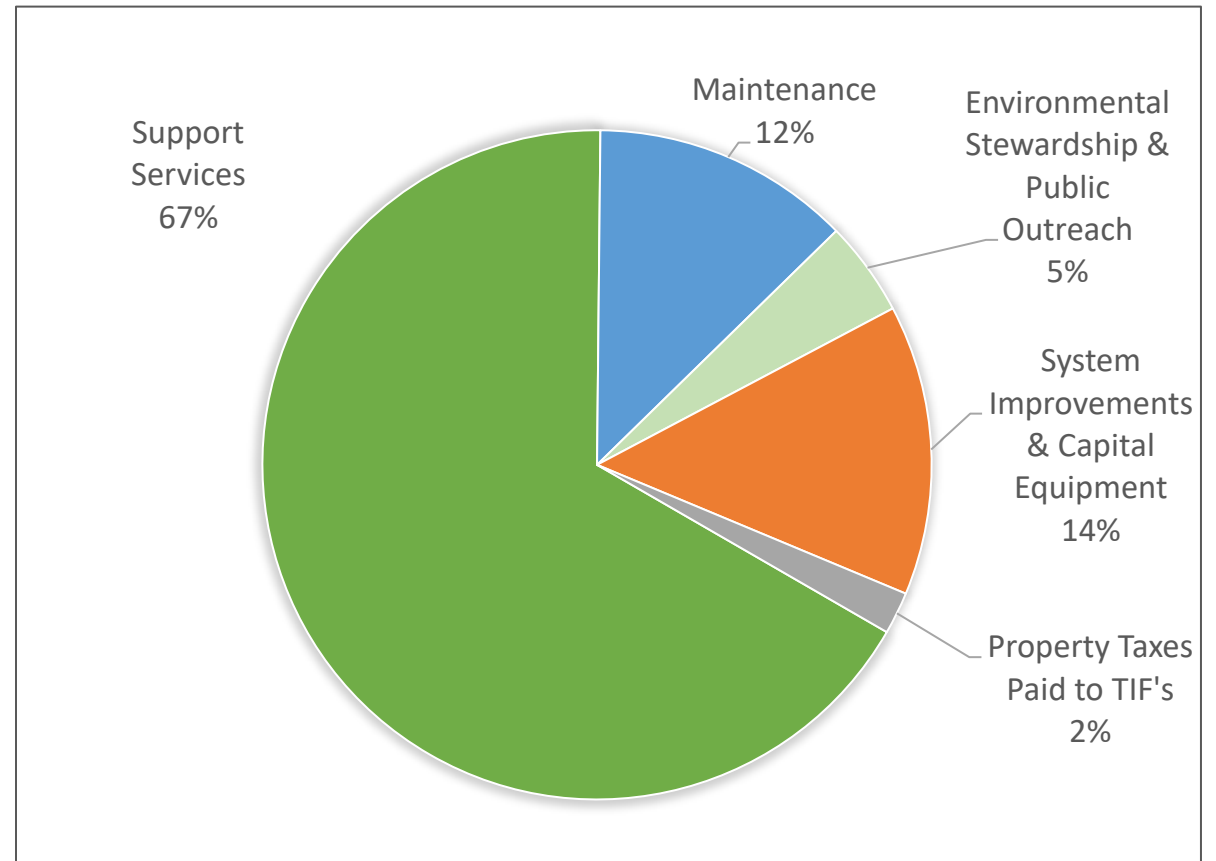
*Sandy Newby, Chief Financial Officer*

# FY2024 Proposed General Fund Expenditures

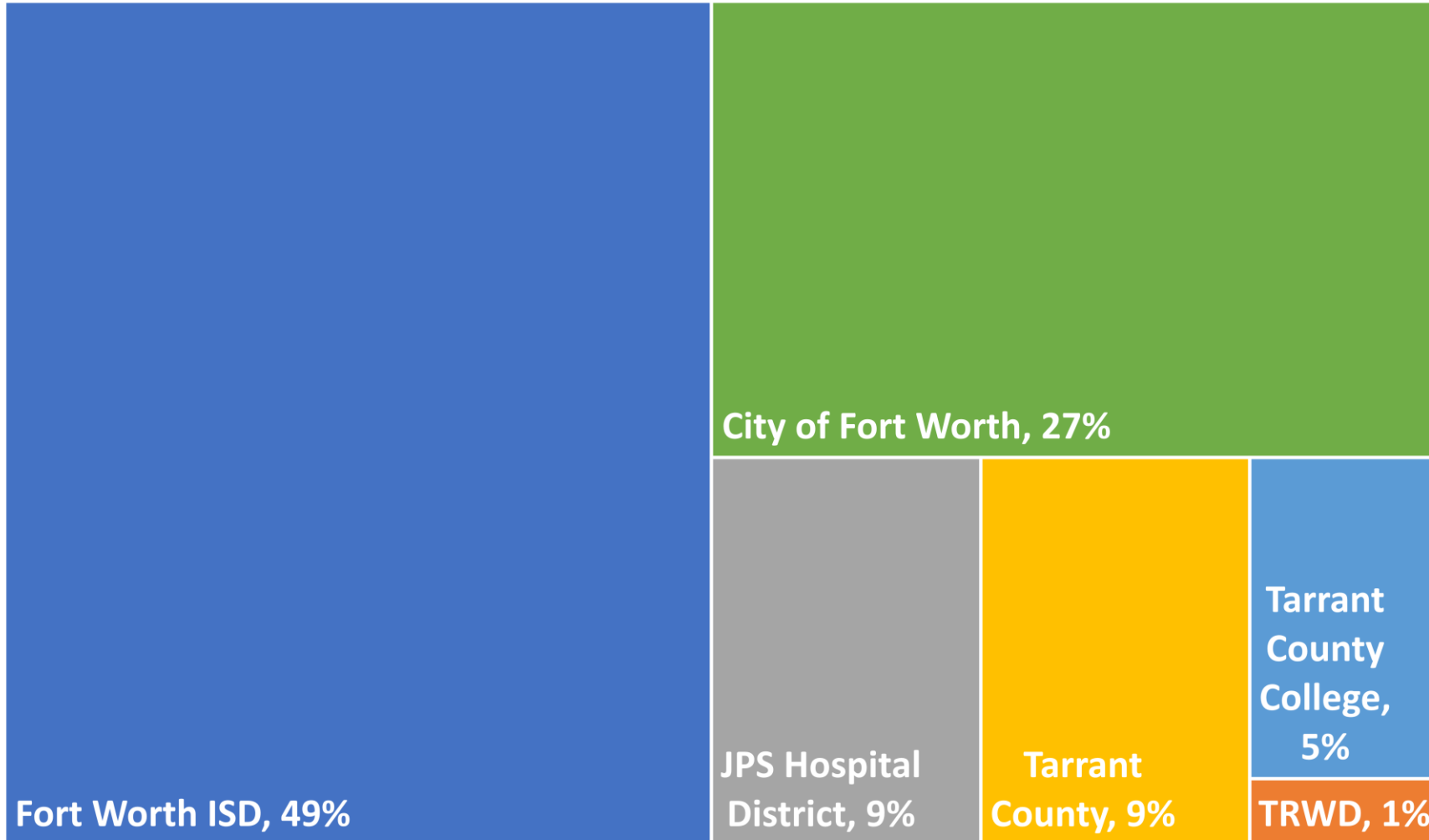
## July 2023 Proposed Budget



## Updated August 2023 Proposed Budget



# 2022 Average Taxes for District Resident By Entity



Fort Worth ISD	\$3,057.44
City of Fort Worth	\$1,699.77
JPS Hospital District	\$535.41
Tarrant County	\$534.38
Tarrant County College	\$310.54
<b>TRWD</b>	<b>\$64.17</b>
<b>Total</b>	<b><u>\$6,201.71</u></b>

