



# INTEGRATED PIPELINE PROJECT

## MONTHLY EXECUTIVE SUMMARY

December 2019



*S1X10 Aerial photo from  
October 2019*

### 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

as of 11.30.19

| CONTRACT DESIGN AND CONSTRUCTION                      | DESCRIPTION  | BUDGET                 | CONTRACTS ISSUED     | TOTAL INVOICED       |
|---|--|------------------------|----------------------|----------------------|
| <b>PROGRAM WIDE PROFESSIONAL SERVICES</b>             |  | <b>\$133,062,000</b>   | <b>\$88,687,926</b>  | <b>\$85,152,851</b>  |
| <b>Program Management</b>                             | Overall program management services for implementation of the IPL Project. (Extension of TRWD staff) | \$45,000,000           | \$35,124,711         | \$35,124,711         |
| <b>Conceptual Design / Environmental / Permitting</b> | Operations plan & Prepare 404 permit application, Envision Application Completion                    | \$13,551,000           | \$13,194,525         | \$13,248,699         |
| <b>Value Engineering</b>                              | Expert review of design  | \$640,000              | \$472,248            | \$472,248            |
| <b>Surveying and Mapping</b>                          | Control, property survey, legal descriptions, and Provide SUE Level A Survey, GIS                    | \$14,600,000           | \$11,854,388         | \$10,652,812         |
| <b>Geotechnical</b>                                   | Initial Characterization of entire IPL Project   | \$12,037,000           | \$12,336,425         | \$12,195,421         |
| <b>Corrosion Engineering Services</b>                 | Engineering Corrosion Control  | \$3,891,000            | \$5,326,362          | \$4,292,969          |
| <b>Land, Easement Acquisition, &amp; Support</b>      | Right of Entry and Land Acquisition Support Services   | \$33,993,000           | \$3,464,526          | \$3,432,516          |
| <b>Studies</b>  |  | \$3,500,000            | \$3,883,743          | \$3,587,584          |
| <b>SCADA System</b>                                   | Engineering of SCADA system  | \$640,000              | \$1,508,213          | \$677,281            |
| <b>Microwave System</b>                               | Engineering of Communications System   | \$5,210,000            | \$1,522,785          | \$1,468,609          |
| <b>DESIGN</b>   |  | <b>\$152,837,000</b>   | <b>\$133,869,306</b> | <b>\$124,269,928</b> |
| <b>Completed</b>                                      |  | <b>\$101,901,000</b>   | <b>\$97,470,103</b>  | <b>\$99,650,358</b>  |
| <b>Active</b>   |  | <b>\$24,158,000</b>    | <b>\$35,860,787</b>  | <b>\$24,619,570</b>  |
| <b>CH2M Hill</b>                                      | Project Operational Information and Operations Manual  |                        | \$6,479,844          | \$4,495,446          |
| <b>CH2M Hill</b>                                      | Final Conformance of Design of JCC1  | \$728,000              | \$3,377,790          | \$3,123,474          |
| <b>MWH</b>  | Final Conformance of Design of Section 9/10/11   | \$506,000              | \$812,562            | \$555,735            |
| <b>Black &amp; Veatch</b>                             | Final Design of Section 12/13/14 - 28.1 miles of 84 - inch and 108 - inch pipeline                   | \$11,292,000           | \$9,712,410          | \$9,700,648          |
| <b>Parsons</b>  | Final Conformance of Design of Sections 17/18/Tunnel   | \$832,000              | \$579,379            | \$681,545            |
| <b>Brown &amp; Gay</b>                                | Final Design of Section 19-1   | \$5,770,000            | \$7,003,722          | \$2,015,867          |
| <b>HDR</b>  | Final Design of Section 19-2   | \$5,030,000            | \$6,989,876          | \$3,180,212          |
| <b>Burns &amp; McDonnell Trans. Mgmt.</b>             | Development of Transportation Management Plan  |                        | \$905,203            | \$866,643            |
| <b>Remaining</b>                                      |  | <b>\$26,778,000</b>    | <b>\$538,417</b>     |                      |
| <b>CONSTRUCTION ADMINISTRATION</b>                    |  | <b>\$48,877,000</b>    | <b>\$18,550,960</b>  | <b>\$13,265,550</b>  |
| <b>CONSTRUCTION / OWNER FURNISHED EQUIPMENT</b>       |  | <b>\$1,729,540,000</b> | <b>\$713,896,290</b> | <b>\$653,316,815</b> |
| <b>Completed</b>                                      |  | <b>\$26,677,000</b>    | <b>\$20,593,942</b>  | <b>\$20,377,238</b>  |
| <b>Active</b>   |  | <b>\$875,818,000</b>   | <b>\$693,302,348</b> | <b>\$632,939,577</b> |
| <b>Pipeline Section 15-1</b>                          |  | <b>\$115,112,000</b>   | <b>\$93,687,256</b>  | <b>\$93,687,256</b>  |
| <b>Garney Construction</b>                            | Construction of Section 15-1   | \$115,112,000          | \$93,687,256         | \$93,687,256         |
| <b>JB3</b>  |  | <b>\$83,013,000</b>    | <b>\$75,736,958</b>  | <b>\$71,030,518</b>  |
| <b>MWH Constructors</b>                               | Construction of JB3 Pump Station   | \$51,473,000           | \$57,995,805         | \$56,522,095         |
| <b>Oncor Electric</b>                                 | Installation of JB3 Substation Transmission Lines  | \$1,066,000            | \$957,119            | \$923,119            |
| <b>Isolux Corsan</b>                                  | Construction of JB3 Substation   | \$7,400,000            | \$4,864,888          | \$4,864,888          |
| <b>R E Monks</b>                                      | Construction of JB3R Restoration   | \$0                    | \$633,263            | \$633,263            |
| <b>Pentair Flow Technologies</b>                      | Construction of JB3 Pumps, Motors, Drives  | \$23,074,000           | \$11,285,883         | \$8,087,153          |
| <b>Pipeline Section 12/13/MBR/IB4 Bypass</b>          |  | <b>\$167,992,000</b>   | <b>\$153,924,053</b> | <b>\$153,532,318</b> |
| <b>Thalle Midlothian</b>                              | Construction of Sections 12/13/MBR/IB4 Bypass  | \$146,310,000          | \$143,614,761        | \$143,230,542        |
| <b>BAR Constructors</b>                               | Construction of Richland-Chambers/Cedar Creek Interconnection Facility                               | \$21,682,000           | \$10,185,063         | \$10,177,546         |
| <b>Hilco Electric</b>                                 | Relocation of Electrical Service Lines   |                        | \$0                  | \$0                  |
| <b>Hilco Electric</b>                                 | MBR Radio Tower Power  |                        | \$33,312             | \$33,312             |
| <b>Oncor Electric</b>                                 | Provide Power to IPL 2X12  |                        | \$90,918             | \$90,918             |

