



INTEGRATED PIPELINE PROJECT

MONTHLY EXECUTIVE SUMMARY

November 2017



S2X12 Pipe inside of Interconnect Building

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](https://twitter.com/IPL_Project)

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 11.30.17

CONTRACT DESIGN AND CONSTRUCTION	DESCRIPTION	BUDGET	CONTRACTS ISSUED	TOTAL INVOICED
PROGRAM WIDE PROFESSIONAL SERVICES		\$133,062,000	\$88,965,790	\$84,444,078
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	\$13,472,389	\$13,198,851
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	\$11,854,388	\$10,486,912
Geotechnical	Initial Characterization of entire IPL Project	\$12,037,000	\$12,336,425	\$12,064,733
Corrosion Engineering Services	Engineering Corrosion Control	\$3,891,000	\$5,326,362	\$4,134,856
Land, Easement Acquisition, & Support Studies	Right of Entry and Land Acquisition Support Services	\$33,993,000	\$3,464,526	\$3,422,917
SCADA System	Engineering of SCADA system	\$640,000	\$1,508,213	\$482,656
Microwave System	Engineering of Communications System	\$5,210,000	\$1,522,785	\$1,468,609
DESIGN		\$152,837,000	\$128,351,139	\$116,263,650
Completed		\$101,901,000	\$95,902,930	\$95,190,350
Active		\$24,158,000	\$31,909,793	\$21,073,300
CH2M Hill	Project Operational Information and Operations Manual		\$3,044,922	\$2,800,211
CH2M Hill	Final Conformance of Design of JCC1	\$728,000	\$2,861,718	\$1,559,918
MWH	Final Conformance of Design of Section 9/10/11	\$506,000	\$812,562	\$535,921
Black & Veatch	Final Design of Section 12/13/14 - 28.1 miles of 84 - inch and 108 - inch pipeline	\$11,292,000	\$9,712,410	\$9,651,306
Parsons	Final Conformance of Design of Sections 17/18/Tunnel	\$832,000	\$579,379	\$681,545
Brown & Gay	Final Design of Section 19-1	\$5,770,000	\$7,003,722	\$1,845,182
HDR	Final Design of Section 19-2	\$5,030,000	\$6,989,876	\$3,156,677
Burns & McDonnell Trans. Mgmt.	Development of Transportation Management Plan		\$905,203	\$842,540
Remaining		\$26,778,000	\$538,417	
CONSTRUCTION ADMINISTRATION		\$48,877,000	\$18,550,960	\$11,469,932
CONSTRUCTION / OWNER FURNISHED EQUIPMENT		\$1,729,540,000	\$633,236,795	\$516,921,771
Completed		\$26,677,000	\$20,593,942	\$20,377,238
Active		\$811,918,000	\$612,642,853	\$496,544,533
Pipeline Section 15-1		\$115,112,000	\$94,701,185	\$93,361,406
Garney Construction	Construction of Section 15-1	\$115,112,000	\$94,701,185	\$93,361,406
JB3		\$83,013,000	\$74,582,587	\$59,185,946
MWH Constructors	Construction of JB3 Pump Station	\$51,473,000	\$57,118,744	\$46,608,362
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	\$383,653	\$336,623
Pentair Flow Technologies	Construction of JB3 Pumps, Motors, Drives	\$23,074,000	\$11,258,183	\$6,452,954
Pipeline Section 12/13/MBR/IB4 Bypass		\$167,992,000	\$154,174,800	\$148,522,429
Thalle Midlothian	Construction of Sections 12/13/MBR/IB4 Bypass	\$146,310,000	\$143,456,762	\$138,549,189
BAR Constructors	Construction of Richland-Chambers/Cedar Creek Interconnection Facility	\$21,682,000	\$10,593,808	\$9,849,011
Hilco Electric	Relocation of Electrical Service Lines		\$0	\$0
Hilco Electric	MBR Radio Tower Power		\$33,312	\$33,312
Oncor Electric	Provide Power to IPL 2X12		\$90,918	\$90,918

