

# **INTEGRATED PIPELINE PROJECT** QUARTERLY EXECUTIVE SUMMARY

June 2024

LP1IN Aerial View of the Pump Station

#### IPL PROGRAM MANAGEMENT

Tarrant Regional Water District 804 East Northside Drive Fort Worth, TX 76102 817.720.4469 p 817.720.4397 f iplproject.com @IPL\_Project WATER UTILITIES (DWU) have partnered to finance, plan, design, construct and operate the Integrated Pipeline (IPL) Project. The IPL Project is an integrated water delivery transmission system connecting Lake Palestine to Lake Benbrook with connections to Cedar Creek and Richland-Chambers Reservoirs integrating TRWD's existing pipelines and creating flexibility in delivery as well as quick response to fluctuating customer water demands. The IPL Project consists of 150 miles of pipeline, three new lake pump stations, and three new booster pump stations delivering a required capacity of 350 million gallons per day (MGD) of raw water to North Central Texas. TRWD and DWU currently serve over 4.1 million residents and the IPL will allow these agencies to continue supporting regional community and economic growth.

TARRANT REGIONAL WATER DISTRICT (TRWD) and the CITY OF DALLAS

# ACCOMPLISHMENTS

through 06.30.2024

#### GENERAL IPL PROGRAM OPERATIONAL STATUS

With the completion of all construction in Phase 1 and Phase 2 of the IPL Program, TRWD has now added redundancy and flexibility, as well as a new independent water supply source from Cedar Creek Reservoir.

As a standalone system, the new JCC1 Pump Station, together with the new IPL pipelines, reservoirs, booster pump station, interconnect facilities and pressure reduction station, has added 210 mgd capacity to TRWD's water supply capability all the way to the Arlington Outlet.

In addition to acting independently, the water from JCC1 can connect to the existing Richland Chambers pipeline at the S5X15 Interconnect facility, and to both the Richland Chambers and Cedar Creek pipelines at the S2X12 Interconnect facility and the S1X10 Pressure Reduction facility.

The construction projects that are now complete and fully operational are:

- S5X15 Interconnect
- Pipeline Sections 15-1 and 15-2
- JB3R Suction Reservoir
- JB3 Booster Pump Station with Electrical Substation
- Pipeline Section 14
- Midlothian Balancing Reservoir
- Pipeline Sections 12 and 13
- **CURRENT PROJECT UPDATES**

#### PL19TUN (Cedar Creek; SH 31; Hollywood Lake; Stream A; SH 151/Frankston ISD Tunnels for Pipeline Sections 19-1 & 19-2)

- Open Cut
  - » Open Cut Pipe Installation 26,455ft out of 31,070 complete - 85% complete
  - » Continued welding joints, all welds have passed inspection – 87% complete
  - » ROW Topsoil Replacement 27,000LF out of 31,070LF complete – 87% complete
- » Grouting Joints 27,001LF of 31,052LF -87% complete
- » Continued receiving OC nine 27 8511 F of 31,070LF delivered – 90% complete
- Cedar Creek Tunnel
  - » Tunnel completed, 5,040ft total 100% complete
  - » Fiber Optic and Cathodic Protection conduits installed – 100% complete
  - » Dewatering system installed an operated at BOV shaft, BOV excavation ongoing 90% complete
  - » Successfully complete tunnel pipe installation mock up.
  - » TBM and support equipment mobilized to Hollywood Lake Site
- Royal Blvd
  - » Tunnel Completed, 787ft total 100% Complete
  - » Completed installation of the Fiber Optic and Cathodic Protection conduits
- » Completed installation of all tunnel pipe » Preparing to grout annular space
- Hollywood Lake Tunnel
  - » Launched TBM on 3/11/2024 and mined 3,774ft of tunnel – 65% complete
- » Excavation of the retrieval shaft ongoing -90% complete

**PROJECT SCHEDULE** 

» Completed installation of the dewatering system at the BOV and Retrieval Shaft Stream A

• S2X12 Interconnect Facility

• Pipeline Sections 10 and 11

• Pipeline Sections 17 and 18

• S1X10 Pressure Reduction Station

JCC1 Pump Station with Electrical Substation

• Pipeline Section 17 Trinity River Tunnel

- » Tunnel Completed, 191ft total 100% Complete
- » Completed installation of the Fiber Optic and Cathodic Protection conduits
- » Completed installation of all tunnel pipe » Completed annular grouting of the tunnel
- SH 155 » Tunnel Completed, 810ft total – 100%
  - Complete » Completed installation of the Fiber Optic
  - and Cathodic Protection conduits » Began installation of tunnel pipe - 70%
  - complete.

