



**RIVERBEND RESOLUTION NO. 20160928-01**

**ADOPTING THE FY 2015-2016 MEMBER ENTITIES' TRUE-UP  
FOR USE IN FY 2016-2017 WATER RATES AND FEES OF THE  
RIVERBEND WATER RESOURCES DISTRICT**

**WHEREAS**, Riverbend Water Resources District is a conservation and reclamation district created under and essential to accomplish the purposes of Section 59 Article XVI, Texas Constitution, existing pursuant to and having the powers set forth in Chapter 9601 of the Special District Local Laws Code of the State of Texas; and

**WHEREAS**, Riverbend Water Resources District is charged with oversight of the annual true-up conducted amongst and between the City of Texarkana, Texas and all Member Entities; and

**WHEREAS**, Texarkana Water Utilities conducted a review of its previous annual budget, calculated FY 2015-2016 water consumption calculations, and proposed an annual budget for FY 2016-2017 to be used in establishing the water rates; and

**WHEREAS**, Riverbend Water Resources District held an annual True-Up meeting on August 30, 2016 at 10:00 a.m. at the Riverbend Offices to discuss the true-up process and information provided by the City of Texarkana and its water department through Texarkana Water Utilities; and

**NOW, THEREFORE, BE IT RESOLVED** that the Board of Directors of the Riverbend Water Resources District hereby adopts the FY 2015-2016 Member Entities' True-Up for use in FY 2016-2017 water rates and fees of the Riverbend Water Resources District.

**PASSED and APPROVED this 28th day of September, 2016**

A handwritten signature in blue ink, appearing to read "Sean Rommel", is written over a horizontal line.

Sean Rommel, President

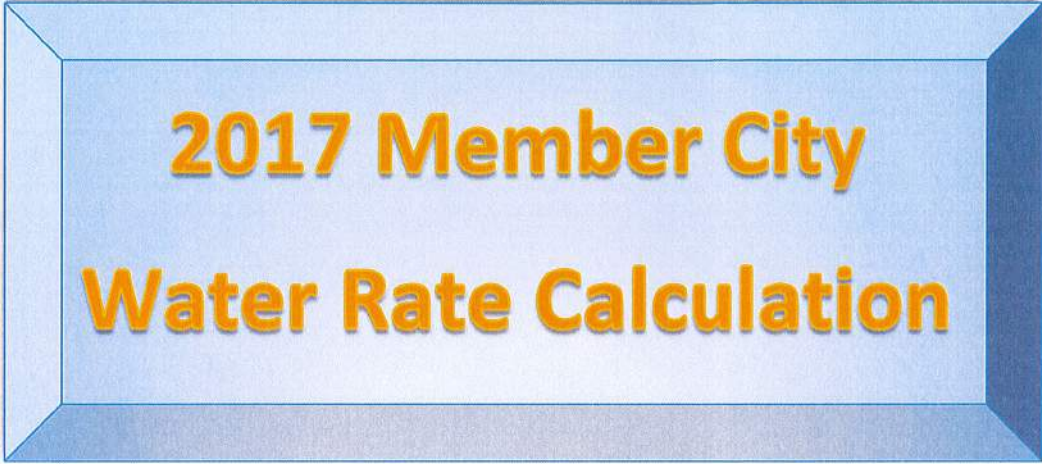


ATTEST:

A handwritten signature in blue ink, appearing to read "Fred Milton", is written over a horizontal line.

Fred Milton, Secretary

Attached: 2016-2017 Member City Rate Calculation Packet provided by Texarkana Water Utilities



**2017 Member City  
Water Rate Calculation**

**City of Texarkana, Texas**  
**Proposed Water Production Rate Assumptions**  
**9/30/2017**

**Assumptions regarding the 2017 Water Rate:**

- 1) The water rate is determined based on the adopted FY 2017 Water Department Budget.
- 2) The administration overhead rate has been calculated using 5% of total budget water production costs.
- 3) The 2015 True up is not included in the actual water rate. Once the true up has been decided, it will be billed monthly as an amount on each individual Member City monthly billing.
- 4) The infrastructure cost is not included in the actual water rate. Once the cost has been decided, it will be billed monthly as an amount on each individual Member City monthly billing.
- 5) The debt service cost is not included in the actual water rate. Once the cost has been decided, it will be billed monthly as an amount on each individual Member City monthly billing.
- 6) Monthly billings will use estimated gallons as projected in the current budget.
- 7) The water rate calculated for 2017 excludes the amount due to Riverbend. Each City will be responsible for remitting their amount directly to Riverbend.

**TEXARKANA WATER UTILITIES**

**WRIGHT PATMAN WATER TREATMENT PLANT- 410**

	<i>Actual 14-15</i>	<i>Budget 15-16</i>	<i>Revised 15-16</i>	<i>Budget 16-17</i>
<b><u>EXPENDITURES</u></b>				
Personal Services	1,114,145	1,259,452	1,103,665	1,311,070
Supplies	857,394	875,960	741,910	859,900
Repairs & Maintenance	169,369	202,882	189,020	201,420
Contractual Services	569,682	573,733	578,342	602,826
Capital Outlay	0	0	0	0
<b>TOTAL</b>	<b>2,710,590</b>	<b>2,912,027</b>	<b>2,612,937</b>	<b>2,975,216</b>

**PERSONAL SERVICES**

511100	Supervision	142,775	147,301	156,708	153,780
511111	Management-Regular	4,357	23,163	22,218	23,857
511113	Management-Incentive	339	1,838	1,880	1,838
511211	Supervision-Reg Pay	122,113	117,300	113,347	123,085
511212	Supervision-Overtime	12,258	5,000	19,263	5,000
511214	Supervision-Standby	3,708	0	0	0
511411	Maintenance & Oper	513,365	622,881	498,236	668,319
511412	Overtime	86,989	43,000	84,986	43,000
511414	Standby	3,858	0	0	0
511415	Shift Differential	7,213	7,500	6,272	7,500
511523	Payout-Comp Time	769	0	0	0
511611	Temporary Labor	16,026	10,000	5,601	10,000
511811	Stipend	0	0	0	0
512111	Longevity	7,008	6,252	6,567	7,425
512112	Group Insurance	123,137	184,070	122,260	160,997
512114	Retirement	129,326	132,723	119,163	141,750
512115	Social Security	56,833	63,260	57,587	67,322
512116	Workmen's Comp	18,623	17,115	16,775	19,007
512117	Unemployment	8,656	0	0	0
512118	Employee Screening	49	500	10	220
512121	Incentive	0	500	0	0
512100	Education & Training	13,945	24,350	29,500	31,750
512122	Seminars	235	300	3,000	3,000
512123	Training Schools	7,050	13,000	15,000	15,500
512124	Travel	3,881	6,000	8,000	8,000
512125	Books & Subscriptions	0	50	0	50
512126	Dues	1,106	2,000	1,500	2,200
512127	Licenses	1,673	3,000	2,000	3,000
512128	Awards & Certificates				
519999	Salary & Ben Transfer	(14,427)	0	0	0
<b>TOTAL</b>		<b>1,114,145</b>	<b>1,259,452</b>	<b>1,103,665</b>	<b>1,311,070</b>

**TEXARKANA WATER UTILITIES**

**WRIGHT PATMAN WATER TREATMENT PLANT- 410**

	<i>Actual</i>	<i>Budget</i>	<i>Revised</i>	<i>Budget</i>	
	<i>14-15</i>	<i>15-16</i>	<i>15-16</i>	<i>16-17</i>	
<b><u>SUPPLIES</u></b>					
521100	Office Supplies	1,057	2,750	1,800	2,000
521111	Paper	116	200	200	200
521112	Writing Instruments	15	50	50	50
521113	Computer Supplies	411	2,000	700	1,000
521114	Other Off Sup & Exp	515	500	750	750
521115	Minor Software	0		100	
521200	Operating Supplies	3,908	6,000	7,300	6,500
521211	Consumable Items	2,529	4,500	5,800	5,000
521212	Non Consumable Items	1,379	1,500	1,500	1,500
521311	Botanical Supplies	0	50	0	0
521400	Safety	12,997	14,300	10,000	9,600
521411	Personal Protect Equip	947	3,000	3,000	3,000
521413	Emergency Response Eq	1,017	500	0	0
521415	Facilities Maintenance	10,819	10,000	6,000	6,000
521417	Laboratory & Environ	214	500	300	300
521418	Storage & Handling	0	100	500	100
521419	Grounds Maintenance	0	200	200	200
521700	Minor Tools	3,205	5,500	5,500	5,500
521711	Electronic Tools	252	2,000	1,500	1,500
521712	Hand Tools	2,018	2,000	2,000	2,000
521713	Power Tools	935	1,500	2,000	2,000
521900	Wearing Apparel	6,629	8,400	7,200	8,200
521911	Uniform Cost				
521912	Uniform Maintenance	6,564	7,900	6,900	7,900
521913	All Weather Gear	65	500	300	300
521919	Other Wearing Apparel				
522300	Laundry & Janitorial	2,523	3,110	1,610	1,600
522311	Laundry Service				
522312	Janitorial Service	1,552	1,610	1,610	1,600
522313	Laundry & Jan Supplies	971	1,500		
522500	Lab & Photo Supplies	29,931	34,000	28,000	31,000
522511	Lab Supplies	2,653	2,500	4,500	4,500
522512	Lab Chemicals	26,790	30,000	22,000	25,000
522513	Lab Equipment Repairs	488	1,500	1,500	1,500
522521	Photo Supplies & Exp				
522700	Printing	40	350	1,000	1,000
522711	Stationery				
522712	Billing Forms	0			
522713	Other Forms	40	100	500	500