PROGRAM SUPPORT SERVICES

as of 11.30.17

CONTRACT DESIGN AND CONSTRUCTION	DESCRIPTION	BUDGET	CONTRACTS ISSUED	TOTAL INVOICED
Pipeline Section 15-2		\$97,217,000	\$53,103,418	\$49,624,915
BAR Constructors	Construction of Section 15-2	\$97,217,000	\$53,103,418	\$49,624,915
Pipeline Section 14		\$107,113,000	\$48,335,397	\$44,398,832
Garney Construction	Construction of Section 14	\$107,113,000	\$48,335,397	\$44,398,832
Pipeline Section 17		\$109,944,000	\$78,579,258	\$42,523,532
IPL Partners	Construction of Section 17 Tunnel	\$12,252,000	\$33,067,943	\$18,202,450
Thalle Midlothian	Construction of Sections 17/18/IB2 Bypass	\$97,692,000	\$45,511,315	\$24,321,082
JCC1		\$42,682,000	\$37,769,125	\$10,507,660
BAR Constructors	Construction of JCC1 Intake	\$21,564,000	\$19,803,301	\$9,903,915
Ebara	Construction of JCC1 Pumps, Motors, Drives	\$17,775,000	\$12,694,890	\$603,745
Oncor Electric	Construction of JCC1 HV Transmission Lines	\$3,343,000	\$5,270,933	\$0
Pipeline Section 10/11		\$73,679,000	\$57,090,790	\$38,054,918
IPL Partners	Construction of Section 10/11	\$72,362,000	\$43,398,742	\$35,879,666
Oncor Electric	Construction of KBR S1X10 HV Transmission Lines		\$17,452	\$17,452
BAR Constructors	Construction of KBR S1X10	\$1,317,000	\$13,674,595	\$2,157,800
Valve Packages		\$15,166,000	\$14,306,294	\$10,364,896
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	\$5,595,283
Crispin Valves	Valve Package 4 - Section 12 RC/CC Interconnection, JB4 Bypass, MBR Yard Butterfly Valves	\$3,999,000	\$2,269,140	\$1,915,482
Crispin Valves	Valve Package 5 - JB3 Butterfly Valves	\$1,249,000	\$1,249,222	\$869,234
Ross Valves	Valve Package 6 - Section 12 RC/CC Interconnection Multi-Orifice Valves	\$715,000	\$526,340	\$352,005
Crispin Valves	Valve Package 8 - Section 10 & 11 Bypass Butterfly Valves	\$1,391,000	\$1,461,040	\$204,156
Blackhall Engineering	Valve Package 11 - JCC1 Gate Valve	\$1,320,000	\$1,788,958	\$695,529
Remaining		\$890,945,000		
CONSTRUCTION MANAGEMENT		\$65,170,000	\$45,397,801	\$30,854,610
Completed		\$15,777,000	\$15,687,599	\$15,687,599
Active		\$17,665,000	\$29,710,201	\$15,167,011
Remaining		\$31,728,000		
CONSTRUCTION MATERIALS TESTING		\$17,296,000	\$12,013,590	\$6,322,906
Completed		\$203,000	\$225,133	\$225,132
Active		\$7,791,000	\$11,788,457	\$6,097,774
Remaining		\$9,302,000		
ROCIP		\$2,575,000	\$23,351,087	\$18,792,429
LAND COST		\$107,384,000	\$61,062,169	\$61,062,169
PROGRAM LEVEL CONTINGENCY		\$83,178,000		
MISCELLANEOUS		\$2,000,000	\$2,252,640	\$2,252,640
GRAND TOTAL		\$2,341,919,000	\$1,013,181,972	\$848,384,185
REMAINING BOND FUNDS				\$401,615,815

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

ACCOMPLISHMENTS

through 12.31.17

PL15-1 (Pipeline Section 15-1 including the S5X15 Richland-Chambers Pipeline Interconnect Facility)

- Continue installing ROW fencing H-Braces added by change order.
- Working on Punchlist items.

JB3RR (Pump Suction Reservoir Grading and Grassing Project)

- Continue mowing and maintenance of grass on embankment slopes.

