

This Agenda is posted pursuant to Chapter 551, Texas Government Code

**Matters to Come Before a Meeting of the Board of Directors
of Tarrant Regional Water District**

To Be Held the 15th Day of November 2022 at 9:00 a.m.

**Front Doors to the Main Admin Building at 800 East Northside Drive Will Open to
the Public at 8:30am and Close Fifteen (15) Minutes After the Meeting Adjourns**

**TRWD Board Room
800 East Northside Drive
Fort Worth, Texas 76102**

**PLEASE BE ADVISED THAT A QUORUM OF THE BOARD OF DIRECTORS OF TRWD
WILL CONVENE ON THE ABOVE DATE AND TIME FOR THE PURPOSE OF
CONSIDERING AND ACTING UPON THE MATTERS SET FORTH IN THIS AGENDA.
THE LINK TO VIEW AND LISTEN TO THE MEETING VIA INTERNET IS
<HTTPS://WWW.TRWD.COM/BOARDVIDEOS>. A RECORDING OF THE MEETING
WILL ALSO BE AVAILABLE AT <HTTPS://WWW.TRWD.COM/BOARDVIDEOS>.**

- 1. Pledges of Allegiance**
- 2. Public Comment**

Citizens may present public comment at this time, limited to a total time of three (3) minutes per speaker, unless the speaker addresses the Board through a translator, in which case the limit is a total time of six (6) minutes. If citizens wish to address the Board in person, each proposed speaker must have completed and submitted a speaker card prior to the commencement of the meeting, identifying any agenda item number(s) and topic(s) the speaker wishes to address with the Board. If citizens wish to address the Board virtually, each proposed speaker must have contacted Mr. Chad Lorange of TRWD - by telephone at (817) 720-4367 or by email at chad.lorange@trwd.com - by no later than 3:00 p.m. on Monday, November 14, 2022, identifying any agenda item number(s) and topic(s) the speaker wishes to address with the Board. In such event, the speaker will be provided with a dial-in number to address the Board. By law, the Board may not deliberate, debate, or take action on public comment but may place the item on a future agenda.

- 3. Consider Approval of the Minutes from the Meeting Held on October 18, 2022**
- 4. Executive Session under Texas Government Code:**

Section 551.071 of the Texas Government Code to Consult with Legal Counsel on a Matter in Which the Duty of Counsel Under the Texas

Disciplinary Rules of Professional Conduct Clearly Conflicts with Chapter 551, Texas Government Code;

Section 551.072 of the Texas Government Code to Deliberate the Purchase, Exchange, Lease or Value of Real Property; and

Section 551.074 of the Texas Government Code Regarding Personnel Matters and General Manager Annual Evaluation

- 5. Discuss and Consider Approval of General Manager Compensation Package for Remainder of 2022 and 2023 - Kathryn Long, Partner, Thompson & Horton, LLC**
- 6. Consider Approval of Consent Agenda**

All items listed on the consent agenda are considered to be regular, routine, and ministerial items that require little or no discussion. Therefore, in the interest of efficiency there will be no separate discussion of these items and the board will act on them through one motion and vote. If a board member wishes for an item to be discussed and considered individually, upon the board member's request the item will be removed from the consent agenda and considered separately.
- 7. Consider Approval of Contract with Pipeline Inspection and Condition Analysis Corporation for Condition Assessment of 72-inch Cedar Creek Pipe - Jason Gehrig, Infrastructure Engineering Director**
- 8. Consider Approval of Contract Amendment with CDM Smith for Joint Booster Pump Station Number 3 Record Drawings Preparation for the Integrated Pipeline Project - Ed Weaver, IPL Program Manager**
- 9. Consider Approval of Settlement of Claims in the Integrated Pipeline Project - Bancroft (865, 920) Lawsuit - Steve Christian, Real Property Director**
- 10. Staff Updates**
 - Conservation Programs Update - Linda Christie, Government Affairs Director**
 - MWBE Vendor Participation Update - Crystal Alba, Diverse Business Specialist**
 - Water Resources Update - Rachel Ickert, Chief Water Resources Officer**
- 11. Future Agenda Items**
- 12. Schedule Next Board Meeting**
- 13. Adjourn**

MINUTES OF A MEETING OF THE BOARD OF DIRECTORS OF
TARRANT REGIONAL WATER DISTRICT
HELD ON THE 18th DAY OF OCTOBER 2022 AT 9:00 A.M.

The call of the roll disclosed the presence of the Directors as follows:

Present
Leah King
James Hill
Marty Leonard
Mary Kelleher

Absent
Jim Lane

Also present were Dan Buhman, Alan Thomas, Darrell Beason, Frank Beaty, Lisa Cabrera, Ellie Garcia, Jason Gehrig, Natasha Hill, Zachary Huff, Rachel Ickert, Sandy Newby, Rick Odom, and Stephen Tatum of the Tarrant Regional Water District (District or TRWD).

