

Docket 4933

Rhode Island Public Utilities Commission
Docket 4933
FY 2020 Rate Filing

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Account	Docket 4595	Test Year (FY2018)	Test Year Normalizing Adjustments	Normalized Test Year	Rate Year Adjustments	Proposed Rate Year - FY2020
O&M COSTS						
Administration						
50001 Salaries & Wages	\$ 281,582	\$ 286,942	\$ -	\$ 286,942	\$ 10,975	\$ 297,917
AFSCME retro	-	-	\$ -	\$ -	\$ -	-
NEA retro	-	-	\$ -	\$ -	\$ -	-
AFSCME benefits on retro pay	-	-	\$ -	\$ -	\$ -	-
NEA benefits on retro pay	-	-	\$ -	\$ -	\$ -	-
50044 Standby Salaries	18,720	18,857	\$ -	\$ 18,857	\$ (137)	18,720
50520 Accrued Benefits Buyout	-	-	\$ -	\$ -	\$ -	-
50100 Employee Benefits	115,683	139,015	\$ -	\$ 139,015	\$ (3,249)	135,766
50103 Retiree Insurance Coverage	265,000	372,907	\$ -	\$ 372,907	\$ 11,105	384,012
50105 Workers Compensation	64,000	78,304	\$ -	\$ 78,304	\$ 37,122	115,426
50175 Annual Leave Buyback	3,300	3,750	\$ -	\$ 3,750	\$ (1,250)	2,500
50207 Advertisement	9,000	2,481	\$ -	\$ 2,481	\$ 1,519	4,000
50210 Membership Dues & Subscriptions	2,500	4,532	\$ -	\$ 4,532	\$ 523	5,055
50212 Conferences & Training	4,000	410	\$ 3,590	\$ 4,000	\$ -	4,000
50214 Tuition Reimbursement	2,000	-	\$ -	\$ -	\$ 2,000	2,000
50220 Consultant Fees	136,878	14,275	\$ -	\$ 14,275	\$ 237,350	251,625
50238 Postage	1,000	941	\$ -	\$ 941	\$ 59	1,000
50239 Fire & Liability Insurance	67,000	78,689	\$ -	\$ 78,689	\$ (42,189)	36,500
50251 Telephone & Communication	5,600	10,808	\$ -	\$ 10,808	\$ (208)	10,600
50305 Water	2,015	1,725	\$ -	\$ 1,725	\$ 75	1,800
50306 Electricity	7,956	7,293	\$ -	\$ 7,293	\$ 317	7,610
50307 Natural Gas	5,226	5,504	\$ -	\$ 5,504	\$ (934)	4,570
50308 Property Taxes	567,770	535,316	\$ -	\$ 535,316	\$ 11,915	547,231
50266 Legal & Administrative			\$ -	\$ -	\$ -	-
Audit Fees	4,511	4,511	\$ -	\$ 4,511	\$ 433	4,944
OPEB Contribution	27,648	27,648	\$ -	\$ 27,648	\$ 3,840	31,488
City Council	3,155	3,155	\$ -	\$ 3,155	\$ 788	3,943
City Clerk	4,409	4,409	\$ -	\$ 4,409	\$ 128	4,537
City Manager	88,016	88,016	\$ -	\$ 88,016	\$ (11,396)	76,621
Human Resources	5,926	5,926	\$ -	\$ 5,926	\$ 267	6,193
City Solicitor	26,096	26,096	\$ -	\$ 26,096	\$ 11,022	37,118
Finance Adimistrative 50%	31,570	31,570	\$ -	\$ 31,570	\$ (5,358)	26,212
Finance Adimistrative 5%	3,201	3,201	\$ -	\$ 3,201	\$ 162	3,363
Finance Admin 10% Inv/Debt	14,359	14,359	\$ -	\$ 14,359	\$ (2,551)	11,809
Purchasing	20,603	20,603	\$ -	\$ 20,603	\$ 1,802	22,404
Collections	44,183	44,183	\$ -	\$ 44,183	\$ (19,355)	24,828
Accounting - Wires - 5%	9,456	9,456	\$ -	\$ 9,456	\$ (307)	9,149
Accounting	50,716	50,716	\$ -	\$ 50,716	\$ 14,988	65,704
50267 Data Processing	231,161	231,161	\$ -	\$ 231,161	\$ 112,014	343,175
50268 Mileage Allowance	2,000	392	\$ -	\$ 392	\$ 1,608	2,000
50271 Gasoline & Vehicle Allowance	5,389	10,723	\$ -	\$ 10,723	\$ (5,341)	5,382
50275 Repairs & Maintenance	1,200	-	\$ -	\$ -	\$ 1,000	1,000
50280 Regulatory Expense	5,000	906	\$ -	\$ 906	\$ (406)	500
50281 Regulatory Assessment	80,000	112,456	\$ -	\$ 112,456	\$ 3,702	116,158
50361 Office Supplies	15,000	10,136	\$ 1,864	\$ 12,000	\$ (155)	11,845
50505 Self Insurance	5,000	2,584	\$ -	\$ 2,584	\$ (84)	2,500
50515 Unemployment Claims	-	-	\$ -	\$ -	\$ -	-
Subtotal:	\$ 2,237,828	\$ 2,263,955	\$ 5,454	\$ 2,269,409	\$ 371,795	\$ 2,641,204

