



INTEGRATED PIPELINE PROJECT

QUARTERLY EXECUTIVE SUMMARY

June 2022



JB3 Pump Station

IPL PROGRAM MANAGEMENT

Tarrant Regional Water District

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

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.

PROGRAM SUPPORT SERVICES

through 06.30.2022

CONTRACT DESIGN AND CONSTRUCTION	DESCRIPTION	BUDGET	CONTRACTS ISSUED	TOTAL INVOICED
PROGRAM WIDE PROFESSIONAL SERVICES		\$133,062,000	\$87,563,707	\$85,584,795
Program Management	Overall program management services for implementation of the IPL Project. (Extension of TRWD staff)	\$45,000,000	\$35,124,711	\$35,124,711
Conceptual Design / Environmental / Permitting	Operations plan & Prepare 404 permit application, Envision Application Completion	\$13,551,000	\$13,248,701	\$13,248,699
Value Engineering	Expert review of design	\$640,000	\$472,248	\$472,248
Surveying and Mapping	Control, property survey, legal descriptions, and Provide SUE Level A Survey, GIS	\$14,600,000	\$11,854,389	\$10,955,362
Geotechnical	Initial Characterization of entire IPL Project	\$12,037,000	\$12,026,275	\$12,026,276
Corrosion Engineering Services	Engineering Corrosion Control	\$3,891,000	\$5,326,362	\$4,738,905
Land, Easement Acquisition, & Support Studies	Right of Entry and Land Acquisition Support Services	\$33,993,000	\$3,464,526	\$3,433,832
SCADA System	Engineering of SCADA system	\$640,000	\$0	\$0
Microwave System	Engineering of Communications System	\$5,210,000	\$2,362,752	\$1,997,177
Water Blending Study	Carollo	\$387,511	\$387,511	\$106,159
DESIGN & CONSTRUCTION ADMINISTRATION		\$201,714,000	\$189,089,975	\$166,540,626
Completed		\$122,733,000	\$103,809,850	\$103,055,967
Active		\$23,326,000	\$52,722,524	\$42,888,737
CH2M Hill	Project Operational Information and Operations Manual		\$6,479,844	\$5,738,218
CH2M Hill	Final Conformance of Design of JCC1	\$728,000	\$9,288,681	\$7,951,671
MWH	Final Conformance of Design of Section 9/10/11	\$506,000	\$1,307,780	\$1,030,295
Black & Veatch	Engineering during Construction of Section 10/11		\$810,000	\$496,051
Black & Veatch	Final Design of Section 12/13/14	\$11,292,000	\$12,338,807	\$12,278,729
Parsons	Final Design of Sections 17/18/Tunnel		\$0	\$0
Brown & Gay	Final Design of Section 19-1	\$5,770,000	\$8,130,200	\$4,092,208
HDR	Final Design of Section 19-2	\$5,030,000	\$8,358,000	\$7,061,799
Burns & McDonnell Trans. Mgmt.	Development of Transportation Management Plan		\$905,203	\$866,643
Burns & McDonnell	High Voltage Design		\$2,578,809	\$2,494,934
Burns & McDonnell	Section 19 Transportation Management Planning		\$690,000	\$100,964
Burns & McDonnell	Final Design of LP1		\$1,063,600	\$6,188
Furgo Consultants, Inc.	Section 19 Tunnel Geotechnical Testing		\$771,600	\$771,037
IPL Partners	Section 19 Tunnel Crossing		\$21,033,560	\$13,603,689
CH2M Hill	Lake Palestine Interim Stage		\$1,169,231	\$1,169,190
Furgo Consultants, Inc.	Section 19 Groundwater Pumping Testing Services		\$570,810	\$418,678
Plus Six Engineering, LLC	PH3 IPL PROGRAM AND CONSTRUCTION MANAGEMENT SERVICES		\$4,590,000	\$5,070,401
CH2M Hill	Final Design LPIN1		\$5,194,000	\$333,964
Remaining		\$55,655,000		
CONSTRUCTION / OWNER FURNISHED EQUIPMENT		\$1,729,540,000	\$673,303,827	\$669,920,868
Completed		\$346,119,000	\$212,008,947	\$211,833,088
Active		\$875,818,000	\$461,294,880	\$458,087,780
JB3		\$83,013,000	\$75,779,477	\$73,949,545
MWH Constructors	Construction of JB3 Pump Station	\$51,473,000	\$57,995,805	\$59,398,603
Oncor Electric	Installation of JB3 Substation Transmission Lines	\$1,066,000	\$957,119	\$923,119
Isolux Corsan	Construction of JB3 Substation	\$7,400,000	\$4,864,888	\$4,864,888
R E Monks	Construction of JB3R Restoration	\$0	\$675,782	\$675,782
Pentair Flow Technologies	Construction of JB3 Pumps, Motors, Drives	\$23,074,000	\$11,285,883	\$8,087,153
Pipeline Section 12/13/MBR/JB4 Bypass		\$167,992,000	\$153,555,744	\$157,138,475
Thalle Midlothian	Construction of Sections 12/13/MBR/JB4 Bypass	\$146,310,000	\$143,253,968	\$146,836,699
BAR Constructors	Construction of Richland-Chambers/Cedar Creek Interconnection Facility	\$21,682,000	\$10,177,546	\$10,177,546

