



INTEGRATED PIPELINE PROJECT

MONTHLY EXECUTIVE SUMMARY

September 2016



PL1213MBR Installing final joint of 108-inch pipe at tie-in to S2X12 Interconnect

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 09.30.16

CONTRACT DESIGN AND CONSTRUCTION	DESCRIPTION	BUDGET	CONTRACTS ISSUED	TOTAL INVOICED
PROGRAM WIDE PROFESSIONAL SERVICES		\$133,061,000	\$88,105,307	\$83,350,291
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	\$13,044,395
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	\$11,858,055	\$10,377,150
Geotechnical	Initial Characterization of entire IPL Project	\$12,037,000	\$12,026,275	\$12,039,115
Corrosion Engineering Services	Engineering Corrosion Control	\$3,891,000	\$5,072,362	\$3,842,244
Land, Easement Acquisition, & Support	Right of Entry and Land Acquisition Support Services	\$33,993,000	\$3,464,526	\$3,391,053
Studies		\$3,500,000	\$3,583,743	\$3,402,626
SCADA System	Engineering of SCADA system	\$640,000	\$1,508,213	\$188,139
Microwave System	Engineering of Communications System	\$5,210,000	\$1,522,785	\$1,468,609
DESIGN		\$152,839,000	\$128,231,192	\$111,930,189
Completed		\$101,901,000	\$96,376,989	\$95,153,466
Active		\$24,159,000	\$31,315,787	\$16,776,723
CH2M Hill	Project Operational Information and Operations Manual		\$3,044,922	\$1,867,534
CH2M Hill	Final Conformance of Design of JCC1	\$728,000	\$2,563,376	\$490,352
MWH	Final Conformance of Design of Section 9/10/11	\$506,000	\$524,313	\$533,231
Black & Veatch	Final Design of Section 12/13/14 - 28.1 miles of 84 - inch and 108 - inch pipeline	\$11,292,000	\$9,704,622	\$9,651,306
Parsons	Final Conformance of Design of Sections 17/18/Tunnel	\$832,000	\$579,753	\$644,958
Brown & Gay	Final Design of Section 19-1	\$5,770,000	\$7,003,722	\$902,776
HDR	Final Design of Section 19-2	\$5,030,000	\$6,989,876	\$2,022,612
Burns & McDonnell Trans. Mgmt.	Development of Transportation Management Plan		\$905,203	\$663,954
Remaining		\$26,778,000	\$538,417	
CONSTRUCTION ADMINISTRATION		\$48,877,000	\$18,855,680	\$7,720,267
CONSTRUCTION / OWNER FURNISHED EQUIPMENT		\$1,729,540,000	\$552,623,594	\$349,998,627
Completed		\$3,700,000	\$3,860,755	\$3,644,051
Active		\$713,448,000	\$548,762,839	\$346,354,576
Pipeline Section 15-1		\$115,112,000	\$94,544,582	\$92,340,487
Garney Construction	Construction of Section 15-1	\$115,112,000	\$94,544,582	\$92,340,487
JB3		\$99,592,000	\$85,402,192	\$42,008,176
MWH Constructors	Construction of JB3 Pump Station	\$51,473,000	\$56,721,760	\$21,816,583
ASI Constructors	Construction of JB3 Reservoir	\$16,579,000	\$11,669,898	\$11,669,898
Oncor Electric	Installation of JB3 Substation Transmission Lines	\$1,066,000	\$957,119	\$923,119
Isolux Corsan	Construction of JB3 Substation	\$7,400,000	\$4,936,936	\$4,374,544
Pentair Flow Technologies	Construction of JB3 Pumps, Motors, Drives	\$23,074,000	\$11,116,479	\$3,224,031
Pipeline Section 12/13/MBR/JB4 Bypass		\$167,993,000	\$153,980,359	\$124,214,670
Thalle Midlothian	Construction of Sections 12/13/MBR/JB4 Bypass	\$146,310,000	\$143,239,116	\$118,018,548
BAR Constructors	Construction of Richland-Chambers/Cedar Creek Interconnection Facility	\$21,682,000	\$10,562,326	\$6,196,123
Hilco Electric	Relocation of Electrical Service Lines		\$88,000	
Oncor Electric	Provide Power to IPL 2X12		\$90,918	