#### LP1 INTAKE (Intake Structure and Channel for Lake Palestine Pump Station)

- » Began drilling piers at the Pump Station » Completed drilling/setting/grouting all five
- pump can liners » Began haul off of rock from Pump Station excavation
- » Continuing to extend turbidity curtain as needed for dredging activities » Continuing to marine dredge the Pump
- Station intake channel » Sediment Removal - 40,842 CY out of
- 55.620 CY 73% complete » Rock Removal - 219 CY out of 10,845 CY
- 2% complete » Dredged material continues to be hauled to drying bed area where it is rotated to be dried out in preparation of being hauled off site.



| PL192A (Section of 84" Pipe between Lake |      |
|--|------|
| Palestine Pump Station and PL19TUN Proje | ect) |

» BAR Constructors awarded the PL192A contract

### DESIGN AND PROCUREMENT

- » LP1 HV Design Engineer submitted 90% Drawings and Specifications for review. » LP1 PS - Design Engineer coordinating with
- major equipment manufacturers to finalize project specifications.
- » PL192B OPT Team coordinating with contractors for MTBM projects.
- » PL191 Design Engineer submitted pre-final Drawings for review.



PL19TUN Roval Blvd Tunnel Pipe Installation

| Projects  | Contractors Prime               | Contract Price              | Materials<br>Exclusions   | M/WBE Available<br>Contract Value | M/WBE<br>Completed Value | Completed<br>% |
|---|---------------------------------|-----------------------------|---------------------------|-----------------------------------|--------------------------|----------------|
| Construction: Active and Completed  |                                 | \$1,061,583,457             | \$368,361,690             | \$693,221,768                     | \$174,181,931            | 25.13%         |
| Active-Construction   |                                 | \$275,381,132               | \$65,528,680              | \$209,852,452                     | \$30,386,069             | 14.48%         |
| Section 19 Long Tunnel Crossings  | TRAYLOR SUNDT JOINT VENTURE     | \$221,404,672               | \$63,735,680              | \$157,668,992                     | \$23,126,928             | 14.67%         |
| Lake Palestine PS LP1IN Package 1   | BAR CONSTRUCTORS INC            | \$53,976,460                | \$1,793,000               | \$52,183,460                      | \$7,259,141              | 13.91%         |
| Section 192 Part A Open Cut Pipe<br>Installation  | BAR CONSTRUCTORS INC            | \$73,894,961                | \$28,000,000              | \$45,894,961                      | -                        | 0.00%          |
| Lake Palestine PS HV 138 KV FEA /<br>Transmission                                       | ONCOR ELECTRIC DELIVERY COMPANY | \$21,500,000                | \$21,500,000              | -                                 | -                        | 0%             |
| Completed-Construction  |                                 | \$674,037,629               | \$246,031,510             | \$428,006,119                     | \$141,307,353            | 33.02%         |
| Design Active and Completed   |                                 | \$223,922,181               | -                         | \$223,922,181                     | \$52,191,861             | 23.31%         |
| Active Design   |                                 | \$26,807,121                | -                         | \$26,807,121                      | \$3,434,989              | 12.81%         |
| Section 19.01   | BROWN & GAY ENGINEERS INC       | \$3,943,153                 | -                         | \$3,943,153                       | \$603,490                | 15%            |
| Section 19.02   | HDR ENGINEERING INC             | \$5,950,376                 | -                         | \$5,950,376                       | \$1,038,936              | 17%            |
| Section 19.02   | HDR ENGINEERING INC             | \$3,411,148                 | -                         | \$3,411,148                       | -                        | 0%             |
| LP1 IN Packge 1 & Packge 2  | CH2M HILL ENGINEERS INC         | \$5,194,000                 | -                         | \$5,194,000                       | \$688,588                | 13%            |
| Operation Manual  | CH2M HILL ENGINEERS INC         | \$3.044.922                 | -                         | \$3.044.922                       | \$486.259                | 16%            |
| Operation Manual Phase 2  | CH2M HILL ENGINEERS INC         | \$3,434,922                 | -                         | \$3,434,922                       | \$475,700                | 14%            |
| High Voltage  | BURNS & MCDONNELL ENGINEERING   | \$1,063,600                 | -                         | \$1,063,600                       | \$114 599                | 11%            |
| Section 19 Transportation<br>Management Plan  | BURNS & MCDONNELL ENGINEERING   | \$690,000                   | -                         | \$690,000                         | \$18,282                 | 3%             |
| Section 19 Long Tunnel  | PARSONS WATER & INFRASTRUCTURE  | \$75,000                    | -                         | \$75,000                          | \$9 135                  | 12%            |
| JRC1 SITE EVALUATION  | CH2M HILL ENGINEERS INC         | \$825.000                   | -                         | \$825.000                         |                          | 0%             |
| IRC1 SURVEY   |                                 | \$100,000                   | -                         | \$100,000                         | -                        | 0%             |
| Completed Design  |                                 | \$196 327 060               | _                         | \$196 327 060                     | \$48 792 963             | 24.85%         |
