



# INTEGRATED PIPELINE PROJECT

## MONTHLY EXECUTIVE SUMMARY

October 2016

PL1213MBR Geonet and HDPE Liner  
Installation at Cell 1



### 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 10.31.16

CONTRACT DESIGN AND CONSTRUCTION	DESCRIPTION	BUDGET	CONTRACTS ISSUED	TOTAL INVOICED
<b>PROGRAM WIDE PROFESSIONAL SERVICES</b>		<b>\$133,061,000</b>	<b>\$88,105,307</b>	<b>\$83,350,291</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	\$13,472,389	\$13,044,395
<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	\$11,858,055	\$10,377,150
<b>Geotechnical</b>	Initial Characterization of entire IPL Project	\$12,037,000	\$12,026,275	\$12,039,115
<b>Corrosion Engineering Services</b>	Engineering Corrosion Control	\$3,891,000	\$5,072,362	\$3,842,244
<b>Land, Easement Acquisition, &amp; Support</b>	Right of Entry and Land Acquisition Support Services	\$33,993,000	\$3,464,526	\$3,391,053
<b>Studies</b>		\$3,500,000	\$3,583,743	\$3,402,626
<b>SCADA System</b>	Engineering of SCADA system	\$640,000	\$1,508,213	\$188,139
<b>Microwave System</b>	Engineering of Communications System	\$5,210,000	\$1,522,785	\$1,468,609
<b>DESIGN</b>		<b>\$152,839,000</b>	<b>\$128,231,192</b>	<b>\$111,930,189</b>
<b>Completed</b>		<b>\$101,901,000</b>	<b>\$96,376,989</b>	<b>\$95,153,466</b>
<b>Active</b>		<b>\$24,159,000</b>	<b>\$31,315,787</b>	<b>\$16,776,723</b>
<b>CH2M Hill</b>	Project Operational Information and Operations Manual		\$3,044,922	\$1,867,534
<b>CH2M Hill</b>	Final Conformance of Design of JCC1	\$728,000	\$2,563,376	\$490,352
<b>MWH</b>	Final Conformance of Design of Section 9/10/11	\$506,000	\$524,313	\$533,231
<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	\$9,704,622	\$9,651,306
<b>Parsons</b>	Final Conformance of Design of Sections 17/18/Tunnel	\$832,000	\$579,753	\$644,958
<b>Brown &amp; Gay</b>	Final Design of Section 19-1	\$5,770,000	\$7,003,722	\$902,776
<b>HDR</b>	Final Design of Section 19-2	\$5,030,000	\$6,989,876	\$2,022,612
<b>Burns &amp; McDonnell Trans. Mgmt.</b>	Development of Transportation Management Plan		\$905,203	\$663,954
<b>Remaining</b>		<b>\$26,778,000</b>	<b>\$538,417</b>	
<b>CONSTRUCTION ADMINISTRATION</b>		<b>\$48,877,000</b>	<b>\$18,855,680</b>	<b>\$7,772,199</b>
<b>CONSTRUCTION / OWNER FURNISHED EQUIPMENT</b>		<b>\$1,729,540,000</b>	<b>\$552,656,906</b>	<b>\$350,122,856</b>
<b>Completed</b>		<b>\$3,700,000</b>	<b>\$3,860,755</b>	<b>\$3,644,051</b>
<b>Active</b>		<b>\$713,448,000</b>	<b>\$548,796,151</b>	<b>\$346,478,806</b>
<b>Pipeline Section 15-1</b>		<b>\$115,112,000</b>	<b>\$94,544,582</b>	<b>\$92,340,487</b>
<b>Garney Construction</b>	Construction of Section 15-1	\$115,112,000	\$94,544,582	\$92,340,487
<b>JB3</b>		<b>\$99,592,000</b>	<b>\$85,402,192</b>	<b>\$42,008,176</b>
<b>MWH Constructors</b>	Construction of JB3 Pump Station	\$51,473,000	\$56,721,760	\$21,816,583
<b>ASI Constructors</b>	Construction of JB3 Reservoir	\$16,579,000	\$11,669,898	\$11,669,898
<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	\$4,936,936	\$4,374,544
<b>Pentair Flow Technologies</b>	Construction of JB3 Pumps, Motors, Drives	\$23,074,000	\$11,116,479	\$3,224,031
<b>Pipeline Section 12/13/MBR/JB4 Bypass</b>		<b>\$167,993,000</b>	<b>\$154,013,671</b>	<b>\$124,338,900</b>
<b>Thalle Midlothian</b>	Construction of Sections 12/13/MBR/JB4 Bypass	\$146,310,000	\$143,239,116	\$118,018,548
<b>BAR Constructors</b>	Construction of Richland-Chambers/Cedar Creek Interconnection Facility	\$21,682,000	\$10,562,326	\$6,196,123
<b>Hilco Electric</b>	Relocation of Electrical Service Lines		\$88,000	
<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 10.31.16