PROGRAM SUPPORT SERVICES

as of 09.30.16

CONTRACT DESIGN AND CONSTRUCTION	DESCRIPTION	BUDGET	CONTRACTS ISSUED	TOTAL INVOICED
Microwave System		\$6,398,000	\$5,376,289	\$3,710,793
Huffman Communications	Construction of Microwave Towers	\$6,398,000	\$5,376,289	\$3,710,793
Pipeline Section 15-2		\$97,217,000	\$52,640,265	\$45,140,290
BAR Constructors	Construction of Section 15-2	\$97,217,000	\$52,640,265	\$45,140,290
Pipeline Section 14		\$107,113,000	\$48,250,230	\$34,122,559
Garney Construction	Construction of Section 14	\$107,113,000	\$48,250,230	\$34,122,559
Pipeline Section 17 Tunnel		\$12,252,000	\$33,092,000	\$0
IPL Partners	Construction of Section 17 Tunnel	\$12,252,000	\$33,092,000	\$0
JCC1 Intake		\$21,564,000	\$19,741,750	\$0
BAR Constructors	Construction of JCC1 Intake	\$21,564,000	\$19,741,750	\$0
Pipeline Section 10/11		\$72,362,000	\$43,208,500	\$0
IPL Partners	Construction of Section 10/11	\$72,361,634	\$43,208,500	\$0
Valve Packages		\$13,845,000	\$12,526,672	\$4,817,601
Garney Construction	Valve Package 1 - Section 15-1 Butterfly Valves	\$518,000	\$262,244	\$166,900
Rodney Hunt	Valve Package 2 - Section 15-1 Interconnection Facility Valves	\$474,000	\$733,206	\$664,995
Blackhall Engineering	Valve Package 3 - JB3, Section 15-2, MBR Yard Gate Valves	\$5,500,000	\$6,211,276	\$2,574,898
Crispin Valves	Valve Package 4 - Section 12 RC/CC Interconnection, JB4 Bypass, MBR Yard Butterfly Valves	\$3,999,000	\$2,269,140	\$676,242
Crispin Valves	Valve Package 5 - JB3 Butterfly Valves	\$1,249,000	\$1,224,944	\$382,561
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	\$1,299,522	\$0
Remaining		\$1,012,391,000		
CONSTRUCTION MANAGEMENT		\$65,169,000	\$45,397,801	\$19,818,996
Completed		\$15,777,000	\$15,687,599	\$15,687,599
Active		\$17,665,000	\$29,710,201	\$4,131,397
Remaining		\$31,728,000		
CONSTRUCTION MATERIALS TESTING		\$17,295,000	\$11,621,125	\$3,658,313
Completed		\$203,000	\$225,133	\$225,132
Active		\$6,836,000	\$11,395,992	\$3,433,180
Remaining		\$10,257,000		
ROCIP		\$2,575,000	\$32,876,613	\$16,864,065
LAND COST		\$107,384,000	\$48,757,373	\$48,757,373
PROGRAM LEVEL CONTINGENCY		\$83,178,000		
MISCELLANEOUS		\$2,000,000	\$1,830,368	\$1,830,368
GRAND TOTAL		\$2,341,918,000	\$928,299,054	\$643,928,489
REMAINING BOND FUNDS				\$606,071,511

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

ACCOMPLISHMENTS

through 10.31.16

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

- Continue slow filling 15.5 miles of 108" pipe for hydrostatic testing using temporary fill line from the Richland Chambers Pipeline.
- Completed repair and restoration of significant erosion issues on Red Tail Ranch property.

JB3R (Pump Suction Reservoir for the JB3 Pump Station)

- Continue irrigation of reseeded embankment.
- Performed inspection of grassing with the design engineer.

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

- Completed pipe installation to tie-in at S2X12.
- Continue embankment fill at Cells 2 and 3 at MBR.
- Completed underdrain installation in Cell 1.
- Continue installing electrical, control and communication ductbanks at MBR.
- Installing anode beds on PL13.

COM01 (Microwave Towers and Communication Facilities for SCADA Control of the IPL)

- Installed tower foundations at MBR and at S5X15 interconnect.

JB3 (250mgd Pump Station expandable to 350mgd)

- Placed elevated deck #5 of 6.
- Installing forms for elevated deck #6.
- Continued flow fill backfill around basement.
- Completed installation of structural steel and precast panels for Data Center building.
- Began installation of structural steel and precast panels for Pump Station Electrical Room.
- Continue installation of electrical raceway in pump station basement
- Continued installation of 108-inch yard pipe for YP-1.