Vice President Hill convened the meeting with assurance from management that all requirements of the Texas Open Meetings Act had been met. President Leah King joined the meeting at 9:05 a.m.

1.

All present were given the opportunity to join in reciting the Pledges of Allegiance to the U.S. and Texas flags.

2.

Public comment was received from Lon Burnam, who spoke regarding public comment. Public comment was received from Jackee Cox who spoke regarding items 6 and 7.

3.

On a motion made by Director Hill and seconded by Director Kelleher, the Directors voted to approve the minutes from the Board meetings held on September 19, 2022 and September 20, 2022. It was accordingly ordered that these minutes be placed in the permanent files of the District.

4.

With the recommendation of management, Director Hill moved to approve the consent agenda which includes IPL expenditures, technology expenditures, and operations and maintenance expenditures. Consent agenda items are detailed in the attached spreadsheet. Funding for these items is included in the Fiscal Years 2023 General and Revenue Funds and Dallas Bond Fund. Director Leonard seconded the motion and the vote in favor was unanimous.

**Tarrant Regional Water District
 October 18, 2022 Board of Directors Meeting
 Consent Agenda**

IPL EXPENDITURES

	Project	Vendor	Amount	Purpose	Budget
1	Global Positioning System (GPS) Instruments for IPL Phase 3 Surveying	Allterra	\$104,473.33	Replaces the existing GPS instruments that have been in service since 2013-2014. These instruments are used to collect positional data on newly constructed pipelines and facilities to provide accurate as built records.	Dallas Bond Fund
			Total		
			<u>\$104,473.33</u>		

TECHNOLOGY EXPENDITURES

	Project	Vendor	Amount	Purpose	Budget
2	Purchase 260 laptops and 260 docking stations	Dell Technologies	\$362,400	Laptop replacement schedules were delayed by multi-year supply chain issues. Over 50% of our laptop equipment is currently operating beyond asset lifecycle and out of warranty, increasing to over 80% by the end of FY2023. This necessary catch-up refresh moves TRWD to a more secure and supportable computer standard that includes new features to improve the TRWD distributed work environment.	General \$400,000
			Total		Total
			<u>\$362,400</u>		<u>\$400,000</u>

OPERATIONS AND MAINTENANCE EXPENDITURES

	Project	Vendor	Amount	Purpose	Budget
3	Upgrade of Pump/Motor Vibration Monitoring Equipment at Rolling Hills Booster Pump Station	Emerson Automation Solutions	\$90,548	All of TRWD's pump stations have on-line vibration monitoring units since 2001, which provide vital data on motor and pump bearings to help identify necessary preventative maintenance prior to costly failures from occurring. The 4500 units originally installed are no longer being manufactured and supported with replacement parts. TRWD has been upgrading these units to Emerson's 6500 units over several years.	Revenue \$145,000
4	ITB 23-00 Removal and Replacement of Fuel Dispensers and Card Readers Systems at Ft. Worth Operations	Stovall Commercial Contractors	\$49,670.50	Replace obsolete unleaded, diesel dispensers and fuel card reader.	General 35,000

OPERATIONS AND MAINTENANCE EXPENDITURES

	Project	Vendor	Amount	Purpose	Budget
5	ITB 23-000 Removal and Replacement of Card Reader System at Bridgeport Lake	Stovall Commercial Contractors	\$27,275.10	Replace obsolete fuel card reader.	Revenue 17,000
6	ITB 23-000 Removal and Replacement of Fuel Dispensers and Card Reader System at Cedar Creek Lake	Stovall Commercial Contractors	\$49,767.70	Replace obsolete unleaded, diesel dispensers and fuel card reader.	Revenue 32,000
7	ITB 23-000 Removal and Replacement of Diesel Fuel Dispenser and Card Reader System at Eagle Mountain Lake	Stovall Commercial Contractors	\$40,174.60	Replace obsolete diesel dispenser and fuel card reader.	Revenue 24,500
8	RFP 22-178 Furnish 42" & 48" Suction/Discharge Valves at RC3L	Crispin	\$375,000	Asset management driven based on condition assessment and age to replace (3) 48" valves and (3) 42" valves.	Revenue 175,000
		Total	<u><u>\$632,435.90</u></u>		Total <u><u>\$428,500</u></u>

5.

With the recommendation of management, Director Hill moved to approve a contract with QBE for stop loss coverage at the following rates per employee/per month: employee only rate of \$130.55; employee plus family rate of \$374.91. Funding for this item is included in the Fiscal Years 2023 General and Revenue Funds. Director Kelleher seconded the motion and the vote in favor was unanimous.

6.