# Staff Update

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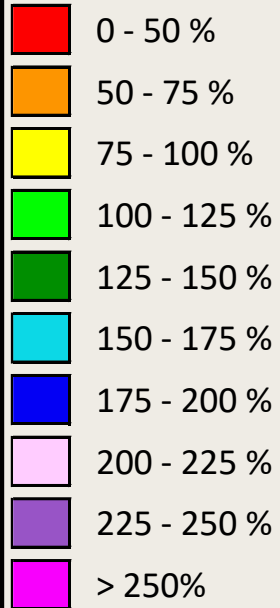
## Water Resources Update

*Zachary Huff, Water Resources Engineering Director*

# Percent of Normal Rainfall

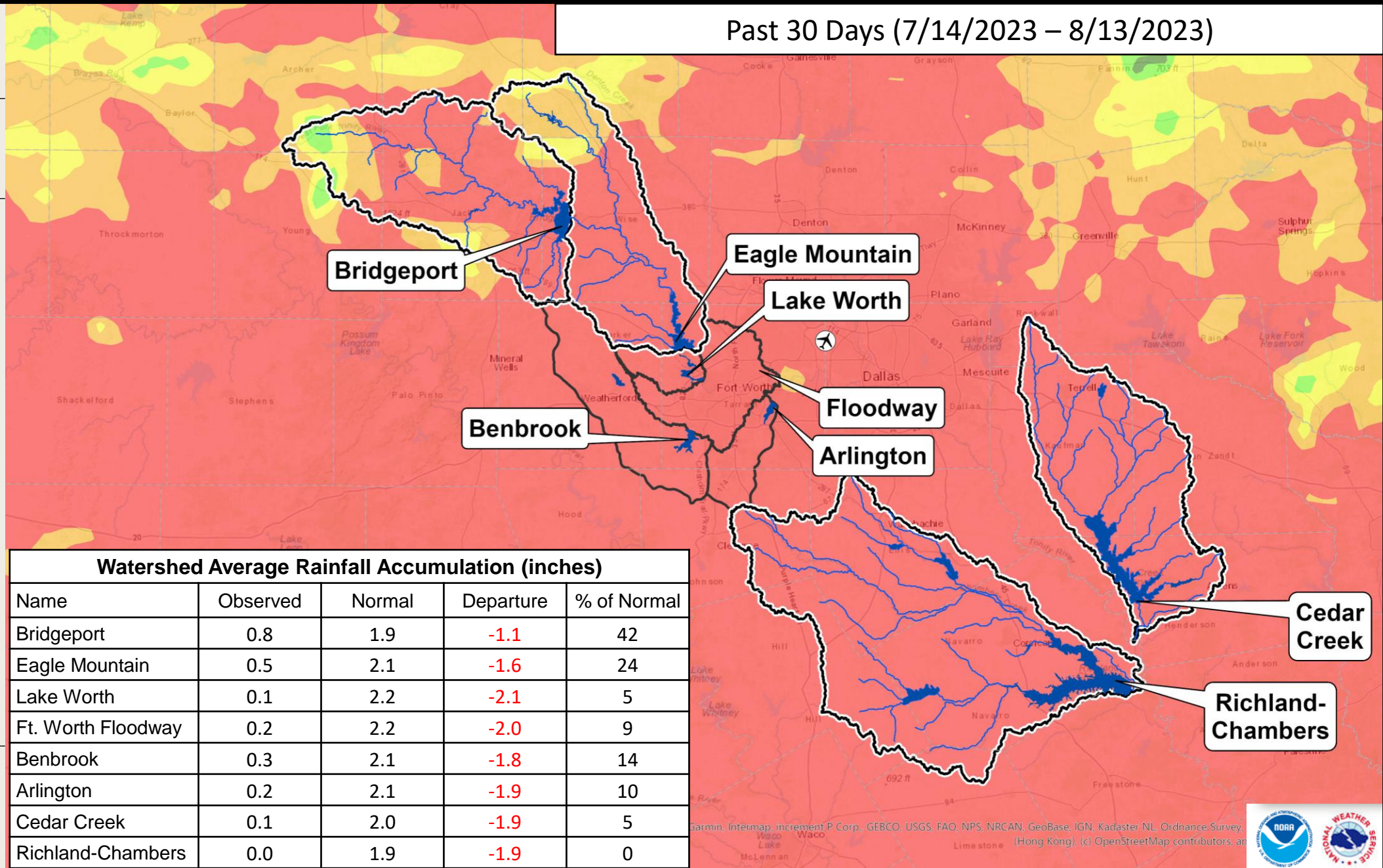


## LEGEND



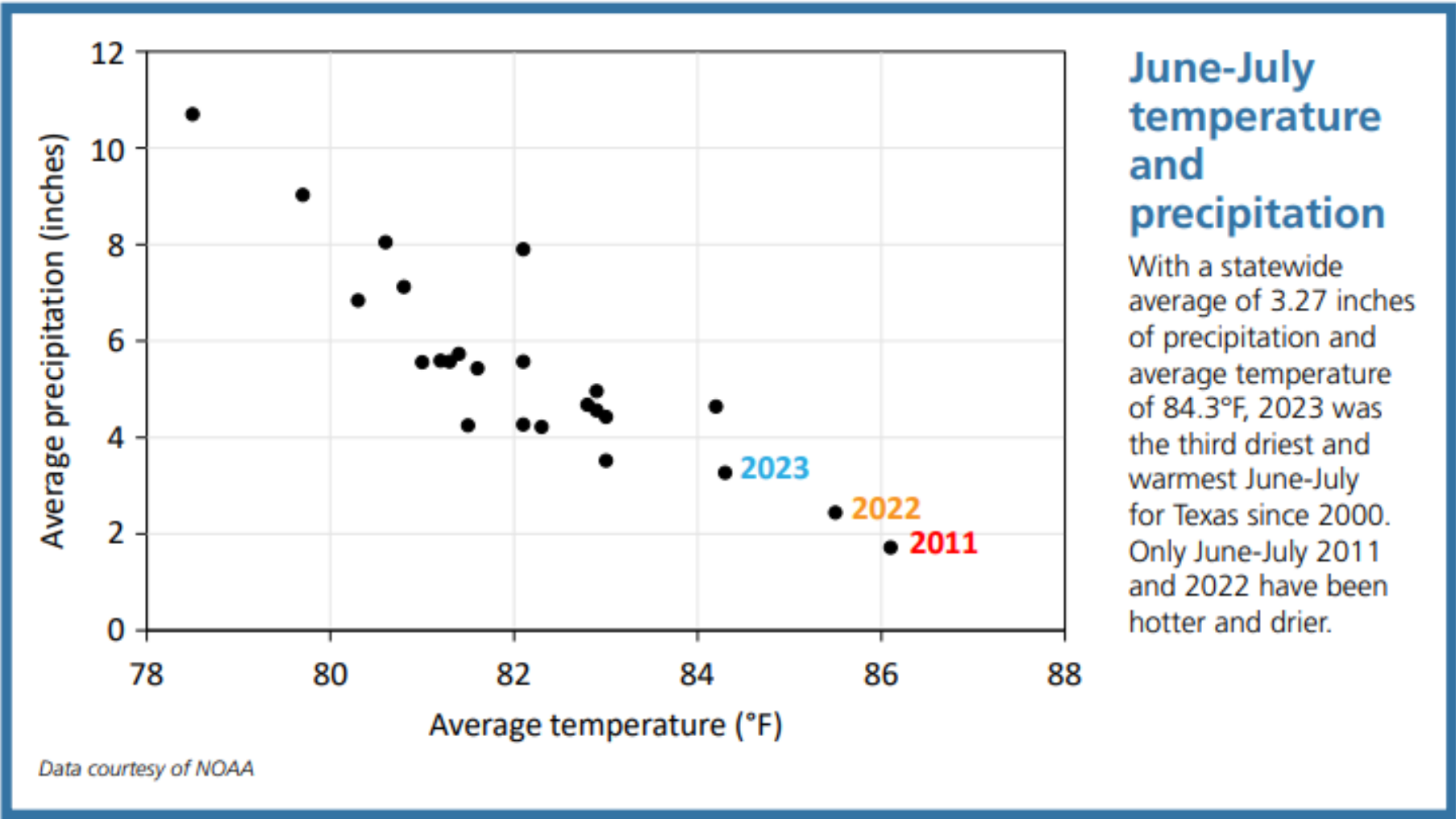
Precipitation totals are obtained from NOAA's NWS. The totals displayed are estimated by the WGRFC. The data is processed and displayed using ESRI ArcGIS.

