



*John Bunker Sands Wetland Center*

# NTMWD BOARD MEETING

**December 15, 2022**



## **The Pledge of Allegiance to the Flag of the United States of America**

"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."



## **The Pledge of Allegiance to the Texas State Flag**

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



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## GFOA - CERTIFICATE OF ACHIEVEMENT FOR EXCELLENCE IN FINANCIAL REPORTING PROGRAM

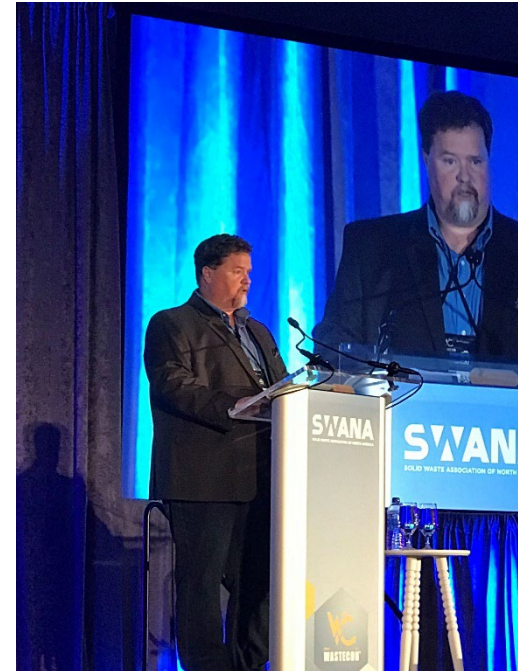




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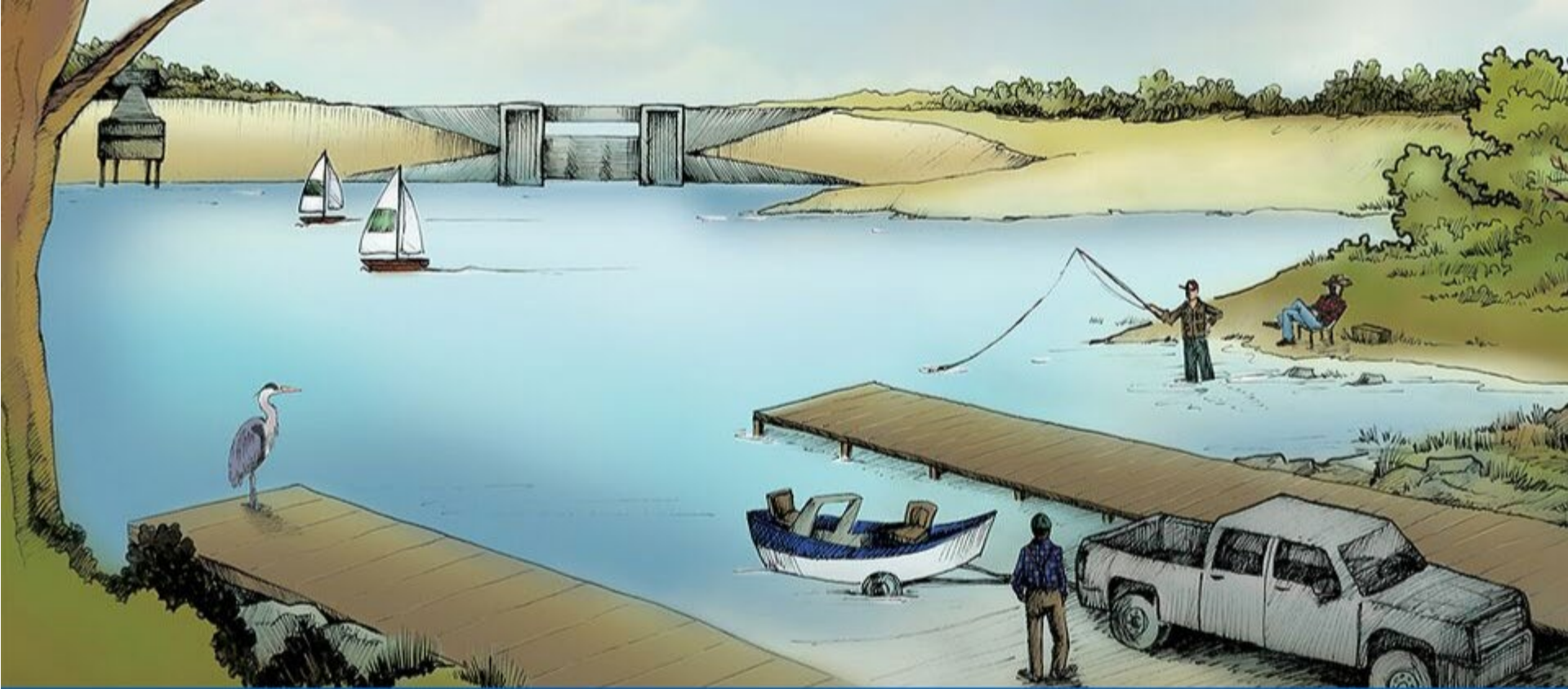
# SOLID WASTE ASSOCIATION OF NORTH AMERICA