With the recommendation of management, Director Hill moved to approve resolution authorizing the issuance of Tarrant Regional Water District, a water control and improvement district, unlimited tax refunding bonds; levying an ad valorem tax in support of the bonds; establishing the procedures of selling and delivering the bonds; and authorizing other matters related to the issuance of the bond. Sandy Newby, Chief Financial Officer, will provide additional information to the Directors on the accounting treatment of the bonds at a future date. Director Leonard seconded the motion and the vote in favor was unanimous.

7.

With the recommendation of management, Director Hill moved to approve a resolution authorizing the issuance, sale, and delivery of the Tarrant Regional Water District, a water control and improvement district, water transmission facilities contract revenue bonds (City of Dallas project), Series 2022, pledging revenues for the payment of the bonds, and authorizing other instruments and procedures relating thereto. Director Kelleher seconded the motion and the vote in favor was unanimous.

8.

With the recommendation of management, Director Leonard moved to approve a

contract in an amount not-to-exceed \$12,540,655 with Jacobs Engineering Group, Inc. for engineering services for the pump stations design for the Cedar Creek Wetlands Project. These engineering services include preliminary design investigations, final design plans, specifications for the pump stations, and bid and construction phase services. Funding for this item is included in the Bond Fund. Director Kelleher seconded the motion and the vote in favor was unanimous.

9.

With the recommendation of management, Director Leonard moved to approve a three-year contract in an amount not-to-exceed \$843,093 with Pure Technologies for the pipeline condition assessment program. Funding for this item is included in the Fiscal Years 2023-25 Revenue Fund Budget. Director Hill seconded the motion and the vote in favor was unanimous.

10.

Staff Updates

- Water Resources Update provided by Rachel Ickert, Chief Water Resources Officer

The Board of Directors recessed for a break from 9:40 a.m. to 9:43 a.m.

11.

The Board next held an Executive Session commencing at 9:43 a.m. under Section 551.071 of the Texas Government Code to Consult with Legal Counsel on a Matter in Which the Duty of Counsel Under the Texas Disciplinary Rules of Professional Conduct Clearly Conflicts with Chapter 551, Texas Government Code, and to Discuss Pending or

Contemplated Litigation; and Section 551.074 of the Texas Government Code Regarding Personnel Matters.

Upon completion of the executive session at 10:44 a.m., the President reopened the meeting.

12.

There were no future agenda items approved.

13.

The next board meeting was scheduled for November 15, 2022 at 9:00 a.m.

14.

There being no further business before the Board of Directors, the meeting was adjourned.

President

Secretary

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 4

DATE: November 15, 2022

SUBJECT: Executive Session

FUNDING: N/A

RECOMMENDATION:

Section 551.071 of the Texas Government Code to Consult with Legal Counsel on a Matter in Which the Duty of Counsel Under the Texas Disciplinary Rules of Professional Conduct Clearly Conflicts with Chapter 551, Texas Government Code;

Section 551.072 of the Texas Government Code to Deliberate the Purchase, Exchange, Lease or Value of Real Property; and

Section 551.074 of the Texas Government Code Regarding Personnel Matters and General Manager Annual Evaluation

DISCUSSION:

- Conflict of duty of counsel
- Pending litigation
- Real property issues

Submitted By:

Alan Thomas
Deputy General Manager

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 5

DATE: November 15, 2022

SUBJECT: Discuss and Consider Approval of General Manager Compensation Package for Remainder of 2022 and 2023

FUNDING: General Fund

RECOMMENDATION:

The Board of Directors may recommend approval of changes to General Manager compensation for the remainder of 2022 and 2023.

DISCUSSION:

Dan Buhman was hired as the General Manager of Tarrant Regional Water District effective July 1, 2021. No changes to his compensation have been implemented since July 1, 2021.

In September 2022, the Board of Directors engaged Thompson & Horton, LLC to conduct the annual performance evaluation of Dan Buhman. The performance evaluation is complete.

The Board of Directors will consider and potentially recommend changes to Dan Buhman's compensation package for the remainder of 2022 and 2023, to be effective on the November 25, 2022 paycheck.

Submitted By:

Kathryn Long, Partner
Thompson & Horton, LLC

Stephen Tatum
General Counsel

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 6

DATE: November 15, 2022

SUBJECT: Consider Approval of Consent Agenda

FUNDING: Fiscal Year 2023 General and Revenue Funds

RECOMMENDATION:

Management recommends approval of the Consent Agenda.

DISCUSSION:

The following items are on the Consent Agenda and are described in more detail in the attached spreadsheet:

Consider Approval of Conservation Program Support Expenditures

(1) Tarrant County Master Gardener Association

- Water conservation program services
- Total expenditure amount: \$56,000 annually

Consider Approval of Operations and Maintenance Expenditures

(2) Davis Crane

- ITB No. 23-024 Crawler Crane and Operator for for FY23 Pipe Replacement
- Total expenditure amount: \$80,000

(3) KW Power Services

- Stand-by Generator Preventative Maintenance Contract
- Total expenditure amount: \$77,793

(4) Swift Corporation, LLC

- ITB No. 23-023 Consider Approval of Contract for the construction of a Security Fence at the Bridgeport Spillway
- Total expenditure amount: \$124,450

This item was reviewed by the Construction and Operations Committee on November 11, 2022.