Past 30 Days (7/14/2023 – 8/13/2023)



Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri, DeLorme, Swire, Ngeo, Swisstopo, Mapbox, OpenStreetMap contributors, Swatch, Bing, and Mapbox





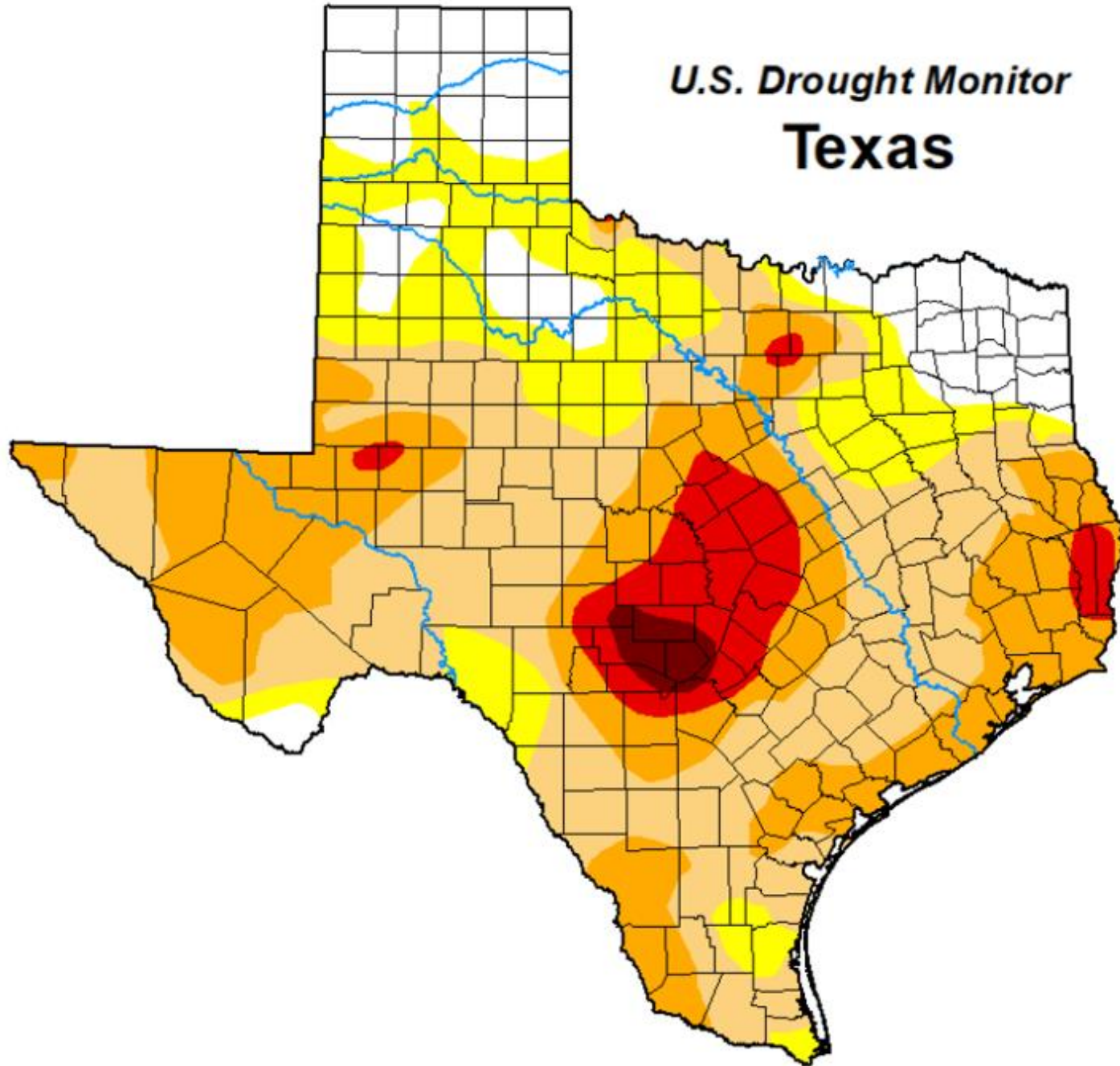
*Written by Dr. Mark Wentzel — Dr. Mark Wentzel is a hydrologist in the TWDB's Office of Water Science and Conservation.*