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

- Pipe crews #1 and #2 installed a total of 2,500' of 108" pipe.
- Placed concrete foundation slab for 108" Gate Valve Vault.
- Continue ROW restoration and spoil dirt removal.
- Installing anode beds.

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

- Completed standing seam metal roof at Interconnect Building.
- Energized and tested bridge crane.
- Continue electrical ductbank installations.

JB3HV (High Voltage Substation for the JB3 Pump Station and Data Center)

- Continue raceways and cable installation.
- Installed service transformer and exterior lighting.

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

- Two crews installed 11,700' of 108" pipe and completed pre-trenching an additional 4,500'.
- Continue tunneling at IH35.
- Continue installing manholes at air release and blow-off valve locations and installing cathodic protection test stations.
- Installed Monolithic Isolation Joint.

PL17TUN (Trinity River Tunnel on Pipeline Section 17)

- Notice to Proceed was issued 10/03/16.
- Constructing access road, clearing ROW, installing SWPPP materials and setting up field offices.

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

- Conducted Pre-Construction Workshops and issued Notice to Proceed on 10/31/16.
- Met with Henderson County to finalize flood plain permit.

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

- Reviewing preliminary pipe submittals.
- No construction activity performed.

OFE03 (Owner-Furnished 108" Gate Valves)

- IPL reps witnessed hydrostatic testing of assembled Gate Valve.

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

- Two more 108" BFVs delivered to the MBR site.

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

- IPL reps witnessed pump performance testing for Pump #2 and factory acceptance testing of motors #2 through #5.

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

- Awaiting contract execution with Crispin Valve.

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

- Request for Proposals for seven vertical turbine pumps, motors and variable frequency drives has been issued.

PROJECT SCHEDULE

PROJECT COMPONENTS	2014				2015				2016	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
SECTION 15-1 CONSTRUCTION										
COMMUNICATION TOWERS CONSTRUCTION										
SECTIONS 12/13/MBR CONSTRUCTION										
JB3 CONSTRUCTION										
JB3 HIGH VOLTAGE 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										

ACTIVITY STATUS

as of 10.31.16



PL14 View from inside I-35 Tunnel

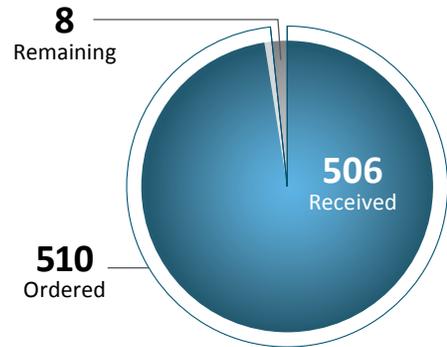


OFE03 TRWD and IPL reps with an assembled 108-inch Gate Valve

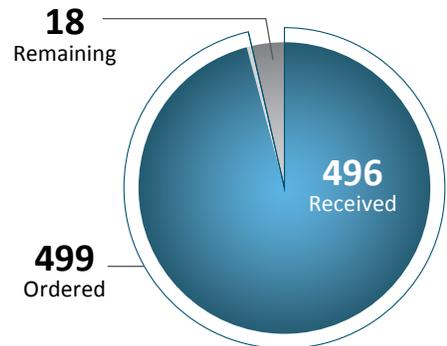


JB3 108-inch Pipe Wye Fitting

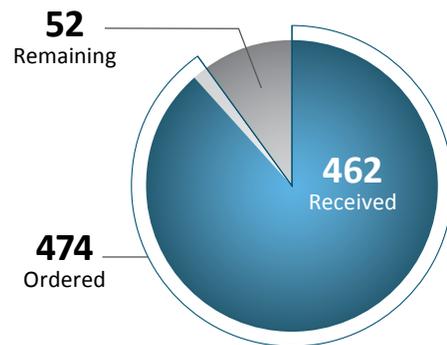
TITLE COMMITMENTS



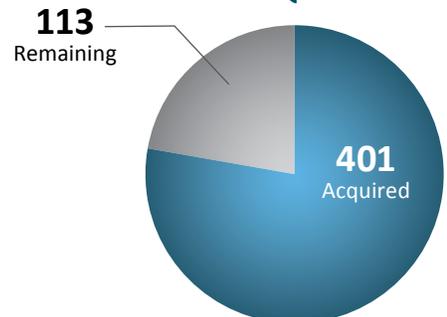
SURVEYS



APPRAISALS



LAND ACQUISITION



Total Parent Parcels: 514

Q3	Q4	2017				2018			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
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M/WBE PARTICIPATION