CONTRACT DESIGN AND CONSTRUCTION	DESCRIPTION	BUDGET	CONTRACTS ISSUED	TOTAL INVOICED
Microwave System		\$6,398,000	\$5,376,289	\$3,710,793
<b>Huffman Communications</b>	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
<b>BAR Constructors</b>	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
<b>Garney Construction</b>	Construction of Section 14	\$107,113,000	\$48,250,230	\$34,122,559
Pipeline Section 17 Tunnel		\$12,252,000	\$33,092,000	\$0
<b>IPL Partners</b>	Construction of Section 17 Tunnel	\$12,252,000	\$33,092,000	\$0
JCC1 Intake		\$21,564,000	\$19,741,750	\$0
<b>BAR Constructors</b>	Construction of JCC1 Intake	\$21,564,000	\$19,741,750	\$0
Pipeline Section 10/11		\$72,362,000	\$43,208,500	\$0
<b>IPL Partners</b>	Construction of Section 10/11	\$72,361,634	\$43,208,500	\$0
Valve Packages		\$13,845,000	\$12,526,672	\$4,817,601
<b>Garney Construction</b>	Valve Package 1 - Section 15-1 Butterfly Valves	\$518,000	\$262,244	\$166,900
<b>Rodney Hunt</b>	Valve Package 2 - Section 15-1 Interconnection Facility Valves	\$474,000	\$733,206	\$664,995
<b>Blackhall Engineering</b>	Valve Package 3 - JB3, Section 15-2, MBR Yard Gate Valves	\$5,500,000	\$6,211,276	\$2,574,898
<b>Crispin Valves</b>	Valve Package 4 - Section 12 RC/CC Interconnection, JB4 Bypass, MBR Yard Butterfly Valves	\$3,999,000	\$2,269,140	\$676,242
<b>Crispin Valves</b>	Valve Package 5 - JB3 Butterfly Valves	\$1,249,000	\$1,224,944	\$382,561
<b>Ross Valves</b>	Valve Package 6 - Section 12 RC/CC Interconnection Multi-Orifice Valves	\$715,000	\$526,340	\$352,005
<b>Crispin Valves</b>	Valve Package 8 - Section 10 & 11 Bypass Butterfly Valves	\$1,391,000	\$1,299,522	\$0
Remaining		\$1,012,391,000		
<b>CONSTRUCTION MANAGEMENT</b>		\$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		
<b>CONSTRUCTION MATERIALS TESTING</b>		\$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		
<b>ROCIP</b>		\$2,575,000	\$32,885,406	\$16,872,858
<b>LAND COST</b>		\$107,384,000	\$50,067,399	\$50,067,399
<b>PROGRAM LEVEL CONTINGENCY</b>		\$83,178,000		
<b>MISCELLANEOUS</b>		\$2,000,000	\$1,852,129	\$1,852,129
<b>GRAND TOTAL</b>		\$2,341,918,000	\$929,672,945	\$645,445,229
<b>REMAINING BOND FUNDS</b>				\$604,554,771

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

# ACCOMPLISHMENTS

through 11.30.16

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

- Installed 78" Butterfly Valve at connection between RC Pipeline and S5X15 Interconnect Facility.
- Grouting annular space at tunnel crossings prior to beginning hydrostatic pressure testing.
- Connection between PL15-1 and PL15-2 was made.