**Bryan McMath, Governmental Relations** | [bryan.mcmath@twdb.texas.gov](mailto:bryan.mcmath@twdb.texas.gov) | 512-463-7850

**Media Relations** | [MediaRelations@twdb.texas.gov](mailto:MediaRelations@twdb.texas.gov) | 512-463-5129



# U.S. Drought Monitor Texas



**August 8, 2023**  
(Released Thursday, Aug. 10, 2023)  
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	13.97	86.03	68.76	34.27	7.87	1.18
<b>Last Week</b> 08-01-2023	21.20	78.80	52.09	19.26	4.81	1.06
<b>3 Months Ago</b> 05-09-2023	33.27	66.73	52.32	37.10	17.43	2.71
<b>Start of Calendar Year</b> 01-03-2023	28.84	71.16	49.90	26.60	7.41	1.60
<b>Start of Water Year</b> 09-27-2022	14.96	85.04	61.36	31.61	8.82	1.06
<b>One Year Ago</b> 08-09-2022	1.03	98.97	96.30	87.50	68.21	29.09

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

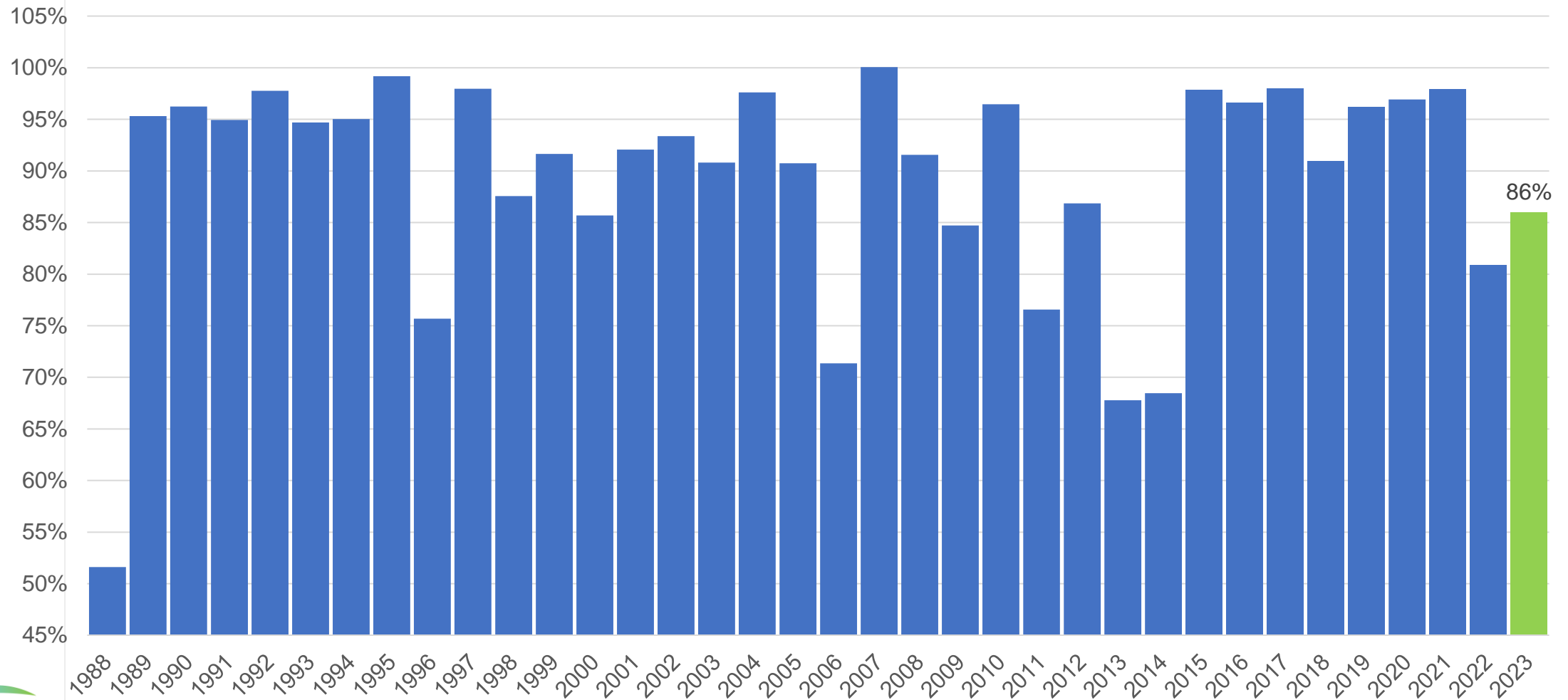
Brad Pugh  
CPC/NOAA



[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

# Percent of Total Storage on August 13

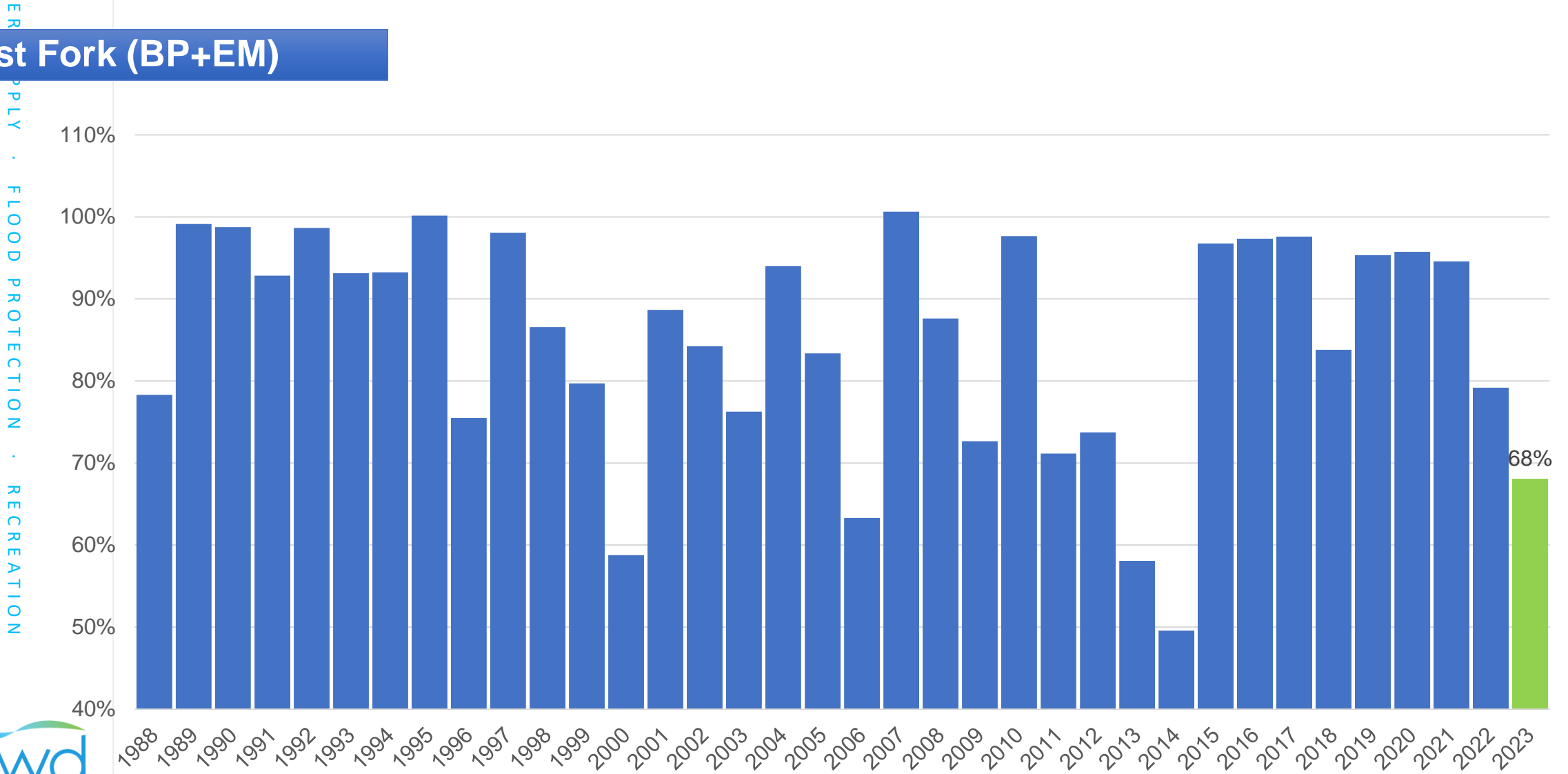
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\*1988 – All four TRWD reservoirs operational