**TEXARKANA WATER UTILITIES**

**WRIGHT PATMAN WATER TREATMENT PLANT- 410**

		<i>Actual</i> <i>14-15</i>	<i>Budget</i> <i>15-16</i>	<i>Revised</i> <i>15-16</i>	<i>Budget</i> <i>16-17</i>
522719	Other	0	250	500	500
522800	Chemicals - Plant	789,619	780,000	665,000	780,000
522811	Activated Carbon				
522812	Anhydrous Ammonia	20,436	20,000	20,000	20,000
522813	Calcium Hypochlorinate				
522815	Caustic Soda	376,659	300,000	250,000	300,000
522816	Chlorine	38,945	50,000	50,000	50,000
522817	Copper Sulphate		0		
522819	Hydrated Lime	0			
522821	Liquid Alum	266,406	300,000	250,000	300,000
522822	Polymer	0	10,000	10,000	0
522823	Potassium Permanganate				
522824	Sodium Chlorite	0	10,000	40,000	60,000
522826	Zinc Ortho Phosphate	21,948	25,000	20,000	25,000
522827	Sodium Hydroxide				
522839	Other	65,225	65,000	25,000	25,000
522900	Chemicals - Lake	7,485	21,500	14,500	14,500
522914	Carbon	0	20,000	10,000	10,000
522916	Chlorine	0			
522917	Copper Sulphate	0	1,500	1,500	1,500
522939	Other	7,485		3,000	3,000
<b>TOTAL</b>		<b>857,394</b>	<b>875,960</b>	<b>741,910</b>	<b>859,900</b>

**REPAIRS & MAINTENANCE**

531111	Office Machines & Eq	0	0	75	0
531200	Motor Vehicles	20,522	25,250	22,675	25,900
531211	Antifreeze	50	100	75	100
531212	Batteries	109	400	350	400
531213	Filters	221	250	500	500
531214	Fuel	17,792	20,000	15,000	20,000
531215	Lubricates	344	400	500	500
531216	Parts	1,493	2,000	3,500	2,000
531217	Tires	408	1,500	1,500	1,500
531218	Labor	83	100	150	100
531219	Subcontracts	0	200	1,000	500
531221	Towing				
531239	Repairs Other	22	300	100	300
531700	Machinery & Equip	4,416	6,500	6,000	7,000
531711	Antifreeze		100	0	100
531712	Batteries	133	200	200	200
531713	Filters	78	100	100	100

**TEXARKANA WATER UTILITIES**

**WRIGHT PATMAN WATER TREATMENT PLANT- 410**

		<i>Actual</i> <i>14-15</i>	<i>Budget</i> <i>15-16</i>	<i>Revised</i> <i>15-16</i>	<i>Budget</i> <i>16-17</i>
531714	Fuel	2,185	3,000	1,500	3,000
531715	Lubricates	314	100	100	100
531716	Parts	611	1,000	2,500	1,500
531717	Tires	1,035	1,500	1,000	1,500
531718	Labor	60	500	600	500
531719	Subcontracts	0			
531739	Repairs Other	0			
531800	Signal Equipment	545	3,500	3,500	3,500
531811	Radios	0	500	500	500
531812	Telemetry	545	3,000	3,000	3,000
532100	Building	2,991	4,000	5,050	5,300
532111	Heating & Cooling	1,915	2,000	1,750	2,000
532112	Other Building	1,076	1,500	3,000	3,000
532113	Grounds & Parking Lots	0	500	300	300
533100	Water Treatment Equip	64,547	107,000	110,000	120,000
533111	Intake	6,003	60,000	30,000	40,000
533112	Plant	53,424	40,000	70,000	70,000
533113	Booster Stations	5,120	7,000	10,000	10,000
533200	Water Transmission Mains	9,666	21,500	21,000	19,000
533211	Raw Water Mains	6,738	4,000	4,000	4,000
533212	Treated Water Mains	1,183	2,500	7,000	5,000
533213	Member Cities Mains	1,745	15,000	10,000	10,000
533500	Fire Hydrants	0	0	0	0
533511	Fire Hydrants				
533512	Fire Hydrants-LTWSC				
533600	Tanks & Reservoirs	69,882	40,000	25,000	25,000
533611	MC Tanks & Reservoirs	64,343	20,000	15,000	15,000
533612	Other Tanks & Reserv	5,539	20,000	10,000	10,000
534100	Sewer Equipment R & M	0	600	600	600
534121	Sewer Instrument R&M	0	600	600	600
533711	Sludge Pond Maintenance				
539998	Equipment Utilization	2,260	0	0	0
539999	Equipment Apportionment	(5,460)	(5,468)	(4,880)	(4,880)
<b>TOTAL</b>		<b>169,369</b>	<b>202,882</b>	<b>189,020</b>	<b>201,420</b>

**CONTRACTUAL SERVICES**

541111	Accounting & Audit	2,247	4,000	4,000	4,000
541311	Communications	10,284	14,000	14,000	14,883
541700	Rentals	1,569	2,000	2,000	2,000
541711	Equipment Rental	1,569	2,000	2,000	2,000
541712	Building Rental				



**TEXARKANA WATER UTILITIES**

**WRIGHT PATMAN WATER TREATMENT PLANT- 410**

		<i>Actual</i>	<i>Budget</i>	<i>Revised</i>	<i>Budget</i>
		<i>14-15</i>	<i>15-16</i>	<i>15-16</i>	<i>16-17</i>
541900	Fees and Permits	35,484	37,100	37,000	42,000
541911	Water System Serv Fee	35,484	35,500	35,500	40,500
541912	Water System Permits	0	500	500	500
541919	Other Fees & Permits	0	1,100	1,000	1,000
541931	Fines & Penalties				
542411	Freight Charges				
543111	Refuse Hauling	1,985	2,000	2,000	2,000
543400	Insurance	37,153	38,220	38,804	38,817
543411	Property Insurance	30,194	31,000	32,979	32,985
543412	Liability Insurance	4,215	4,220	3,278	3,285
543413	Automotive Insurance	2,744	3,000	2,547	2,547
543600	Laboratory Services	8,295	10,000	15,000	15,000
543611	State Lab Fees		0	1,000	1,000
543612	Commercial Lab Fees	8,295	8,000	12,000	12,000
543613	Comm Lab Fees-Other	0	2,000	2,000	2,000
543900	Legal	0	0	0	0
543911	Legal Advertising				
543913	Attorney Fees				
544100	Maintenance Contracts	3,066	7,000	6,000	7,000
544111	Computer				
544112	Software	2,813	4,000	4,000	4,000
544119	Other Maint Contract	253	3,000	2,000	3,000
544900	Postage	552	600	725	725
544911	Postage	6		125	125
544912	Special Delivery	546	600	600	600
545200	Power Purchases	284,321	258,000	268,000	283,000
545211	Electrical	277,135	250,000	260,000	275,000
545212	Gas	7,186	8,000	8,000	8,000
545511	Power Purchases - Lake	184,059	200,000	190,000	190,000
545700	Special Services	54	200	200	2,788
545711	One Call Services				
545712	Pest Control		200	100	200
545719	Other Special Services	54		100	2,588
546311	Water Rights	613	613	613	613

**TEXARKANA WATER UTILITIES**

**WRIGHT PATMAN WATER TREATMENT PLANT- 410**

	<i>Actual 14-15</i>	<i>Budget 15-16</i>	<i>Revised 15-16</i>	<i>Budget 16-17</i>
<b>TOTAL</b>	<b>569,682</b>	<b>573,733</b>	<b>578,342</b>	<b>602,826</b>
<b><u>CAPITAL OUTLAY</u></b>				
551114 Machinery & Equipment	0	0	0	0
551115 Communications Equip	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL BUDGET</b>	<b>2,710,590</b>	<b>2,912,027</b>	<b>2,612,937</b>	<b>2,975,216</b>

100% Texas

2,975,216

<b>14-15 Actual Exp not included on budget sheet above:</b>	
Pay Out - Annual Leave	4,517
Pay Out - Post Ret Ins	13,194
Pay Out - Sick Leave	7,595
Pay Out - Comp Time	390
Accrued Payroll	1,903
Accrued Vacation and Sick	(5,961)
Accrued Group Insurance	(29)
Accrued Consumable Items	31
Accrued Facilities Maintenance	35
Accrued Uniform Maintenance	(241)
Accrued Janitorial Service	175
Accrued Caustic Soda	(7,483)
Accrued Subcontracts	(15)
Accrued Other Building	1,680
Accrued Intake	216
Accrued Booster Stations	604
Accrued MC Tanks & Reservoirs	3,339
Accrued Commerical Lab Fees	731
Accrued Electrical	8,824
Accrued Power Purchases- Lake	27,259
	<u>56,766</u>
<b>Reconciliation</b>	
Total Actual Exp Above for 14-15	2,710,590
Additional Expenses for 14-15	56,766
	<u>2,767,356</u>
Balance on 2015 True Up Detail (pg 26)	2,767,358
Difference (Rounding)	(2)