**JB3R** (Pump Suction Reservoir for the JB3 Pump Station)

- Working on contract closeout documentation.

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

- 100% of pipe is installed with 76% of joint welds completed.
- Installing HDPE liner in Cell 1 and installed soil cement test section at Cell 1 overflow.

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

- Installed communication towers at MBR and at S5X15 interconnect.

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

- Completed elevated Pump Room slab concrete.
- Completed installation of structural steel and precast wall panels for the Data Center.
- Completed about 40% of the structural steel at the pump station.
- Continue installation of 108" yard piping.

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

- Pipe crew completed 1,900' of 108" pipe including the tie-in to PL15-1.
- Placed concrete at two walls of 108" Gate Valve Vault.
- Continue anode installation, ROW restoration, and spoil dirt removal.

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

- Continue electrical ductbank installations and electrical equipment installation inside the facility.

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

- Completed raceways, cable and equipment installation.
- Began de-energized testing of sub-station equipment.

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

- Two crews installed 9,500' of 108" pipe and continued pre-trenching.
- Installing vaults at ARVs and Blowoffs.
- IH35 tunnel is near 90% complete.

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

- Continue constructing access road, clearing ROW and installing SWPPP materials.
- Completed contractor's yard and setting up of contractor and OPT field offices.
- Met with both Navarro and Ellis County officials and received final floodplain permits.

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

- Clearing and grubbing project site and access roadway ROW.
- Met with Henderson County and received final flood plain permit.

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

- Conducted pre-construction workshops and continue submittal reviews.
- Began survey layout and performed final topo survey of sand hill borrow area.
- Met with Ellis, Johnson and Tarrant County officials to introduce contractor and OPT personnel.

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

- Held pre-proposal conference with proposals due on 12/8/16.

**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 and TRWD reps witnessed pump performance testing for Pumps #1 and #3.

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

- IPL reps witnessed performance cycle testing on 108" BFV.

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

- Received and evaluated proposals.

# PROJECT SCHEDULE

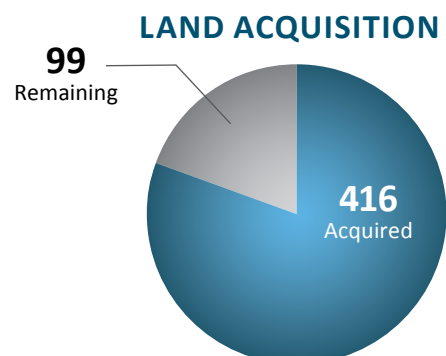
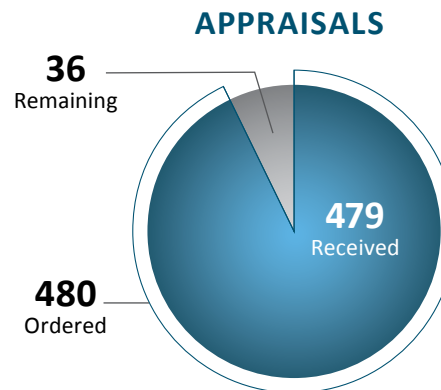
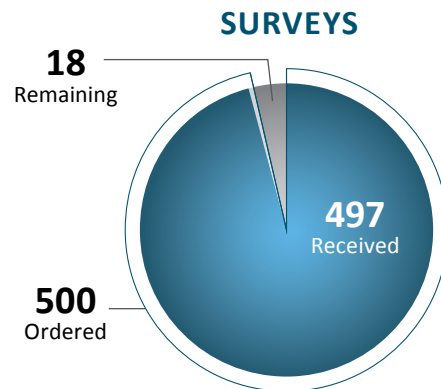
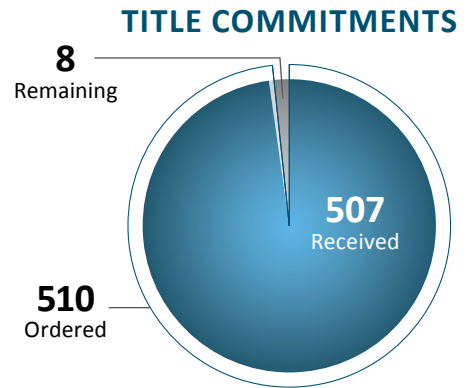
PROJECT COMPONENTS	2014				2015				2016	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
SECTION 15-1 CONSTRUCTION										
COMMUNICATION TOWERS CONSTRUCTION										
SECTIONS 12/13/MBR CONSTRUCTION										
JB3 CONSTRUCTION										
JB3 HIGH VOLTAGE CONSTRUCTION										
SECTION 15-2 CONSTRUCTION										
SECTION 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 11.30.16



