



Regional Service Through Unity... Meeting our Region's Needs Today and Tomorrow

*Bois d'Arc Lake Dam*

# WATER COMMITTEE MEETING

May 26, 2021 (Via Teleconference)



# AGENDA

## ACTION ITEMS

- A. Consider approval of Water Committee meeting minutes – April 21, 2021
- B. Authorize execution of agreement with the City of Leonard, Texas, concerning public safety and emergency management related to the Leonard Water Treatment Plant – Administrative Memorandum No. 5725
- C. Authorize Amendment No. 2 to Construction Manager At-Risk Agreement on Wylie Water Treatment Plant projects – Administrative Memorandum No. 5726

## DISCUSSION ITEMS

- A. Discuss City of Mesquite seeking to provide water to City of Crandall
- B. Discuss status of pending Texas Commission on Environmental Quality water right applications
- C. Discuss Texas Commission on Environmental Quality Proposed Agreed Order Docket No. 2019-1212-MLM-E
- D. Discuss possible amendments to Texas Water Code Standards of Emergency Operations
- E. Opportunity for Committee members to provide feedback on Water Committee meeting
- F. Opportunity for Committee members to request potential future agenda items  
(No substantive discussion of items will take place at this time)



# AGENDA

## Opening Remarks

- A. Chairman/Executive Director/Committee Champion Status Report concerning legislation and regulatory matters, budgets, current projects and ongoing programs of the District including the Regional Water System, Watershed Protection, and Water Conservation