PROGRAM SUPPORT SERVICES

through 06.30.2022

CONTRACT DESIGN AND CONSTRUCTION	DESCRIPTION	BUDGET	CONTRACTS ISSUED	TOTAL INVOICED
Hilco Electric	MBR Radio Tower Power		\$33,312	\$33,312
Oncor Electric	Provide Power to IPL 2X12		\$90,918	\$90,918
Pipeline Section 17		\$109,944,000	\$48,500,000	\$49,561,669
IPL Partners	Construction of Section 17 Tunnel	\$12,252,000	\$48,500,000	\$49,561,669
Thalle Midlothian	Construction of Sections 17/18/JB2 Bypass	\$97,692,000	\$0	\$0
CAS Consulting	Design 17, 19 Tunnels		\$3,341,651	\$1,146,297
Freese and Nichols	Construction Management 17,19, JCC1		\$3,771,901	\$1,488,984
JCC1		\$106,582,000	\$105,875,879	\$104,460,848
BAR Constructors	Construction of JCC1 Intake	\$21,564,000	\$18,960,214	\$18,960,214
BAR Constructors	Intake Facility & OFE Installation Package 2	\$63,900,000	\$63,690,600	\$63,393,202
Ebara	Construction of JCC1 Pumps, Motors, Drives	\$17,775,000	\$12,694,890	\$11,680,768
Lambda Construction	High Voltage		\$5,773,925	\$5,670,414
Oncor Electric	Construction of JCC1 HV Transmission Lines	\$3,343,000	\$4,756,250	\$4,756,250
Shermco Industries, Inc.	JCC1 and JCC1HV Electrical Testing Services		\$618,000	\$480,593
Pipeline Section 10/11		\$73,679,000	\$55,545,934	\$55,903,957
IPL Partners	Construction of Section 10/11	\$72,362,000	\$42,022,945	\$42,380,969
Oncor Electric	Construction of KBR S1X10 HV Transmission Lines		\$17,452	\$17,452
BAR Constructors	Construction of KBR S1X10	\$1,317,000	\$13,505,537	\$13,505,536
Valve Packages		\$15,166,000	\$14,306,294	\$13,957,412
Garney Construction	Valve Package 1 - Section 15-1 Butterfly Valves	\$518,000	\$0	\$0
Rodney Hunt	Valve Package 2 - Section 15-1 Interconnection Facility Valves	\$474,000	\$733,206	\$733,206
Blackhall Engineering	Valve Package 3 - JB3, Section 15-2, MBR Yard Gate Valves	\$5,500,000	\$6,278,388	\$6,228,595
Crispin Valves	Valve Package 4 - Section 12 RC/CC Interconnection, JB4 Bypass, MBR Yard Butterfly Valves	\$3,999,000	\$2,269,140	\$2,191,128
Crispin Valves	Valve Package 5 - JB3 Butterfly Valves	\$1,249,000	\$1,249,222	\$1,175,870
Ross Valves	Valve Package 6 - Section 12 RC/CC Interconnection Multi-Orifice Valves	\$715,000	\$526,340	\$478,838
Crispin Valves	Valve Package 8 - Section 10 & 11 Bypass Butterfly Valves	\$1,391,000	\$1,461,040	\$1,393,968
Blackhall Engineering	Valve Package 11 - JCC1 Gate Valve	\$1,320,000	\$1,788,958	\$1,755,807
Remaining		\$507,603,000		
CONSTRUCTION MANAGEMENT		\$65,170,000	\$55,044,680	\$50,957,552
Completed		\$15,777,000	\$15,747,552	\$15,747,553
Active		\$17,665,000	\$39,297,128	\$35,209,999
Remaining		\$31,728,000		
CONSTRUCTION MATERIALS TESTING		\$17,296,000	\$13,161,251	\$10,695,901
Completed		\$203,000	\$225,133	\$225,132
Active		\$7,791,000	\$12,936,118	\$10,470,769
Remaining		\$9,302,000		
ROCI		\$2,575,000	\$42,013,560	\$23,117,815
LAND COST		\$107,384,000	\$78,532,928	\$78,532,928
PROGRAM LEVEL CONTINGENCY		\$83,178,000		
MISCELLANEOUS		\$2,000,000	\$3,903,305	\$3,903,305
GRAND TOTAL		\$2,341,919,000	\$1,143,000,745	\$1,089,359,950
REMAINING BOND FUNDS				\$412,666,552