**Tarrant Regional Water District
November 15, 2022 Board of Directors Meeting
Consent Agenda**

CONSERVATION PROGRAM SUPPORT EXPENDITURES

Project	Vendor	Amount	Purpose	Budget
1 20-051 Learn and Grow Program	Tarrant County Master Gardener Association	\$56,600 annually; total potential spend \$226,400	Water conservation program services including public presentations, workshops, events and innovative water conservation projects. Original contract term was for one year with three annual renewal options. FY 2023 is the third annual renewal option.	Revenue \$160,000
		Total		Total
		<u>\$56,600 annually</u>		<u>\$160,000</u>

OPERATIONS AND MAINTENANCE EXPENDITURES

Project	Vendor	Amount	Purpose	Budget
2 ITB No. 23-024 Crawler Crane and Operator for for FY23 Pipe Replacement	Davis Crane	\$80,000	Pipeline maintenance for section III of the Ceder Creek Pipeline.	Revenue 80,000
3 Stand-by Generator Preventative Maintenance Contract	KW Power Services	\$77,793	Texas Local Government Code 271 allows TRWD to participate in a Cooperative Purchasing Agreement with North Texas Municipal Water District (NTMWD). KW Power Services has been awarded a Contract by NTMWD that TRWD recommends piggybacking off of for Stand-by Generator Preventative Maintenance - Annual PM, load bank test, quarterly inspections, fuel polishing, repairs.	General, Revenue General Fund: \$390,000; Revenue Fund: \$405,000
4 ITB No. 23-023 Consider Approval of Contract for the construction of a Security Fence at the Bridgeport Spillway	Swift Corporation, LLC	\$124,450	Contract consists of chain link security fence, mow strip, gate, gate operator, concrete approach, bollards and barrier system to provide an expanded security perimeter at the Bridgeport Spillway.	Revenue 240,000
		Total		Total
		<u>\$282,243</u>		<u>\$1,115,000</u>

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 7

DATE: November 15, 2022

SUBJECT: Consider Approval of Contract with Pipeline Inspection and Condition Analysis Corporation for Condition Assessment of 72-inch Cedar Creek Pipe

FUNDING: Fiscal Year 2023 Revenue Fund - \$150,000

RECOMMENDATION:

Management recommends approval of a contract **in an amount not-to-exceed \$129,000** with Pipeline Inspection and Condition Analysis Corporation (PICA) for the advancement of condition assessment on 72-inch diameter Cedar Creek pipe.

DISCUSSION:

In July of 2020, PICA performed an inspection and a series of tests in four segments of Cedar Creek pipe that the District had removed from service due to broken wires. The purpose of that PICA pilot was to employ technology that could provide insight into damage mechanisms of pre-stressed concrete cylinder pipe. Understanding these mechanisms can help the District gather more details on the condition of pipes beyond just wire break numbers, which would increase the level of confidence in knowing the remaining structural integrity of the District's pipe. The goal of this analysis is to lead to improved prioritization of distressed pipe segments to be replaced, as well as avoiding the removal of partially distressed pipe segments that could have remained in service for many more years with minimal risk of failure.

In addition to the above ground test string, the District had PICA perform a condition assessment using this technology for areas of existing buried Cedar Creek pipeline in the Mansfield and Midlothian areas in January of 2021. Eleven segments of distressed pipe in this area were inspected by PICA and identified as having broken wires with and without loss of pre-stress. These segments were removed and replaced by District personnel as part of the District's planned annual winter pipeline maintenance in February of 2022 and then further tested by PICA above ground before being hydrostatically pressure tested at Thompson Pipe in June of 2022. Testing on these pipe segments helped verify the results of PICA's inspection, but a few key objectives were unable to be obtained due to no shorting straps being present in these particular pre-stressed concrete cylinder pipes.

As part of this contract's phase, PICA will perform a condition assessment during the planned 2023 winter maintenance using this remote field electromagnetic technology for areas of existing buried Cedar Creek pipeline in the Ennis area. Fourteen segments of distressed pipe in this area were previously identified as having broken wires and could

be candidates for further testing and forensics to advance the technology and focus on remaining key objectives.

This remote field electromagnetic technology used to identify loss of remaining hoop strength in pre-stressed concrete cylinder pipe is currently only being developed by PICA, and thus available as a service to the District only from PICA. As a result, this sole source purchase will be made utilizing Local Government Code 252.022. As a sole source technology service procurement with no subcontractors, the opportunity for diverse business participation with this contract does not exist.