**TEXARKANA WATER UTILITIES**

**MILLWOOD WATER TREATMENT PLANT- 420**

	<i>Actual</i> 14-15	<i>Budget</i> 15-16	<i>Revised</i> 15-16	<i>Budget</i> 16-17
<b>EXPENDITURES</b>				
Personal Services	301,085	300,424	347,484	314,724
Supplies	175,219	213,500	243,075	244,675
Repairs & Maintenance	48,538	70,900	67,182	68,232
Contractual Services	622,021	623,870	687,273	698,868
Capital Outlay	0	0	0	0
<b>TOTAL</b>	<b>1,146,863</b>	<b>1,208,694</b>	<b>1,345,014</b>	<b>1,326,499</b>

**PERSONAL SERVICES**

511200	Supervision	15,502	49,001	48,741	54,520
511111	Management-Regular	1,443		22,629	23,857
511113	Management-Incentive	85	1,838	1,795	1,838
511211	Supervision-Regular	11,560	46,163	21,350	28,325
511212	Supervision-Overtime	2,076	500	2,967	500
511214	Supervision-Standby	338	500	0	0
511411	Maintenance & Oper	160,775	150,817	165,545	158,284
511412	Overtime	28,754	5,000	30,582	5,000
511415	Shift Differential	589	0	1,304	500
511523	Payout- Comp Time	0	0	0	0
511611	Temporary Labor	0	0	310	0
511811	Stipend	0	0	0	0
512111	Longevity	3,528	3,996	5,487	5,100
512112	Group Insurance	34,709	35,418	30,652	30,987
512114	Retirement	35,464	33,515	39,887	36,089
512115	Social Security	15,421	15,974	19,276	17,140
512116	Workmen's Comp	2,500	2,703	3,035	3,069
512118	Employee Screening	0	0	0	35
512121	Incentive	0	0	0	0
512100	Education & Training	3,942	4,000	2,665	4,000
512122	Seminars	315		165	
512123	Training Schools	2,200	2,000	1,000	2,000
512124	Travel	459	1,000	500	1,000
512125	Books & Subscriptions				
512126	Dues	335	500	500	500
512127	Licenses	633	500	500	500
512128	Awards & Certificates				
519999	Salary & Benefit Transfer	(99)	0	0	0
<b>TOTAL</b>		<b>301,085</b>	<b>300,424</b>	<b>347,484</b>	<b>314,724</b>

**SUPPLIES**

**TEXARKANA WATER UTILITIES**

**MILLWOOD WATER TREATMENT PLANT- 420**

		<i>Actual 14-15</i>	<i>Budget 15-16</i>	<i>Revised 15-16</i>	<i>Budget 16-17</i>
521100	Office Supplies	206	700	625	525
521111	Paper	0	50	50	50
521112	Writing Instruments	0	50	25	25
521113	Computer Supplies	4	300	300	300
521114	Other	202	300	150	150
521115	Minor Software Lic			100	
521200	Operating Supplies	832	1,500	2,300	1,500
521211	Consumable Items	454	1,000	1,300	1,000
521212	Non Consumable Items	378	500	1,000	500
521311	Botanical Supplies	0	50	0	50
521400	Safety	3,674	4,500	4,300	6,300
521411	Personal Protect Equip	287	2,000	1,000	1,000
521413	Emergency Response Eq	186	300	300	300
521415	Facilities Maintenance	2,534	2,000	2,000	4,000
521417	Laboratory & Environ				
521418	Storage & Handling				
521419	Grounds Maintenance	667	200	1,000	1,000
521700	Minor Tools	170	700	900	900
521711	Electronic Tools				
521712	Hand Tools	170	300	500	500
521713	Power Tools	0	400	400	400
521900	Wearing Apparel	1,674	2,050	1,850	2,050
521911	Uniform Cost				
521912	Uniform Maintenance	1,674	2,000	1,800	2,000
521913	All Weather Gear		50	50	50
521919	Other Wearing Apparel				
522300	Laundry & Janitorial	2,378	2,300	2,400	2,400
522311	Laundry Service				
522312	Janitorial Service	1,899	2,000	2,000	2,000
522313	Laundry & Jan Supplies	479	300	400	400
522500	Lab & Photo Supplies	4,098	5,500	5,500	5,750
522511	Lab Supplies	422	1,000	750	1,000
522512	Lab Chemicals	3,676	4,000	4,250	4,250
522513	Lab Equipment Repairs		500	500	500
522521	Photo Supplies & Exp				
522700	Printing	398	200	200	200
522711	Stationery				
522712	Billing Forms				
522713	Other Forms				
522719	Other	398	200	200	200

**TEXARKANA WATER UTILITIES**

**MILLWOOD WATER TREATMENT PLANT- 420**

		<i>Actual</i> <i>14-15</i>	<i>Budget</i> <i>15-16</i>	<i>Revised</i> <i>15-16</i>	<i>Budget</i> <i>16-17</i>
522800	Chemicals - Plant	161,789	196,000	225,000	225,000
522811	Activated Carbon				
522812	Anhydrous Ammonia	9,687	10,000	15,000	15,000
522813	Calcium Hypochlorinate				
522815	Caustic Soda				
522816	Chlorine	17,088	20,000	25,000	25,000
522817	Copper Sulphate				
522819	Hydrated Lime	29,166	35,000	50,000	50,000
522821	Liquid Alum	78,756	95,000	95,000	95,000
522822	Polymer				
522823	Potassium Permanganate				
522824	Sodium Chlorite				
522826	Zinc Ortho Phosphate	14,632	16,000	20,000	20,000
522839	Other Chemicals	12,460	20,000	20,000	20,000
522914	Chemicals-Carbon				
<b>TOTAL</b>		<b>175,219</b>	<b>213,500</b>	<b>243,075</b>	<b>244,675</b>

**REPAIRS & MAINTENANCE**

531111	Office Machines & Eq				
531200	Motor Vehicles	1,108	2,800	2,607	3,157
531211	Antifreeze	2	50	50	50
531212	Batteries		100	100	100
531213	Filters	49	50	50	50
531214	Fuel	984	2,000	1,500	2,000
531215	Lubricates	73	150	50	100
531216	Parts	0	50	50	50
531217	Tires	0	400	800	800
531218	Labor				
531219	Subcontract	0			
531239	Other	0		7	7
531700	Machinery & Equip	17,989	14,850	16,325	17,825
531711	Antifreeze		50	50	50
531712	Batteries	736	200	200	200
531713	Filters	0	50	25	25
531714	Fuel	10,355	12,000	10,500	12,000
531715	Lubricates	169	50	50	50
531716	Parts	564	2,000	1,000	1,000
531717	Tires	136	500	500	500
531718	Labor	4,303		4,000	4,000
531719	Subcontract	1,726			

**TEXARKANA WATER UTILITIES**

**MILLWOOD WATER TREATMENT PLANT- 420**

		<i>Actual 14-15</i>	<i>Budget 15-16</i>	<i>Revised 15-16</i>	<i>Budget 16-17</i>
531739	Other				
531800	Signal Equipment	159	1,000	1,000	1,000
531811	Radios				
531812	Telemetry	159	1,000	1,000	1,000
532100	Building	6,902	2,250	3,250	3,250
532111	Heating & Cooling	6,011	1,000	2,000	2,000
532112	Other Building	891	1,250	1,250	1,250
532113	Grounds & Parking Lots	0			
533100	Water Treatment Equip	19,304	38,000	38,000	35,000
533111	Intake	2,844	10,000	5,000	5,000
533112	Plant	13,807	18,000	15,000	15,000
533113	Booster Station	2,653	10,000	18,000	15,000
533200	Water Transmission Mains	415	3,000	3,000	5,000
533211	Raw Water Mains	288			
533212	Treated Water Mains	127	3,000	3,000	5,000
533213	Member Cities Mains				
533500	Fire Hydrants	0	0	0	0
533511	Fire Hydrants				
533512	Fire Hydrants-LTWSC				
533600	Tanks & Reservoirs	1,811	8,000	3,000	3,000
533611	MC Tanks & Reservoirs				
533612	Other Tanks & Reserv	1,811	8,000	3,000	3,000
533711	Sludge Pond Maintenance		1,000	0	0
539998	Equipment Utilization	850			
<b>TOTAL</b>		<b>48,538</b>	<b>70,900</b>	<b>67,182</b>	<b>68,232</b>