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# Bois d'Arc Lake



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**Board Update**  
**December 15, 2022**



BOIS  
D'ARC  
LAKE



## BOIS D'ARC LAKE UPDATE

### Agenda

- **CMAR 1 - Bois d'Arc Lake Dam & Bonham Dam**
- **Full Service Provider**
  - Mitigation Property Insurance
  - CWA 404 Permit Compliance Report
- **CMAR 5 - Treated Water Pipeline**
- **CMAR 3 – Pump Stations & Leonard Plant**





## BOIS D'ARC LAKE UPDATE

### CMAR 1 – Dam and Intake Structure

- **BDL Dam**
  - Improved vegetation
  - Energized power supply
- **Lake Bonham Dam**
  - Improved vegetation
- **Lake Elevation – 518.30 – 46% full (December 9th)**
- **Final Completion:**
  - Completing punch list items
  - Fine grading emergency spillway
  - Vegetation growth – 80% coverage



## BOIS D'ARC LAKE UPDATE

### Dam - Improved Vegetation







# BOIS D'ARC LAKE UPDATE

## Lake Bonham Dam







## BOIS D'ARC LAKE UPDATE

### Mitigation Property

- **Builder's risk Insurance**
  - Builder's Risk insurance no longer available after construction
  - RES offered to substitute property insurance
  - Property insurance for plantings not readily available
  - Engaged NTMWD's insurance carrier & Mark Walsh
- **Applications for Growing Season Payments/Payment and Performance Bonds**
  - Transition to Lake Operations October 2022
  - RES can request Growing Season payments only in December of each year
  - Payment and performance bonds renewed each year



## BOIS D'ARC LAKE UPDATE

### CWA 404 Permit Compliance (continues for 20 years)

- **Mitigation Reports submitted annually on December 1<sup>st</sup>**
  - **Transition to Lake Operations**
  - Project Completion – February 2023
  - Mitigation Monitoring Report from RES – submitted December 1, 2022
  - Permit Special Condition Compliance – 13 special conditions
    - 7 complete; 6 in progress (including Cultural Resources)
- **Cultural Resources**
  - **Transition to NTMWD's Permitting Department**
  - Five Texas Antiquities Permits (TAP) Open
  - All chapters of all reports reviewed and approved by THC & USACE
  - Curate hundreds of thousands of artifacts and support documents
  - Close last TAP before 1/22/2029
  - Re-inter Ancestral Caddo Remains - 2028