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

- Continue security fencing at MBR and ROW fencing and gates.
- Installing electrical panels and equipment and light bollards.
- Installing access road flex base and ROW topsoil.

JB3 (250mgd Pump Station expandable to 350mgd)

- Installed motors 1 through 4 on pump skids.
- Installed discharge piping, pump control valves, and discharge 36" gate valve.
- Installed disc filters for spray water system for the cooling tower.
- Taped, bedded, and painted sheetrock in the Control Room.
- Electrical wiring for VFD's, pump termination cabinets, and raceway to pump control valves.
- Completed installation of outside ductwork for Air Handling Units.
- Continued installation of YP-2 Suction Header Pipe from pump station to reservoir cell 1.

PL15-2 (Pipeline Section 15-2 that feeds the JB3 Reservoir)

- Continue electrical work at 108" Gate Valve facility and completed security fencing at the vault site.
- Continue ROW fences and gates, cable mat installations and cathodic protection test stations.
- Continue installing permanent access driveways from County and TxDOT roadways.

S2X12 (Interconnection Facility of IPL Phase 1 to existing Cedar Creek and Richland Chambers Pipelines)

- Substantial completion walkthrough performed and correction of punch list items started by the Contractor.
- Irrigation and landscaping installation continue.

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

- Continue ROW restoration, fencing and gates, cathodic protection anode beds and cable mat installations.

PL17TUN (Trinity River Tunnel on Pipeline Section 17)

- Installing well-point dewatering system for open-cut piping on east side of the river.
- Grouting surface depressions along tunnel alignment.

JCC1IN (Intake Structure and Wet Well for JCC1 Pump Station at Cedar Creek)

- Placed concrete for 4 of 5 lateral beams for intake structure; first section of second level walls above beams; south wingwall slab for second level; and mud slab for north wingwall second level slab.

- Continued tying rebar for walls, columns, beams and slabs.
- Continue water curing concrete as required and setting forms for beam concrete placements.

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

- Contract awarded to Lambda Construction and Notice to Proceed issued.
- Submittal reviews are in progress.

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

- Installed 4,400 l.f. of pipe for Section 11.
- Clean-up crew continues spreading and grading topsoil, installing permanent fences and gates on ROW.
- Placing manholes and ARV's behind both pipe crews.
- Placed HMA for three road crossings

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

- Installed 4,000 l.f. of 108" pipe and continue ROW cleanup behind pipelaying operation.
- Continue receiving pipe and installing temporary fences and gates.
- Pipe joint welding and testing is on-going.

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

- Placed concrete for seal slab under grade beams for the Metal Building foundation
- Forming and installing rebar for grade beams.
- Placed bituminous waterproofing for external pipe chase walls.
- Installing electrical and communication ductbanks.

OFE03 (Owner-Furnished 108" Gate Valves)

- GV#5 is being factory tested.

OFE04/05 (Owner-Furnished 54", 60" and 108" Butterfly Valves)

- All valves have been delivered.

OFE06 (Owner-Furnished Multi-Orifice Valves for S2X12)

- Valves delivered and installed, awaiting facility start-up.

OFE07 (Owner-Furnished pumps, motors and variable frequency drives for JB3)

- No additional deliveries to the site or factory testing performed this month.

OFE08 (Owner-Furnished 66", 84" and 108" Butterfly Valves)

- Valves are in production.

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

- OPT reps traveled to Ebara Vietnam Pump Company, Ltd. in Hanoi, Vietnam to witness successful UT testing of four impellers and two pump bowls.

OFE11 (Owner-Furnished 108" Gate Valve)

- Approved submittals received from Blackhall.