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Account	Docket 4595	Test Year (FY2018)	Test Year Normalizing Adjustments	Normalized Test Year	Rate Year Adjustments	Proposed Rate Year - FY2020
Customer Service						
50001 Salaries & Wages	\$ 309,310	\$ 291,674	\$ -	\$ 291,674	\$ 41,740	\$ 333,414
50002 Overtime	5,409	2,611	\$ -	\$ 2,611	\$ (40)	2,571
Collections	-	-	\$ -	\$ -	\$ -	-
50004 Temp Salaries	14,976	-	\$ -	\$ -	\$ -	-
50056 Injury Pay	-	-	\$ -	\$ -	\$ -	-
50100 Employee Benefits	186,231	173,340	\$ -	\$ 173,340	\$ 62,672	236,012
50120 Bank Fees (lock box)	16,800	13,298	\$ -	\$ 13,298	\$ 1,102	14,400
50175 Annual Leave Buyback	4,500	2,526	\$ -	\$ 2,526	\$ 1,624	4,150
50205 Copying & binding	500	532	\$ -	\$ 532	\$ 68	600
50212 Conferences & Training	5,000	840	\$ 4,160	\$ 5,000	\$ (2,000)	3,000
50225 Support Services	26,175	19,252	\$ -	\$ 19,252	\$ 26,663	45,915
50238 Postage	74,680	62,307	\$ -	\$ 62,307	\$ 1,893	64,200
50271 Gasoline & Vehicle Allowance	26,945	30,831	\$ -	\$ 30,831	\$ 1,755	32,586
50275 Repairs & Maintenance	35,000	22,708	\$ -	\$ 22,708	\$ 12,292	35,000
50299 Meter Maintenance	10,000	7,696	\$ -	\$ 7,696	\$ 2,304	10,000
50311 Operating Supplies	5,000	7,924	\$ (2,924)	\$ 5,000	\$ -	5,000
50320 Uniforms & protective Gear	1,000	-	\$ -	\$ -	\$ 2,450	2,450
50380 Customer Service Supplies	5,000	1,951	\$ -	\$ 1,951	\$ 1,049	3,000
Subtotal:	\$ 726,526	\$ 637,490	\$ 1,236	\$ 638,726	\$ 153,572	\$ 792,298
Source of Supply - Island						
50001 Salaries & Wages	\$ 309,950	\$ 297,103	\$ -	\$ 297,103	\$ 15,551	\$ 312,654
50002 Overtime	33,000	27,936	\$ -	\$ 27,936	\$ (7,279)	20,657
50004 Temp Salaries	26,180	20,270	\$ -	\$ 20,270	\$ (13,353)	6,917
50056 Injury Pay	-	-	\$ -	\$ -	\$ -	-
50100 Employee Benefits	174,277	175,319	\$ -	\$ 175,319	\$ 37,277	212,596
50175 Annual Leave Buyback	3,800	-	\$ -	\$ -	\$ 1,700	1,700
50306 Electricity	49,880	42,593	\$ -	\$ 42,593	\$ (11,285)	31,308
50271 Gas/Vehicle Maintenance	59,279	57,957	\$ -	\$ 57,957	\$ 2,086	60,043
50275 Repairs & Maintenance	10,000	481	\$ -	\$ 481	\$ 13,519	14,000
50277 Reservoir Maintenance	16,000	21,424	\$ -	\$ 21,424	\$ 3,576	25,000
50311 Operating Supplies	7,500	9,251	\$ (1,751)	\$ 7,500	\$ (800)	6,700
50320 Uniforms & protective Gear	1,510	238	\$ -	\$ 238	\$ 1,762	2,000
50335 Chemicals	66,800	61,200	\$ -	\$ 61,200	\$ 33,600	94,800
Subtotal:	\$ 758,176	\$ 713,772	\$ (1,751)	\$ 712,021	\$ 76,354	\$ 788,375
Source of Supply - Mainland						
50002 Overtime	\$ 11,610	\$ 5,023	\$ -	\$ 5,023	\$ 3,899	\$ 8,922
50004 Temp Salaries	29,996	21,106	\$ -	\$ 21,106	\$ (1,341)	19,765
50005 Permanent Part time	12,900	6,040	\$ -	\$ 6,040	\$ 6,860	12,900
50100 Employee Benefits	2,525	2,461	\$ -	\$ 2,461	\$ 897	3,358
50306 Electricity	154,424	149,593	\$ -	\$ 149,593	\$ (7,627)	141,966
50275 Repairs & Maintenance	7,000	18,462	\$ -	\$ 18,462	\$ (1,462)	17,000
50277 Reservoir Maintenance	4,500	4,199	\$ -	\$ 4,199	\$ 7,801	12,000
50311 Operating Supplies	1,000	178	\$ 822	\$ 1,000	\$ (500)	500
Subtotal:	\$ 223,955	\$ 207,062	\$ 822	\$ 207,884	\$ 8,527	\$ 216,411