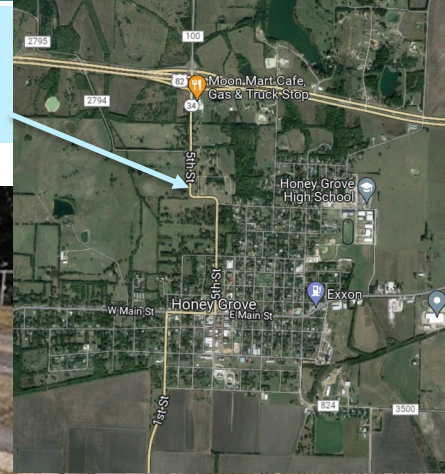




## BOIS D'ARC LAKE UPDATE

### Oakwood Cemetery – Re-interment of Wilks, Bonham & Morgan Cemeteries

Oakwood  
Cemetery

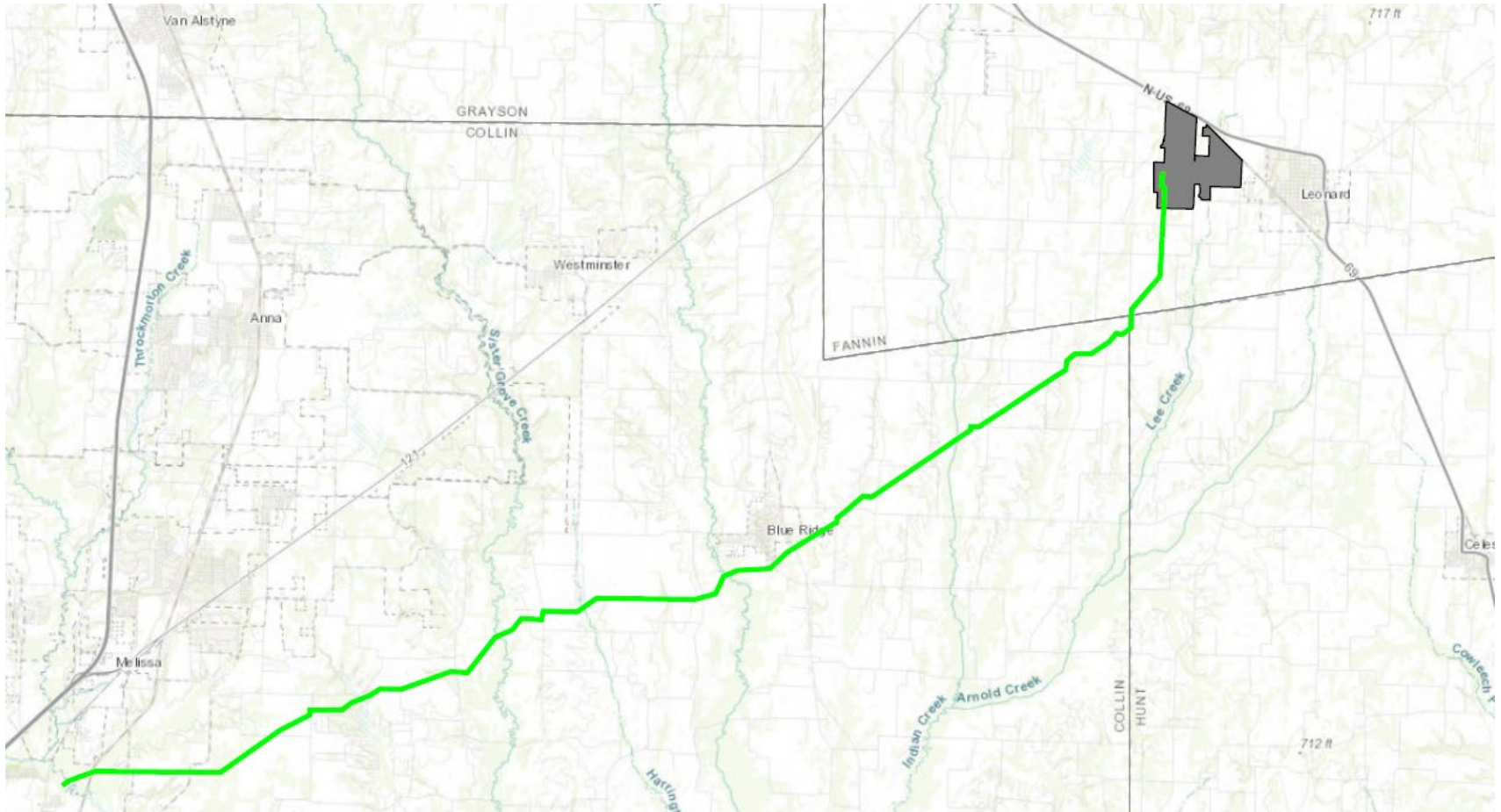






## BOIS D'ARC LAKE UPDATE

**Treated Water Pipeline Progress – 100% Installed. Hydrostatic testing Segment D completed 12/2/2022 – Discovered leaks on Segment E**





## BOIS D'ARC LAKE UPDATE

### Pipeline filling







## BOIS D'ARC LAKE UPDATE

### Bypass Pipe & Flowmeter







## BOIS D'ARC LAKE UPDATE

### Section “E” Leak at Butterfly Valve





## BOIS D'ARC LAKE UPDATE

### Treated Water Pipeline Disinfection

- TCEQ References AWWA Standard C-651
  - Considerations for pipeline chlorination
    - Volume of chlorinated water needing dechlorination
      - **Chlorinated water may not be discharged to the environment w/out dechlorination**
    - Flushing velocity – 3 feet/second (75 million gallons/day flowrate in 84-in diameter pipe)
    - Three times the pipe volume before sampling (108 million gallons)
  - Optimize timing between pipeline disinfection and TCEQ approval of Leonard WTP