# PROGRAM SUPPORT SERVICES

as of 11.30.19

| CONTRACT DESIGN AND CONSTRUCTION      | DESCRIPTION   | BUDGET                 | CONTRACTS ISSUED       | TOTAL INVOICED         |
|---------------------------------------|---|------------------------|------------------------|------------------------|
| <b>Pipeline Section 15-2</b>          |   | <b>\$97,217,000</b>    | <b>\$50,743,593</b>    | <b>\$50,743,593</b>    |
| <b>BAR Constructors</b>               | Construction of Section 15-2  | \$97,217,000           | \$50,743,593           | \$50,743,593           |
| <b>Pipeline Section 14</b>            |   | <b>\$107,113,000</b>   | <b>\$47,130,639</b>    | <b>\$47,130,639</b>    |
| <b>Garney Construction</b>            | Construction of Section 14  | \$107,113,000          | \$47,080,639           | \$47,080,639           |
| <b>Magellan</b>                       | Captioned Crossing Inspection Section 14  | \$0                    | \$50,000               | \$50,000               |
| <b>Pipeline Section 17</b>            |   | <b>\$109,944,000</b>   | <b>\$94,327,511</b>    | <b>\$77,779,908</b>    |
| <b>IPL Partners</b>                   | Construction of Section 17 Tunnel   | \$12,252,000           | \$48,500,000           | \$34,944,657           |
| <b>Thalle Midlothian</b>              | Construction of Sections 17/18/IB2 Bypass   | \$97,692,000           | \$45,827,511           | \$42,835,251           |
| <b>JCC1</b>                           |   | <b>\$106,582,000</b>   | <b>\$105,610,934</b>   | <b>\$68,772,122</b>    |
| <b>BAR Constructors</b>               | Construction of JCC1 Intake   | \$21,564,000           | \$18,960,214           | \$18,960,214           |
| <b>BAR Constructors</b>               | Intake Facility & OFE Installation Package 2  | \$63,900,000           | \$63,374,755           | \$33,841,915           |
| <b>Ebara</b>                          | Construction of JCC1 Pumps, Motors, Drives  | \$17,775,000           | \$12,694,890           | \$5,902,071            |
| <b>Lambda Construction</b>            | High Voltage  |                        | \$5,824,825            | \$5,311,672            |
| <b>Oncor Electric</b>                 | Construction of JCC1 HV Transmission Lines  | \$3,343,000            | \$4,756,250            | \$4,756,250            |
| <b>Pipeline Section 10/11</b>         |   | <b>\$73,679,000</b>    | <b>\$57,835,110</b>    | <b>\$56,514,314</b>    |
| <b>IPL Partners</b>                   | Construction of Section 10/11   | \$72,362,000           | \$43,815,594           | \$41,716,801           |
| <b>Oncor Electric</b>                 | Construction of KBR S1X10 HV Transmission Lines   |                        | \$34,905               | \$34,905               |
| <b>BAR Constructors</b>               | Construction of KBR S1X10   | \$1,317,000            | \$13,984,611           | \$14,762,609           |
| <b>Valve Packages</b>                 |   | <b>\$15,166,000</b>    | <b>\$14,306,294</b>    | <b>\$13,748,908</b>    |
| <b>Garney Construction</b>            | Valve Package 1 - Section 15-1 Butterfly Valves   | \$518,000              | \$0                    | \$0                    |
| <b>Rodney Hunt</b>                    | Valve Package 2 - Section 15-1 Interconnection Facility Valves                            | \$474,000              | \$733,206              | \$733,206              |
| <b>Blackhall Engineering</b>          | Valve Package 3 - JB3, Section 15-2, MBR Yard Gate Valves                                 | \$5,500,000            | \$6,278,388            | \$6,228,595            |
| <b>Crispin Valves</b>                 | Valve Package 4 - Section 12 RC/CC Interconnection, JB4 Bypass, MBR Yard Butterfly Valves | \$3,999,000            | \$2,269,140            | \$2,187,448            |
| <b>Crispin Valves</b>                 | Valve Package 5 - JB3 Butterfly Valves  | \$1,249,000            | \$1,249,222            | \$1,039,098            |
| <b>Ross Valves</b>                    | Valve Package 6 - Section 12 RC/CC Interconnection Multi-Orifice Valves                   | \$715,000              | \$526,340              | \$478,838              |
| <b>Crispin Valves</b>                 | Valve Package 8 - Section 10 & 11 Bypass Butterfly Valves                                 | \$1,391,000            | \$1,461,040            | \$1,325,916            |
| <b>Blackhall Engineering</b>          | Valve Package 11 - JCC1 Gate Valve  | \$1,320,000            | \$1,788,958            | \$1,755,807            |
| <b>Remaining</b>                      |   | <b>\$827,045,000</b>   |                        |                        |
| <b>CONSTRUCTION MANAGEMENT</b>        |   | <b>\$65,170,000</b>    | <b>\$51,849,779</b>    | <b>\$44,975,144</b>    |
| <b>Completed</b>                      |   | <b>\$15,777,000</b>    | <b>\$15,687,599</b>    | <b>\$19,747,512</b>    |
| <b>Active</b>                         |   | <b>\$17,665,000</b>    | <b>\$36,162,180</b>    | <b>\$25,227,632</b>    |
| <b>Remaining</b>                      |   | <b>\$31,728,000</b>    |                        |                        |
| <b>CONSTRUCTION MATERIALS TESTING</b> |   | <b>\$17,296,000</b>    | <b>\$12,489,841</b>    | <b>\$9,219,787</b>     |
| <b>Completed</b>                      |   | <b>\$203,000</b>       | <b>\$225,133</b>       | <b>\$225,132</b>       |
| <b>Active</b>                         |   | <b>\$7,791,000</b>     | <b>\$12,264,708</b>    | <b>\$8,994,655</b>     |
| <b>Remaining</b>                      |   | <b>\$9,302,000</b>     |                        |                        |
| <b>ROCIP</b>                          |   | <b>\$2,575,000</b>     | <b>\$31,847,084</b>    | <b>\$21,977,437</b>    |
| <b>LAND COST</b>                      |   | <b>\$107,384,000</b>   | <b>\$72,735,391</b>    | <b>\$72,735,391</b>    |
| <b>PROGRAM LEVEL CONTINGENCY</b>      |   | <b>\$83,178,000</b>    |                        |                        |
| <b>MISCELLANEOUS</b>                  |   | <b>\$2,000,000</b>     | <b>\$2,219,080</b>     | <b>\$2,219,080</b>     |
| <b>GRAND TOTAL</b>                    |   | <b>\$2,341,919,000</b> | <b>\$1,126,145,657</b> | <b>\$1,027,131,982</b> |
| <b>REMAINING BOND FUNDS</b>           |   |                        |                        | <b>\$222,868,018</b>   |