| Active and Completed: Bolling Owner   | Controlled Insurance Program    | \$28 276 855                | \$25 440 017              | \$2 836 838                       | \$381 127                | 13 43%         |
| Active-Bolling Owner Controlled Insur   |                                 | \$10,166,476                | \$9.467.589               | \$698 887                         | ,501,127                 | 0.00%          |
| POCID Dh 2 Admin Broker   |                                 | \$10,100,470                | <i>407,303</i>            | \$608.887                         |                          | 0.00%          |
| Socurity Obligations  |                                 | \$0,96,667                  | ¢0 467 590                | 2038,887                          | -                        | 0%             |
| Completed BOCID Belling Owner Cont  |                                 | \$3,407,383                 | \$3,407,383               | ¢2 127 0E1                        | ¢201 127                 | 17 0 20/       |
| Completed RUCIP-Rolling Owner Controlled Insurance Program                              |                                 | \$10,110,575                | ŞIJ,572,420               | \$2,157,551                       | \$301,127                | 17.05%         |
| Service   |                                 | \$114,918,171               |                           | \$114,918,171                     | \$36,407,826             | 31.68%         |
| Active-Construction and Program Mar   | nagement Support Service        | \$24,269,755                |                           | \$24,269,755                      | \$6,765,858              | 27.88%         |
| Program Management Support  | PLUS SIX ENGINEERING LLC        | \$11,933,000                | -                         | \$11,933,000                      | \$3,468,171              | 29%            |
| Program Management Support  | FREESE & NICHOLS, INC.          | \$7,395,236                 | -                         | \$7,395,236                       | \$142,365                | 2%             |
| Program Management Support  | AECOM TECHNICAL SERVICES INC    | \$1,839,244                 | -                         | \$1,839,244                       | -                        | 0%             |
| Resident Project Representation   | CAS CONSULTING & SERVICES INC   | \$3,102,275                 | -                         | \$3,102,275                       | \$3,155,322              | 101.71%        |
| JRC1 Environmental  | FREESE & NICHOLS, INC.          | \$171,500                   | -                         | \$171,500                         | -                        | 0%             |
| JRC1 Program Management Support   | PLUS SIX ENGINEERING LLC        | \$90,000                    | -                         | \$90,000                          | -                        | 0%             |
| Completed-Construction and Program  | Management Support Service      | \$97,639,413                | -                         | \$97,639,413                      | \$36,883,770             | 37.78%         |
| Construction Materials Inspection and   | I Testing-CMIT                  | \$15,389,465                | -                         | \$15,389,465                      | \$6,929,403              | 45.03%         |
| Active-Construction Materials Inspect   | ion and Testing-CMIT            | \$2,464,098                 | -                         | \$2,464,098                       | \$1,209,653              | 49.09%         |
| PL19 Long Tunnel Crossings CMIT   | ACCURATE INSPECTIONS INC        | \$717.000                   | -                         | \$717.000                         | \$353.006                | 49%            |
| PL19 Long Tunnel Crossings CMIT   | STEEL INSPECTORS OF TEXAS INC   | \$375.000                   | -                         | \$375.000                         | \$38.095                 | 10%            |
| Pl 19 Long Tunnel Crossings CMIT  | ETTL ENGINEERS AND CONSULTANTS  | \$800.000                   |                           | \$800.000                         | \$277 /26                | 17%            |
|   |                                 | \$800,000                   | -                         | \$300,000                         | \$377,430                | 4770           |
|   |                                 | \$196,420                   | -                         | \$196,420                         | \$187,776                | 96%            |
| PL19 TXDOT CMIT   | STEEL INSPECTORS OF TEXAS INC   | \$144,760                   | -                         | \$144,760                         | \$39,186                 | 27%            |
| PL19 TXDOT CMIT   | INC                             | \$230,918                   | -                         | \$230,918                         | \$214,153                | 93%            |
| LP1IN Package 1   | ALLIANCE GEOTECHNICAL GROUP     | \$879,703                   | -                         | \$879,703                         | \$104,764                | 12%            |
|   | spection and Testing-CMIT       | \$10,384,626                |                           | \$10,384,626                      | \$5,614,986              | 54.07%         |
| Completed-Construction Materials Ins  |                                 |                             |                           |                                   | 40                       | 0.00%          |
| Completed-Construction Materials Ins Owner Furnished Equipment                          |                                 | \$37,687,293                | \$37,687,293              |                                   | Ş0                       | 0.00%          |
| Completed-Construction Materials Ins<br>Owner Furnished Equipment<br>Study and Research |                                 | \$37,687,293<br>\$3,439,003 | \$37,687,293<br>\$254,473 | -<br>\$3,184,530                  | Ş0<br>                   | 0.00%          |