## BOIS D'ARC LAKE UPDATE

### Startup and Testing

- **Raw Water Pump Station**
  - Successfully completed Uncoupled and Coupled testing
  - Working on resolving issues encountered during testing procedure
  - Readiness to Operate in full







## BOIS D'ARC LAKE UPDATE

### Startup and Testing

- **High Service Pump Station**
  - Uncoupled testing on-going
  - Preparing temporary piping to start Coupled testing of the pumps – January





## BOIS D'ARC LAKE UPDATE

# Leonard Water Treatment Plant and Pump Stations Control Room in Full Operation







## BOIS D'ARC LAKE UPDATE

### Regulatory Update

**NTMWD prepared and submitted plan to TCEQ for regulatory compliance steps for the complete new system:**

- ✓ Received new PWS number
- ✓ BDL is approved and registered as a new potable water source in the State
- ✓ CT Study for disinfection process is approved

**CMAR, Engineer and NTMWD collected data and assembled STEP - 2 Submittal after Leonard WTP 100-hr run:**

- ✓ Water Quality samples, and Laboratory reports
- ✓ Operators Certifications and training on all chemical facilities and handling
- ✓ Risk Management Plan and Process Hazard Analysis submitted to EPA





## Executive Session





## EXECUTIVE SESSION

### Section 551.071, Consultation with Attorney

- Authorizes a government body to consult with its attorney in an Executive Session to seek advice on legal matters regarding pending or contemplated litigation or a settlement offer.
- A government body may not invoke this Section to convene a closed session and then discuss matters outside of that provision.
- General discussion of policy, unrelated to legal matters, is not permitted under the language merely because an attorney is present.
- Items discussed during consultation with the District's attorney are privileged and should remain confidential

### Section 551.072, Deliberations about Real Property

- Authorizes a government body to deliberate in Executive Session on certain matters concerning real property.
- It provides as follows:
  - *A governmental body may conduct a closed meeting to deliberate the purchase, exchange, lease, or value of real property if deliberation in an open meeting would have a detrimental effect on the position of the governmental body in negotiations with a third person.*
- Items discussed during Executive Session are privileged and should remain confidential.