Note: Total Bonds issued to date \$1,250,000,000

# ACCOMPLISHMENTS

through 12.31.19

## 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.

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

## CURRENT PROJECT UPDATES

**PL12, 13, MBR** (Pipeline Sections 12 and 13 combined with the Midlothian Balancing Reservoir)

- Project is Substantially Complete and operational.

**JB3** (250mgd Pump Station expandable to 350mgd)

- Project is Substantially Complete and operational.

**PL14** (Pipeline Section 14 that delivers water from JB3 Pump Station to MBR)

- Project is Substantially Complete and operational.

**PL17TUN** (Trinity River Tunnel on Pipeline Section 17)

- A total of 1,938' of the tunnel is complete.
- Performing grout injection for soil stabilization ahead of tunneling operation.

**JCC1HV** (High Voltage Substation for the JCC1 Pump Station at Cedar Creek)

- Oncon completed and energized Mankin Switching Station and the power feeders to JCC1HV.
- Contractor is performing monthly maintenance checks until substation is energized.

**JCC1** (Cedar Creek Lake Pump Station)

- Installed 6 of 7 vertical turbine pumps with installation checks by pump manufacturer's factory representatives.
- Installing pump discharge piping and completed 108" yard piping.
- Commissioned and load tested the bridge crane.

- Completed installation of structural steel, precast wall panels and metal decking at Pump Station, Chemical Building, Storage Building and Water Treatment Building.
- Installed rigid insulation and waterproofing on Pump Station roof.
- Installing HVAC equipment and ductwork throughout the project.
- Installed VFDs and continued installation of electrical ductbanks and manholes.
- Continued site paving around Pump Station and Electrical Room

**PL10, 11** (Pipeline Sections 10 and 11 from the JB4 Pump Station to the KBR Pressure Reduction Facility)

- Project is Substantially Complete and operational

**PL17-18** (Pipeline Sections 17 and 18 from east end of PL15-1 to JCC1 Pump Station)

- Continued installing ROW fences, gates and cable mats.
- Fine grading ROW and seeded with winter grass mix.

**KBRPRS / S1X10** (Pressure Reduction Station at Kennedale Balancing Reservoir connecting Pipeline Section 10)

- Project is Substantially Complete and operational.

**OFE09** (Owner Furnished pumps, motors and variable frequency drives for JCC1)

- All factory tests have been completed and equipment is currently being installed at the project site.



PL1718 Installing turf mat at creek crossing

**OFE11** (Owner-Furnished 108" Gate Valve)

- Final gate valve is on site at JCC1 Pump Station.

**PL19-1 AND PL19-2** (Pipeline Sections from Lake Palestine to PL17-18 connection)

- Acquisition and topographic surveys are ongoing for re-route areas.
- Geotechnical work is ongoing at TXDOT tunnel crossing locations.