as of 09.30.16

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		\$19,800,463	22%	\$19,528,856	99%	\$83,350,291	95%
Program Management		\$6,828,350	19%	\$6,636,687	97%	\$35,124,711	100%
Conceptual Design / Environmental / Permitting		\$2,700,278	20%	\$2,766,523	102%	\$13,044,395	97%
Value Engineering		\$0	0%	\$23,178	100%	\$472,248	100%
Surveying and Mapping		\$3,548,416	30%	\$3,817,558	108%	\$10,377,150	88%
Geotechnical		\$3,572,334	30%	\$3,518,305	98%	\$12,039,115	100%
Corrosion Engineering Services		\$1,053,764	21%	\$761,434	72%	\$3,842,244	76%
Land, Easement Acquisition, & Support		\$1,201,457	35%	\$1,510,142	126%	\$3,391,053	98%
Studies		\$41,717	1%	\$41,717	100%	\$3,402,626	95%
SCADA System		\$384,444	25%	\$3,658	1%	\$188,139	12%
Microwave System		\$469,702	31%	\$449,654	96%	\$1,468,609	96%
DESIGN		\$34,093,623	27%	\$29,976,030	88%	\$111,930,189	87%
Completed		\$26,511,305	28%	\$25,980,682	98%	\$95,153,466	99%
Active		\$7,582,319	24%	\$3,995,349	53%	\$16,776,723	54%
CH2M Hill (Ops Manual)	NDM	\$479,674	16%	\$415,994	87%	\$1,867,534	61%
CH2M Hill (JCC1)	JQ, Gupta, APM, HVJ, XENCO	\$644,571	25%	\$104,501	16%	\$490,352	19%
MWH	Garzabury, Kevin Sloan	\$226,705	43%	\$136,372	60%	\$533,231	102%
Black & Veatch	BDS, CAS, JQ, TME	\$2,425,531	25%	\$2,577,758	108%	\$9,651,306	100%
Parsons	Criado, EPB, HVJ	\$144,938	25%	\$35,586	25%	\$644,958	111%
Brown & Gay	AZB, TME, Lamb-Star, NDM	\$1,750,930	25%	\$193,999	11%	\$902,776	13%
HDR	AZB, Daltech, Word Wizards, Gupta	\$1,747,469	25%	\$442,561	25%	\$2,022,612	29%
Burns & McDonnell Trans. Mgmt.	Lamb-Star Engineering	\$162,500	18%	\$88,578	55%	\$663,954	73%
Remaining		\$0	0%	\$0	0%	\$0	0%
CONSTRUCTION ADMINISTRATION		\$4,499,165	24%	\$1,941,620	43%	\$7,720,267	41%
CONSTRUCTION / OWNER FURNISHED EQUIPMENT		\$74,273,374	21%*	\$47,820,221	64%	\$349,998,627	63%
Completed		\$1,354,402	35%	\$1,354,402	100%	\$3,644,051	94%
Active		\$72,918,972	21%*	\$46,465,819	64%	\$346,354,576	63%
Pipeline Section 15-1		\$9,415,226	28%*	\$6,643,128	71%	\$92,340,487	98%
Garney Construction	Danridge, SYB, Ricochet, Glenko, Carrasco, Cowboy, Gorrondona, Custom Fence, LKT, Astro Johnny, Pam, Father & Son, Bowden's Erosion	\$9,415,226	28%*	\$6,643,128	71%	\$92,340,487	98%
JB3		\$16,474,218	25%*	\$4,831,955	29%	\$42,008,176	49%
MWH Constructors	Statewide, Cowboy, TX Enviro, Champion, Ram Tool, Rent-a-Fence, Soto Steel, A-Star, Ike, Greystone, LKT, Accurate, Green Scaping	\$13,580,000	27%*	\$2,233,039	16%	\$21,816,583	38%
ASI Constructors	Champion Fuel, Desert Steel, Green Scaping	\$1,417,833	13%*	\$1,554,142	110%	\$11,669,898	100%
Isolux Corsan	Dyna Grid	\$1,476,385	30%	\$1,044,774	71%	\$4,374,544	89%
Oncor Electric		\$0	0%	\$0	0%	\$923,119	96%
Pentair Flow Technologies		\$0	0%	\$0	0%	\$3,224,031	29%