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Account	Docket 4595	Test Year (FY2018)	Test Year Normalizing Adjustments	Normalized Test Year	Rate Year Adjustments	Proposed Rate Year - FY2020
Station One						
50001 Salaries & Wages	\$511,075	\$ 561,329	\$ -	\$ 561,329	\$ (48,284)	\$ 513,045
50002 Overtime	102,940	91,625	\$ -	91,625	(5,194)	86,431
50003 Holiday Pay	22,032	20,686	\$ -	20,686	1,095	21,781
50045 Lead Plant Operator Stipend	12,480	11,240	\$ -	11,240	1,240	12,480
50100 Employee Benefits	\$263,937	280,974	\$ -	280,974	14,073	295,047
50175 Annual Leave Buyback	12,000	9,645	\$ -	9,645	1,955	11,600
50212 Conferences & Training	4,500	2,190	\$ 2,310	4,500	-	4,500
50239 Fire & Liability Insurance	35,000	28,331	\$ -	28,331	36,434	64,765
50306 Electricity	\$212,484	223,249	\$ -	223,249	6,199	229,448
50307 Natural Gas	43,410	32,402	\$ -	32,402	(1,934)	30,468
50260 Rental of Equipment	1,000	1,854	\$ -	1,854	(854)	1,000
50305 Sewer Charge	204,000	99,180	\$ -	99,180	25,718	124,898
50271 Gas/Vehicle Maintenance	5,389	7,050	\$ -	7,050	3,006	10,056
50275 Repairs & Maintenance	\$66,992	33,512	\$ -	33,512	21,488	55,000
50311 Operating Supplies	\$17,161	119	\$17,042	17,161	(2,161)	15,000
50320 Uniforms & protective Gear	1,426	835	\$ -	835	2,790	3,625
50335 Chemicals	366,315	242,583	\$ -	242,583	188,637	431,220
Subtotal:	\$ 1,882,141	\$ 1,646,804	\$ 19,352	\$ 1,666,156	\$ 244,209	\$ 1,910,365
Lawton Valley						
50001 Salaries & Wages	\$498,541	\$ 528,608	\$ -	\$ 528,608	\$ 2,434	\$ 531,042
50002 Overtime	98,903	102,478	\$ -	102,478	6,986	109,464
50003 Holiday Pay	19,992	19,772	\$ -	19,772	(157)	19,615
50045 Lead Plant Operator Stipend	12,480	4,176	\$ -	4,176	8,304	12,480
50100 Employee Benefits	\$278,234	309,454	\$ -	309,454	24,659	334,113
50175 Annual Leave Buyback	7,400	9,724	\$ -	9,724	(224)	9,500
50212 Conferences & Training	4,120	2,495	\$ 1,625	4,120	-	4,120
50239 Fire & Liability Insurance	54,000	61,505	\$ -	61,505	(1,180)	60,325
50306 Electricity	\$375,091	289,647	\$ -	289,647	4,477	294,124
50307 Natural Gas	34,663	25,950	\$ -	25,950	314	26,264
50260 Rental of Equipment	1,000	322	\$ -	322	678	1,000
50305 Sewer Charge	510,000	437,731	\$ -	437,731	(3,020)	434,711
50271 Gas/Vehicle Maintenance	5,389	5,678	\$ -	5,678	439	6,117
50275 Repairs & Maintenance	\$61,556	55,359	\$ -	55,359	9,641	65,000
50311 Operating Supplies	\$13,311	2,747	\$10,564	13,311	(11)	13,300
50320 Uniforms & protective Gear	1,303	835	\$ -	835	2,765	3,600
50335 Chemicals	328,667	332,292	\$ -	332,292	136,644	468,936
Subtotal:	\$ 2,304,651	\$ 2,188,773	\$ 12,189	\$ 2,200,962	\$ 192,749	\$ 2,393,711
Laboratory						
50001 Salaries & Wages	\$ 121,179	\$ 105,565	\$ -	\$ 105,565	\$ 38,398	\$ 143,963
50100 Employee Benefits	55,194	56,521	\$ -	56,521	30,400	86,921
50175 Annual Leave Buyback	1,500	4,210	\$ -	4,210	40	4,250
50275 Repairs & Maintenance	1,700	995	\$ -	995	5,205	6,200
50281 Regulatory Assessment	47,024	58,270	\$ -	58,270	25,430	83,700
50339 Laboratory Supplies	35,627	21,104	\$ -	21,104	33,896	55,000
Subtotal:	\$ 262,224	\$ 246,665	\$ -	\$ 246,665	\$ 133,369	\$ 380,034

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Account	Docket 4595	Test Year (FY2018)	Test Year Normalizing Adjustments	Normalized Test Year	Rate Year Adjustments	Proposed Rate Year - FY2020
Transmission & Distribution						
50001 Salaries & Wages	\$ 515,219	\$ 463,664	\$ -	\$ 463,664	\$ 57,785	\$ 521,449
50002 Overtime	52,364	43,341	\$ -	43,341	(1,247)	42,094
50004 Temp Salaries	26,180	22,256	\$ -	22,256	(2,800)	19,456
50056 Injury Pay	-	-	\$ -	-	-	-
50100 Employee Benefits	312,306	231,379	\$ -	231,379	72,160	303,539
50175 Annual Leave Buyback	7,500	2,722	\$ -	2,722	3,278	6,000
50212 Conferences & Training	4,000	1,200	\$ 2,800	4,000	-	4,000
50225 Contract Services	21,525	10,316	\$ -	10,316	1,554	11,870
50239 Fire & Liability Insurance	12,000	9,664	\$ -	9,664	1,246	10,910
50306 Electricity	20,607	16,922	\$ -	16,922	5,759	22,681
50260 Heavy Equipment Rental	8,260	246	\$ -	246	8,754	9,000
50271 Gas/Vehicle Maintenance	70,057	93,121	\$ -	93,121	(5,638)	87,483
50275 Repairs & Maintenance	26,000	18,687	\$ -	18,687	1,513	20,200
50276 Main Maintenance	91,200	84,145	\$ -	84,145	(18,145)	66,000
50296 Service Maintenance	30,000	27,194	\$ -	27,194	2,806	30,000
50311 Operating Supplies	8,000	10,014	\$ -	10,014	(2,014)	8,000
50320 Uniforms & protective Gear	4,000	1,173	\$ -	1,173	2,827	4,000
Subtotal:	\$ 1,209,218	\$ 1,036,044	\$ 2,800	\$ 1,038,844	\$ 127,838	\$ 1,166,682
Fire Protection						
50275 Repair & Maintenance - Equipment	\$ 23,800	\$ 7,739	\$ 16,061	\$ 23,800	\$ 7,500	\$ 31,300
Subtotal:	\$ 23,800	\$ 7,739	\$ 16,061	\$ 23,800	\$ 7,500	\$ 31,300
Total O&M Costs	\$ 9,628,521	\$ 8,948,304	\$ 56,163	\$ 9,004,467	\$ 1,315,913	\$ 10,320,380

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Account	Docket 4595	Test Year (FY2018)	Test Year Normalizing Adjustments	Normalized Test Year	Rate Year Adjustments	Proposed Rate Year - FY2020
CAPITAL COSTS						
Contribution to Capital Spending Acct.	\$ 2,500,000	\$2,508,830	\$ -	\$2,508,830	\$ (8,830)	\$ 2,500,000
Contribution to Debt Service Acct.	\$6,811,000	\$6,810,996	\$ -	\$6,810,996	\$ (27,801)	\$ 6,783,195
Total Capital Costs	\$ 9,311,000	\$ 9,319,826	\$ -	\$ 9,319,826	\$ (36,631)	\$ 9,283,195
Operating Revenue Allowance	\$ 144,428	\$ 268,449	\$ (1,469)	\$ 266,980	\$ (112,174)	\$ 154,806
Total Costs before Offsets	\$ 19,083,948	\$ 18,536,579	\$ 54,694	\$ 18,591,273	\$ 1,167,108	\$ 19,758,381
OFFSETS						
Nonrate Revenues						
Sundry charges	\$ 126,250	\$ 152,508	\$ -	\$ 152,508	\$ (19,508)	\$ 133,000
WPC cost share on customer service	330,000	331,646	\$ -	331,646	\$ (1,646)	330,000
Middletown cost share on customer service	167,000	166,727	\$ -	166,727	\$ (727)	166,000
Rental of Property	95,200	92,371	\$ -	92,371	\$ (2,371)	90,000
Water Penalty	51,200	48,776	\$ -	48,776	\$ 1,224	50,000
Miscellaneous*	242,251	-	\$ -	-	\$ 11,300	11,300
Investment Interest Income	1,250	24,842	\$ -	24,842	\$ (4,842)	20,000
Water Quality Protection Fees	22,250	20,751	\$ -	20,751	\$ 249	21,000
Total Nonrate Revenues	\$ 1,035,401	\$ 837,621	\$ -	\$ 837,621	\$ (16,321)	\$ 821,300
Net Costs to Be Recovered through Rates	\$ 18,048,547	\$ 17,698,958	\$ 54,694	\$ 17,753,652	\$ 1,183,429	\$ 18,937,081