Note: Total Bonds issued to date \$1,502,026,502

ACCOMPLISHMENTS

through 06.30.2022

IPL PROGRAM GENERAL OPERATIONAL STATUS

The IPL System is currently able to deliver water from Richland Chambers Reservoir to the cross-connections with the existing Richland Chambers and Cedar Creek pipelines at the S2X12 Interconnect Facility near Joe Pool Lake and the future DWU connection point. The IPL System is also able to deliver water to the Arlington Outlet via the S1X10 Pressure Reduction Station, the KBR Bypass pipeline and the Line J Pipeline. Water can be delivered via the IPL system and the existing pipelines to the Rolling Hills Water Treatment Plant and to Lake Benbrook.

The IPL pipelines and facilities that have been completed to accomplish this delivery are:

- S5X15 Interconnect
- Pipeline Sections 15-1 and 15-2
- JB3R Suction Reservoir
- JB3 Booster Pump Station
- Pipeline Section 14
- Midlothian Balancing Reservoir
- Pipeline Sections 12 and 13
- S2X12 Interconnect Facility
- Pipeline Sections 10 and 11
- S1X10 Pressure Reduction Station



On May 20, 2022, TRWD hosted the grand opening of JB3 — a celebration honoring the people that have made this project a reality.

CURRENT PROJECT UPDATES

PL17TUN (Trinity River Tunnel on Pipeline Section 17)

- Completed grading and seeding of ROW.

JCC1 (Cedar Creek Lake Pump Station)

- Completed the 30-day run test on Pumps 3-7.
- Developed pump curves from NaOH, NaOCl and LAS chemical feeds.
- Initial startup of OSHG generators was completed.
- TRWD Security installed and activated access badge readers on all doors.
- Completing work items on Preliminary List of Deficiencies.

PL19TX (Tunnels at TxDOT Roadway Crossings for Pipeline Sections 19-1 & 19-2)

- Completed tunnel excavation and began 84" pipe installation at US175.
- Completed open-cut pipe installation at SH 19
- Continued to dewater launch and retrieval shaft locations at FM 2588
- Began tunnel excavation at FM1305.
- Completed installation of permanent culverts and access drives at Crossroads, SH19, and FM1615.
- Completed launch and retrieval shafts at FM315 tunnel.
- Performing ROW restoration and installation of permanent fences and gates at Crossroads, FM59, SH19 and FM1615 and FM753.