Note: Excludes costs for pipe, owner-furnished equipment, purchased materials, legal fees, land acquisition and appraisal, power utility, and administrative costs.

2

# FINANCIALS

through 06.30.2024

# **PROJECT COMPONENTS**

## **PIPELINE SEGMENTS**

- Section 9: KBR Turn-Out Tee to existing Benbrook Connection Pipeline (10.6 mi. 84" dia. Pipe + 5 mi. 120" Tunnel)
- Section 10: KBR Turn-Out Tee to KBR (2.4 mi. 84" dia. Pipe)
- Section 11: JB4 to KBR Turn-Out Tee (10 mi. 84" dia. Pipe)
- Section 12: JB4 to existing CC and RC Pipelines (2.2 mi. 108" dia. Pipe)
- Section 13: MBR2 (Midlothian Balancing Reservoir) to JB4 (11 mi. 108" dia. Pipe)
- Section 14: JB3 to MBR2 (Midlothian Balancing Reservoir) (14.9 mi. 108" dia. Pipe)
- Section 15: JB2 to JB3 (28.5 mi 108" dia. Pipe)
- Section 16: JRC1 (Joint Richland Chambers Lake Pump Station) to JB2 (12.3 mi. 96" dia. Pipe)
- Section 17: Cedar Creek Connection to JB2 (11.2 mi. 108" dia. Pipe)
- Section 18: JCC1 (Joint Cedar Creek Lake Pump Station) to Cedar Creek Connection (0.2 mi. 108" dia. Pipe)
- Section 19: LP1 (Lake Palestine Pump Station) to Cedar Creek Connection (42.3 mi. 84" dia. Pipe)

## **PUMP STATIONS:**

- Palestine Pump Station: 150 mgd with new intake
- Cedar Creek Pump Station: 277 mgd with new intake
- Richland Chambers Pump Station: 250 mgd Ultimate Design Capacity
- Booster Pump Stations: Two @ 347 mgd and one @ 197 mgd (S one 347 mgd station - JB3)

## **SUPPORT FACILITIES:**

- Reservoirs: Three reservoirs (80 400 mgd) two for booster pump stations and one for balancing. Two of the reservoirs are core projects – JB3R and MBR
- **Deep Tunnels:** 5 mi of 10' dia. tunnel @ Crowley (included in length of Section 9)
- Substations & High Voltage Transmission Lines: Six substations and 4 mi. of high voltage transmission lines (S two substations)
- Microwave Communications and SCADA System: Provides remote operations capability and system monitoring



LP1IN Dredging Activities in the Intake Channel



PL19TUN Cedar Creek Tunnel Pipe Mock Up



LP1IN Dredging Sediment from Intake Channel