* In Docket 4595 the transfer from restricted accounts to mitigate rate increase was included in this line item.

Docket 4933

Rhode Island Public Utilities Commission
 Docket 4933
 FY 2020 Rate Filing
 HJS Schedule A-1B Rebuttal
 Revenue Requirements by Account

	Test Year	Test Year	Normalized	Rate Year	Proposed	
	(FY2018)	Normalizing	Test Year	Adjustments	Rate Year -	
		Adjustments			FY2020	
50001	Salaries & Wages	\$ 2,534,885	\$ -	\$ 2,534,885	\$ 118,599	\$ 2,653,484
50002	Overtime	\$ 273,014	\$ -	\$ 273,014	\$ (2,875)	\$ 270,139
50003	Holiday Pay	\$ 40,458	\$ -	\$ 40,458	\$ 939	\$ 41,397
50004	Temp Salaries	\$ 63,632	\$ -	\$ 63,632	\$ (17,494)	\$ 46,138
50005	Permanent Part time	\$ 6,040	\$ -	\$ 6,040	\$ 6,860	\$ 12,900
50044	Standby Salaries	\$ 18,857	\$ -	\$ 18,857	\$ (137)	\$ 18,720
50045	Lead Plant Operator Stipend	\$ 15,416	\$ -	\$ 15,416	\$ 9,544	\$ 24,960
50056	Injury Pay	\$ -	\$ -	\$ -	\$ -	\$ -
50100	Employee Benefits	\$ 1,368,463	\$ -	\$ 1,368,463	\$ 238,889	\$ 1,607,352
50103	Retiree Insurance Coverage	\$ 372,907	\$ -	\$ 372,907	\$ 11,105	\$ 384,012
50105	Workers Compensation	\$ 78,304	\$ -	\$ 78,304	\$ 37,122	\$ 115,426
50120	Bank Fees (lock box)	\$ 13,298	\$ -	\$ 13,298	\$ 1,102	\$ 14,400
50175	Annual Leave Buyback	\$ 32,577	\$ -	\$ 32,577	\$ 7,123	\$ 39,700
50205	Copying & binding	\$ 532	\$ -	\$ 532	\$ 68	\$ 600
50207	Advertisement	\$ 2,481	\$ -	\$ 2,481	\$ 1,519	\$ 4,000
50210	Membership Dues & Subscriptions	\$ 4,532	\$ -	\$ 4,532	\$ 523	\$ 5,055
50212	Conferences & Training	\$ 7,135	\$ 14,485	\$ 21,620	\$ (2,000)	\$ 19,620
50214	Tuition Reimbursement	\$ -	\$ -	\$ -	\$ 2,000	\$ 2,000
50220	Consultant Fees	\$ 14,275	\$ -	\$ 14,275	\$ 237,350	\$ 251,625
50225	Support Services/Contract Services	\$ 29,568	\$ -	\$ 29,568	\$ 28,217	\$ 57,785
50238	Postage	\$ 63,248	\$ -	\$ 63,248	\$ 1,952	\$ 65,200
50239	Fire & Liability Insurance	\$ 178,189	\$ -	\$ 178,189	\$ (5,689)	\$ 172,500
50251	Telephone & Communication	\$ 10,808	\$ -	\$ 10,808	\$ (208)	\$ 10,600
50260	Rental of Equipment	\$ 2,422	\$ -	\$ 2,422	\$ 8,578	\$ 11,000
50266	Legal & Administrative	\$ 333,848	\$ -	\$ 333,848	\$ (5,536)	\$ 328,312
50267	Data Processing	\$ 231,161	\$ -	\$ 231,161	\$ 112,014	\$ 343,175
50268	Mileage Allowance	\$ 392	\$ -	\$ 392	\$ 1,608	\$ 2,000
50271	Gasoline & Vehicle Allowance	\$ 205,360	\$ -	\$ 205,360	\$ (3,693)	\$ 201,667
50275	Repairs & Maintenance	\$ 157,943	\$ 16,061	\$ 174,004	\$ 70,696	\$ 244,700
50276	Main Maintenance	\$ 84,145	\$ -	\$ 84,145	\$ (18,145)	\$ 66,000
50277	Reservoir Maintenance	\$ 25,623	\$ -	\$ 25,623	\$ 11,377	\$ 37,000
50280	Regulatory Expense	\$ 906	\$ -	\$ 906	\$ (406)	\$ 500
50281	Regulatory Assessment	\$ 170,726	\$ -	\$ 170,726	\$ 29,132	\$ 199,858
50296	Service Maintenance	\$ 27,194	\$ -	\$ 27,194	\$ 2,806	\$ 30,000
50299	Meter Maintenance	\$ 7,696	\$ -	\$ 7,696	\$ 2,304	\$ 10,000
50305	Water/Sewer Charge	\$ 538,636	\$ -	\$ 538,636	\$ 22,773	\$ 561,409
50306	Electricity	\$ 729,297	\$ -	\$ 729,297	\$ (2,160)	\$ 727,137
50307	Natural Gas	\$ 63,856	\$ -	\$ 63,856	\$ (2,554)	\$ 61,302
50308	Property Taxes	\$ 535,316	\$ -	\$ 535,316	\$ 11,915	\$ 547,231
50311	Operating Supplies	\$ 30,233	\$ 23,753	\$ 53,986	\$ (5,486)	\$ 48,500
50320	Uniforms & protective Gear	\$ 3,081	\$ -	\$ 3,081	\$ 12,594	\$ 15,675
50335	Chemicals	\$ 636,075	\$ -	\$ 636,075	\$ 358,881	\$ 994,956
50339	Laboratory Supplies	\$ 21,104	\$ -	\$ 21,104	\$ 33,896	\$ 55,000
50361	Office Supplies	\$ 10,136	\$ 1,864	\$ 12,000	\$ (155)	\$ 11,845
50380	Customer Service Supplies	\$ 1,951	\$ -	\$ 1,951	\$ 1,049	\$ 3,000
50505	Self Insurance	\$ 2,584	\$ -	\$ 2,584	\$ (84)	\$ 2,500
		8,948,304	56,163	9,004,467	1,315,913	10,320,380