# Percent of West Fork Storage on August 13

## West Fork (BP+EM)

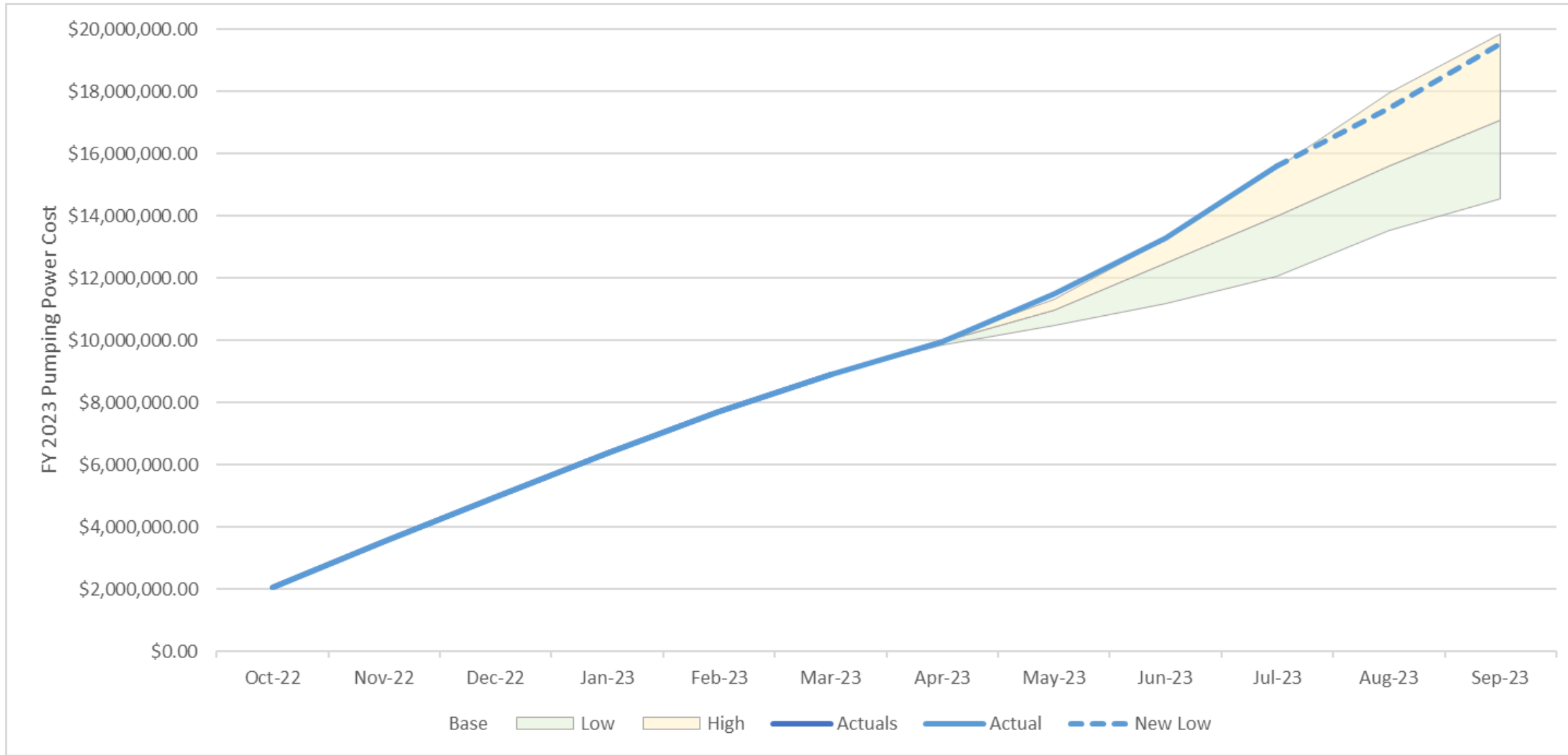


\*1988 – All four TRWD reservoirs operational



# FY 2023 Pumping Power Cost

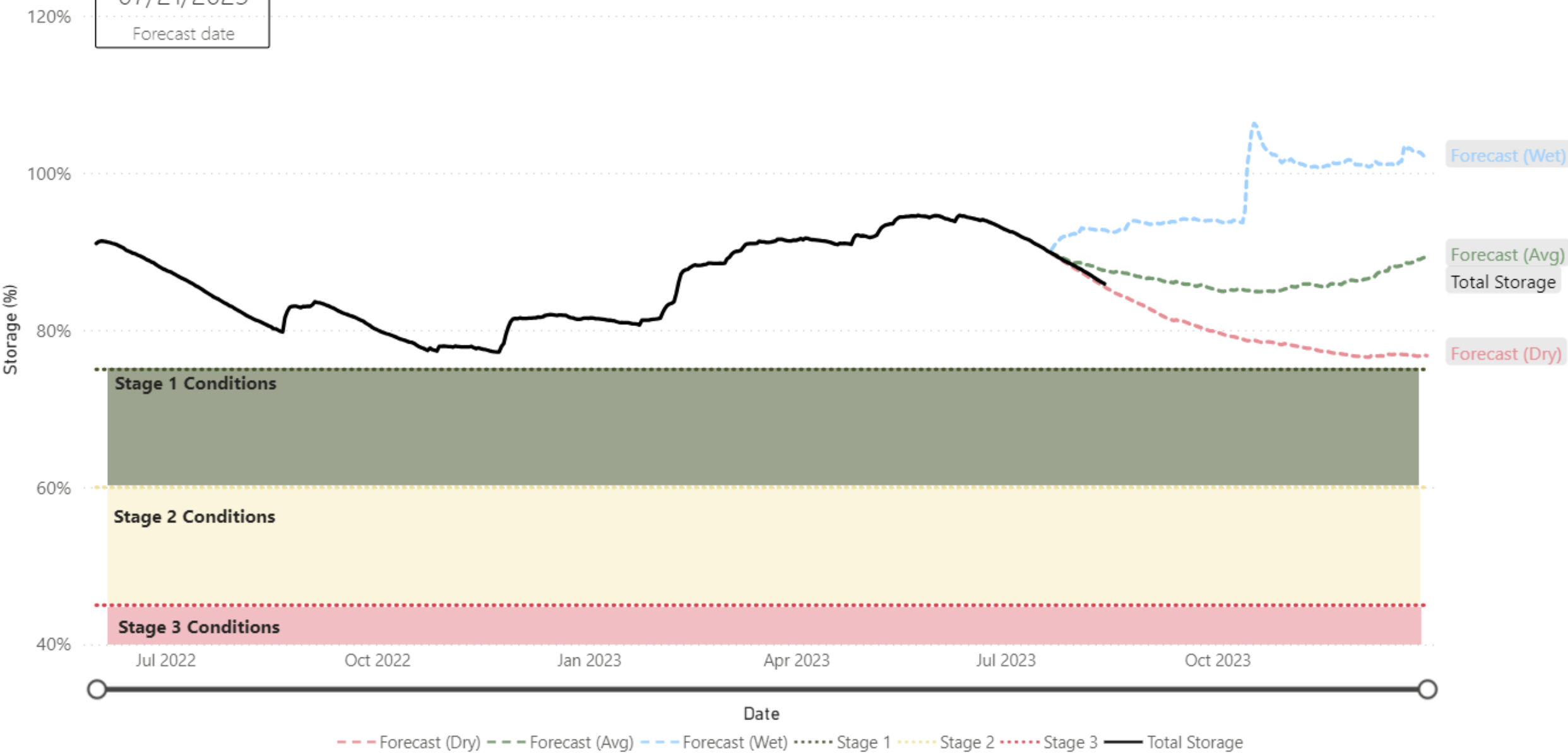
WATER SUPPLY · FLOOD PROTECTION · RECREATION



# Projected Total Water Storage

07/21/2023

Forecast date



Stage 1 Conditions

Stage 2 Conditions

Stage 3 Conditions

Forecast (Wet)

Forecast (Avg)