This item was reviewed by the Construction and Operations Committee on November 11, 2022.

Submitted By:

Jason Gehrig, P.E.
Infrastructure Engineering Director

October 24, 2022

Tarrant Regional Water District
808 E. Northside Drive
Fort Worth, TX 76102

Attn: Ms. Courtney Jalbert,

Re: PICA proposal to evaluate pipeline for Hydrogen Embrittlement/loss of pre-load

Dear Courtney,

Further to our email and telephone discussions and the information that you have provided to PICA, we are pleased to provide our proposal for your consideration to use our RFT and NFT technologies to inspect 1.38 miles of the Cedar Creek 72" PCCP pipeline in early 2023. This section of the Cedar Creek Pipeline is close to Ennis, TX, and is known to suffer from broken wires, possibly with and without a loss of preload. It has experienced a number of failures, most recently in March of this year.

Background:

PICA has worked with TRWD over the last 3 years to evaluate its 72" PCCP Cedar Creek pipeline and has discovered that:

- PICA's technology has the ability to discriminate between corroded wire failures and those caused by Hydrogen Embrittlement.
- PICA accomplishes the above by checking whether the wire breaks have an associated decrease in the (compressive) stress in the cylinder. Using this approach, the tool can also determine if there is a complete "Loss of pre-load" (whereby the compressive forces that the wires had on the thin steel cylinder when new, have relaxed and an imminent risk of pipe failure exists).
- PICA has established that its "RFT" technology can detect the loss of preload; however, its NFT technology cannot (although the NFT technology is quite good at detecting broken wires).
- During the work performed over the last 3 years, PICA examined pipes that had shorting straps and pipes that did not. Because the EM behaviour of the two pipe types is very different, the results can be difficult to compare directly.

Section 3 of the Cedar Creek Pipeline offers PCCP pipes with shorting straps that are also known to have broken wires. TRWD is planning to replace a number of these pipe sticks in the spring of 2023, meaning that the pipeline will be dewatered. This represents a great opportunity for PICA to further investigate the stress phenomenon and mature the technology. PICA proposes to use both NFT and RFT technologies in the section of the 72" Cedar Creek Pipeline with shorting straps. The section is approximately 1.38 miles long, and we are proposing to also capture the liner condition using laser (or LiDAR) and high-resolution CCTV.

Details of pipeline segment to be inspected

The pipeline segment to be inspected is from the Manway located at 2455+38 to the manway located at 2528+25 (7,280 feet). The segment includes a repair where the pipe experienced a blow-out on 23/03/2022, plus a number of distressed pipes called by Pure Technologies in 2018. For the inspection we will also use the access manway at STA 2508+75.

The pipe segment including the distressed pipe numbers that will be inspected is shown in Figure-1 below.