Docket 4933

Rhode Island Public Utilities Commission
 Docket 4933
 FY 2020 Rate Filing
 HJS Schedule A-2A Rebuttal
 Cost of Service Rates and Charges

		Docket 4595					
		Rates	Cost of Service	Proposed Rates	% Change	Projected Revenues	
Base Charge (per bill)							
Monthly							
5/8	\$	5.02	\$ 5.7405	\$ 5.75	15%	\$739,749	
3/4	\$	5.27	6.0120	6.02	14%	183,056	
1	\$	7.03	7.9452	7.95	13%	54,473	
1.5	\$	11.33	12.6344	12.64	12%	58,093	
2	\$	15.86	17.5982	17.60	11%	53,856	
3	\$	41.71	45.9774	45.98	10%	33,106	
4	\$	49.12	54.1228	54.13	10%	9,743	
5	\$	58.99	64.9833	64.99	10%	0	
6	\$	66.40	73.1286	73.13	10%	29,837	
8	\$	86.15	94.8496	94.85	10%	4,553	
10	\$	121.95	134.2188	134.22	10%	3,221	
Portsmouth Base Charge (4")	\$	1.36	1.7246	1.73	27%	21	
						1,169,709	
Volume Charge (per 1,000 gallons)							
Retail							
Residential	\$	10.02	\$ 10.9577	\$ 10.96	9%	6,844,520	
Non-Residential	\$	11.22	\$ 11.4060	\$ 11.41	2%	5,079,732	
						\$ 11,924,252	
Wholesale							
Navy	\$	6.5190	\$ 7.8280	\$ 7.8280	20%	1,478,709	
Portsmouth Water & Fire District	\$	5.2920	\$ 6.8790	\$ 6.8790	30%	2,593,383	
						\$ 4,072,092	
Fire Protection							
Public (per hydrant)	\$	944.22	\$ 1,205.30	\$ 1,205.31	28%	\$ 1,255,933	
Private (by Connection Size)							
	Connection Size	Existing Charge					
	<2	\$33.26	\$ 38.49	\$ 38.49	16%		
	2	6.19	\$139.26	\$ 161.15	\$ 161.16	16%	-
	4	38.32	\$468.22	\$ 567.02	\$ 567.02	21%	44,795
	6	111.31	\$1,055.81	\$ 1,314.96	\$ 1,314.96	25%	311,646
	8	237.21	\$2,069.28	\$ 2,605.00	\$ 2,605.01	26%	140,671
	10	426.58	\$3,593.75	\$ 4,545.50	\$ 4,545.50	26%	22,728
	12	689.04	\$5,706.61	\$ 7,234.95	\$ 7,234.96	27%	-
						\$ 519,838	
Total Projected Rate Revenues						\$ 18,941,824	

Docket 4933

Rhode Island Public Utilities Commission
 Docket 4933
 FY 2020 Rate Filing
 HJS Schedule A-2B Rebuttal
 Multi-Year Rate Plan

Rates and Charges	Current Rates	Rate Year		Future Year	
		Proposed FY 2020	% Increase	Proposed FY 2022	% Increase
Billing Charge (per bill)					
5/8	\$ 5.02	\$ 5.75	15%	\$ 5.90	3%
3/4	\$ 5.27	\$ 6.02	14%	\$ 6.18	3%
1	\$ 7.03	\$ 7.95	13%	\$ 8.18	3%
1.5	\$ 11.33	\$ 12.64	12%	\$ 13.04	3%
2	\$ 15.86	\$ 17.60	11%	\$ 18.18	3%
3	\$ 41.71	\$ 45.98	10%	\$ 47.58	3%
4	\$ 49.12	\$ 54.13	10%	\$ 56.02	3%
5	\$ 58.99	\$ 64.99	10%	\$ 67.27	4%
6	\$ 66.40	\$ 73.13	10%	\$ 75.71	4%
8	\$ 86.15	\$ 94.85	10%	\$ 98.21	4%
10	\$ 121.95	\$ 134.22	10%	\$ 138.99	4%
Portsmouth Base Charge (4")	\$ 1.36	\$ 1.73	27%	\$ 1.74	1%
Commodity Charge (per 1,000 gallons)					
Retail					
Residential	\$ 10.02	\$ 10.96	9%	\$ 11.28	3%
Non-Residential	\$ 11.22	\$ 11.41	2%	\$ 11.74	3%
Wholesale					
Navy	\$ 6.5190	\$ 7.8280	20%	\$ 8.0486	3%
Portsmouth Water & Fire District	\$ 5.2920	\$ 6.8790	30%	\$ 7.0722	3%
Fire Protection					
Public (per hydrant)	\$ 944.22	\$ 1,205.31	28%	\$ 1,245.92	3%
Private (Connection Size)					
Less than 2"	\$33.26	\$ 38.49	16%	\$ 39.84	4%
2"	\$139.26	\$ 161.16	16%	\$ 166.81	4%
4"	\$468.22	\$ 567.02	21%	\$ 586.72	3%
6"	\$1,055.81	\$ 1,314.96	25%	\$ 1,360.27	3%
8"	\$2,069.28	\$ 2,605.01	26%	\$ 2,694.49	3%
10"	\$3,593.75	\$ 4,545.50	26%	\$ 4,701.44	3%
12"	\$5,706.61	\$ 7,234.96	27%	\$ 7,482.98	3%