**CONTRACTUAL SERVICES**

541111	Accounting & Audit	1,348	2,000	2,000	2,000
541311	Communications	8,765	8,710	8,710	9,527
541700	Rentals	4,408	0	0	0
541711	Equipment Rental	4,408			
541712	Building Rental				
541900	Fees and Permits	43,483	44,400	44,473	44,473
541911	Water System Serv Fee	42,073	42,000	42,073	42,073
541912	Water System Permits	1,400	1,400	1,400	1,400
541919	Other Fees & Permits	10	1,000	1,000	1,000
541923	Wastewater Permit				
541931	Fines & Penalties				
543400	Insurance	12,232	12,260	13,290	13,635
543411	Property Insurance	11,101	11,120	12,123	12,128

**TEXARKANA WATER UTILITIES**

**MILLWOOD WATER TREATMENT PLANT- 420**

	<i>Actual</i>	<i>Budget</i>	<i>Revised</i>	<i>Budget</i>
	<i>14-15</i>	<i>15-16</i>	<i>15-16</i>	<i>16-17</i>
543412 Liability Insurance	749	755	798	803
543413 Automotive Insurance	382	385	369	704
543600 Laboratory Services	977	1,000	6,000	6,000
543611 State Lab Fees				
543612 Comm Lab Fees-POTW	977	1,000	6,000	6,000
543613 Comm Lab Fees-Other				
544100 Maintenance Contracts	0	0	500	500
544111 Computer				
544112 Software				
544119 Other Equipment			500	500
544911 Postage				
544912 Special Delivery Service	120	0	0	0
545200 Power Purchases	208,523	200,000	250,000	250,000
545211 Electrical	208,523	200,000	250,000	250,000
545212 Gas				
545511 Power Purchases - Lake				
545700 Special Services	18	300	300	733
545711 One Call Services				
545712 Pest Control		300	300	300
545719 Other Special Services	18			433
546311 Water Rights	153,181	165,000	155,000	165,000
546312 Water Rights-10MG	188,966	190,200	207,000	207,000
<b>TOTAL</b>	<b>622,021</b>	<b>623,870</b>	<b>687,273</b>	<b>698,868</b>
Less: Water Rights - 10MG (100% Arkansas)	(188,966)	(190,200)	(207,000)	(207,000)
	<b>433,055</b>	<b>433,670</b>	<b>480,273</b>	<b>491,868</b>

**CAPITAL OUTLAY**

551111 Office Furn & Equipment				
551114 Machinery & Equipment				
551115 Communications				
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**TOTAL BUDGET** 957,897 1,018,494 1,138,014 1,119,499

100% Arkansas 1,119,499

TEXARKANA WATER UTILITIES

**MILLWOOD WATER TREATMENT PLANT- 420**

	<i>Actual</i> <i>14-15</i>	<i>Budget</i> <i>15-16</i>	<i>Revised</i> <i>15-16</i>	<i>Budget</i> <i>16-17</i>
<b>14-15 Actual Exp not included on budget sheet above:</b>				
Pay out Annual Leave	1,788			
Accrued Payroll	1,110			
Accrued Vacation and Sick	1,318			
Accrued Group Insurance	(6)			
Accrued Janitorial Service	78			
Accrued Electrical	(1,867)			
	2,420			
<b>Reconciliation</b>				
Total Actual Exp Above for 14-15	957,897			
Additional Expenses for 14-15	2,420			
	960,317			
Balance on 2015 True Up Detail (pg 26)	960,320			
Difference (Rounding)	(3)			



**TEXARKANA WATER UTILITIES**  
**MEMBER CITIES BILLING**  
**WRIGHT PATMAN SLUDGE PROCESSING COST**  
**FY 2017 ESTIMATED**

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**Composting Costs:**

**Compost Division Budget Expenses (580):**

Personal Services	166,025
Supplies	9,740
Repairs & Maintenance	127,840
Contractual Services	16,874
Capital Outlays	<u>0</u>
Total Division Expenses	<u>320,479</u>

**Other Labor & Benefits (530):**

Operator II (1300 Bldg)	35,062
Plant Mechanic I (1/2)	<u>15,605</u>
Total Other Labor	<u>50,667</u>

Benefit Percentage	X	<u>51.66%</u>
Total Benefit Cost		<u>26,175</u>

Total Other Labor & Benefits	<u>76,842</u>
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<b>Total Composting &amp; Other Labor Costs</b>	<b>397,321</b>
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**Amount Attributable to Water Treatment**

**Plant Sludge (TSS):**

Wright Patman Solids (Metric Tons)	907.190	
South Regional Influent Solids (Metric Tons)	<u>1,776.750</u>	
Water Treatment TSS Ratio		<u>51.05896%</u>

<b>Total Applicable Compost Costs</b>		<b>202,868</b>
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**Sludge Chemical Costs:**

Total Cost of Polymer	95,000
Water Treatment TSS Ratio	<u>51.05896%</u>

<b>Total Sludge Chemical Costs</b>		<b>48,506</b>
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**Transportation Costs:**

200 Site Pumping Costs (Electrical)	92,478
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**Amount Attributable to Water Treatment Plant Waste:**

Wright Patman Gallons Wasted (Mil Gallons)	224.007	
South Regional Influent Flows (Mil Gallons)	<u>3,582.000</u>	
Water Treatment Plant Volume Ratio		<u>6.25369%</u>

<b>Total Transportation Costs</b>		<b><u>5,783</u></b>
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<b>Total Estimated Sludge Processing Costs Applicable to Water Plant</b>		<b>257,157</b>
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**Less Compost Sales:**

Total Compost Sales (Estimated)	91,088	
Water Treatment TSS Ratio	<u>51.05896%</u>	
<b>Sales Applicable to Water Treatment Plant Sludge</b>		<b><u>(46,509)</u></b>

<b>Net Sludge Processing Costs Applicable to Water Plant</b>		<b><u><u>210,648</u></u></b>
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TEXARKANA WATER UTILITIES

**Millwood Water Treatment Plant Depreciation Fund**

	<i>Actual FY 2015</i>	<i>Proposed FY 2016</i>	<i>Revised FY 2016</i>	<i>Proposed FY 2017</i>
<b>BEGINNING BALANCE</b>	<b>1,285,240</b>	<b>1,164,980</b>	<b>1,170,779</b>	<b>1,357,631</b>
<b>REVENUE</b>				
Transfer from Revenues	103,000	280,967	280,967	156,000
Interest Income	55	0	0	0
<b>TOTAL REVENUE</b>	<b>103,055</b>	<b>280,967</b>	<b>280,967</b>	<b>156,000</b>
<b>TOTAL FUNDS AVAILABLE</b>	<b>1,388,295</b>	<b>1,445,947</b>	<b>1,451,746</b>	<b>1,513,631</b>
<b>EXPENDITURES</b>				
Sludge Pond Cleaning A131403	165,531			
Repipe Clearwell & Baffling A131601		550,000	0	
Paint Bridge Pipework A131602		225,000	0	225,000
Chemical Building Roof Replacement A131603		80,000	0	
Basin Repair A131604		100,000	0	100,000
Security Enhancement A131605, A131	2,856	10,000	1,715	
Raw Water Aeration Improvements A131606		20,000	0	
Lime Machine Replacement (2) A131607		19,000	0	
Filter Rehab- Phases I- III A131515	10,465			
Storage Building A131608		11,500	0	11,500
Replace Ammoniator A131519	13,210			
Replace Flocculator Drives A131520	15,026			
Replace Chlorinators A131609		50,000	0	50,000
Replace Jar Test Mixer A131517	3,045			
Scott SCBA Safety Equip-Emerg Repl. A131518	7,383			
Filter Rehab- Phases IV- VII A131610		45,000	10,455	45,000
Rebuild HS Pump/ Motor A131611		80,000	0	80,000
Replace Mixed Gas Detector A131612		1,200	1,121	
Replace Caustic Pumps/ Drives A131613		10,000	0	40,000
Caustic Tank A131614		18,500	18,500	
Soils Testing A131615		5,000	0	
Turbidimeters/ PH Meters Emerg Repl A131616			12,679	
Replace Communication Tower A131617			166	40,000
MW Network Infrastructure A131618			10,000	
Replace Chlorine Analyzer A131619			3,257	
Concrete Foundation for Caustic Tanks A131620			30,000	
Digital Radios A131624			4,172	4,172
Replace Ice Maker A131625			2,050	
Chlorine Scales				17,000
Chemical Bldg, HVAC Repl				40,000
Pipe Galley Repairs				25,000
Sludge Pond Cleaning- 2017				100,000
Caustic Pumps/Drives				20,000
Ultrasonic Raw Meter				5,000
Intake Aeration				42,000
De-ionized Water System				5,000
<b>TOTAL EXPENDITURES</b>	<b>217,516</b>	<b>1,225,200</b>	<b>94,115</b>	<b>849,672</b>
<b>ENDING BALANCE</b>	<b>1,170,779</b>	<b>220,747</b>	<b>1,357,631</b>	<b>663,959</b>
<b>Transfers from Revenue:</b>				
Texas Percentage ( X .9533)	61.83%	62.95%	62.95%	62.63%
Arkansas Share	42,289	112,358	112,358	38,491
Texas Share	60,711	168,609	168,609	117,509
<b>Total</b>	<b>103,000</b>	<b>280,967</b>	<b>280,967</b>	<b>156,000</b>
<b>Ending Balances:</b>				
Arkansas	864,742	220,513	942,230	663,199
Texas	306,037	234	415,401	760
<b>Total</b>	<b>1,170,779</b>	<b>220,747</b>	<b>1,357,631</b>	<b>663,959</b>