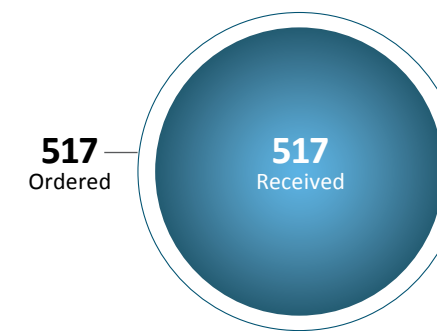
# PROJECT SCHEDULE

| PROJECT COMPONENTS                             | 2018 |    |    |    | 2019 |    |    |    | 2020 |    |    |    |
|--|------|----|----|----|------|----|----|----|------|----|----|----|
|  | Q1   | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 |
| SECTION 17 TUNNEL CONSTRUCTION                 |      |    |    |    |      |    |    |    |      |    |    |    |
| JCC1 PUMP STATION INTAKE WET WELL CONSTRUCTION |      |    |    |    |      |    |    |    |      |    |    |    |
| SECTION 17, 18 CONSTRUCTION                    |      |    |    |    |      |    |    |    |      |    |    |    |
| JCC1 HIGH VOLTAGE SUBSTATION CONSTRUCTION      |      |    |    |    |      |    |    |    |      |    |    |    |
| JCC1 CONSTRUCTION                              |      |    |    |    |      |    |    |    |      |    |    |    |