Docket 4933

Customer Class	Proposed 5/8 Inch Meter				Proposed 3/4 Inch Meter				Proposed 1 Inch Meter				Proposed 1.5 Inch Meter				Proposed 2 Inch Meter				Proposed 3 Inch Meter				
	Consumption per Bill (gallons)	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change
Residential (Monthly)	1,000	\$180.48	\$200.52	\$20.04	11.1%	\$183.48	\$203.76	\$20.28	11.2%	\$204.60	\$226.92	\$22.32	12.4%	\$256.20	\$283.20	\$27.00	15.0%	\$310.56	\$342.72	\$32.16	17.8%	\$620.76	\$683.28	\$62.52	34.6%
	2,000	\$300.72	\$332.04	\$31.32	10.4%	\$303.72	\$335.28	\$31.56	10.5%	\$324.84	\$358.44	\$33.60	11.2%	\$376.44	\$414.72	\$38.28	12.7%	\$430.80	\$474.24	\$43.44	14.4%	\$741.00	\$814.80	\$73.80	24.5%
	4,000	\$541.20	\$595.08	\$53.88	10.0%	\$544.20	\$598.32	\$54.12	10.0%	\$565.32	\$621.48	\$56.16	10.4%	\$616.92	\$677.76	\$60.84	11.2%	\$671.28	\$737.28	\$66.00	12.2%	\$981.48	\$1,077.84	\$96.36	17.8%
	5,000	\$661.44	\$726.60	\$65.16	9.9%	\$664.44	\$729.84	\$65.40	9.9%	\$685.56	\$753.00	\$67.44	10.2%	\$737.16	\$809.28	\$72.12	10.9%	\$791.52	\$868.80	\$77.28	11.7%	\$1,101.72	\$1,209.36	\$107.64	16.3%
	7,500	\$962.04	\$1,055.40	\$93.36	9.7%	\$965.04	\$1,058.64	\$93.60	9.7%	\$986.16	\$1,081.80	\$95.64	9.9%	\$1,037.76	\$1,138.08	\$100.32	10.4%	\$1,092.12	\$1,197.60	\$105.48	11.0%	\$1,402.32	\$1,538.16	\$135.84	14.1%
	10,000	\$1,262.64	\$1,384.20	\$121.56	9.6%	\$1,265.64	\$1,387.44	\$121.80	9.6%	\$1,286.76	\$1,410.60	\$123.84	9.8%	\$1,338.36	\$1,466.88	\$128.52	10.2%	\$1,392.72	\$1,526.40	\$133.68	10.6%	\$1,702.92	\$1,866.96	\$164.04	13.0%
	15,000	\$1,863.84	\$2,041.80	\$177.96	9.5%	\$1,866.84	\$2,045.04	\$178.20	9.6%	\$1,887.96	\$2,068.20	\$180.24	9.7%	\$1,939.56	\$2,124.48	\$184.92	9.9%	\$1,993.92	\$2,184.00	\$190.08	10.2%	\$2,304.12	\$2,524.56	\$220.44	11.8%
	20,000	\$2,465.04	\$2,699.40	\$234.36	9.5%	\$2,468.04	\$2,702.64	\$234.60	9.5%	\$2,489.16	\$2,725.80	\$236.64	9.6%	\$2,540.76	\$2,782.08	\$241.32	9.8%	\$2,595.12	\$2,841.60	\$246.48	10.0%	\$2,905.32	\$3,182.16	\$276.84	11.2%
	25,000	\$3,066.24	\$3,357.00	\$290.76	9.5%	\$3,069.24	\$3,360.24	\$291.00	9.5%	\$3,090.36	\$3,383.40	\$293.04	9.6%	\$3,141.96	\$3,439.68	\$297.72	9.7%	\$3,196.32	\$3,499.20	\$302.88	9.9%	\$3,506.52	\$3,839.76	\$333.24	10.9%
	30,000	\$3,667.44	\$4,014.60	\$347.16	9.5%	\$3,670.44	\$4,017.84	\$347.40	9.5%	\$3,691.56	\$4,041.00	\$349.44	9.5%	\$3,743.16	\$4,097.28	\$354.12	9.7%	\$3,797.52	\$4,156.80	\$359.28	9.8%	\$4,107.72	\$4,497.36	\$389.64	10.6%