# AGENDA

## Action Items

- A. Consider approval of Water Committee meeting minutes – April 21, 2021**

**Recommend approval of Water Committee meeting minutes**



*R.J. Muraski*

# AGENDA

**We'd like to rearrange the agenda to discuss Item V. A. next.**

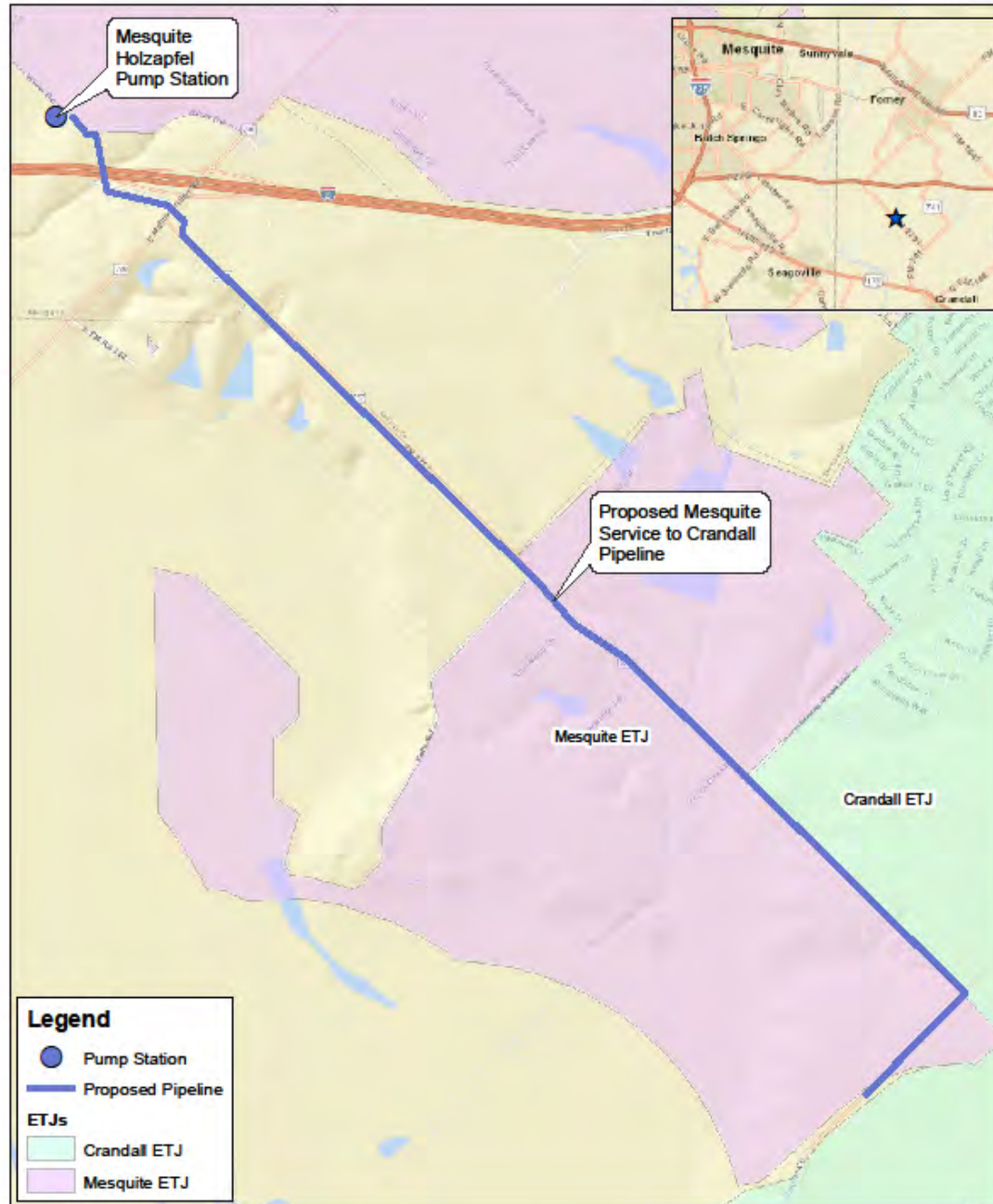
## **Discussion Items**

- A. Discuss City of Mesquite seeking to provide water to City of Crandall**



## BACKGROUND

- City of Crandall, current customer of NTMWD seeking additional water from City of Mesquite
- Both Crandall and Mesquite signed an MOU laying out key points to construct water distribution infrastructure from Mesquite to Crandall
- Mesquite understands Board approval required to finalize wholesale customer contract with Crandall
- Temporary basis until Crandall builds new delivery point
- Future agenda item for city councils
- No capacity limitation on NTMWD or Mesquite's system for this potential action
- Anticipate request of NTMWD Board to review and approve wholesale contract



Mesquite Proposed Service to Crandall





Billy George

# AGENDA

## Action Items

### **B. Authorize execution of agreement with the City of Leonard, Texas, concerning public safety and emergency management related to the Leonard Water Treatment Plant – Administrative Memorandum No. 5725**

- Consider recommendation on authorizing execution of agreement with the City of Leonard, Texas, concerning public safety and emergency management related to the Leonard Water Treatment Plant with an initial five-year term with one additional five-year extension at a cost of \$30,000 per year

*What: Authorize the execution of an agreement between the NTMWD and the City of Leonard, Texas, related to temporary financial assistance for public safety and emergency management associated with the Leonard Water Treatment Plant.*

*Why: Provide temporary financial assistance to the City of Leonard for public safety and emergency management efforts related to Leonard Water Treatment Plant.*



## PUBLIC SAFETY SUPPORT DISCUSSION: CITY OF LEONARD





## PUBLIC SAFETY SUPPORT DISCUSSION: CITY OF LEONARD

- 2015: Staff began coordinating with the City of Leonard on utility services, public safety response and emergency response capabilities for the Leonard WTP
  - One full time police officer (*currently five*)
  - Volunteer fire department with no local ambulance capability (*currently have full time ambulance service in city*)
  - Possible response needs at Leonard WTP
- 2015+: Ongoing coordinating for WTP development
- 2020: In Feb, staff met with Leonard representatives to discuss possible NTMWD partnership to improve public safety responsiveness to the WTP



## PUBLIC SAFETY SUPPORT DISCUSSION: CITY OF LEONARD

- 10/2020: Possible partnership discussions were refined:
  - Continuous ambulance service is being housed in the City of Leonard
  - Leonard is establishing a public safety facility
  - Possible hazard-specific training opportunities for Leonard public safety program
  - Possible funding at the \$30,000/yr for some term
- 11/2020: Discussed possible public safety agreement with Water Committee
- 4/2021: The City of Leonard City Council discussed a possible public safety agreement