**TEXARKANA WATER UTILITIES**  
**LTWSC Capital Improvement Fund**

	<i>Actual FY 2015</i>	<i>Proposed FY 2016</i>	<i>Revised FY 2016</i>	<i>Proposed FY 2017</i>	
<b>BEGINNING BALANCE</b>	<b>852,064</b>	<b>761,433</b>	<b>846,096</b>	<b>707,053</b>	
<b>REVENUE</b>					
Member Cities	44,219	64,742	64,742	60,801	} <b>550,000</b> Page 24
Transfers from Arkansas	135,779	192,996	196,996	182,814	
Transfers from Texas	175,077	327,912	444,222	306,385	
Interest Income	3,309	3,300	2,296	2,296	
Insurance Proceeds	21,348		162,257		
Proceeds from Salvaged Hwy 82 Water Line	254,441				
Miscellaneous	403		4,877		
<b>TOTAL REVENUE</b>	<b>634,576</b>	<b>588,950</b>	<b>875,390</b>	<b>552,296</b>	
<b>TOTAL FUNDS AVAILABLE</b>	<b>1,486,640</b>	<b>1,350,383</b>	<b>1,721,486</b>	<b>1,259,349</b>	
<b>EXPENDITURES</b>					
Repair Clearwell Tops L121209	269,427		50		
Upgrade SCADA System L121107		26,000	4,000	30,000	
Backwash Tank Interior Painting L121401	43,338				
Rebuild HS Pump L121602	37,491	80,000	80,000		
ADA Upgrade to Shop Building L121603		50,000	0	70,000	
Rehab West Basin L121604		65,000	0	65,000	
Raw Water Line Cleaning and Inspection L121605		150,000	0		
Reloc 42" Treated Wtr Line L121408	249				
Replace Chlorinators L121506	36,635				
Replace #5 High Service Valve L121507	15,200				
(3) 1/2 Ton Pickups L121508			37,113		
Replace #3 & #6 Backwash Valves/Operators L121509	29,185				
Replace Copier/Printer L121510	2,195				
Repair Basin Walls L121511	48,110				
Replace DO/ PH Meter L121512	2,545				
Replace Chlorine Analyzer L121513	3,162				
Replace PH Meter L121515	1,207				
Scott SCBA Safety Equip-Emergency Replacement L121516	8,534				
Replace #4 Backwash Valve & Actuator L121517	24,649				
MC Line Valve Replacement L121518	29,000				
Replace Backwash Influent Valve L121519	7,690				
Repair Annona Ground Storage Tank L121520	45,180				
Replace Ice Machine L121521	2,891				
Rebuild #4 Motor at Low Svc- Lightning-Insur Repair L121522	33,856				
Filter Flow Control Upgrade L121606		24,000	24,000		
Flat File Cabinet L121607		1,600	0	1,600	
Flammable Cabinet L121608		1,500	0	1,500	
Portable VFD for Portable Pump-MC Tanks L121609		4,500			
8" Gate Valve-NB Pump Station L121610		2,500	2,449		
Rotating Assembly Pump #4- NB Pump Station L121611		8,000	7,979		
Ball Valve/Actuator, 20"- #1 Intake L121612		68,000	0	68,000	
Surface Wash Actuators, 6", #2 , #7 L121613		6,800	6,356		
Backwash Valves/Actuators, 24", #3, #6, #8 L121614		48,000	46,645		
Drain Valves/Actuators, 30", #3, #6, #7 L121615		102,000	68,675		
Mixed Gas Detector L121616		1,200	1,121		
Flocculator Chains, Sprockets, Tensioner L121617		15,772			
Freezer-10C L121618		850	1,500		
Sanitary Wall L121619		800			
Pocket Chlorimeter L121620		450			
Filter Media Replacement L121621		390,000	0	300,000	
CL 17 Machine L121622		3,323			
Low Service #4 Pump Rebuild L121623		60,000	30,804		
Inspect South Clearwell Top L121624		20,000	0		
(1/2) Ton Pickup L121625		19,000	26,000		
Settling Basin Repairs L121626		50,000			
Parking Lot Repairs L121627		50,000			
Raw Water Pump Upgrade L121628		100,000	0		
Repl #3 HS Motor-Aug 2015 Explosion-TML Insur L121629			26,121		

TEXARKANA WATER UTILITIES

**LTWSC Capital Improvement Fund**

	<i>Actual FY 2015</i>	<i>Proposed FY 2016</i>	<i>Revised FY 2016</i>	<i>Proposed FY 2017</i>
Repl Electrical Switchgear-Aug 2015 Expl-TML Insur L121630			364,639	
Repl Broken PTZ Security Camera L121631			3,365	
Repl #5 HS Motor/Pump L121632			37,645	
Rebuild #1 HS Motor L121633			9,996	
Replace Wornout ZTR Mower/Trailer L121634			12,298	
TCEQ Item: Plant Sludge Line Relocation L121635			188,380	
PC Replacements-2016 L121636			3,902	
Chlorine Dioxide Analyzer L121637			3,550	
Digital Radios L121638			2,845	5,690
Sodium Chlorite Tank			25,000	
TCEQ Item: Basin Lining (1 Basin)				180,000
TCEQ Item: Basin Gates and Weirs				25,000
TCEQ Item: Filter Troughs				100,000
Replace Crew Dually				45,000
DP Cell Calibration Tool				2,500
Chlorine Scales				16,000
New Boston- Omni Meter				4,500
Replace #4 Drain Valve Actuator				8,000
Replace 2nd Ammonia Pipe Stinger				7,500
Replace (3) 30" Drain Valves/Actuators				75,000
Replace (4) 24" Backwash Valves/Actuators				65,000
Member City Tank Aerator				7,500
Power Inverter for Electrician Van				1,600
Front Gate Operator				6,000
High Service #5 Pump Bowl				50,000
Portable Flow Meter				5,500
Rebuild #2 Low Service				45,000
(2) 6" Surface Wash Valves/Actuator-#5, #6 Filters				7,000
Lab Spectrophotometer				4,300
PC Replacements-2017				4,000
<b>TOTAL EXPENDITURES</b>	<b>640,544</b>	<b>1,349,295</b>	<b>1,014,433</b>	<b>1,201,190</b>
<b>ENDING BALANCE</b>	<b>846,096</b>	<b>1,088</b>	<b>707,053</b>	<b>58,159</b>

**TREATED WATER BY PLANT  
FYE 9/30/16**

	<u>Wright Patman</u>	<u>Millwood</u>	<u>Total</u>
AUG 2015	316,749	349,077	665,826
SEPT 2015	403,580	167,113	570,693
OCT 2015	390,264	146,044	536,308
NOV 2015	321,060	86,540	407,600
DEC 2015	336,755	78,977	415,732
JAN 2016	291,117	118,314	409,431
FEB 2016	56,844	360,030	416,874
MAR 2016	42,329	372,785	415,114
APR 2016	249,338	146,180	395,518
MAY 2016	355,417	46,348	401,765
JUNE 2016	320,395	142,202	462,597
JULY 2016	177,951	429,102	607,053
Total Est Gal for FY16	<u><u>3,261,799</u></u>	<u><u>2,442,712</u></u>	<u><u>5,704,511</u></u>