## Adjourn Executive Session





## ADMINISTRATIVE MEMORANDUM NO. 5879

### XII. AGENDA ITEMS FOR INDIVIDUAL CONSIDERATION

#### WATER AGENDA ITEMS

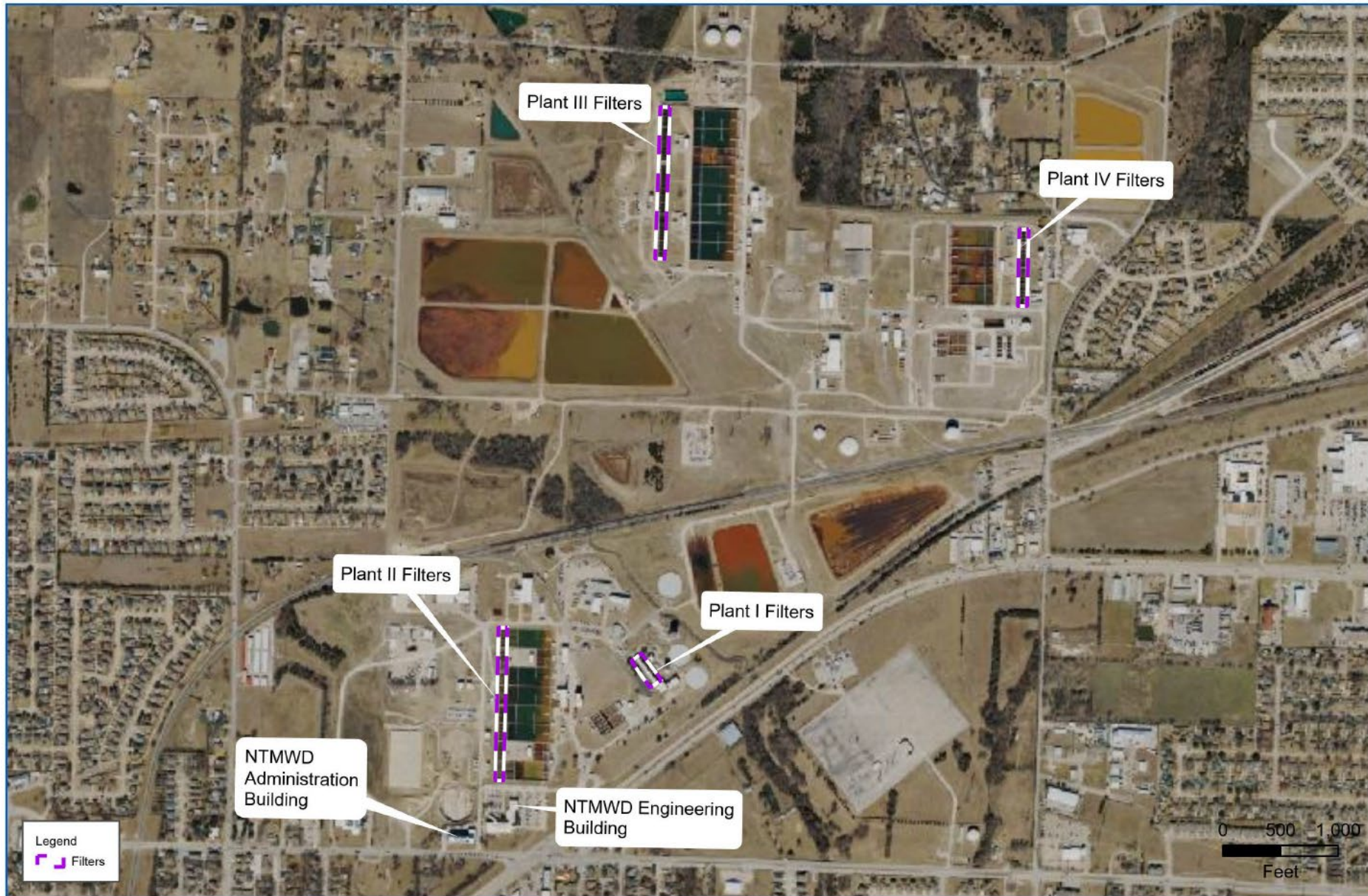
- A. **Authorize a budget amendment for the Plano Water Transmission Facilities System project – Administrative Memorandum No. 5879**
- Consider authorizing a budget amendment in the amount of \$200,000 for the replacement of a 36-inch valve within the Plano Water Transmission Facilities System





## ADMINISTRATIVE MEMORANDUM NO. 5880

- B. **Authorize execution of an engineering services agreement (ESA) for the Wylie Water Treatment Plants (WTP) I, II, III, and IV Filter Media Improvements project – Administrative Memorandum No. 5880**
- Consider authorizing the Executive Director to execute an ESA with Carollo Engineers, Inc., in the amount of \$1,769,387 to conduct a preliminary engineering study, including field pilot testing for Project No. 101-0615-22, Wylie Water Treatment Plants I, II, III, and IV Filter Media Improvements



**Wylie Water Treatment Plants I, II, III and IV Filter Media Improvements**  
**Project No. 101-0615-22**  
**Administrative Memorandum No. 5880**