OFE09 Performing ultrasonic testing of pump impellers in Vietnam

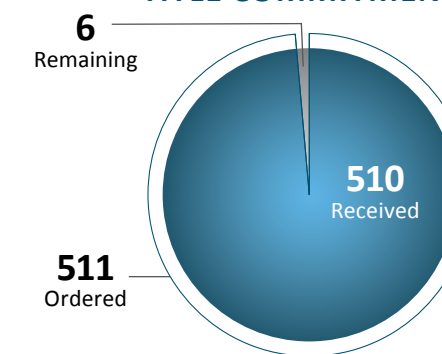


PL151 Access Drive to S5X15 Interconnect Facility

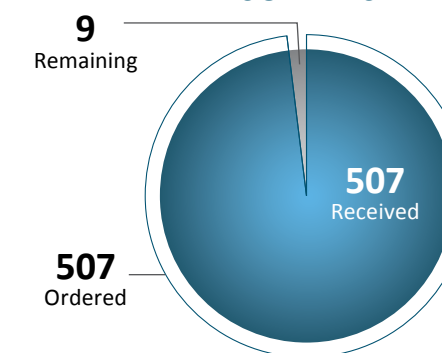
ACTIVITY STATUS

through 12.31.17

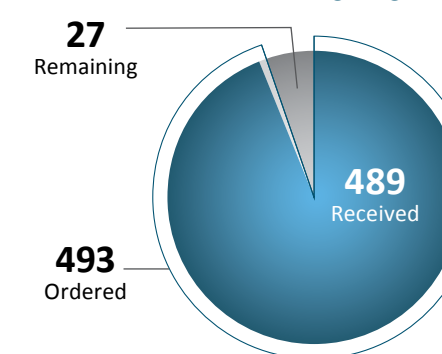
TITLE COMMITMENTS



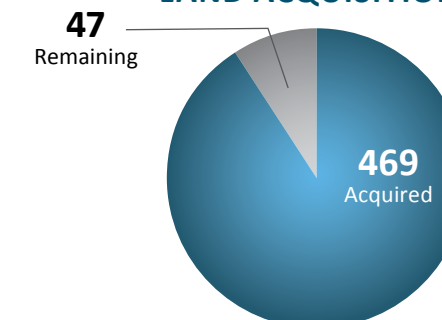
SURVEYS



APPRAISALS



LAND ACQUISITION



Total Parent Parcels: 516

PROJECT SCHEDULE

PROJECT COMPONENTS	2014				2015				2016				2017				2018			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
SECTION 15-1 CONSTRUCTION																				
SECTIONS 12, 13, MBR CONSTRUCTION																				
JB3 CONSTRUCTION																				
SECTION 15-2 CONSTRUCTION																				
SECTION 14 CONSTRUCTION																				
S2X12 (INTERCONNECTION FACILITY) CONSTRUCTION																				
SECTION 17 TUNNEL CONSTRUCTION																				
JCC1 PUMP STATION INTAKE, WET WELL CONSTRUCTION																				
SECTION 10, 11 CONSTRUCTION																				
SECTION 17, 18 CONSTRUCTION																				
KBRPRS/S1X10 (PRESSURE REDUCTION STA.) CONSTRUCTION																				