Millwood Plant usage	42.82%
Prior Year Millwood Plant usage	26.10%

**FY16 Estimated Consumption (1000 Gallons)  
Oct 15- Jun 16 (with Aug- Sept Estimated)**

*Estimated based on Aug & Sept 15*

	OCT/ APR	NOV/ MAY	DEC/ JUN	JAN/ JUL	FEB/ AUG	MAR/ SEP	YTD	% OF TOTAL
Oak Grove, TX	2894.140 1654.000	1866.620 1926.300	2153.950 2701.250	2180.900 2423.150	1594.320 2400.170	1692.450 2168.710	25655.960	0.4497%
Redwater, TX	10302.600 7149.600	6991.500 8423.750	9199.950 12086.450	9723.600 12290.200	8526.250 13248.950	7799.300 9821.550	115563.700	2.0258%
Central Bowie County	21969.230 18100.930	12701.700 21429.880	12878.600 26848.040	14210.760 21178.080	19246.330 27146.320	17090.360 22420.720	235220.950	4.1234%
Nash, TX	8794.000 6788.000	7592.000 7254.000	7212.000 8771.000	7336.000 8325.000	6873.000 9398.000	7146.000 8114.000	93603.000	1.6409%
Macedonia Eylau	16260.508 11773.702	11634.272 13278.220	12206.856 17915.693	13129.125 16608.392	11754.893 18797.853	11560.622 14533.494	169453.630	2.9705%
Red River County	4408.730 1483.360	2914.160 1363.080	2535.750 303.420	3445.340 1430.680	2888.230 4374.560	3523.370 3560.230	32230.910	0.5650%
Day & Zimmerman	1917.000 981.500	1108.700 874.600	717.700 896.700	1014.700 662.300	1175.900 1007.800	850.400 1057.200	12264.500	0.2150%
Leary, TX	1618.360 1159.900	1166.990 1465.850	1192.040 1791.420	1763.470 1739.900	1049.500 1978.850	1187.750 1480.210	17594.240	0.3084%
Mandeville, AR	2807.610 3116.785	1988.264 1301.071	2630.224 2024.240	1950.614 4045.537	3055.356 3797.281	3742.208 3288.995	33748.185	0.5916%
Union Water	7948.315 8045.733	7029.776 4827.091	9217.392 8055.541	7214.972 11404.221	8593.578 10294.278	8269.506 9794.691	100695.094	1.7652%
MCPWA	3910.000 2905.000	3325.000 2710.000	3275.000 2925.000	2500.000 2595.000	2965.000 3555.000	2605.000 3430.000	36800.000	
<b>Total Wholesale</b>	82830.493 63158.510	58318.982 64853.842	63219.462 84318.754	64569.481 82702.460	67722.357 95999.062	65466.966 79669.800	872830.169	
New Boston, TX	33993.554 28466.820	24680.650 28986.670	26261.240 36446.285	31136.232 36684.740	26273.304 35303.361	28246.602 30505.490	366984.948	6.4332%
Hooks, TX	18635.700 12243.900	11061.900 14111.900	13891.800 17449.500	14274.200 15528.800	11836.400 18082.900	13001.000 15870.700	175988.700	3.0851%
DeKalb, TX	6987.000 5820.000	4411.000 5696.000	4902.000 7329.000	5766.000 7463.000	5064.000 9167.000	5729.000 6613.000	74947.000	1.3138%
Wake Village, TX	17525.000 11762.000	11121.000 13061.000	12277.000 18454.000	12551.000 16718.000	10832.000 23258.000	11877.000 17675.000	177111.000	3.1048%
Maud, TX	4890.000 2701.000	3117.000 3161.000	3395.000 4090.000	3672.000 4122.000	2854.000 5183.000	2590.000 4209.000	43984.000	0.7710%
Avery, TX	1422.600 1206.300	1007.800 1563.600	1184.800 2604.400	1263.000 2590.400	1057.700 1680.900	1121.400 1276.300	17979.200	0.3152%
Annona, TX	1499.627 430.536	646.548 573.722	903.752 652.634	660.340 670.003	568.913 864.829	507.239 1604.544	9582.687	0.1680%

FY16 Estimated Consumption (1000 Gallons)  
 Oct 15- Jun 16 (with Aug- Sept Estimated)

Estimated based on Aug & Sept 15

	OCT/ APR	NOV/ MAY	DEC/ JUN	JAN/ JUL	FEB/ AUG	MAR/ SEP	YTD	% OF TOTAL
Riverbend Water Resources District	23571.080 17916.020	24407.390 90442.040	21822.780 17626.470	20429.330 21112.930	19881.620 29990.410	18397.230 24717.120	330314.420	5.7904%
<b>Total Member Cities &amp; RWRD</b>	108524.561 80546.576	80453.288 157595.932	84638.372 104652.289	89752.102 104889.873	78367.937 123530.400	81469.471 102471.154	1196891.955	
<b>Total Wholesale, Member Cities &amp; RWRD</b>	191355.054 143705.086	138772.270 222449.774	147857.834 188971.043	154321.583 187592.333	146090.294 219529.462	146936.437 182140.954	2069722.124	
Texarkana, AR	115885.326 94351.114	95345.554 71005.531	100916.906 105660.528	102047.678 170096.512	103538.676 169556.332	104986.082 136194.275	1369584.514	24.0088%
Texarkana, TX	229067.620 157461.800	173482.176 108309.695	166957.260 167965.429	153051.739 249364.155	167245.030 276740.206	163191.481 252357.771	2265204.362	39.7090%
<b>Total Texarkana</b>	344952.946 251812.914	268827.730 179315.226	267874.166 273625.957	255109.417 419460.667	270783.706 446296.538	268177.563 388552.046	3634788.876	
<b>Total All</b>	536308.000 395518.000	407600.000 401765.000	415732.000 462597.000	409431.000 607053.000	416874.000 665826.000	415114.000 570693.000	5704511.000	99.3548%

**City of Texarkana, Texas**  
**Proposed Water Production Rate By Plant**

**9/30/2017**

	<u>Division 410</u>	<u>Sludge-WP</u>	<u>Total LWP</u>	<u>Division 420</u>	<u>Sludge-MW</u>	<u>Total MW</u>	<u>Total Blended</u>
<b><u>EXPENDITURES</u></b>							
Personnel Services	1,311,070		1,311,070	314,724		314,724	1,625,794
Supplies	859,900		859,900	244,675		244,675	1,104,575
Repairs & Maintenance	201,420		201,420	68,232		68,232	269,652
Contractual Services	602,826		602,826	491,868		491,868	1,094,694
Subtotal	2,975,216	-	2,975,216	1,119,499	-	1,119,499	4,094,715
Sludge Costs	-	202,868	202,868	100,000	-	100,000	302,868
Sludge Chemical/Transp Cost		54,289	54,289		-	-	54,289
Composting Revenue	-	(46,509)	(46,509)	-	-	-	(46,509)
Subtotal	-	210,648	210,648	100,000	-	100,000	310,648
Administration Costs 5%	148,761	10,532	159,293	60,975	-	60,975	220,268
<b>Total Water Production Cost</b>	<b>3,123,977</b>	<b>221,180</b>	<b>3,345,157</b>	<b>1,280,474</b>	<b>-</b>	<b>1,280,474</b>	<b>4,625,631</b>
<b>Estimated Gallons By Plant</b>			3,261,799			2,442,712	5,704,511
<b>Estimated Cost Per 1,000 Gal</b>			1.0256			0.5242	0.8109
			<b>LWP</b>			<b>MW</b>	<b>Total</b>



**City of Texarkana, Texas**  
**Proposed Water Production Rate**  
**9/30/2017**

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<b>Water Production (both lakes)</b>	<b>Amount As Budgeted 2017</b>
Total Gallons	5,704,511 (in thousands)
* Total Cost	4,625,631
Water Rate	<b>0.8109</b> (per thousand)
<i>Prior Year Water Rate</i>	<i>0.7986</i>

\* The total costs include the following four components of the Texarkana Water Department:

- 1) Wright Patman (410)
- 2) Millwood (420)
- 3) Sludge Processing - LWP and \$100,000.00 for Millwood
- 4) Administrative Overhead - not to exceed 5% of the sum of 1, 2 and 3 as listed above

City of Texarkana, Texas

Proposed Water Production Rate By City

9/30/2017

		Water Rate Calculation			
		ANNUAL	MONTHLY		
		<i>(in thousands)</i>			
	<i>(in thousands)</i> 2017 Budgeted Gallons as Estimated by the Water Department	Budgeted Cost Total as Estimated by the Water Department	Estimated 2017 Water Rate	Monthly Billing - Water Cost Only	Monthly Gallons
New Boston	366,985	297,578	0.8109	24,798	30,582
Hooks	175,989	142,704	0.8109	11,892	14,666
DeKalb	74,947	60,772	0.8109	5,064	6,246
Wake Village	177,111	143,614	0.8109	11,968	14,759
Maud	43,984	35,665	0.8109	2,972	3,665
Avery	17,979	14,579	0.8109	1,215	1,498
Annona	9,583	7,770	0.8109	648	799
Total	866,578	702,684	0.8109	58,557	72,214
Texarkana, AR	1,540,828	1,249,415	0.8109	104,118	128,402
Texarkana, TX	2,966,791	2,405,689	0.8109	200,474	247,233
RWRD	330,314	267,843	0.8109	22,320	27,526
Total	4,837,933	3,922,947	0.8109	326,912	403,161
Total All Cities	5,704,511	4,625,631	0.8109	385,469	475,375

Cost is defined as water production cost of LWP and Millwood lakes.  
Gallons above are total gallons from both lakes.