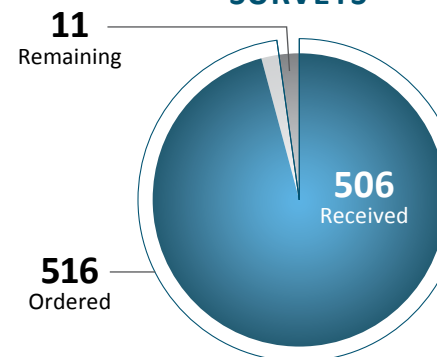
# ACTIVITY STATUS

through 12.31.19

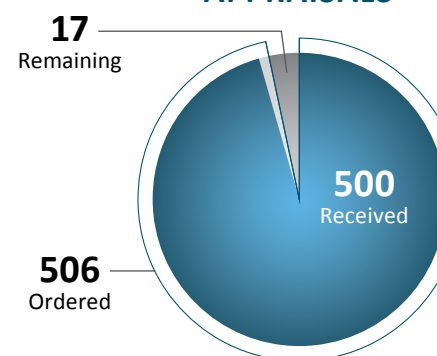
## TITLE COMMITMENTS



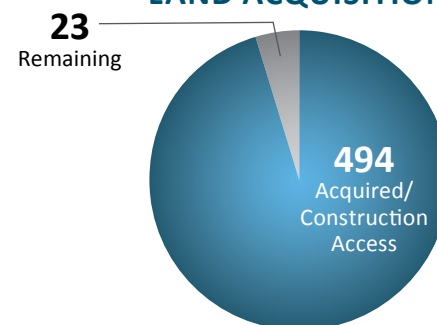
## SURVEYS



## APPRAISALS



## LAND ACQUISITION



Total Parent Parcels: 517



JCC1 Pump Motor Stands



PL17TUN Pre-grouting for soil stabilization



JCC1 Roof installation progress

# M/WBE PARTICIPATION

as of 11.30.19

| CONTRACT DESIGN AND CONSTRUCTION                | M/WBE & HUB SUB-CONTRACTORS   | CONTRACT COMMITMENT |     | M/WBE   HUB INVOICED TO DATE |                    | TOTAL PROJECT COMPLETED TO DATE |      |
|---|---|---------------------|-----|------------------------------|--------------------|---------------------------------|------|
|   |   | \$                  | %   | \$                           | % (PER COMMITMENT) | \$                              | %    |
| <b>PROGRAM WIDE PROFESSIONAL SERVICES</b>       |   | \$20,122,412        | 23% | \$20,030,887                 | 100%               | \$85,152,851                    | 96%  |
| Program Management                              |   | \$6,636,687         | 19% | \$6,636,687                  | 100%               | \$35,124,711                    | 100% |
| Conceptual Design / Environmental / Permitting  |   | \$2,644,586         | 20% | \$2,827,564                  | 107%               | \$13,248,699                    | 100% |
| Value Engineering                               |   | \$23,178            | 5%  | \$23,178                     | 100%               | \$472,248                       | 100% |
| Surveying and Mapping                           |   | \$3,939,403         | 33% | \$3,863,616                  | 98%                | \$10,652,812                    | 90%  |
| Geotechnical                                    |   | \$3,638,078         | 29% | \$3,545,033                  | 97%                | \$12,195,421                    | 99%  |
| Corrosion Engineering Services                  |   | \$1,053,764         | 20% | \$761,434                    | 72%                | \$4,292,969                     | 81%  |
| Land, Easement Acquisition, & Support           |   | \$1,294,837         | 37% | \$1,838,072                  | 142%               | \$3,432,516                     | 99%  |
| Studies   |   | \$41,717            | 1%  | \$41,717                     | 100%               | \$3,587,584                     | 92%  |
| SCADA System                                    |   | \$384,444           | 25% | \$43,932                     | 11%                | \$677,281                       | 45%  |
| Microwave System                                |   | \$465,719           | 31% | \$449,653                    | 97%                | \$1,468,609                     | 96%  |
| <b>DESIGN</b>                                   |   | \$35,085,309        | 26% | \$33,411,439                 | 95%                | \$124,269,928                   | 93%  |
| Completed                                       |   | \$26,558,396        | 27% | \$27,450,395                 | 103%               | \$99,650,358                    | 102% |
| Active  |   | \$8,526,913         | 24% | \$5,961,044                  | 70%                | \$24,619,570                    | 69%  |
| CH2M Hill (Ops Manual)                          | NDM   | \$1,063,611         | 16% | \$685,703                    | 64%                | \$4,495,446                     | 69%  |
| CH2M Hill (JCC1)                                | JQ, Gupta, APM, HVJ, XENCO  | \$1,005,323         | 30% | \$1,165,809                  | 116%               | \$3,123,474                     | 92%  |
| MWH   | Garzabury, Kevin Sloan  | \$226,705           | 28% | \$136,372                    | 60%                | \$555,735                       | 68%  |
| Black & Veatch                                  | BDS, CAS, JQ, TME   | \$2,425,530         | 25% | \$2,583,711                  | 107%               | \$9,700,648                     | 100% |