Docket 4933

Customer Class	Proposed 5/8 Inch Meter					Proposed 3/4 Inch Meter				Proposed 1 Inch Meter				Proposed 1.5 Inch Meter				Proposed 2 Inch Meter				Proposed 3 Inch Meter			
	Monthly Consumption (gallons)	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change
Non-Residential (Monthly)	2,000	\$329.52	\$342.84	\$13.32	4.0%	\$332.52	\$346.08	\$13.56	4.1%	\$353.64	\$369.24	\$15.60	4.7%	\$405.24	\$425.52	\$20.28	6.2%	\$459.60	\$485.04	\$25.44	7.7%	\$741.00	\$814.80	\$73.80	22.4%
	5,000	\$733.44	\$753.60	\$20.16	2.7%	\$736.44	\$756.84	\$20.40	2.8%	\$757.56	\$780.00	\$22.44	3.1%	\$809.16	\$836.28	\$27.12	3.7%	\$863.52	\$895.80	\$32.28	4.4%	\$1,101.72	\$1,209.36	\$107.64	14.7%
	9,000	\$1,272.00	\$1,301.28	\$29.28	2.3%	\$1,275.00	\$1,304.52	\$29.52	2.3%	\$1,296.12	\$1,327.68	\$31.56	2.5%	\$1,347.72	\$1,383.96	\$36.24	2.8%	\$1,402.08	\$1,443.48	\$41.40	3.3%	\$1,582.68	\$1,735.44	\$152.76	12.0%
	25,000	\$3,426.24	\$3,492.00	\$65.76	1.9%	\$3,429.24	\$3,495.24	\$66.00	1.9%	\$3,450.36	\$3,518.40	\$68.04	2.0%	\$3,501.96	\$3,574.68	\$72.72	2.1%	\$3,556.32	\$3,634.20	\$77.88	2.3%	\$3,506.52	\$3,839.76	\$333.24	9.7%
	30,000	\$4,099.44	\$4,176.60	\$77.16	1.9%	\$4,102.44	\$4,179.84	\$77.40	1.9%	\$4,123.56	\$4,203.00	\$79.44	1.9%	\$4,175.16	\$4,259.28	\$84.12	2.1%	\$4,229.52	\$4,318.80	\$89.28	2.2%	\$4,107.72	\$4,497.36	\$389.64	9.5%
	40,000	\$5,445.84	\$5,545.80	\$99.96	1.8%	\$5,448.84	\$5,549.04	\$100.20	1.8%	\$5,469.96	\$5,572.20	\$102.24	1.9%	\$5,521.56	\$5,628.48	\$106.92	2.0%	\$5,575.92	\$5,688.00	\$112.08	2.1%	\$5,310.12	\$5,812.56	\$502.44	9.2%
	50,000	\$6,792.24	\$6,915.00	\$122.76	1.8%	\$6,795.24	\$6,918.24	\$123.00	1.8%	\$6,816.36	\$6,941.40	\$125.04	1.8%	\$6,867.96	\$6,997.68	\$129.72	1.9%	\$6,922.32	\$7,057.20	\$134.88	2.0%	\$6,512.52	\$7,127.76	\$615.24	9.1%
	75,000	\$10,158.24	\$10,338.00	\$179.76	1.8%	\$10,161.24	\$10,341.24	\$180.00	1.8%	\$10,182.36	\$10,364.40	\$182.04	1.8%	\$10,233.96	\$10,420.68	\$186.72	1.8%	\$10,288.32	\$10,480.20	\$191.88	1.9%	\$9,518.52	\$10,415.76	\$897.24	8.8%
	100,000	\$13,524.24	\$13,761.00	\$236.76	1.8%	\$13,527.24	\$13,764.24	\$237.00	1.8%	\$13,548.36	\$13,787.40	\$239.04	1.8%	\$13,599.96	\$13,843.68	\$243.72	1.8%	\$13,654.32	\$13,903.20	\$248.88	1.8%	\$12,524.52	\$13,703.76	\$1,179.24	8.7%

Customer Class	Proposed 5/8 Inch Meter					Proposed 3/4 Inch Meter				Proposed 1 Inch Meter				Proposed 1.5 Inch Meter				Proposed 2 Inch Meter				Proposed 3 Inch Meter			
	Annual Consumption (gallons)	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change
Non-Residential with 6" Fire Connection(Monthly Account)	9,000	\$161.22	\$171.69	\$10.47	6.5%	\$165.93	\$174.93	\$9.00	5.6%	\$187.05	\$198.09	\$11.04	6.8%	\$238.65	\$254.37	\$15.72	9.8%	\$293.01	\$313.89	\$20.88	13.0%	\$603.21	\$654.45	\$51.24	31.8%
		\$1,055.81	\$1,314.96	\$259.15	24.5%	\$1,055.81	\$1,314.96	\$259.15	24.5%	\$1,055.81	\$1,314.96	\$259.15	24.5%	\$1,055.81	\$1,314.96	\$259.15	24.5%	\$1,055.81	\$1,314.96	\$259.15	24.5%	\$1,055.81	\$1,314.96	\$259.15	24.5%
		\$1,217.03	\$1,486.65	\$269.62	22.2%	\$1,221.74	\$1,489.89	\$268.15	22.0%	\$1,242.86	\$1,513.05	\$270.19	22.2%	\$1,294.46	\$1,569.33	\$274.87	22.6%	\$1,348.82	\$1,628.85	\$280.03	23.0%	\$1,659.02	\$1,969.41	\$310.39	25.5%
Total Annual Charges																									

Customer Class	Monthly Consumption (gallons)	Monthly Bill at Current Rates	Proposed		
			Monthly Bill at Proposed	Dollar Change	Percent Change
Portsmouth	10,000,000	\$52,925	\$68,844	\$15,919	30.1%
	20,000,000	\$105,845	\$137,634	\$31,789	30.0%
	32,000,000	\$169,349	\$220,182	\$50,833	30.0%
	40,000,000	\$211,685	\$275,214	\$63,529	30.0%
	75,000,000	\$396,905	\$515,979	\$119,074	30.0%
Navy 6"meter	5,000,000	\$32,681	\$39,140	\$6,459	19.8%
	10,000,000	\$65,312	\$78,280	\$12,968	19.9%
	38,000,000	\$247,722	\$297,464	\$49,742	20.1%
	50,000,000	\$325,961	\$391,400	\$65,439	20.1%

Docket 4933

Customer Class	Monthly Consumption (gallons)	Annual Bill at Current Rates	Proposed FY 2020			Proposed FY 2022		
			Annual Bill at Proposed Rates	\$ Increase from Current Rates	% Increase from Current Rates	Annual Bill at Proposed Rates	\$ Increase from FY 2020 Rates	% Increase from FY 2020 Rates
Residential 5/8" meter								
Avg. Monthly Use	1,000	\$ 180.48	\$ 200.52	\$ 20.04	11.1%	\$ 206.16	\$ 5.64	2.8%
	2,000	\$ 300.72	\$ 332.04	\$ 31.32	10.4%	\$ 341.52	\$ 9.48	2.9%
	4,000	\$ 541.20	\$ 595.08	\$ 53.88	10.0%	\$ 612.24	\$ 17.16	2.9%
	5,000	\$ 661.44	\$ 726.60	\$ 65.16	9.9%	\$ 747.60	\$ 21.00	2.9%
	7,500	\$ 962.04	\$ 1,055.40	\$ 93.36	9.7%	\$ 1,086.00	\$ 30.60	2.9%
	10,000	\$ 1,262.64	\$ 1,384.20	\$ 121.56	9.6%	\$ 1,424.40	\$ 40.20	2.9%
	15,000	\$ 1,863.84	\$ 2,041.80	\$ 177.96	9.5%	\$ 2,101.20	\$ 59.40	2.9%
	20,000	\$ 2,465.04	\$ 2,699.40	\$ 234.36	9.5%	\$ 2,778.00	\$ 78.60	2.9%
	25,000	\$ 3,066.24	\$ 3,357.00	\$ 290.76	9.5%	\$ 3,454.80	\$ 97.80	2.9%
	30,000	\$ 3,667.44	\$ 4,014.60	\$ 347.16	9.5%	\$ 4,131.60	\$ 117.00	2.9%