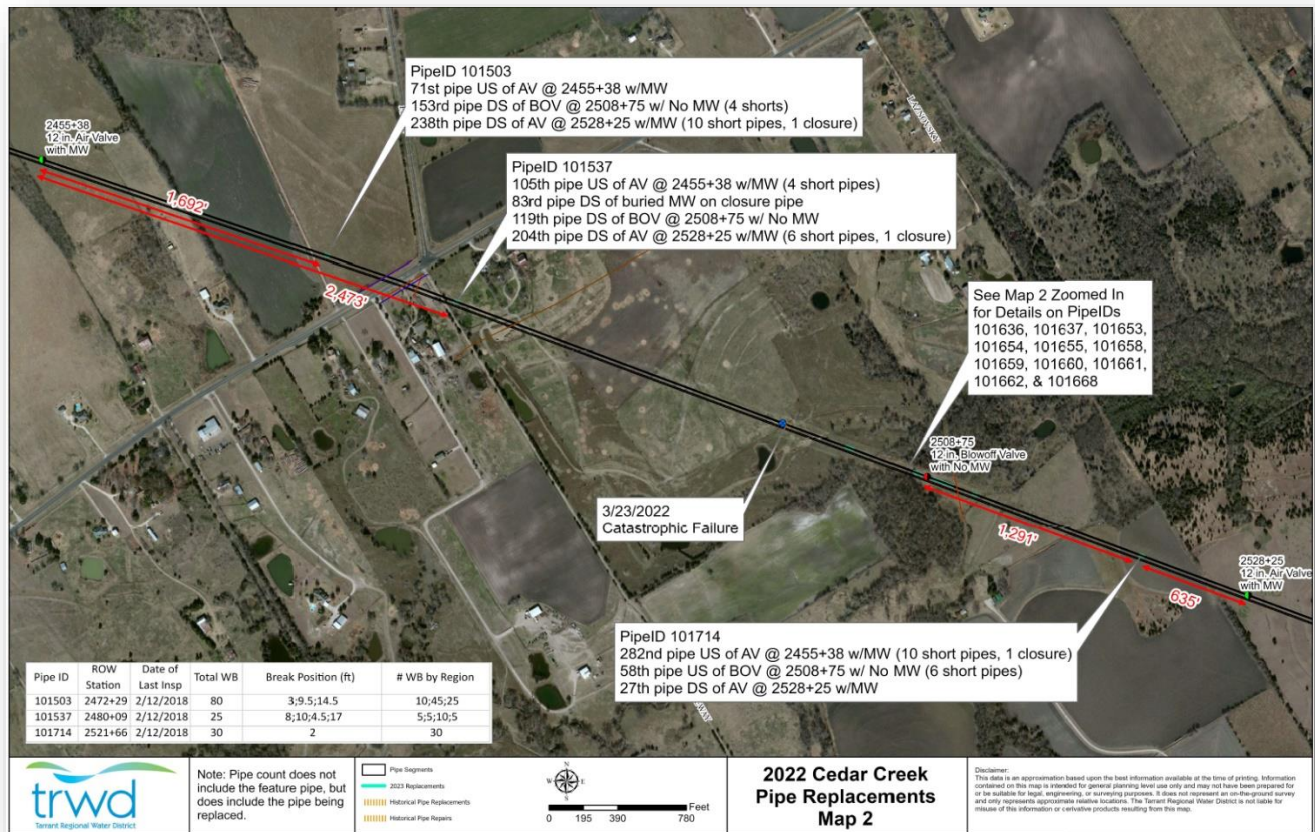


Figure-1: Cedar Creek Pipeline Segment to be inspected

Scope of Work:

1. PICA will mobilize to site from Edmonton, Alberta on a mutually agreed day in early 2023
2. The first day on site will be used to assemble the Tools inside the pipe. The manway to be used as the start point is to be decided prior to mobilization.
3. A synthetic rope tether will be pulled through the line between manways. We will need to use the manway at STN 2508+75 to station one of two winches because the tether maximum length is 6,000'
4. The pipe numbers will need to be marked on the inside of the pipe. It's preferred that TRWD personnel do the marking as they are most familiar with the asset and previous marking systems used. PICA's report will rely on the accuracy of these markings.
5. We understand that some pipe sticks will be removed and replaced after our inspection (which will take 2 days), and that PICA will be required to provide a pre-liminary report within 48 hours of which pipe sticks are distressed, and which ones exhibit loss of preload, if any.
6. PICA expects to remove its equipment and de-mob its field crew on the fourth day on site. We will work around the construction crew as necessary.

Our goal is to provide a successful inspection on the first attempt. This will require support from TRWD personnel. Their responsibilities include all site preparations (such isolation, LOTO, draining, removing of any heavy accumulated mud, and receipt of PICA equipment), as well as support during the inspection day (support activities include confined space support, traffic control, lifting assistance and overall job safety). These are explained in more detail below:

- ◆ A man-hoist needs to be positioned over any access location where entry into the pipeline is through a manway at the crown of the pipe. This equipment will be used by workers entering and leaving the pipeline and has a secondary function of hoisting equipment in and out of the pipeline.
- ◆ Removal of any fittings (like manhole covers) that need to be temporarily removed to provide access.
- ◆ Positive air flow through the pipeline is required to ensure that no build-ups of CO₂ or other hazardous gases can accumulate within the pipeline while personnel are working inside and that oxygen levels do not fall below 19.5%.
- ◆ Traffic Control (if needed).
- ◆ 120V Power for air blowers and on-site lights if working at night.
- ◆ Confined Space Rescue trained personnel and man-watch to log in and out anyone who enters the pipeline.
- ◆ If necessary, logistics support to bring PICA equipment to the access location, and also to remove it from the extraction point.

Costs:

PICA offers to perform the above Scope of Work for an inclusive cost of **USD\$129,000** as per the breakdown below:

Table-1

Task	Number	Unit rate	Total (USD)
Pre-job Tool prep	1	\$9,500.00	\$9,500.00
Mob/Demob	1	\$55,000.00	\$55,000.00
Skid steer Rental	2	\$2,000.00	\$4,000.00
Run RFT and NFT Tools, c/w CCTV and Laser ID measurements	7280 feet	\$7.00	\$50,960.00
Analyse data and report condition	7280 feet	\$2.00	\$14,560.00
Sub-Total			\$134,020.00
Preferred customer discount			(\$5,020.00)
Total			\$129,000.00

PICA proposes to use its "EMIT" RFT Tool (photo below), as well as its new NFT Tool. The data from the NFT Tool will be used by PICA as a confirmation of broken wires detected by the RFT Tool which can also detect loss of pre-load. PICA is attempting to improve the design of the NFT Tool, and therefore, TRWD will not be paying for its use. The CCTV and Laser data will be used by PICA to determine if there is any correlation between any pipe that has a loss of preload, and the ID measurements. These results will be presented to TRWD if a correlation is found.