| Parsons   | Criado, EPB, HVJ  | \$144,845           | 25% | \$112,357                    | 78%                | \$681,545                       | 118% |
| Brown & Gay                                     | AZB, TME, Lamb-Star, NDM  | \$1,750,930         | 25% | \$516,093                    | 29%                | \$2,015,867                     | 29%  |
| HDR   | AZB, Daltech, Word Wizards, Gupta   | \$1,747,469         | 25% | \$639,501                    | 37%                | \$3,180,212                     | 45%  |
| Burns & McDonnell Trans. Mgmt.                  | Lamb-Star Engineering   | \$162,500           | 18% | \$121,498                    | 75%                | \$866,643                       | 96%  |
| Remaining                                       |   | \$0                 | 0%  | \$0                          | 0                  | \$0                             | 0%   |
| <b>CONSTRUCTION ADMINISTRATION</b>              |   | \$4,533,900         | 24% | \$2,998,000                  | 66%                | \$13,265,550                    | 72%  |
| <b>CONSTRUCTION / OWNER FURNISHED EQUIPMENT</b> |   | \$86,202,724        | 12% | \$149,181,545                | 173%               | \$653,316,815                   | 92%  |
| Completed                                       |   | \$4,217,818         | 21% | \$4,091,050                  | 97%                | \$20,377,238                    | 99%  |
| Active  |   | \$81,984,907        | 19% | \$145,090,495                | 177%               | \$632,939,577                   | 91%  |
| Pipeline Section 15-1                           |   | \$9,317,301         | 29% | \$6,649,736                  | 71%                | \$93,687,256                    | 100% |
| Garney Construction                             | Danridge, SYB, Ricochet, Glenko, Carrasco, Cowboy, Gorrondona, Custom Fence, LKT, Astro Johnny, Pam, Father & Son, Bowden's Erosion | \$9,317,301         | 29% | \$6,649,736                  | 71%                | \$93,687,256                    | 100% |
| JB3   |   | \$15,259,759        | 26% | \$12,849,193                 | 84%                | \$71,030,518                    | 94%  |
| MWH Constructors                                | Statewide, Cowboy, TX Enviro, Champion, Ram Tool, Rent-a-Fence, Soto Steel, A-Star, Ike, Greystone, LKT, Accurate, Green Scaping    | \$13,809,839        | 27% | \$11,399,273                 | 83%                | \$56,522,095                    | 97%  |
| Oncor Electric                                  |   | \$1,449,920         | 3%  | \$1,449,920                  | 100%               | \$4,864,888                     | 8%   |
| Isolux Corsan                                   | Dyna Grid   | \$0                 | 0%  | \$0                          | 0%                 | \$923,119                       | 96%  |
| RE Monks  |   | \$0                 | 0%  | \$0                          | 0%                 | \$633,263                       | 13%  |
| Pentair Flow Technologies                       |   | \$0                 | 0%  | \$0                          | 0%                 | \$8,087,153                     | 72%  |
| Pipeline Section 12/13/MBR/JB4 Bypass           |   | \$22,074,476        | 24% | \$22,270,125                 | 101%               | \$153,532,318                   | 100% |
| Thalle Midlothian                               | LKT, Statewide, Granados, Desert Steel, ETTL, Glenko, A.N.A., Edwards, Buzz, Bradley-Douglas, Pinnacle                              | \$21,260,756        | 27% | \$16,449,587                 | 77%                | \$143,230,542                   | 100% |
| BAR Constructors                                | Fraire's, DFW Aggregates, Ricochet, MMG, LKT, Brock, Garland Heating & Air, Texas Metal, Buzz, Rangel                               | \$813,719           | 8%  | \$5,820,538                  | 715%               | \$10,177,546                    | 100% |