M/WBE PARTICIPATION

as of 11.30.17

CONTRACT DESIGN AND CONSTRUCTION	M/WBE & HUB SUB-CONTRACTORS	CONTRACT COMMITMENT		M/WBE HUB INVOICED TO DATE		TOTAL PROJECT COMPLETED TO DATE	
		\$	%	\$	% (PER COMMITMENT)	\$	%
PROGRAM WIDE PROFESSIONAL SERVICES		\$20,178,105	23%	\$19,669,896	97%	\$84,444,078	95%
Program Management		\$6,636,687	19%	\$6,636,687	100%	\$35,124,711	100%
Conceptual Design / Environmental / Permitting		\$2,700,278	20%	\$2,824,753	105%	\$13,198,851	98%
Value Engineering		\$23,178	5%	\$23,178	100%	\$472,248	100%
Surveying and Mapping		\$3,939,403	33%	\$3,831,616	97%	\$10,486,912	88%
Geotechnical		\$3,638,078	29%	\$3,545,033	97%	\$12,064,733	98%
Corrosion Engineering Services		\$1,053,764	20%	\$761,434	72%	\$4,134,856	78%
Land, Easement Acquisition, & Support		\$1,294,837	37%	\$1,523,617	118%	\$3,422,917	99%
Studies		\$41,717	1%	\$41,717	100%	\$3,587,584	92%
SCADA System		\$384,444	25%	\$32,208	8%	\$482,656	32%
Microwave System		\$465,719	31%	\$449,653	97%	\$1,468,609	96%
DESIGN		\$33,817,181	26%	\$31,057,165	92%	\$116,263,650	91%
Completed		\$26,158,044	27%	\$26,046,137	100%	\$95,190,350	99%
Active		\$7,659,137	24%	\$5,011,028	65%	\$21,073,300	66%
CH2M Hill (Ops Manual)	NDM	\$479,674	16%	\$486,259	101%	\$2,800,211	92%
CH2M Hill (JCC1)	JQ, Gupta, APM, HVJ, XENCO	\$721,484	25%	\$465,685	65%	\$1,559,918	55%
MWH	Garzabury, Kevin Sloan	\$226,705	28%	\$136,372	60%	\$535,921	66%
Black & Veatch	BDS, CAS, JQ, TME	\$2,425,530	25%	\$2,577,758	106%	\$9,651,306	99%
Parsons	Criado, EPB, HVJ	\$144,845	25%	\$112,357	78%	\$681,545	118%
Brown & Gay	AZB, TME, Lamb-Star, NDM	\$1,750,930	25%	\$477,623	27%	\$1,845,182	26%
HDR	AZB, Daltech, Word Wizards, Gupta	\$1,747,469	25%	\$639,501	37%	\$3,156,677	45%
Burns & McDonnell Trans. Mgmt.	Lamb-Star Engineering	\$162,500	18%	\$115,472	71%	\$842,540	93%
Remaining		\$0	0%	\$0	0	\$0	0%
CONSTRUCTION ADMINISTRATION		\$4,533,900	24%	\$2,666,840	59%	\$11,469,932	62%
CONSTRUCTION / OWNER FURNISHED EQUIPMENT		\$81,142,783	13%	\$84,460,092	104%	\$516,921,771	82%
Completed		\$4,217,818	21%	\$4,091,050	97%	\$20,377,238	99%
Active		\$76,924,965	22%	\$80,369,042	104%	\$496,544,533	81%
Pipeline Section 15-1		\$9,418,137	28%	\$6,649,736	71%	\$93,361,406	99%
Garney Construction	Danridge, SYB, Ricochet, Glenko, Carrasco, Cowboy, Gorrondona, Custom Fence, LKT, Astro Johnny, Pam, Father & Son, Bowden's Erosion	\$9,418,137	28%	\$6,649,736	71%	\$93,361,406	99%
JB3		\$15,051,893	26%	\$10,130,515	67%	\$59,185,946	79%
MWH Constructors	Statewide, Cowboy, TX Enviro, Champion, Ram Tool, Rent-a-Fence, Soto Steel, A-Star, Ike, Greystone, LKT, Accurate, Green Scaping	\$13,601,973	27%	\$8,680,594	64%	\$46,608,362	82%
Oncor Electric		\$1,449,920	3%	\$1,449,920	100%	\$4,864,888	9%
Isolux Corsan	Dyna Grid	\$0	0%	\$0	0%	\$923,119	96%
RE Monks		\$0	0%	\$0	0%	\$336,623	7%
Pentair Flow Technologies		\$0	0%	\$0	0%	\$6,452,954	57%