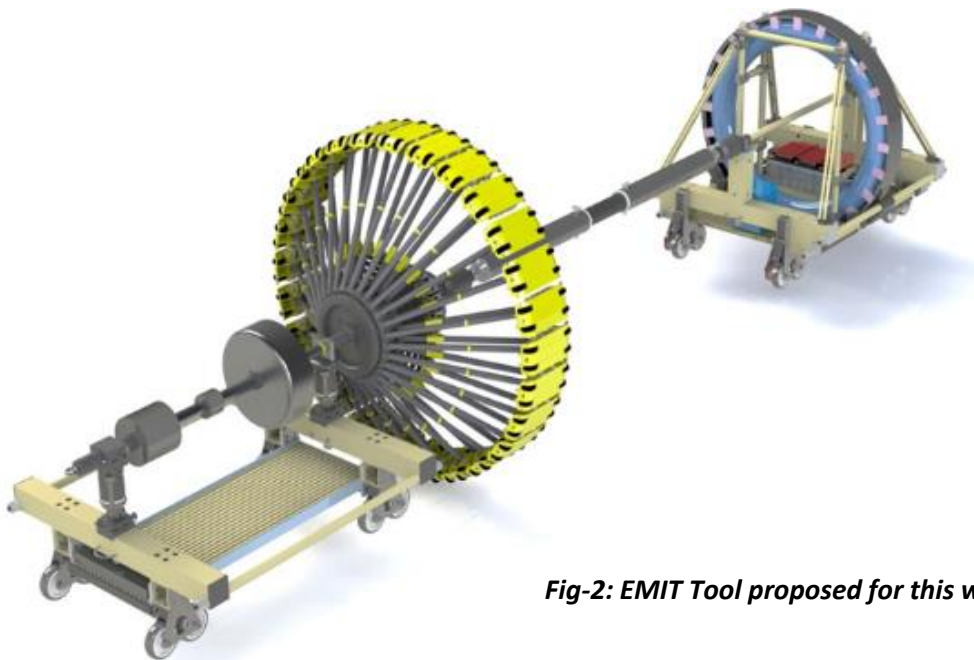


Fig-2: EMIT Tool proposed for this work

If you should have any questions or comments about this proposal or SOW, please contact the writer to discuss.

Sincerely,



D.E. Russell, MBA,
PICA Corp.
Picacorp.com
(780) 469-4463

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM 8

DATE: November 15, 2022

SUBJECT: Consider Approval of Contract Amendment with CDM Smith for Joint Booster Pump Station Number 3 Record Drawings Preparation for the Integrated Pipeline Project

Funding: Bond Fund

RECOMMENDATION:

Management recommends approval of a contract amendment **in the amount of \$137,000** with CDM Smith for preparing Joint Booster Pump Station Number 3 (JB3) As-Built Record Drawing (\$117,000), and Joint Cedar Creek Lake Pump Station (JCC1) Chemical Feed and Pump Control Valve Supervisory Control and Data Acquisition programming (\$20,000). The current contract amount is \$21,458,566 and the revised not-to-exceed contract amount, including this contract amendment, will be \$21,595,566.

DISCUSSION:

CDM Smith is tasked with the design of the three Integrated Pipeline Booster Pump Stations for standardization purposes. CDM Smith is also tasked with IPL SCADA design and programming (all facilities). Based on current and projected water demand, only the JB3 booster and JCC1 lake pump stations are constructed and operational.

Record or as-built drawings and specifications incorporate changes made during the construction phase of a project into a final set of as-built documents. The as-built record documents then provide the basis for facility and equipment operations, maintenance, asset management and future expansion projects.

The JB3 record documents budget was included as Additional Services as part of CDM's Professional Services scope in the amount of \$117,000. Over the course of project, the budget for the record documents services was authorized for other Additional Professional Services used in correcting JB3 pumps, motors, control valves and cooling operational issues as follows:

Project	Description of Work	Cost
JB3	Acceptability of Work -- Pentair and Patterson pumps, cooling towers	40,000
JB3	Additional Factory Witness Testing -- Pentair pumps	20,000
JB3	Pump Performance and Vibration Analysis -- Pentair pumps	<u>57,000</u>
		\$117,000

The JB3 pump performance and vibration issues have been identified and correction measure are currently underway by Pentair at no cost to the IPL Program.

The remaining \$20,000 is for additional and complex SCADA programming required for the on-site sodium hypochlorite generation system. The new JCC1 pump station employs on-site sodium hypochlorite generation (bleach) instead of bulk liquid chlorine for public and personnel safety reasons. The onsite generation and feed processes are new to the District with the process somewhat more complicated to program, but the product is much safer for Operations and Maintenance personnel as well as transportation.

