

# **WATER UTILITIES CAPITAL IMPROVEMENT PROGRAM**

## **MISSION**

The City of Dallas Water Utilities Department (DWU) is a City-owned enterprise utility providing regional water and wastewater services to the citizens of Dallas and to the surrounding Customer Cities. DWU's mission is to provide services vital to the health and safety of Dallas' citizens and customers and to support the City's efforts toward economic development, environmental protection and enhancement of quality of life, including water supply, treatment, and distribution; wastewater collection and treatment; and billing, payment processing and customer service.

The mission of the Water Utilities Department Capital Improvement Program is to provide an adequate water supply and wastewater treatment to its customers by the acquisition of future water and wastewater facilities and to renovate and construct improvements to existing water and wastewater facilities throughout the City of Dallas.

## **PROJECT CATEGORY DESCRIPTIONS**

### **Homeowners and Unserved Areas**

Funding for construction of water and wastewater main extensions to homeowners, service to unserved areas, and meters for water service.

### **Inflow/Infiltration Remediation**

Funding for the design and construction of improvements to eliminate inflow and infiltration conditions within the wastewater collection system.

### **Main Replacements and Pump Stations**

Funding for right-of-way acquisition, design and construction of new and replacement mains, pump stations, lift stations, ground storage reservoirs, and elevated tanks citywide as required by growth, development and obsolescence. Surveying services and geotechnical design are also included.

### **Public Art**

Includes the public art initiatives throughout the City of Dallas. Funds generated by Public Art appropriations are used for the design services of artists, for the selection, acquisition, commissioning and display of artworks and for administration of the public art projects.

### **Raw Water Pumping and Transmission**

Funding to acquire right-of-way for transmission facilities and for the design and construction of water transmission facilities to include the Lake Fork Pump Station and pipeline.

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## **Rehabilitation and Equipment**

Projects include the maintenance and renovation of major water and wastewater facilities.

## **Relocations In Advance of Paving**

Funding for non-reimbursed replacements of water mains, sanitary sewers and related facilities to permit widening and paving of streets and highways and storm drainage in coordination with City, County and State programs.

## **Service Centers, Offices and Research Facilities**

Funding for the renovation of existing service facilities and business and customer service systems.

## **Studies and Master Plans**

Funding for studies related to water and wastewater operations and master plan updates.

## **Wastewater Treatment Plants and Associated Facilities**

Funding to design and construct renovations, expansions, and improvements to the Central and Southside Wastewater Treatment Plants.

## **Water Supply Reservoirs and Dams**

Funding for dam inspection, consultation, rehabilitation and erosion studies for various dams.

## **Water Treatment Plants and Associated Facilities**

Funding to design and construct renovations, expansions and improvements to the City's three water treatment plants: Bachman Plant, East Side Plant and Elm Fork Plant.

## **Wholesale Customer Facilities (Funded by Customer Cities)**

Construction of facilities necessary to provide service to the Customer Cities. Funding for these projects comes from the wholesale customer cities.

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## **ACCOMPLISHMENTS FOR FY2001-02**

1. Began design of improvements at the Bachman Water Treatment Plant to increase water treatment capacity.
2. Awarded design contract to expand the treatment capacity of the East Side Water Treatment Plant by 100 Million Gallons per Day.
3. Began construction of Odor Control Improvements at the Central Wastewater Treatment Plant.
4. Completed construction of improvements at the Central Wastewater Treatment Plant to upgrade the permitted treatment capacity of the plant.
5. Completed Cost of Service Retail Rate Study.

## **OBJECTIVES FOR FY2002-03**

1. Begin comprehensive water and wastewater system management plans.
2. Begin construction of improvements at the Bachman Water Treatment Plant to increase water treatment capacity.
3. Begin construction of additional digester capacity at the Southside Wastewater Treatment Plant.
4. Complete construction of the new Solids Pump Station and Pipeline to transfer solids from the Central Plant to the Southside Plant.
5. Complete first construction contract for Odor Control Improvements at the White Rock section of the Central Wastewater Treatment Plant.

## **OPERATING COST**

Upon completion, certain capital improvement projects will have on-going costs associated with operating and maintaining the new facility, improvement or expansion. At this time, no additional operating and maintenance costs have been identified in the Water Utilities Capital Improvement Program.