Total Storage

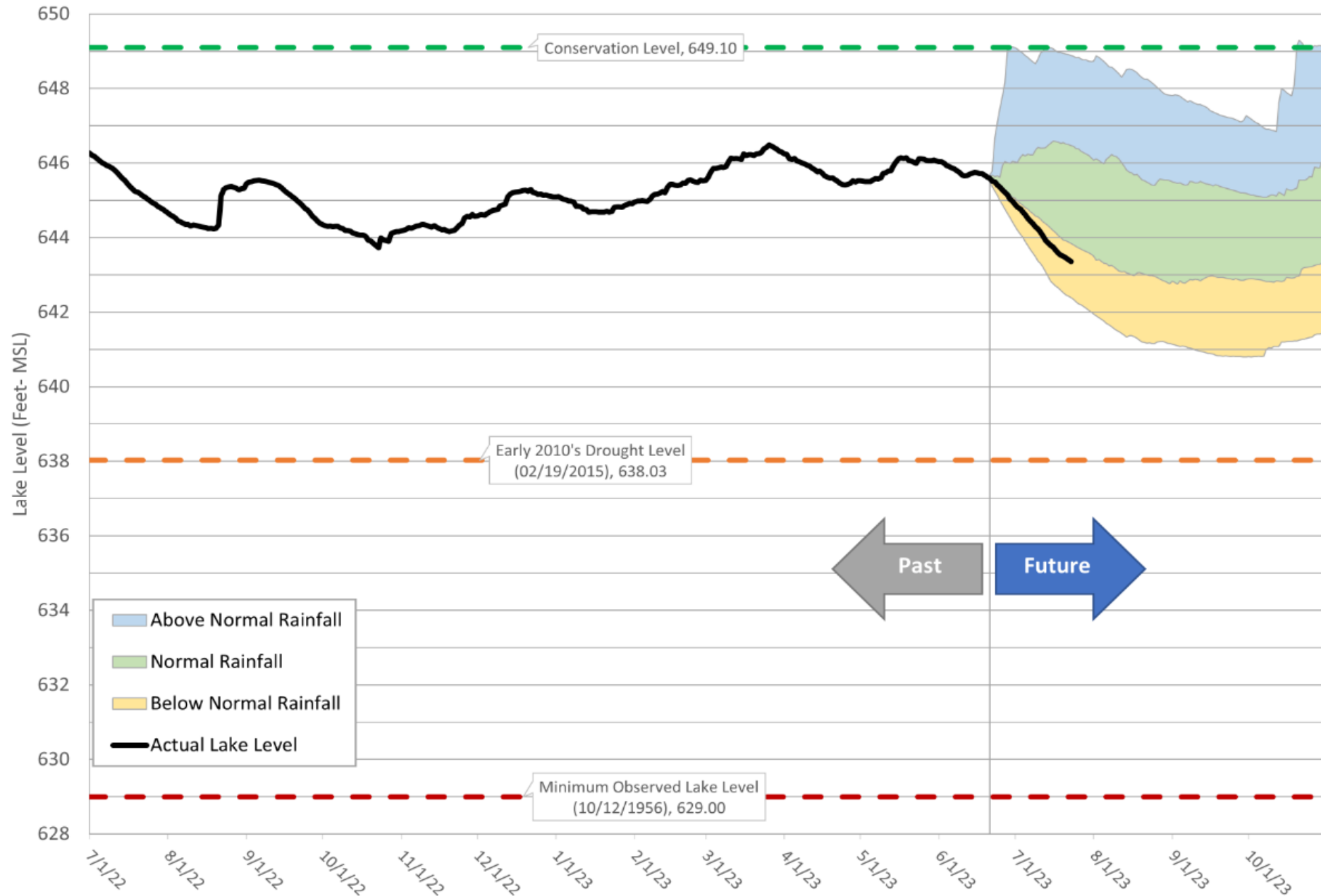
Forecast (Dry)

Forecast (Dry) Forecast (Avg) Forecast (Wet) Stage 1 Stage 2 Stage 3 Total Storage

# Lake Level Blog

[www.trwd.com](http://www.trwd.com)

## Lake Level Projections - Eagle Mountain Lake



\*\*\*Projections are based on simulation of TRWD's hydrologic data ensemble to estimate a range of possible lake level outcomes. All projections are subject to revision.