JB3 Data Center



Total Parent Parcels: 515



COM01 S5X15 Radio Tower Installation



PL152 Point of Connection to PL15-1

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

as of 10.31.16

CONTRACT DESIGN AND CONSTRUCTION	M/WBE & HUB SUB-CONTRACTORS	CONTRACT COMMITMENT		M/WBE   HUB INVOICED TO DATE		TOTAL PROJECT COMPLETED TO DATE	
		\$	%	\$	% (PER COMMITMENT)	\$	%
<b>PROGRAM WIDE PROFESSIONAL SERVICES</b>		\$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%
<b>DESIGN</b>		\$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%
<b>CONSTRUCTION ADMINISTRATION</b>		\$4,499,165	24%	\$1,956,479	43%	\$7,772,199	41%
<b>CONSTRUCTION / OWNER FURNISHED EQUIPMENT</b>		\$74,273,374	21%*	\$47,820,221	64%	\$350,122,856	63%
Completed		\$1,354,402	35%	\$1,354,402	100%	\$3,644,051	94%
Active		\$72,918,972	21%*	\$46,465,819	64%	\$346,478,806	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 10.31.16

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%	\$124,338,900	81%
<b>Thalle Midlothian</b>	LKT, Statewide, Granados, Desert Steel, E TTL, Glenko, A.N.A., Edwards, Buzz, Bradley-Douglas, Pinnacle	\$21,209,810	27%*	\$12,130,287	57%	\$118,018,548	82%
<b>BAR Constructors</b>	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%
<b>Hilco Electric</b>		\$0	0%	\$0	0%	\$0	0%
<b>Hilco Electric</b>		\$0	0%	\$0	0%	\$33,312	100%
<b>Oncor Electric</b>		\$0	0%	\$0	0%	\$90,918	100%
Microwave System		\$1,471,554	27%	\$1,073,230	73%	\$3,710,793	69%
<b>Huffman Communications</b>	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%
<b>BAR Constructors</b>	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%
<b>Garney Construction</b>	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%
<b>IPL Partners</b>	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%
<b>BAR Constructors</b>	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%
<b>IPL Partners</b>	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%
<b>CONSTRUCTION MANAGEMENT</b>		\$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%
<b>CONSTRUCTION MATERIALS TESTING</b>		\$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%
<b>ROCIPI</b>		\$1,499,307	5%	\$221,672	15%	\$16,872,858	51%
<b>TOTAL</b>		\$159,493,330	24%*	\$108,952,401	68%	\$593,525,701	68%
<b>LAND COST</b>				\$57,650		\$50,067,399	47%
<b>MISCELLANEOUS</b>						\$1,852,129	
<b>GRAND TOTAL</b>		\$159,493,330	25%*	\$109,010,051	68%	\$645,445,229	69%

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

\*\* This number excludes owner furnished equipment, large diameter pipe and land cost \$224,547,642.

M/WBE/HUB Invoiced	\$109,010,051
Grand Total Invoiced	\$645,445,229
* Exclusions Invoiced	\$224,547,642
M/WBE %	25.90%

# 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