M/WBE PARTICIPATION

as of 09.30.16

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		\$22,054,002	24%*	\$15,810,074	72%	\$124,214,670	81%
Thalle Midlothian	LKT, Statewide, Granados, Desert Steel, ETTL, Glenko, A.N.A., Edwards, Buzz, Bradley-Douglas, Pinnacle	\$21,209,810	27%*	\$12,130,287	57%	\$118,018,548	82%
BAR Constructors	Fraire's, DFW Aggregates, Ricochet, MMG, LKT, Brock, Garland Heating & Air, Texas Metal, Buzz, Rangel	\$844,192	8%	\$3,679,787	436%	\$6,196,123	59%
Hilco Electric		\$0	0%	\$0	0%	\$0	0%
Oncor Electric		\$0	0%	\$0	0%	\$0	0%
Microwave System		\$1,471,554	27%	\$1,073,230	73%	\$3,710,793	69%
Huffman Communications	Ricochet, Edwards, Chaffin Tower	\$1,471,554	27%	\$1,073,230	73%	\$3,710,793	69%
Pipeline Section 15-2		\$4,122,200	16%*	\$13,969,169	339%	\$45,140,290	86%
BAR Constructors	Ricochet, Fraire's, DFW Aggregates, Brock, Tidy Toilets, KDAT, Juan Cantu, Buyer's, RAM, Rangel, LKT, Greenscaping, Environmental Safety	\$4,122,200	16%	\$13,969,169	339%	\$45,140,290	86%
Pipeline Section 14		\$6,081,897	22%*	\$4,138,263	68%	\$34,122,559	71%
Garney Construction	AEA, Gorrondona, JC Welding, LKT, Statewide, Bowdens	\$6,081,897	22%	\$4,138,263	68%	\$34,122,559	71%
Pipeline Section 17 Tunnel		\$6,623,125	24%*	\$0	0%	\$0	0%
IPL Partners	LKT, Industry Junction, Eagle Aggregate, Suncoast Res, ATS Drilling, RECS, ANA, Alliance,Ram, JC Welding, Luis Moreno	\$6,623,125	24%	\$0	0%	\$0	0%
JCC1 Intake		\$1,001,750	6%*	\$0	0%	\$0	0%
BAR Constructors	Industry Junction, K&A Steel, Ricochet Fuel, Ricochet Fuel, Tidy Toilets, Buzz Custom Fence	\$1,001,750	6%	\$0	0%	\$0	0%
Pipeline Section 10/11		\$5,675,000	24%*	\$0	0%	\$0	0%
IPL Partners	LKT, Industry Junction, Eagle Aggregate, Suncoast Res, ATS Drilling, RECS, ANA, Alliance,Ram, JC Welding, Luis Moreno	\$5,675,000	24%	\$0	0%	\$0	0%
Valve Packages		\$0	0%	\$0	0%	\$4,817,601	38%
CONSTRUCTION MANAGEMENT		\$19,172,452	42%	\$7,886,376	41%	\$19,818,996	44%
Completed		\$6,488,069	41%	\$5,954,412	92%	\$15,687,599	100%
Active		\$12,684,383	43%	\$1,931,964	15%	\$4,131,397	14%
CONSTRUCTION MATERIALS TESTING		\$6,154,945	53%	\$1,562,765	25%	\$3,658,313	31%
Completed		\$219,036	97%	\$219,036	100%	\$225,132	100%
Active		\$5,935,909	52%	\$1,343,729	23%	\$3,433,180	30%
ROCIPI		\$1,499,307	5%	\$221,672	15%	\$16,864,065	51%
TOTAL		\$159,493,330	24%*	\$108,937,542	68%	\$593,340,748	68%
LAND COST				\$57,650		\$48,757,373	45%
MISCELLANEOUS						\$1,830,368	
GRAND TOTAL		\$159,493,330	25%*	\$108,995,192	68%	\$643,928,489	69%

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

** This number excludes owner furnished equipment, large diameter pipe and land cost \$223,237,616.

M/WBE/HUB Invoiced	\$108,995,192
Grand Total Invoiced	\$643,928,489
* Exclusions Invoiced	\$223,237,616
MWBE %	25.91%

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