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<u>Source of Funds</u>	<u>Budget as of 6-30-02</u>	<u>Spent or Committed as of 6-30-02</u>	<u>Remaining as of 6-30-02</u>	<u>FY2002-03 Adopted</u>	<u>Future Estimate</u>	<u>Total Estimated Cost</u>
Capital Construction - Wastewater	341,406,571	316,807,333	24,599,238	21,639,000	69,408,000	432,453,571
Capital Construction - Water	409,055,528	379,923,919	29,131,609	22,222,000	129,257,000	560,534,528
Wastewater Commercial Paper	233,468,387	197,599,712	35,868,675	64,856,000	170,071,000	468,395,387
Wastewater Revenue Bonds	94,887,754	94,802,319	85,435	0	0	94,887,754
Water Commercial Paper	411,190,854	376,928,591	34,262,263	86,540,000	282,329,000	780,059,854
Water Revenue Bonds	100,385,202	88,670,200	11,715,002	0	0	100,385,202
Water Utilities - Public Art Fund	995,000	203,961	791,039	43,000	235,000	1,273,000
<b>Total Sources of Funds</b>	<b>1,591,389,296</b>	<b>1,454,936,036</b>	<b>136,453,260</b>	<b>195,300,000</b>	<b>651,300,000</b>	<b>2,437,989,296</b>

*Totals reflect all active projects which are listed on the following pages.*

# WATER UTILITIES CAPITAL IMPROVEMENT PROGRAM

<u>Use of Funds</u>	<u>Budget as of 06-30-02</u>	<u>Spent or Committed 06-30-02</u>	<u>Remaining 06-30-02</u>	<u>FY2002-03 Adopted</u>	<u>Future Estimate</u>	<u>Total Estimated Cost</u>
Homeowners and Unserved Areas	62,210,612	56,553,265	5,657,347	1,350,000	28,080,000	91,640,612
Inflow/Infiltration Remediation	63,394,492	63,355,889	38,603	0	0	63,394,492
Main Replacements and Pump Stations	442,443,673	399,439,737	43,003,936	53,145,000	192,984,000	688,572,673
Public Art	995,000	203,961	791,039	43,000	235,000	1,273,000
Raw Water Pumping and Transmission	76,466,320	49,356,899	27,109,421	2,200,000	127,700,000	206,366,320
Rehabilitation and Equipment	99,230,159	88,549,796	10,680,363	7,500,000	21,953,000	128,683,159
Relocations In Advance of Paving	131,619,006	127,155,104	4,463,902	7,879,000	24,142,000	163,640,006
Service Centers, Offices and Research Facilities	28,390,943	27,110,658	1,280,285	0	30,000,000	58,390,943
Studies and Master Plans	15,441,741	11,122,432	4,319,309	4,871,000	0	20,312,741
Wastewater Treatment Plants and Associated Facilities	336,890,447	305,369,803	31,520,644	46,262,000	130,876,000	514,028,447
Water Supply Reservoirs and Dams	16,218,236	15,089,561	1,128,675	700,000	1,330,000	18,248,236
Water Treatment Plants and Associated Facilities	317,098,023	310,703,811	6,394,212	71,350,000	94,000,000	482,448,023
Wholesale Customer Facilities (Funded by Customer Cities)	990,644	925,119	65,525	0	0	990,644
<b>Total Uses of Funds</b>	<b>1,591,389,296</b>	<b>1,454,936,036</b>	<b>136,453,260</b>	<b>195,300,000</b>	<b>651,300,000</b>	<b>2,437,989,296</b>