M/WBE PARTICIPATION

as of 11.30.17

CONTRACT DESIGN AND CONSTRUCTION	M/WBE & HUB SUB-CONTRACTORS	CONTRACT COMMITMENT		M/WBE HUB INVOICED TO DATE		TOTAL PROJECT COMPLETED TO DATE	
		\$	%	\$	% (PER COMMITMENT)	\$	%
Pipeline Section 12/13/MBR/JB4 Bypass		\$22,083,742	24%	\$21,781,933	99%	\$148,522,429	96%
Thalle Midlothian	LKT, Statewide, Granados, Desert Steel, ETTL, Glenko, A.N.A., Edwards, Buzz, Bradley-Douglas, Pinnacle	\$21,237,366	27%	\$16,289,931	77%	\$138,549,189	97%
BAR Constructors	Fraire's, DFW Aggregates, Ricochet, MMG, LKT, Brock, Garland Heating & Air, Texas Metal, Buzz, Rangel	\$846,375	8%	\$5,492,002	649%	\$9,849,011	93%
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		\$4,130,899	15%	\$19,862,657	481%	\$49,624,915	93%
BAR Constructors	Ricochet, Fraire's, DFW Aggregates, Brock, Tidy Toilets, KDAT, Juan Cantu, Buyer's, RAM, Rangel, LKT, Greenscaping, Environmental Safety	\$4,130,899	15%	\$19,862,657	481%	\$49,624,915	93%
Pipeline Section 14		\$6,083,367	22%	\$6,780,138	111%	\$44,398,832	92%
Garney Construction	AEA, Gorrondona, JC Welding, LKT, Statewide, Bowdens	\$6,083,367	22%	\$6,780,138	111%	\$44,398,832	92%
Pipeline Section 17		\$12,021,917	24%	\$1,643,267	14%	\$42,523,532	54%
IPL Partners	LKT, Industry Junction, Eagle Aggregate, Suncoast Res, ATS Drilling, RECS, ANA, Alliance, Ram, JC Welding, Luis Moreno	\$6,638,370	24%	\$1,488,761	22%	\$18,202,450	55%
Thalle Midlothian	Fleet Lube, Rambo Controls, AE Trucking, MKI Construction, Stome Water Management, Industry Junction, Ortega Land Clearing	\$5,383,547	25%	\$154,506	3%	\$24,321,082	53%
JCC1		\$1,004,766	4%	\$8,988,352	895%	\$10,507,660	28%
BAR Constructors	Industry Junction, K&A Steel, Ricochet Fuel, Ricochet Fuel, Tidy Toilets, Buzz Custom Fence	\$1,004,766	6%	\$8,988,352	895%	\$9,903,915	50%
Ebara		\$0	0%	\$0	0%	\$603,745	5%
Oncor Electric		\$0	0%	\$0	0%	\$0	0%
Pipeline Section 10/11		\$7,130,243	20%	\$4,532,445	64%	\$38,054,918	67%
IPL Partners	LKT, Industry Junction, Eagle Aggregate, Suncoast Res, ATS Drilling, RECS, ANA, Alliance, Ram, JC Welding, Luis Moreno	\$5,706,391	24%	\$2,374,645	42%	\$35,879,666	83%
Oncor Electric		\$0	0%	\$0	0%	\$17,452	100%
BAR Constructors	Industry Junction, VSG Trucking, Ricochet, MMG Disposal, Garland HVAC, CMC Rebar, Buzz Custom Fence, K&A Steel, Rangle Land Surveying	\$1,423,852	11%	\$2,157,800	152%	\$2,157,800	16%
Valve Packages		\$0	0%	\$0	0%	\$10,364,896	72%
CONSTRUCTION MANAGEMENT		\$18,613,185	41%	\$12,459,392	67%	\$30,854,610	68%
Completed		\$5,928,804	38%	\$5,954,412	100%	\$15,687,599	100%
Active		\$12,684,381	43%	\$6,504,980	51%	\$15,167,011	51%
CONSTRUCTION MATERIALS TESTING		\$7,226,826	60%	\$3,068,334	42%	\$6,322,906	53%
Completed		\$219,036	97%	\$219,036	100%	\$225,132	100%
Active		\$7,007,790	59%	\$2,849,298	41%	\$6,097,774	52%
ROCIIP		\$1,499,307	6%	\$286,187	19%	\$18,792,429	80%
TOTAL		\$167,011,286	24%	\$153,667,905	92%	\$785,069,376	83%
LAND COST		\$0	0%	\$61,892	0%	\$61,062,169	261%
MISCELLANEOUS		\$0	0%	\$0	0%	\$2,252,640	4%
GRAND TOTAL		\$167,011,286	24%*	\$153,729,797	92%	\$848,384,185	84%

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

M/WBE/HUB Invoiced	\$153,729,797
Grand Total Invoiced	\$848,384,185
* Exclusions Invoiced	\$261,650,790
MWBE %	26.20%

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