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

- Cedar Creek Tunnel
 - » Cleared ROW and developed portal site with flexbase.
 - » Cleared and constructed temporary access drive to League Line Road.
 - » Began drilling soldier piles for portal excavation.
- League Line Road Tunnel
 - » Cleared ROW and trimmed trees.
 - » Began placement of flexbase around northern end of City Lake.
- Hollywood Lake Tunnel
 - » ROW cleared and temporary access drive constructed on east side of FM753 towards east portal site.
- Royall Blvd Tunnel
 - » ROW cleared from Royall Blvd toward east portal of Stream A and toward Lovers Lane.
- SH31 Access Drive
 - » Access drive completed and ROW cleared towards east portal of Cedar Creek tunnel and west shaft of Stream A tunnel.
- ROW
 - » Clearing from PL17/18 toward west portal of Cedar Creek tunnel.
 - » Temporary access drive and high fence installed at Forehand Road into 4WS Ranch Property.
 - » Pond on ROW at 4WS ranch drained and being backfilled.

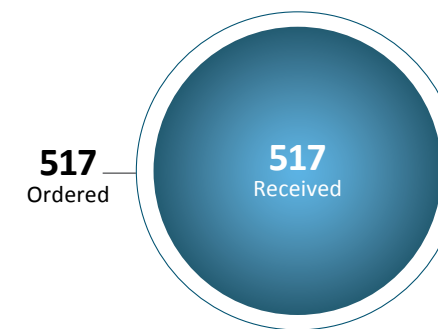
PROJECT SCHEDULE

PROJECT COMPONENTS	2022				2023				2024				2025			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
JCC1 CONSTRUCTION	[Progress bar showing completion through Q4 2022]															
PL17TUN CONSTRUCTION	[Progress bar showing completion through Q4 2022]															
PL19TX CONSTRUCTION	[Progress bar showing completion through Q3 2023]															
PL19TUN CONSTRUCTION	[Progress bar showing completion through Q4 2023]															

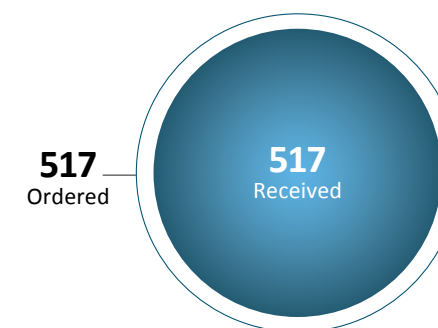
ACTIVITY STATUS

through 06.30.2022

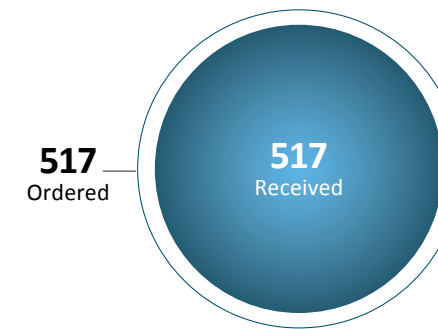
TITLE COMMITMENTS



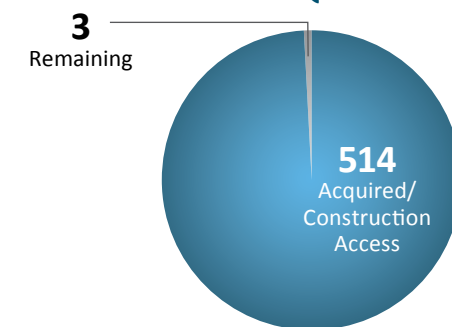
SURVEYS



APPRAISALS



LAND ACQUISITION



Total Parent Parcels: 517



PL19TUN Installing Soldier Piles at Cedar Creek West Portal



PL19TX Tunnel Excavation at FM1305



PL19TX US175 Steel Casing Tunnel