# M/WBE PARTICIPATION

as of 11.30.19

| CONTRACT DESIGN AND CONSTRUCTION      | M/WBE & HUB SUB-CONTRACTORS  | CONTRACT COMMITMENT   |      | M/WBE   HUB INVOICED TO DATE |                    | TOTAL PROJECT COMPLETED TO DATE |      |
|---------------------------------------|--|-----------------------|------|------------------------------|--------------------|---------------------------------|------|
|                                       |  | \$                    | %    | \$                           | % (PER COMMITMENT) | \$                              | %    |
| Hilco Electric                        |  | \$0                   | 0%   | \$0                          | 0%                 | \$0                             | 0%   |
| Hilco Electric                        |  | \$0                   | 0%   | \$0                          | 0%                 | \$33,312                        | 100% |
| Oncor Electric                        |  | \$0                   | 0%   | \$0                          | 0%                 | \$90,918                        | 100% |
| Pipeline Section 15-2                 |  | \$3,947,329           | 16%  | \$20,981,334                 | 532%               | \$50,743,593                    | 100% |
| BAR Constructors                      | Ricochet, Fraire's, DFW Aggregates, Brock, Tidy Toilets, KDAT, Juan Cantu, Buyer's, RAM, Rangel, LKT, Greenscaping, Environmental Safety | \$3,947,329           | 16%  | \$20,981,334                 | 532%               | \$50,743,593                    | 100% |
| Pipeline Section 14                   |  | \$5,925,447           | 22%  | \$6,957,922                  | 117%               | \$47,130,639                    | 100% |
| Garney Construction                   | AEA, Gorrondona, JC Welding, LKT, Statewide, Bowdens   | \$5,925,447           | 29%  | \$6,957,922                  | 117%               | \$47,080,639                    | 100% |
| Magellan                              | Captioned Crossing Inspection Section 14   | \$0                   | 0%   | \$0                          | 0%                 | \$50,000                        | 100% |
| Pipeline Section 17                   |  | \$15,157,296          | 23%  | \$4,995,893                  | 33%                | \$77,779,908                    | 82%  |
| IPL Partners                          | LKT, Industry Junction, Eagle Aggregate, Suncoast Res, ATS Drilling, RECS, ANA, Alliance, Ram, JC Welding, Luis Moreno                   | \$9,736,346           | 23%  | \$2,305,387                  | 24%                | \$34,944,657                    | 72%  |
| Thalle Midlothian                     | Fleet Lube, Rambo Controls, AE Trucking, MKI Construction, Stome Water Management, Industry Junction, Ortega Land Clearing               | \$5,420,950           | 24%  | \$2,690,506                  | 50%                | \$42,835,251                    | 93%  |
| JCC1                                  |  | \$3,088,051           | 3%   | \$52,775,011                 | 1709%              | \$68,772,122                    | 65%  |
| BAR Constructors                      | Industry Junction, K&A Steel, Ricochet Fuel, Ricochet Fuel, Tidy Toilets, Buzz Custom Fence  | \$961,990             | 6%   | \$18,008,980                 | 1872%              | \$18,960,214                    | 100% |
| BAR Constructors                      | Industry Junction, K&A Steel, Ricochet Fuel, Ricochet Fuel, Tidy Toilets   | \$0                   | 0%   | \$33,841,915                 | 0%                 | \$33,841,915                    | 53%  |
| Ebara                                 |  | \$0                   | 0%   | \$0                          | 0%                 | \$5,902,071                     | 101% |
| Lambda Construction                   | High Voltage   | \$2,126,061           | 37%  | \$924,115                    | 43%                | \$5,311,672                     | 91%  |
| Oncor Electric                        |  | \$0                   | 0%   | \$0                          | 0%                 | \$4,756,250                     | 100% |
| Pipeline Section 10/11                |  | \$7,215,248           | 20%  | \$17,611,281                 | 244%               | \$56,514,314                    | 98%  |