Date of Projection: June 21, 2023

# Staff Update

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## Panther Island Vision 2.0 Update

*Kate Beck, Program Director, Central City Flood Control Project*



# PANTHER ISLAND - VISION 2.0

- **Vision 2.0 Partner Agencies:**

- City of Fort Worth, Tarrant County, the Tarrant Regional Water District (TRWD), Tarrant County College, Real Estate Council of Greater Fort Worth, Downtown Fort Worth, Inc., and Streams & Valleys.

- **November 2022:**

- Project partners issued a Request for Proposals (RFP) for national real estate development experts who would consult on ways that Panther Island can reach its full economic potential, bringing the Trinity River Vision into alignment with the city's Economic Development Strategic Plan as part of an updated strategic vision for the area.

- **January 2023:**

- HR&A Advisors was selected to provide key analysis and consulting services that will guide the future development of Panther Island.

# PANTHER ISLAND - VISION 2.0

- **Phase 1 (COMPLETED):**
  - Site Discovery & Opportunity Assessment
  - January 2023 – Summer 2023
  - Phase 1 HR&A Preliminary Findings Report on [PantherIsland.com](https://PantherIsland.com)
- **Phase 2:**
  - Strategic Vision Update & Development Strategy
  - Summer 2023 – Fall 2023
  - Phase 2 includes community involvement through public meetings & surveys
- **Phase 3:**
  - Implementation Toolkit
  - Fall 2023 – December 2023
  - Phase 3 will align partners and stakeholders on implementation roles and responsibilities and communicate the project vision and strategy publicly through multiple channels and formats

# PANTHER ISLAND - VISION 2.0

## Key Themes Identified in Phase 1

### VISION & IDENTITY

- Establish a distinct and compelling identity for Panther Island grounded in economic development opportunities, community ambitions, and complementary to existing neighborhoods.

### URBAN DESIGN

- Recommend updated planning, design, and regulatory approaches that are authentic to Fort Worth, address the project's significant physical complexities, and offer a compelling vision to attract new activity and investment.

### CONNECTIONS TO COMMUNITY

- Create a place that is inclusive, welcoming, and reflective of the history and culture of Fort Worth's communities, especially those nearest the project. Equip partners to provide public benefit and mitigate threats of residential and cultural displacement.

### STRATEGIC IMPLEMENTATION

- Develop approaches to phasing, governance, funding and financing, partnership, and public land development that create predictability and confidence in near- and long-term investment.

# PANTHER ISLAND - VISION 2.0

## HR&A Deliverables

### UPDATED STRATEGIC VISION

- District identity
- Design and planning recommendations
  - Open space and public realm approach
  - Land use and density framework
  - Mobility, transportation, and parking considerations

### REAL ESTATE & ECONOMIC DEVELOPMENT STRATEGY

- Economic development positioning
- Public land redevelopment strategy
- Development phasing and catalyst sites
- Case studies

### IMPLEMENTATION ROADMAP

- Infrastructure funding and financing considerations
- Governance and public-private partnership recommendations
- Action plan, roles, and responsible for implementation

# Staff Update

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## Central City Flood Control Project Website Update

*Matt Oliver, Outreach Coordinator*

*Central City Flood Control Project*

# CENTRAL CITY FLOOD CONTROL PROJECT

The Central City Flood Control Project addresses Fort Worth's flood risks that are a result of explosive population growth with the city having tripled in size since the current levee system was constructed in the 1960s.

THE CENTRAL CITY FLOOD CONTROL PROJECT HAS TWO MAIN COMPONENTS:

## Flood Protection Infrastructure

The rerouting of a section of the Trinity River due north of downtown (bypass channel).

[LEARN MORE](#)

## Riverside Oxbow (Gateway Park) Flood Water Storage

Modifying a large park on the east side of the city to better manage flood events in a manner that will also restore the area.

[LEARN MORE](#)

The combination of these efforts will return flood protection to over 2,400 acres of established Fort Worth neighborhoods including nearly 14,000 residents in 7,200 homes and over 1,000 businesses.

### Project Partners

The Central City Flood Control Project is a partnership between federal, state and local partners to bring needed flood protection to Fort Worth. Project partners include Tarrant Regional Water District, City of Fort Worth, Tarrant County, Texas Department of Transportation, U.S Army Corps of Engineers, and Streams & Valleys.





## PROTECTING AT-RISK NEIGHBORHOODS

Fort Worth has nearly tripled in population since USACE built the current levee system in the early 1960s, having grown from 350,000 to over 920,000. Because of the booming population growth, even as far back as the early 2000s, the USACE had already determined that 86% of Fort Worth's current levee system is no longer tall enough to protect us from the events expected to hit this area. Over 2,400 acres of established neighborhoods in our city are in jeopardy of flooding.

[LEARN MORE](#)

## USACE FLOOD WATER STORAGE

Flood water storage is a critical need for our community right now providing immediate flood relief. With that in mind, USACE has completed four flood water storage construction sites to date, totaling more than \$32 million in USACE contracts and the removal of over 2 million square yards of dirt.

The future bypass channel will protect more than 2,400 acres of neighborhoods in Fort Worth from the highest level of flooding. However, the bypass channel cannot accomplish this alone. In times of flooding, water will be moving through the bypass channel, but there is a need to slow that water down to prevent flooding our neighbors to the east. A series of flood water storage sites are crucial to the Central City Flood Control Project.

The amount of material moved as well as the locations themselves were carefully chosen. These sites provide the needed flood protection along with providing multiple-use opportunities. In many cases USACE will excavate the site (Gateway Park for example) allowing that area to be turned over to the City of Fort Worth to provide wonderful park amenities for our city.

[LEARN MORE](#)



## TxDOT V-PIER BRIDGES



Engineering studies showed that building the bridges first, in a dry condition, minimizes traffic impacts and is the most cost effective option. Therefore, USACE required in the Final Environmental Impact Statement that the bridges be built prior to the bypass channel in a baseline condition.

The signature V-Pier bridges that will span the future bypass channel were designed by the City of Fort Worth and were built and managed by TxDOT. The bridges will allow traffic to enter Panther Island from the north and west. The bridges are located at White Settlement Road, Henderson Street and N. Main Street. They have been artfully designed with the pedestrian experience and mass transportation in mind.

[LEARN MORE](#)

## OVERVIEW

When the existing levees were built in the 1950's they severed an existing oxbow on the West Fork of the Trinity River just West of Beach St. in Gateway Park. As part of the flood water storage work in the area, there is also a significant restoration of the Riverside Oxbow Ecosystem. By restoring the original flow of the river in this area major ecosystem improvements will follow. These efforts include the planting of over 60,000 native oak and pecan trees, an aquatic habitat restoration effort and a wetland restoration supporting both aquatic and terrestrial wildlife species.