## PUBLIC SAFETY SUPPORT DISCUSSION: CITY OF LEONARD

- An agreement has been drafted by legal counsel and major items include:
  - Recognition that hazards present at the NTMWD Leonard WTP are unique near the City of Leonard
  - Temporary financial participation to the City of Leonard for the increased public safety and emergency response burdens for the City: \$30,000 per year
  - City of Leonard agree to exercise police powers and volunteer fire department support in connection with the Leonard WTP
  - City agrees to use funding within the scope of the purpose of NTMWD's payment
  - No additional funding shall be provided to support the City's public safety programming



## RECOMMENDATION

**The Executive Director, NTMWD staff and Lloyd Gosselink Rochelle & Townsend, P.C., recommend the Board of Directors authorize the execution of an agreement as follows:**

**Contracting Party: City of Leonard, Texas**

**Scope:** Agreement between the North Texas Municipal Water District and the City of Leonard, Texas concerning public safety and emergency management related to the Leonard Water Treatment Plant

**Project:** No. 101-0154-09, Leonard Water Treatment Plant

**Contract Term:** Initial five (5) year term with one additional five (5) year extension

**Amount:** \$30,000 per year



# AGENDA

## Action Items

### **C. Authorize Amendment No. 2 to Construction Manager At-Risk Agreement on Wylie Water Treatment Plant projects – Administrative Memorandum No. 5726**

- Consider recommendation on authorizing Amendment No. 2 to the Construction Manager At-Risk Agreement (CMAR) with Montgomery Watson Harza Constructors for additional CMAR pre-construction and procurement services in an amount of \$167,920 on Project No. 101-0390-15, Wylie WTP Biologically Active Filtration, No. 101-0496-18, Wylie WTP Ammonia System Improvements, and No. 101-0517-18, Wylie WTP II Structural and Mechanical Improvements

*What: Authorize funding for Amendment No. 2 to the Construction Manager At-Risk agreement for Wylie Water Treatment Plant Biologically Active Filtration project, WTP II Structural and Mechanical Improvements project, and the Ammonia System Improvements project, to include services to investigate the underdrains at Wylie WTP's I through IV.*

*Why: Filter media stratification surveys at points throughout the Wylie complex indicate that the gravel layers above the filter underdrain blocks are out of prescribed gradation and surface variance tolerances in many locations. This supporting gravel layer is engineered as a barrier against the migration of finer sand and anthracite into the underdrain system, resulting in improper/incomplete backwashing if too much sand accumulates. The noted condition of the gravel layer presents a strong possibility that sand has migrated into the underdrain system.*



## ADDITIONAL PRE-CONSTRUCTION SERVICES

- Surface investigation suggests high potential of gravel support layer being compromised
- Migrated media may become packed in underdrain system
- Packed media blinds the system and reduces the net available filter area
- Underdrains are not accessible from above without total removal and restoration of media
- CMAR Preconstruction support to access and investigate filter underdrain system
- Twelve areas throughout the four Wylie plants are identified
  - Steel pipe cutting and coupon replacement
  - Access through existing manway
  - Disconnect large fittings
- Man entry for video documentation, mainly of filter media accumulation



## ADDITIONAL PRE-CONSTRUCTION SERVICES





## ADDITIONAL PRE-CONSTRUCTION SERVICES





## RECOMMENDATION

**The Executive Director and NTMWD staff recommend the Board of Directors authorize Amendment No. 2 to the CMAR agreement as follows:**

**Contractor: Montgomery Watson Harza Constructors**

**Scope: Additional CMAR Pre-Construction and Procurement Services**

**Project: No. 101-0390-15, Wylie WTP Biologically Active Filtration, No. 101-0496-18, Wylie WTP Ammonia System Improvements, and No. 101-0517-18, Wylie WTP II Structural and Mechanical Improvements**

**Amount: \$167,920**



*R.J. Muraski*

# AGENDA

## Discussion Items

- A. Discuss City of Mesquite seeking to provide water to City of Crandall**

**Discussed earlier in the meeting.**



# AGENDA

## Discussion Items

**B. Discuss status of pending Texas Commission on Environmental Quality water right applications**



## TCEQ WATER RIGHT APPLICATIONS

### Application to Amend Lavon Lake water right (Amendment K)

- Filed Application on July 21, 2016
- ***Application seeks an amendment to overdraft Lavon Lake an additional 264,543 acre-feet of water per year when the elevation of Lavon Lake is at or above 492 feet msl in lieu of conveying its authorized return flows, SRA contract water, or TRA contract water to Lavon Lake***
- TCEQ deemed Application administratively complete on March 23, 2017
- TCEQ completed technical review of Application and provided Draft Permit for review on January 26, 2021
- Final Draft Permit has been shared with other entities in the Trinity River Basin
- **TCEQ expected to issue notice of the Application soon**