# WATER UTILITIES CAPITAL IMPROVEMENT PROGRAM

Project Name	Project Category	Council District	Funding Source	Budget as of 6/30/02	Spent or Committed 6/30/02	Remaining as of 6/30/02	FY2002-03 Adopted	Future Estimate	Total Estimated Cost	In Service Date
Bachman Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	CW	Cap Con	13,819,579	13,756,237	63,342	4,354,000	2,500,000	20,673,579	Various
Bachman Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	CW	CP	27,968,563	27,542,881	425,682	66,996,000	40,700,000	135,664,563	Various
Bachman Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	CW	RB	7,466,692	7,466,692	0	0	0	7,466,692	Various
Central Wastewater Treatment Plant	Wastewater Trtmnt Plants/Assoc. Fac.	CW	CP	48,808,266	45,930,686	2,877,580	16,940,000	33,622,000	99,370,266	Various
Central Wastewater Treatment Plant	Wastewater Trtmnt Plants/Assoc. Fac.	CW	RB	18,460,285	18,424,735	35,550	0	0	18,460,285	Various
Central Wastewater Treatment Plant	Wastewater Trtmnt Plants/Assoc. Fac.	CW	Cap Con	47,294,365	44,404,483	2,889,882	4,000,000	8,880,000	60,174,365	Various
East Side Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	CW	CP	107,664,596	107,664,596	0	0	38,700,000	146,364,596	Various
East Side Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	CW	Cap Con	32,199,821	28,469,988	3,729,833	0	0	32,199,821	Various
East Side Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	CW	RB	4,671,257	4,671,257	0	0	0	4,671,257	Various
Elm Fork Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	CW	CP	95,864,337	94,914,336	950,001	0	9,000,000	104,864,337	Various
Elm Fork Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	CW	Cap Con	27,443,178	26,217,824	1,225,354	0	3,100,000	30,543,178	Various
Public Art Program - Wastewater	Public Art	CW	Cap Con	611,000	0	611,000	37,000	47,000	695,000	Various
Public Art Program - Water	Public Art	CW	Cap Con	384,000	203,961	180,039	6,000	188,000	578,000	Various
Raw Water Pumping and Transmission Facilities	Raw Water Pumping and Trans.	CW	Cap Con	41,101,968	40,428,198	673,770	2,200,000	23,600,000	66,901,968	Various

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Raw Water Pumping and Transmission Facilities	Raw Water Pumping and Trans.	CW	CP	22,968,741	6,562,091	16,406,650	0	104,100,000	127,068,741	Various
Raw Water Pumping and Transmission Facilities	Raw Water Pumping and Trans.	CW	RB	12,395,611	2,366,610	10,029,001	0	0	12,395,611	Various
Sewer Mains, Interceptors and Lift Stations	Main Rplcmnts/ Pump Stations	CW	CP	59,799,219	54,094,107	5,705,112	19,947,000	49,296,000	129,042,219	Various
Sewer Mains, Interceptors and Lift Stations	Main Rplcmnts/ Pump Stations	CW	Cap Con	84,190,624	76,823,213	7,367,411	7,900,000	35,660,000	127,750,624	Various
Sewer Mains, Interceptors and Lift Stations	Main Rplcmnts/ Pump Stations	CW	RB	11,453,863	11,446,919	6,944	0	0	11,453,863	Various
Southside Wastewater Treatment Plant	Wastewater Trtmnt Plants/Assoc. Fac.	CW	CP	103,821,172	78,921,170	24,900,002	24,822,000	77,869,000	206,512,172	Various
Southside Wastewater Treatment Plant	Wastewater Trtmnt Plants/Assoc. Fac.	CW	Cap Con	95,795,631	94,979,528	816,103	500,000	10,505,000	106,800,631	Various
Southside Wastewater Treatment Plant	Wastewater Trtmnt Plants/Assoc. Fac.	CW	RB	22,710,728	22,709,201	1,527	0	0	22,710,728	Various
Supply Reservoirs and Dams	Water Supply Reservoirs and Dams	CW	Cap Con	15,346,126	14,217,450	1,128,676	700,000	1,330,000	17,376,126	Various
Supply Reservoirs and Dams	Water Supply Reservoirs and Dams	CW	RB	872,110	872,110	0	0	0	872,110	Various
Wastewater Administrative Order	Inflow/Infiltration Remediation	CW	Cap Con	29,117,958	29,101,311	16,647	0	0	29,117,958	Various
Wastewater Administrative Order	Inflow/Infiltration Remediation	CW	RB	34,276,534	34,254,578	21,956	0	0	34,276,534	Various
Wastewater Facilities Repairs and Rehabilitation	Rehabilitation and Equipment	CW	Cap Con	39,158,328	31,748,297	7,410,031	3,750,000	10,977,000	53,885,328	Various
Wastewater Homeowners, Unserved Areas, Extensions and Improvements	Homeowners and Unserved Areas	CW	Cap Con	21,228,892	20,196,713	1,032,179	200,000	600,000	22,028,892	Various