Management also requests that the General Manager or his designee be granted authority to execute all documents associated with the contract described herein.

Included for reference are the Fair Opportunity in Purchasing and Contracting and task fee summaries. CDM does not qualify as a DBE/HUB firm under the Fair Opportunities in Purchasing and Contracting Program. To date, CDM has exceeded the goal for FOPC participation with 26.6% of budget performed by FOPC subconsultants.

This item was reviewed by the Construction and Operations Committee on November 11, 2022.

Submitted By:

Ed Weaver
IPL Program Manager



Memo

TO: Ed Weaver

FROM: Matt Gaughan

COPY: Coy Veach

DATE: November 04, 2022

SUBJECT: Consider Approval of a Contract Amendment with CDM Smith for the Booster Pump Station Engineering Services of the Integrated Pipeline Project

On January 20, 2011, TRWD executed a contract with CDM Smith (CDM) for preliminary engineering of the Booster Pump Stations of the Integrated Pipeline Project for a not to exceed \$5,142,900. The contract has been amended five times for various final engineering and program-wide SCADA programming services for fees not to exceed \$16,315,566. Total current contract amount is \$21,458,566.

The proposed amendment amount of \$137,000 is for the development of Record Drawings for the JB3 Booster Pump Station and Additional SCADA programming for the JCC1 Lake Pump Station. In the JB3 Booster Pump Station Bid and Construction Phase Services Amendment (Amendment 2), a budget estimate was included for various Additional Services tasks including development of Record Drawings. CDM was authorized by change management to use this Additional Services budget for other tasks including Determination of Acceptability of Work, Factory Witness Testing and Pump Performance and Vibration Analysis services associated with various components of the JB3 Booster Pump Station. Further, additional level of effort was required for SCADA programming required for the on-site sodium hypochlorite generation system at JCC1.

This amendment includes professional services budget to replenish the amount required to complete JB3 Record Drawings and JCC1 SCADA Programming. The total not to exceed contract value, including this proposed amendment will be \$21,595,566.

This scope of work includes two (2) tasks consisting of JB3 Record Drawing preparation and JCC1 SCADA Programming Services.

There are requirements for CDM to meet DBE/HUB participation goals under the Fair Opportunities in Purchasing and Contracting Program for IPL Contracts. CDM does not qualify as a DBE/HUB firm under the Fair Opportunities in Purchasing and Contracting Program. To date, CDM has exceeded the goal for FOPC participation with 26.6% of budget performed by FOPC subconsultants. The proposed amendment does not include any additional DBE/HUB participation. With the proposed amendment, CDM's DBE/HUB participation will be approximately 26.4% of total budget and exceeds the program goal of 25%.

Included for reference are the Fee Summary and Fair Opportunity in Purchasing and Contracting summaries.



FEE SUMMARY		
Integrated Pipeline Project		
IPL Booster Pump Station Engineering Services		
CDM Smith, Inc.		
Task	Description	Estimated Fee
	Basic Services	
1	JB3 Record Drawings	\$117,000.00
2	JCC1 Additional SCADA Programming	\$ 20,000.00
Total		\$137,000.00

Fair Opportunity Purchasing

Project: Consider approval of contract amendment to contract with CDM Smith, Inc. for Booster Pump Station Engineering Services of the Integrated Pipeline (IPL).

Not to Exceed \$137,000.00

CDM Smith, Inc., an Engineering and Consulting company with local offices in Dallas, Texas and Fort Worth, Texas, has signed the IPL Project Fair Opportunity Purchasing documentation, and proposes to use the following sub-consultants:

Project Category: Engineering, Bid and Construction Services

LOCAL/NON-LOCAL CONTRACT SUMMARY

	<u>Amount</u>	<u>Percent</u>
Local Contracts	\$137,000.00	100.0%
Non-Local Contracts	\$0.00	0.0%
Total This Agenda	\$137,000.00	

LOCAL/NON-LOCAL MWBE/HUB PARTICIPATION THIS ACTION

None

CDM Smith will self-perform the tasks for this Amendment. To date, CDM Smith has exceeded the 25% project goal for FOPC participation, subcontracting approximately 26.6% of project services to DBE/HUB subconsultants. With this amendment, the total participation is projected to be 26.4% of project services and is in excess of project goal.

TARRANT REGIONAL WATER DISTRICT

AGENDA ITEM

DATE: November 15, 2022

SUBJECT: Consider Approval of Settlement of Claims in the Integrated Pipeline Project - Bancroft (865, 920) Lawsuit

DISCUSSION:

This agenda item is pending negotiations and is subject to review and approval by the TRWD Board of Directors.

Next Scheduled Board Meeting

December 13, 2022 at 9:00 AM