## TCEQ WATER RIGHT APPLICATIONS

### Application for Temporary Water Right to Overdraft Lavon Lake

- Application filed on June 16, 2020
- ***Application seeks to divert and use not to exceed 139,040 acre-feet of water within a period of three years from Lavon Lake for municipal purposes***
- Temporary Water Use Permit No. 13733 will replace existing Temporary Water Use Permit No. 13336 that expires on July 3, 2021
- TCEQ deemed administratively complete on July 30, 2020
- TCEQ completed technical review and prepared a Draft Permit on December 3, 2020
- Final Draft Permit shared with other entities in the Trinity River Basin
- TCEQ issued notice of Application on December 21, 2020
- Dallas filed protest of Draft Permit on January 8, 2021
- NTMWD settled protest with Dallas and Dallas withdrew its protest on May 3, 2021
- **Final Permit granted on May 13, 2021**



# AGENDA

## Discussion Items

- C. Discuss Texas Commission on Environmental Quality  
Proposed Agreed Order Docket No. 2019-1212-MLM-E**



## TCEQ PROPOSED AGREED ORDER DOCKET NO. 2019-1212-MLM-E

### Overview

- A TCEQ Agreed Order constitutes an enforcement action for violations of the Texas Water Code and Commission Rules
- Docket No. 2019-1212-MLM-E:
  - Under review by NTMWD Legal and Staff
  - Combines multiple violations from both Water and Wastewater infrastructure
  - **Water violation related to 8/30/2018 North Garland System 72” main break. 22.3 million gallons released & 490 fish killed**
  - Wastewater violations from unauthorized discharges at Wilson Creek WWTP, Rowlett Creek WWTP & Floyd Branch WWTP
  - Total Administrative Penalty = \$138,225 (Water System related = \$11,175)