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Wastewater Homeowners, Unserved Areas, Extensions and Improvements	Homeowners and Unserved Areas	CW	RB	2,116,496	2,115,972	524	0	0	2,116,496	Various
Wastewater Homeowners, Unserved Areas, Extensions and Improvements	Homeowners and Unserved Areas	CW	CP	129,565	129,565	0	0	0	129,565	Various
Wastewater Relocations	Relocations In Adv. of Paving	CW	RB	5,869,848	5,850,915	18,933	0	0	5,869,848	Various
Wastewater Relocations	Relocations In Adv. of Paving	CW	Cap Con	17,864,661	17,090,670	773,991	793,000	2,786,000	21,443,661	Various
Wastewater Relocations	Relocations In Adv. of Paving	CW	CP	18,180,997	15,795,016	2,385,981	3,147,000	9,284,000	30,611,997	Various
Wastewater Service Centers, Offices and Research Facilities	Service Ctrs, Ofc, Research Fac.	CW	Cap Con	1,055,533	875,958	179,575	0	0	1,055,533	Various
Wastewater Studies and Master Plans	Studies and Master Plans	CW	Cap Con	5,700,579	1,587,161	4,113,418	4,496,000	0	10,196,579	Various
Wastewater Studies and Master Plans	Studies and Master Plans	CW	CP	2,729,168	2,729,168	0	0	0	2,729,168	Various
Water Facilities Repairs and Rehabilitation	Rehabilitation and Equipment	CW	Cap Con	60,071,831	56,801,500	3,270,331	3,750,000	10,976,000	74,797,831	Various
Water Homeowners, Unserved Areas, Extensions and Improvements	Homeowners and Unserved Areas	CW	Cap Con	38,735,659	34,111,016	4,624,643	1,150,000	27,480,000	67,365,659	Various
Water Mains, Pumping and Storage Facilities	Main Rplcmnts/ Pump Stations	CW	CP	122,240,425	105,760,494	16,479,931	16,398,000	80,538,000	219,176,425	Various
Water Mains, Pumping and Storage Facilities	Main Rplcmnts/ Pump Stations	CW	RB	51,660,376	50,020,065	1,640,311	0	0	51,660,376	Various
Water Mains, Pumping and Storage Facilities	Main Rplcmnts/ Pump Stations	CW	Cap Con	113,099,166	101,294,939	11,804,227	8,900,000	27,490,000	149,489,166	Various
Water Relocations Due to Paving	Relocations In Adv. of Paving	CW	Cap Con	33,510,720	32,271,413	1,239,307	793,000	2,781,000	37,084,720	Various

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Water Relocations Due to Paving	Relocations In Adv. of Paving	CW	CP	32,873,624	32,873,624	0	3,146,000	9,291,000	45,310,624	Various
Water Relocations Due to Paving	Relocations In Adv. of Paving	CW	RB	23,319,156	23,273,466	45,690	0	0	23,319,156	Various
Water Service Centers, Offices and Research Facilities	Service Ctrs, Ofc, Research Fac.	CW	Cap Con	25,724,842	24,624,132	1,100,710	0	30,000,000	55,724,842	Various
Water Service Centers, Offices and Research Facilities	Service Ctrs, Ofc, Research Fac.	CW	CP	1,610,568	1,610,568	0	0	0	1,610,568	Various
Water Studies and Master Plans	Studies and Master Plans	CW	Cap Con	7,011,994	6,806,103	205,891	375,000	0	7,386,994	Various
Water Wholesale Customer Facilities	Wholesale Customer Facilities	CW	Cap Con	990,644	925,119	65,525	0	0	990,644	Various
<b>Total Water Utilities</b>				<b>1,591,389,296</b>	<b>1,454,936,036</b>	<b>136,453,260</b>	<b>195,300,000</b>	<b>651,300,000</b>	<b>2,437,989,296</b>	