**City of Texarkana, Texas**  
**Proposed Infrastructure Rate**  
**9/30/2017**

<b>Member Cities</b>	<b>Original Ownership %</b>	<b>Revised Ownership %</b>	<b>Annual</b>	<b>Monthly</b>
New Boston	3.572227%	3.572227%	19,647.25	1,637.27
Hooks	2.275268%	2.275268%	12,513.97	1,042.83
DeKalb	2.143895%	2.143895%	11,791.42	982.62
Wake Village	1.632379%	1.632379%	8,978.08	748.17
Maud	1.123658%	1.123658%	6,180.12	515.01
* Avery	0.419275%			
Annona	0.307469%	0.307469%	1,691.08	140.92
<b>Total Member Cities</b>	<b>11.474171%</b>	<b>11.054896%</b>	<b>60,801.93</b>	<b>5,066.82</b>
<b>Texarkana</b>				
Texarkana, AR	32.792567%	32.792567%	180,359.12	15,029.93
Texarkana, TX	55.733262%	56.152537%	308,838.95	25,736.58
<b>Total Texarkana</b>	<b>88.525829%</b>	<b>88.945104%</b>	<b>489,198.07</b>	<b>40,766.51</b>
<b>Grand Total</b>	<b>100.000000%</b>	<b>100.000000%</b>	<b>550,000.00</b>	<b>45,833.33</b>

Contribution Required for 2017 for projects in the LTWSC Capital Improvement Fund = \$550,000

**City of Texarkana, Texas**  
**Proposed Debt Service Rate**  
**Highway 82 Widening Project**  
**9/30/2017**

Member Cities	Original Ownership %	Revised Ownership %	Allocation of Tex, AR Ownership % to		Monthly
			Participating Cities	Annual	
New Boston	3.572227%	3.572227%	5.315226%	8,638.89	719.91
Hooks	2.275268%	2.275268%	3.385441%	5,502.39	458.53
DeKalb	2.143895%	2.143895%	3.189967%	5,184.69	432.06
Wake Village	1.632379%	1.632379%	2.428867%	3,947.66	328.97
Maud	1.123658%	1.123658%	1.671925%	2,717.40	226.45
### Avery	0.419275%				
Annona	0.307469%	0.307469%	0.457493%	743.57	61.96
<b>Total Member Cities</b>	<b>11.474171%</b>	<b>11.054896%</b>	<b>16.448919%</b>	<b>26,734.59</b>	<b>2,227.88</b>

<b>Texarkana</b>					
*** Texarkana, AR	32.792567%				
Texarkana, TX	55.733262%	56.152537%	83.551081%	135,796.41	11,316.37
<b>Total Texarkana</b>	<b>88.525829%</b>	<b>56.152537%</b>	<b>83.551081%</b>	<b>135,796.41</b>	<b>11,316.37</b>
<b>Grand Total</b>	<b>100.000000%</b>	<b>67.207433%</b>	<b>100.000000%</b>	<b>162,531.00</b>	<b>13,544.25</b>

**Debt Service Requirement for 2017 = \$162,531**

\*\*\* Texarkana, Arkansas has not claimed their ownership interest in the Highway 82 water line

### Texarkana, TX took control of Avery's ownership interest

TEXARKANA WATER UTILITIES

WRIGHT PATMAN AND MILLWOOD WATER TREATMENT OPERATING EXPENSES - ACTUAL (Audited)

For the Year Ended September 30, 2015

	Wright Patman	Millwood	Total	
<b>Personal Services:</b>				From Audited TB for Div 410 & 420
Management	4,696	1,528	6,224	
Supervision	122,113	11,560	133,673	
Maintenance & Operations	513,365	160,775	674,140	
Overtime	99,247	30,830	130,077	
Standby	7,566	338	7,905	
Shift Differential	7,213	589	7,802	
Pay Out-Annual Leave	4,517	1,788	6,305	
Pay Out-Sick Leave	7,595	0	7,595	
Pay Out-Comp Time	1,139	0	1,139	
Pay Out-Post Retirement Insurance	13,194	0	13,194	
Temporary Labor	16,026	0	16,026	
Accrued Payroll	1,903	1,110	3,013	
Longevity	7,008	3,528	10,536	
Group Insurance	123,108	34,703	157,811	
Accrued Vacation & Sick Leave	(5,961)	1,318	(4,643)	
Retirement	129,326	35,464	164,790	
Social Security	56,833	15,421	72,254	
Workmen's Compensation	18,623	2,500	21,123	
Unemployment	8,656	0	8,656	
Employee Screening	49	0	49	
Incentive	0	0	0	
Education & Training	13,945	3,942	17,887	
Salary & Benefit Transfers Out	(14,427)	(99)	(14,526)	
<b>Total Personal Services</b>	<b>1,135,755</b>	<b>305,297</b>	<b>1,441,052</b>	
<b>Supplies:</b>				
Office Supplies & Expenses	1,057	206	1,263	
Operating Supplies	3,940	832	4,772	
Botanical Supplies	0	0	0	
Safety	13,032	3,674	16,706	
Minor Tools	3,206	170	3,376	
Wearing Apparel	6,388	1,674	8,062	
Laundry & Janitorial	2,698	2,456	5,154	
Lab & Photo Supplies	29,931	4,097	34,028	
Printing	40	398	438	
Chemicals-Plant	782,137	161,788	943,925	
Chemicals-Lake	7,485	0	7,485	
<b>Total Supplies</b>	<b>849,913</b>	<b>175,295</b>	<b>1,025,208</b>	
<b>Repairs &amp; Maintenance:</b>				
Office Machines & Equipment	0	0	0	
Motor Vehicles	20,507	1,109	21,615	
Machinery & Equipment	4,416	17,989	22,406	
Signal Equipment	545	159	704	
Buildings	4,670	6,902	11,573	
Water Treatment Equipment	63,367	19,304	84,671	
Water Transmission Mains	9,665	415	10,081	
Tanks & Reservoirs	73,221	1,811	75,032	
Sewer Instruments	0	0	0	
Sludge Pond Maintenance	0	0	0	
Equipment Utilization	2,260	850	3,110	
Equipment Apportionment	(5,460)	0	(5,460)	
<b>Total Repairs &amp; Maintenance</b>	<b>175,192</b>	<b>48,539</b>	<b>223,731</b>	
<b>Contractual Services:</b>				
Accounting & Audit	2,247	1,348	3,596	
Communications	10,284	8,765	19,049	
Rentals	1,569	4,408	5,977	
Fees & Permits	33,484	43,483	78,967	
Freight Charges	0	0	0	
Refuse Hauling	1,985	0	1,985	
Insurance	37,153	12,233	49,386	
Laboratory Services	9,026	977	10,003	
Legal Advertising	0	0	0	
Maintenance Contracts	3,066	0	3,066	
Postage	553	120	673	
Power Purchases	299,145	206,636	499,801	
Power Purchases-Lake	211,318	0	211,318	
Special Services	54	18	72	
Water Rights	612	153,181	153,794	
<b>Total Contractual Services</b>	<b>606,497</b>	<b>431,189</b>	<b>1,037,686</b>	
Rounding	0	0	0	
<b>Subtotals</b>	<b>2,767,358</b>	<b>960,320</b>	<b>3,727,678</b>	Reconciled to Audited TB
Sludge Processing	241,266	163,531	406,797	Sludge Actual 2015
<b>Total Operating Expenses</b>	<b>3,008,624</b>	<b>1,125,851</b>	<b>4,134,475</b>	
<b>Administrative Overhead</b>	<b>150,431</b>	<b>56,293</b>	<b>206,724</b>	5% Admin
<b>Total Operating Expenses With Overhead</b>	<b>3,159,055</b>	<b>1,182,144</b>	<b>4,341,199</b>	
<b>Total Gallons of Water Sold - All (Consumption Report)</b>	<b>1,896,963,000</b>	<b>1,716,733,000</b>	<b>5,613,696,000</b>	
<b>Actual Cost per 1,000 Gallons (Total Op Exp w/OH / Total Gals)</b>	<b>0.8106453</b>	<b>0.6886008</b>	<b>0.7733227</b>	

**TEXARKANA WATER UTILITIES**  
**MEMBER CITIES BILLING**  
**WRIGHT PATMAN SLUDGE PROCESSING COST**  
**FY 2015 ACTUAL**

**Composting Costs:**

**Compost Division Budget Expenses (580):**

Personal Services	147,126
Supplies	2,893
Repairs & Maintenance	77,267
Contractual Services	14,763
Capital Outlays	0
Total Division Expenses	<u>242,049</u>

**Other Labor & Benefits (530):**

Operator II (1300 Bldg)	34,041
Plant Mechanic I (1/2)	<u>15,103</u>
Total Other Labor	49,144

Benefit Percentage	X	<u>52.87%</u>
Total Benefit Cost		<u>25,982</u>

Total Other Labor & Benefits	<u>75,126</u>
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<b>Total Composting &amp; Other Labor Costs</b>	<b>317,175</b>
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**Amount Attributable to Water Treatment**

**Plant Sludge (TSS):**

Wright Patman Solids (Metric Tons)	1,206,840	
South Regional Influent Solids (Metric Tons)	<u>1,697,130</u>	
Water Treatment TSS Ratio		<u>71.11064%</u>

<b>Total Applicable Compost Costs</b>		<b>225,545</b>
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**Sludge Chemical Costs:**

Total Cost of Polymer	94,941	
Water Treatment TSS Ratio		<u>71.11064%</u>

<b>Total Sludge Chemical Costs</b>		<b>67,513</b>
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**Transportation Costs:**

200 Site Pumping Costs (Electrical)	92,478	
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**Amount Attributable to Water Treatment Plant Waste:**