| IPL Partners                          | LKT, Industry Junction, Eagle Aggregate, Suncoast Res, ATS Drilling, RECS, ANA, Alliance, Ram, JC Welding, Luis Moreno                   | \$5,761,202           | 24%  | \$2,848,672                  | 49%                | \$41,716,801                    | 95%  |
| Oncor Electric                        |  | \$0                   | 0%   | \$0                          | 0%                 | \$34,905                        | 100% |
| BAR Constructors                      | Industry Junction, VSG Trucking, Ricochet, MMG Disposal, Garland HVAC, CMC Rebar, Buzz Custom Fence, K&A Steel, Rangle Land Surveying    | \$1,454,046           | 11%  | \$14,762,609                 | 1015%              | \$14,762,609                    | 106% |
| Valve Packages                        |  | \$0                   | 0%   | \$0                          | 0%                 | \$13,748,908                    | 96%  |
| <b>CONSTRUCTION MANAGEMENT</b>        |  | \$19,155,809          | 37%  | \$17,329,542                 | 90%                | \$44,975,144                    | 87%  |
| Completed                             |  | \$5,928,803           | 38%  | \$6,436,285                  | 109%               | \$19,747,512                    | 126% |
| Active                                |  | \$13,227,006          | 37%  | \$10,893,257                 | 82%                | \$25,227,632                    | 70%  |
| <b>CONSTRUCTION MATERIALS TESTING</b> |  | \$7,129,451           | 57%  | \$5,425,036                  | 76%                | \$9,219,787                     | 74%  |
| Completed                             |  | \$219,036             | 97%  | \$219,036                    | 100%               | \$225,132                       | 100% |
| Active                                |  | \$6,910,415           | 56%  | \$5,206,000                  | 75%                | \$8,994,655                     | 73%  |
| ROCIP                                 |  | \$900,661             | 3%   | \$370,813                    | 41%                | \$21,977,437                    | 69%  |
| <b>TOTAL</b>                          |  | \$173,130,266         | 22%  | \$228,747,263                | 132%               | \$952,177,511                   | 91%  |
| <b>LAND COST</b>                      |  | \$0                   | 0%   | \$61,892                     | 0%                 | \$72,735,391                    | 228% |
| <b>MISCELLANEOUS</b>                  |  | \$0                   | 0%   | \$0                          | 0%                 | \$2,219,080                     | 3%   |
| <b>GRAND TOTAL</b>                    |  | \$173,130,266         | 22%* | \$228,809,155                | 132%               | \$1,027,131,982                 | 91%  |
|                                       |  | M/WBE/HUB Invoiced    |      |                              |                    | \$228,809,155                   |      |
|                                       |  | Grand Total Invoiced  |      |                              |                    | \$1,027,131,982                 |      |
|                                       |  | * Exclusions Invoiced |      |                              |                    | \$273,169,145                   |      |
|                                       |  | MWBE %                |      |                              |                    | 30.35%                          |      |

\* Denotes participation percentage excluding cost of pipe and owner furnished equipment.

# PROJECT COMPONENTS

| PIPELINE SEGMENTS | CORE PROJECT | DESCRIPTION  |
|-------------------|--------------|--|
| 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                  | CORE PROJECT | DESCRIPTION   |
|--------------------------------|--------------|---|
| 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 (🔴 one 347 mgd station - JB3) |

| SUPPORT FACILITIES                            | CORE PROJECT | DESCRIPTION   |
|---|--------------|---|
| 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 (🔴 two substations)  |
| Microwave Communications and SCADA System     | 🔴            | Provides remote operations capability and system monitoring   |