## ENVIRONMENTAL REMEDIATION

The Riverside Wastewater Treatment Plant in Gateway Park was shut down in the mid-1970s by the Texas Commission on Environmental Quality due to environmental conditions leaving behind its ruins as seen in the photo.

In an effort to not allow any kind of contaminants from the decommissioned plant to reach the Trinity River the City of Fort Worth, in partnership with the Department of Defense, developed a program to clean up the wastewater plant site removing all potential hazardous material to a certified landfill. Upon completion this area will then be able to be fully utilized for creating wetlands, aquatic habitat, improved forested areas and recreational trails.



## RIVERBANK STABILIZATION

To secure, maintain and preserve the only remaining natural section of the Trinity River in Fort Worth the City partnered with Texas Parks and Wildlife to stabilize the existing riverbank along this section of the Lower West Fork. This effort preserved this tranquil location and turned it into a coveted interpretive learning opportunity by adding sensitive public access trails and two beautiful scenic overlooks for viewing this special location.

## WETLAND RESTORATION

The boundaries of the new Gateway Park Plan includes an area that was once used for removal of sand and gravel leaving behind pits from where that material was removed. This area will be restored and turned into a natural functioning wetland that will support both aquatic and terrestrial wildlife species. This wetland will include adjacent forested areas as well.







### PANTHER ISLAND – 2006 VISION

The City of Fort Worth's Comprehensive Plan calls for greater density in districts close to downtown, including Panther Island. The district is impacted by the U.S. Army Corps of Engineers flood control project; however, no federal money is being used to accomplish the City's sustainable growth goals for the district.

[LEARN MORE](#)

### PANTHER ISLAND - VISION 2.0

Panther Island is a once-in-a generation opportunity for Fort Worth to amplify the energy of its urban core. HR&A Advisors was selected to provide key analysis and consulting services to guide project partners in helping Panther Island reach its full economic potential.

[LEARN MORE](#)



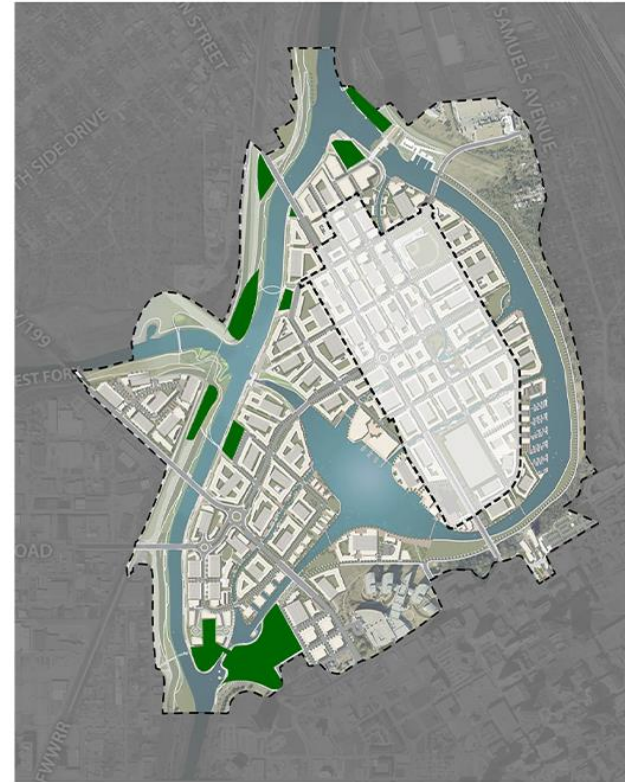
2006 VISION

## Panther Island - 2006 Vision

The City of Fort Worth's Comprehensive Plan calls for sustainable growth in all areas in close proximity to downtown Fort Worth. The district due north of downtown, Panther Island, has been rezoned by the City of Fort Worth to provide a mixed-used district of greater density. The district is impacted by the U.S. Army Corps of Engineers flood control project; however, no federal money is being used to accomplish the City's sustainable growth goals for the district.

Additional development of Panther Island can occur once USACE has completed the bypass channel and associated infrastructure. Upon completion of the flood infrastructure and decommission of the existing levee system it will open additional land for private development. Click below for a general overview of project components.

- MIXED USE DEVELOPMENT
- PARK SYSTEM**
- MODERN ROUNDABOUTS
- RIVERWALK
- FIXED TRANSIT LINE
- TRINITY RIVER PROMENADE
- TOWN LAKE & MARINA
- HOUSEBOAT DISTRICT



PARK SYSTEM



## PANTHER ISLAND - VISION 2.0



Since the Trinity Uptown Plan (now Panther Island) was adopted by the City of Fort Worth in 2004, the development and community landscape has changed, with Fort Worth's population and economy booming. Seeing this as an opportunity, an unprecedented partnership of public and nonprofit entities have engaged a multidisciplinary consulting team, lead by HR&A, to update the vision and strategy for Panther Island.

Over the course of 2023, the consultant team will reignite a community-led vision for Panther Island and strategy for advancing its redevelopment, equipping local leadership with the tools to advance planning and development based on current community, economic, and market conditions.

### Deliverables:

#### Updated Strategic Vision:

- District Identity
- Design and planning recommendations
  - Open space and public realm approach
  - Land use and density framework
  - Mobility, transportation, and parking considerations



## Deliverables:

PANTHER ISLAND VISION 2.0

### Updated Strategic Vision:

- District Identity
- Design and planning recommendations
  - Open space and public realm approach
  - Land use and density framework
  - Mobility, transportation, and parking considerations

### Real Estate & Economic Development Strategy:

- Economic development positioning
- Public land redevelopment strategy
- Development phasing and catalyst sites
- Case studies

### Implementation Roadmap

- Infrastructure funding and financing opportunities
- Governance and public-private partnerships recommendations
- Action plan, roles, and responsibilities for implementation

### Timeline

- Phase 1: Site Discovery & Opportunity Assessment  
January 2023 – Summer 2023
- Phase 2: Strategic Vision Update & Development Strategy  
Summer 2023 – Fall 2023
- Phase 3: Implementation Toolkit  
Fall 2023 – December 2023

### Public Engagement

- More information on public meeting dates and survey coming soon

### Vision 2.0 Assets

1/11/2023 PRESS RELEASE

PANTHER ISLAND - HR&A PRELIMINARY FINDINGS REPORT

# Staff Update

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## District Awards Update

*Darrel Andrews, Environmental Director*

# CLIDE Special Development Award for TRWD Rainscapes

Aaron Hoff, Sarah Grella, Michelle Wood – Ramirez and Katie Myers





# 14

## Executive Session

# 15

## Consider Approval of Authorization to Acquire Real Property Interests by Purchase for Cedar Creek Pipeline Rehab Project

Steve Christian, *Real Property Director*





# 16

## Future Agenda Items



# 17

## Next Board Meeting

Special Called Meetings: August 31, 2023 at 9:00 AM  
September 13, 2023 at 3:30 PM  
Monthly Meeting: September 19, 2023 at 9:00 AM





# 18

Adjourn