Wright Patman Gallons Wasted (Mil Gallons)	258,072	
South Regional Influent Flows (Mil Gallons)	<u>3,201,830</u>	
Water Treatment Plant Volume Ratio		<u>8.06014%</u>

<b>Total Transportation Costs</b>		<u><b>7,454</b></u>
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<b>Total Estimated Sludge Processing Costs Applicable to Water Plant</b>		<b>300,512</b>
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**Less Compost Sales:**

Total Compost Sales	83,315	
Water Treatment TSS Ratio		<u>71.11064%</u>
Sales Applicable to Water Treatment Plant Sludge		<u>(59,246)</u>

<b>Net Sludge Processing Costs Applicable to Water Plant</b>		<u><u><b>241,266</b></u></u>
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TEXARKANA WATER UTILITIES

**Millwood Water Treatment Plant Depreciation Fund**

		<i>Actual FY 2015</i>	<i>Proposed FY 2016</i>	<i>Revised FY 2016</i>	<i>Proposed FY 2017</i>
<b>BEGINNING BALANCE</b>		<b>1,285,240</b>	<b>1,164,980</b>	<b>1,170,779</b>	<b>1,357,631</b>
<b>REVENUE</b>					
Transfer from Revenues		103,000	280,967	280,967	156,000
Interest Income		55	0	0	0
<b>TOTAL REVENUE</b>		<b>103,055</b>	<b>280,967</b>	<b>280,967</b>	<b>156,000</b>
<b>TOTAL FUNDS AVAILABLE</b>		<b>1,388,295</b>	<b>1,445,947</b>	<b>1,451,746</b>	<b>1,513,631</b>
<b>EXPENDITURES</b>					
Sludge Pond Cleaning	A131403	165,531			
Repipe Clearwell & Baffling	A131601		550,000	0	
Paint Bridge Pipework	A131602		225,000	0	225,000
Chemical Building Roof Replacement	A131603		80,000	0	
Basin Repair	A131604		100,000	0	100,000
Security Enhancement	A131605, A131	2,856	10,000	1,715	
Raw Water Aeration Improvements	A131606		20,000	0	
Lime Machine Replacement (2)	A131607		19,000	0	
Filter Rehab- Phases I- III	A131515	10,465			
Storage Building	A131608		11,500	0	11,500
Replace Ammoniator	A131519	13,210			
Replace Flocculator Drives	A131520	15,026			
Replace Chlorinators	A131609		50,000	0	50,000
Replace Jar Test Mixer	A131517	3,045			
Scott SCBA Safety Equip-Emerg Repl.	A131518	7,383			
Filter Rehab- Phases IV- VII	A131610		45,000	10,455	45,000
Rebuild HS Pump/ Motor	A131611		80,000	0	80,000
Replace Mixed Gas Detector	A131612		1,200	1,121	
Replace Caustic Pumps/ Drives	A131613		10,000	0	40,000
Caustic Tank	A131614		18,500	18,500	
Soils Testing	A131615		5,000	0	
Turbidimeters/ PH Meters Emerg Repl	A131616			12,679	
Replace Communication Tower	A131617			166	40,000
MW Network Infrastructure	A131618			10,000	
Replace Chlorine Analyzer	A131619			3,257	
Concrete Foundation for Caustic Tanks	A131620			30,000	
Digital Radios	A131624			4,172	4,172
Replace Ice Maker	A131625			2,050	
Chlorine Scales					17,000
Chemical Bldg, HVAC Repl					40,000
Pipe Galley Repairs					25,000
Sludge Pond Cleaning- 2017					100,000
Caustic Pumps/Drives					20,000
Ultrasonic Raw Meter					5,000
Intake Aeration					42,000
De-ionized Water System					5,000
<b>TOTAL EXPENDITURES</b>		<b>217,516</b>	<b>1,225,200</b>	<b>94,115</b>	<b>849,672</b>
<b>ENDING BALANCE</b>		<b>1,170,779</b>	<b>220,747</b>	<b>1,357,631</b>	<b>663,959</b>
<b>Transfers from Revenue:</b>					
Texas Percentage ( X .9533)		61.83%	62.95%	62.95%	62.63%
Arkansas Share		42,289	112,358	112,358	38,491
Texas Share		60,711	168,609	168,609	117,509
<b>Total</b>		<b>103,000</b>	<b>280,967</b>	<b>280,967</b>	<b>156,000</b>
<b>Ending Balances:</b>					
Arkansas		864,742	220,513	942,230	663,199
Texas		306,037	234	415,401	760
<b>Total</b>		<b>1,170,779</b>	<b>220,747</b>	<b>1,357,631</b>	<b>663,959</b>

TEXARKANA WATER UTILITIES

WRIGHT PATMAN AND MILLWOOD WATER TREATMENT OPERATING EXPENSES - ACTUAL (Audited)

For the Year Ended September 30, 2015

Wright Patman      Millwood      Total  
TRUE-UP ADJUSTMENT CALCULATION

	Fiscal Year 2015 Billing					
	2015 Water	2015 Infrastructure	2015 Debt Service	2013 True Up	FY 2015 Annual	FY 2015 Monthly
New Boston	289,036	14,289	8,630	10,477	322,432	26,869
Hooks	109,389	9,101	5,497	(20,139)	103,848	8,654
DeKalb	57,508	8,576	5,179	(9,315)	61,948	5,162
Wake Village	130,087	6,530	3,944	(13,753)	126,808	10,567
Maud	36,543	4,495	2,715	463	44,216	3,685
Avery	20,926	-	-	(1,590)	19,336	1,611
Annona	7,982	1,230	743	3,063	13,018	1,085
RWRD	211,797	-	-	(8,340)	203,457	16,955
<b>Total</b>	<b>863,268</b>	<b>44,221</b>	<b>26,708</b>	<b>(39,134)</b>	<b>895,063</b>	<b>74,589</b>

	Fiscal Year 2015 True Up Calculation							
	Budgeted Gal	Budgeted Amt	Budgeted Rate	Actual Gal	Actual Amt	Actual Rate	Annual True Up	Monthly True Up
New Boston	397,306	289,036	0.727500	343,952	265,986	0.7733227	(23,050)	(1,920.87)
Hooks	150,365	109,389	0.727500	145,858	112,795	0.7733227	3,406	283.86
DeKalb	79,050	57,508	0.727500	77,624	60,028	0.7733227	2,520	210.03
Wake Village	178,817	130,087	0.727500	172,515	133,410	0.7733227	3,323	276.90
Maud	30,231	36,543	0.727500	48,888	37,806	0.7733227	1,263	105.27
Avery	28,765	20,926	0.727500	20,876	16,144	0.7733227	(4,782)	(398.51)
Annona	10,972	7,982	0.727500	8,273	6,398	0.7733227	(1,584)	(132.01)
RWRD	291,134	211,797	0.727500	270,191	208,945	0.7733227	(2,852)	(237.67)
<b>Total</b>	<b>1,186,640</b>	<b>863,268</b>		<b>1,088,177</b>	<b>841,512</b>		<b>(21,756)</b>	<b>(1,813)</b>



**City of Texarkana, Texas**  
**Proposed Water Cost Recap**  
**9/30/2017**

	2017 Annual Cost				2016 Annual Cost Total	Increase/ (Decrease)
	Water	Infrastructure	Debt Service	2015 True Up		
New Boston	297,578	19,647	8,639	(23,050)	231,456	71,358
Hooks	142,704	12,514	5,502	3,406	113,556	50,571
DeKalb	60,772	11,791	5,185	2,520	67,152	13,117
Wake Village	143,614	8,978	3,948	3,323	128,772	31,091
Maud	35,665	6,180	2,717	1,263	43,740	2,086
Avery	14,579			(4,782)	16,140	(6,343)
Annona	7,770	1,691	744	(1,584)	5,520	3,101
Texarkana, AR	1,249,415	180,359				
Texarkana, TX	2,405,689	308,839	135,796			
RWRD	267,843			(2,852)	161,880	103,111
	\$ 4,625,631	\$ 550,000	\$ 162,531	\$ (21,756)	\$ 768,216	\$ 268,091

	2017 Monthly Cost				2016 Monthly Cost Total	Increase/ (Decrease)
	Water	Infrastructure	Debt Service	2015 True Up		
New Boston	24,798	1,637	720	(1,921)	19,288	5,946
Hooks	11,892	1,043	459	284	9,463	4,214
DeKalb	5,064	983	432	210	5,596	1,093
Wake Village	11,968	748	329	277	10,731	2,591
Maud	2,972	515	226	105	3,645	174
Avery	1,215			(399)	1,345	(529)
Annona	648	141	62	(132)	460	258
Texarkana, AR	104,118	15,030				
Texarkana, TX	200,474	25,737	11,316			
RWRD	22,320			(238)	13,490	8,593
	\$ 385,469	\$ 45,833	\$ 13,544	\$ (1,813)	\$ 64,018	\$ 22,341

**City of Texarkana, Texas**  
**Accounts Receivable Status**  
**9/30/2017**

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Entity	AR Balance	Penalty	Monthly Interest	Total
City of DeKalb	5,595.96	111.92	0.5%	\$ 5,707.88