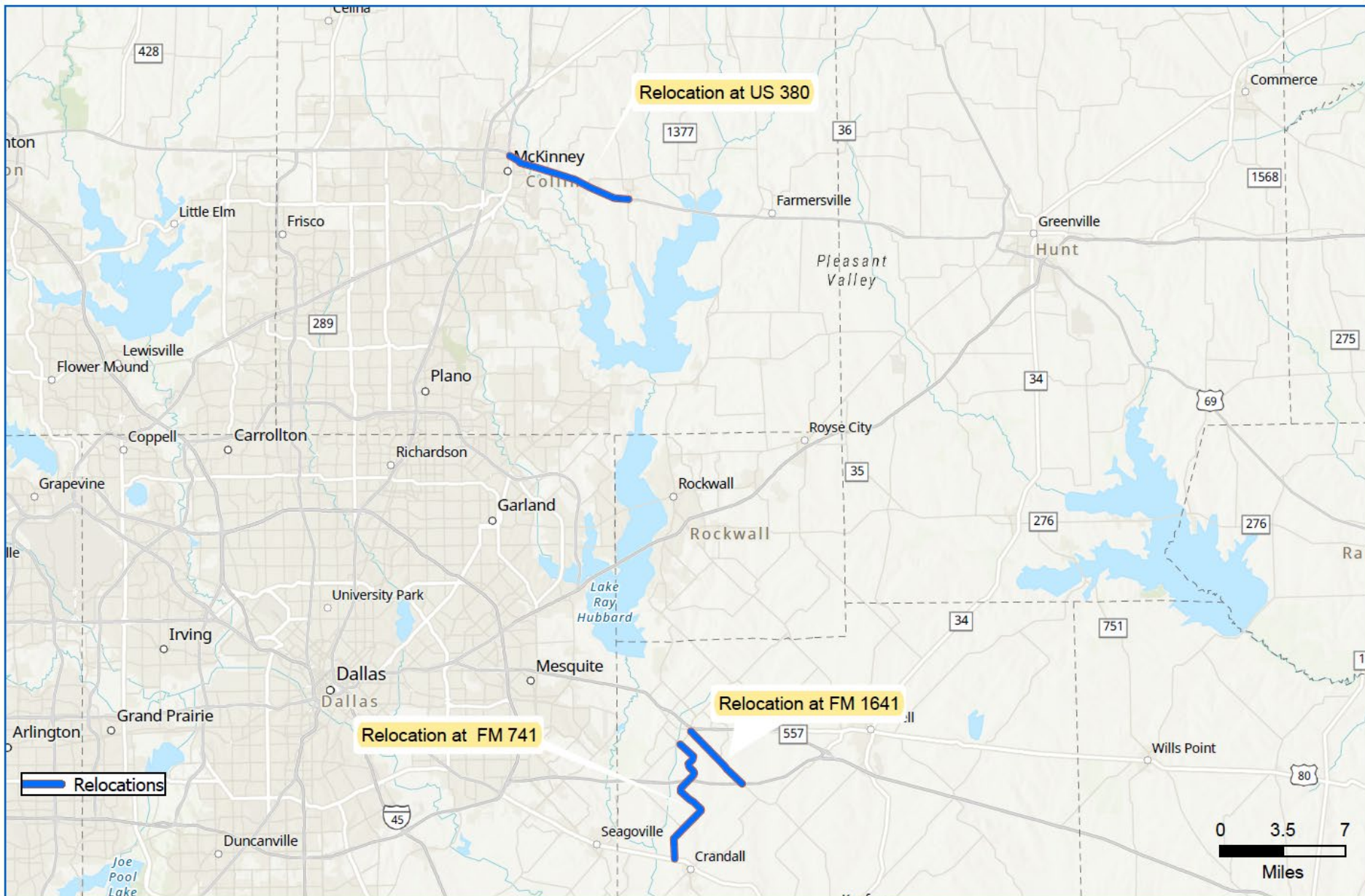






## ADMINISTRATIVE MEMORANDUM NO. 5881

- C. **Authorize execution of an engineering services agreement (ESA) for the pipeline relocations associated with the Texas Department of Transportation's (TxDOT's) expansions for US Highway 380, FM 1641 and FM 741 - Administrative Memorandum No. 5881**
- Consider authorizing the Executive Director to execute an ESA with Halff Associates, Inc., in the amount of \$3,910,000, for final engineering design for Project No. 101-0619-22, Pipeline Relocations at US 380, FM 1641 and FM 741