## RELEASE OF WATER FROM 72-INCH WATER MAIN

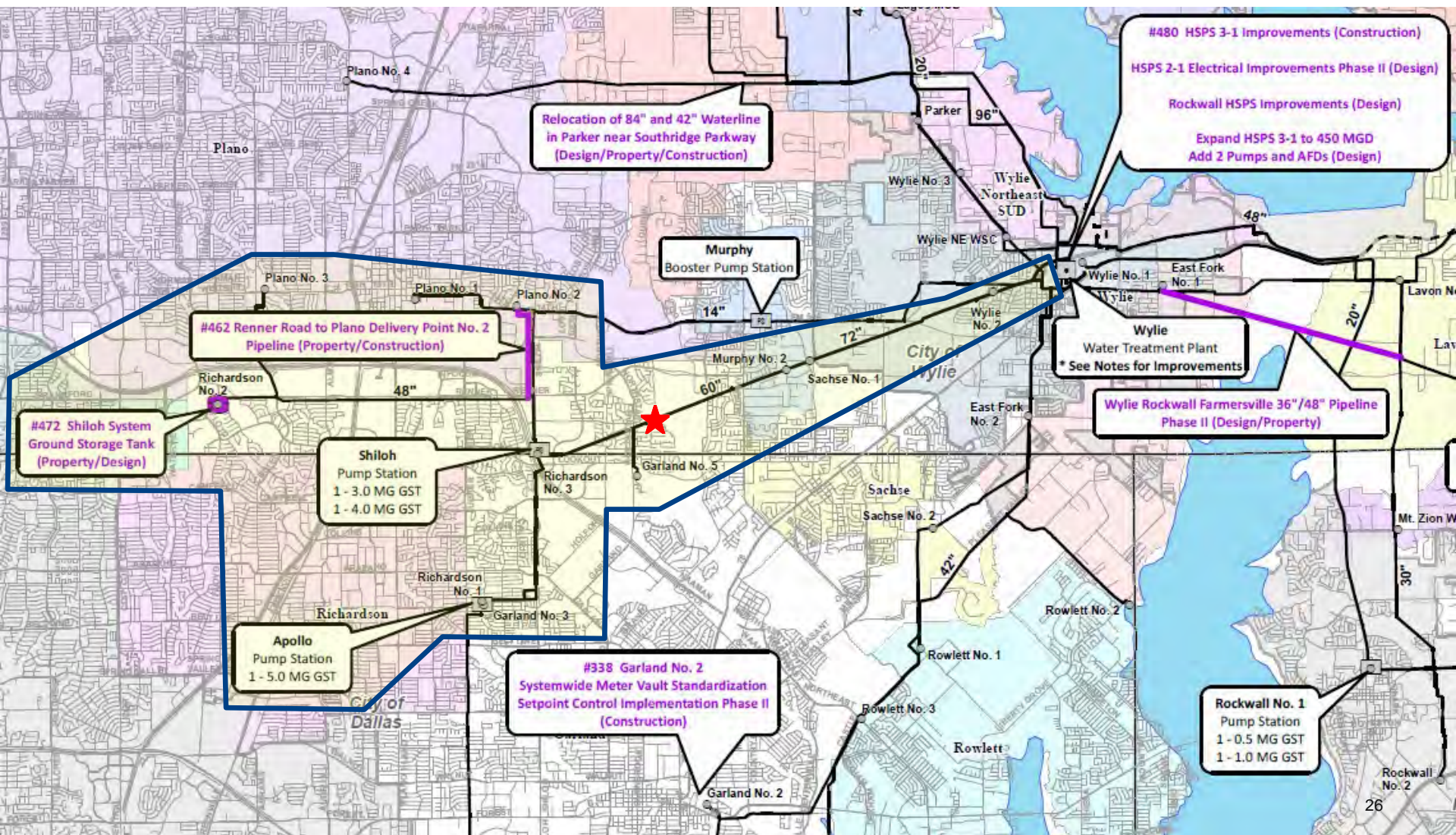
### Event Overview

- A 72" North Garland System pipeline failed on August 30, 2018
- Multiple structures damaged on Crystal Mountain Dr. in Richardson
- Service was restored and forensic evaluations commenced
- Repairs made after pipeline inspection:
  - Once segment replaced
  - Five carbon fiber reinforcement
  - Leak repair
  - Air release valves replaced





# RELEASE OF WATER FROM 72-INCH WATER MAIN





## RELEASE OF WATER FROM 72-INCH WATER MAIN

### Environmental Impact of Release

- **490** dead fish due to chlorinated water

Date	Collected	Species
Friday, 8/31	322	Various
Saturday, 9/1	153	Various
Sunday, 9/2	15	Various
Monday, 9/3	0	
Tuesday, 9/4	0	

- Species include Bass, Carp, Catfish, Shad & Sunfish
- Fish collected were disposed of at 121 RDF
- No other impacts observed (Turtles, Birds, etc.)
- Environmental impact reported to TCEQ



## TCEQ PROPOSED AGREED ORDER DOCKET NO. 2019-1212-MLM-E

### Path Forward

- Evaluating Supplemental Environmental Project (SEP): Possible polymer optimization at Floyd Branch WWTP
- Considering partial assessment of penalty to Contractors responsible for the UD's
- Attorneys negotiating Agreed Order language with TCEQ
- Future Board approval of Agreed Order



# AGENDA

## Discussion Items

- D. Discuss possible amendments to Texas Water Code Standards of Emergency Operations**



## LEGISLATIVE UPDATE

- **SB 3 is the Senate-passed omnibus electric reliability package in response to Winter Storm Uri. House has passed five separate bills addressing the storm and is working to combine all of the bills into a consensus package.**
- **Original version of SB 3 included requirements for water utilities to submit emergency preparedness plans to TCEQ that would have required the complete backup of our water system on generation power.**
- **Water community responded supporting the legislative intent but seeking changes that made the provisions more practical to implement and less financially burdensome while still providing improved liability.**
- **NTMWD joined a coalition organized by TWCA to propose an amendment to the water sections of the bill.**
- **The House committee has accepted that amendment and it is much improved and gives us several options for ensuring reliability while not forcing the actual installation of generators.**



# AGENDA

## Discussion Items

- E. Opportunity for Committee members to provide feedback on Water Committee meeting**



# AGENDA

## Discussion Items

- F. Opportunity for Committee members to request potential future agenda items  
(No substantive discussion of items will take place at this time)**

## Adjournment