## Pipeline Relocations at U.S. 380, FM 741 and FM 1641

Project No. 101-0619-22

Administrative Memorandum No. 5881





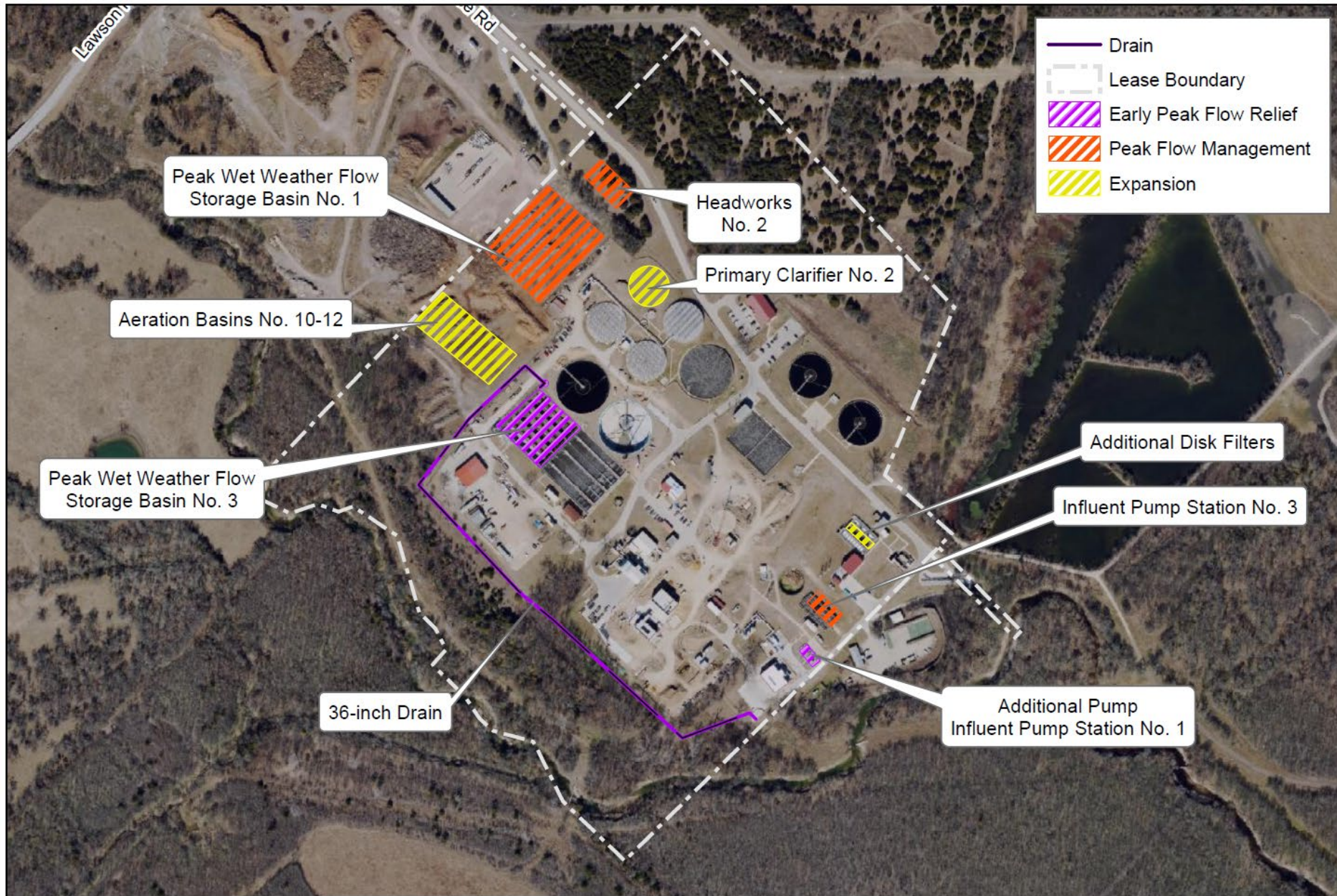


## ADMINISTRATIVE MEMORANDUM NO. 5882

### WASTEWATER AGENDA ITEMS

- D. **Authorize Amendment No. 2 to the Construction Manager At-Risk (CMAR) agreement for the South Mesquite Creek Regional Wastewater Treatment Plant (RWWTP) Peak Flow Management and Expansion project - Administrative Memorandum No. 5882**
- Consider authorizing the Executive Director to execute the second amendment to the CMAR agreement with Archer Western Construction, LLC in the amount of \$8,556,427.36 for partial Guaranteed Maximum Price No. 2 for construction of work packages including early peak relief construction for Project No. 301-0525-18, South Mesquite Creek Regional Wastewater Treatment Plant Peak Flow Management and Expansion





South Mesquite Creek RWWTP Peak Flow Management and Expansion  
 Project No. 301-0525-20  
 Administrative Memorandum No. 5882







## ADMINISTRATIVE MEMORANDUM NO. 5883

- E. **Adoption of Resolution No. 22-52 authorizing the execution of an Interlocal Agreement (ILA) between NTMWD and the City of Lucas - Administrative Memorandum No. 5883**
- Consider adoption of Resolution No. 22-52 authorizing an ILA with the City of Lucas to facilitate construction of a truck wash station at the Wilson Creek Regional Wastewater Treatment Plant



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## CLOSING ITEMS AND ADJOURNMENT

### **XIII. CLOSING ITEMS**

- A. Opportunity for Board members to provide feedback or request potential future agenda items.

### **XIV. ADJOURNMENT**



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***Happy Holidays!***