Customer Class	Monthly Consumption (gallons)	Annual Bill at Current Rates	Proposed FY 2020			Proposed FY 2022		
			Annual Bill at Proposed Rates	\$ Increase from Current Rates	% Increase from Current Rates	Annual Bill at Proposed Rates	\$ Increase from FY 2020 Rates	% Increase from FY 2020 Rates
Non-Residential 5/8" meter								
Avg. Monthly Use	2,000	\$329.52	\$342.84	\$13.32	4.0%	\$352.56	\$9.72	2.8%
	5,000	\$733.44	\$753.60	\$20.16	2.7%	\$775.20	\$21.60	2.9%
	9,000	\$1,272.00	\$1,301.28	\$29.28	2.3%	\$1,338.72	\$37.44	2.9%
	25,000	\$3,426.24	\$3,492.00	\$65.76	1.9%	\$3,592.80	\$100.80	2.9%
	30,000	\$4,099.44	\$4,176.60	\$77.16	1.9%	\$4,297.20	\$120.60	2.9%
	40,000	\$5,445.84	\$5,545.80	\$99.96	1.8%	\$5,706.00	\$160.20	2.9%
	50,000	\$6,792.24	\$6,915.00	\$122.76	1.8%	\$7,114.80	\$199.80	2.9%
	75,000	\$10,158.24	\$10,338.00	\$179.76	1.8%	\$10,636.80	\$298.80	2.9%
	100,000	\$13,524.24	\$13,761.00	\$236.76	1.8%	\$14,158.80	\$397.80	2.9%

Customer Class	Monthly Consumption (gallons)	Monthly Bill at Current Rates	Proposed FY 2020			Proposed FY 2022		
			Monthly Bill at Proposed Rates	\$ Increase from Current Rates	% Increase from Current Rates	Monthly Bill at Proposed Rates	\$ Increase from FY 2012 Rates	% Increase from FY 2012 Rates
Portsmouth								
Avg. Monthly Bill	10,000,000	\$52,925.02	\$68,844.13	\$15,919.11	30.1%	\$70,723.74	\$1,879.61	2.7%
	20,000,000	\$105,845.02	\$137,634.13	\$31,789.11	30.0%	\$141,445.74	\$3,811.61	2.8%
	32,000,000	\$169,349.02	\$220,182.13	\$50,833.11	30.0%	\$226,312.14	\$6,130.01	2.8%
	40,000,000	\$211,685.02	\$275,214.13	\$63,529.11	30.0%	\$282,889.74	\$7,675.61	2.8%
	75,000,000	\$396,905.02	\$515,979.13	\$119,074.11	30.0%	\$530,416.74	\$14,437.61	2.8%
Navy								
Avg. Monthly Bill	5,000,000	\$32,681.15	\$39,140.00	\$6,458.85	19.8%	\$40,318.71	\$1,178.71	3.0%
	10,000,000	\$65,311.95	\$78,280.00	\$12,968.05	19.9%	\$80,561.71	\$2,281.71	2.9%
	38,000,000	\$247,722.00	\$297,464.00	\$49,742.00	20.1%	\$305,922.51	\$8,458.51	2.8%
	50,000,000	\$325,961.47	\$391,400.00	\$65,438.53	20.1%	\$402,505.71	\$11,105.71	2.8%

Docket 4933

Rhode Island Public Utilities Commission
 Docket 4933
 FY 2020 Rate Filing
 HJS Schedule A-4 Rebuttal
 Revenue Proof

	Annual Revenue		
	Existing Rates	Proposed FY 2020 Rates	Proposed FY 2022 Rates
REVENUES			
Water Rates			
Base Charge (Billing Charge)	\$ 1,026,420	\$ 1,169,709	\$ 1,201,882
Volume Charge			
Residential	6,257,490	6,844,520	7,044,360
Non-Residential	4,995,144	5,079,732	5,226,648
Navy	1,231,439	1,478,709	1,520,381
Portsmouth Water & Fire District	1,995,084	2,593,383	2,666,219
Fire Protection			
Public	983,877	1,255,933	1,298,249
Private	416,926	519,838	537,745
Total Rate Revenues	\$ 16,906,380	\$ 18,941,824	\$ 19,495,483
Other Operating Revenues			
Sundry charges	\$ 133,000	133,000	133,000
WPC cost share on customer service	\$ 330,000	330,000	330,000
Middletown cost share on customer service	\$ 166,000	166,000	166,000
Rental of Property	\$ 90,000	90,000	90,000
Total Other Operating Revenues	\$ 719,000	719,000	719,000
Total Operating Revenues	\$ 17,625,380	\$ 19,660,824	\$ 20,214,483
Add: Non-Operating Revenues			
Water Penalty	50,000	50,000	50,000
Miscellaneous*	11,300	11,300	11,300
Investment Interest Income	20,000	20,000	20,000
Water Quality Protection Fees	21,000	21,000	21,000
Total Non Operating Revenues	\$ 102,300	\$ 102,300	\$ 102,300
Total Revenues	\$ 17,727,680	\$ 19,763,124	\$ 20,316,783
COSTS			
Departmental O&M	\$ (10,320,380)	(10,320,380)	(10,320,380)
Capital Costs			
Contribution to Capital Spending Acct.	(2,500,000)	(2,500,000)	(2,500,000)
Contribution to Debt Service Acct.	(6,783,195)	(\$6,783,195)	\$ (7,337,411)
Total Capital Costs	\$ (9,283,195)	(9,283,195)	(9,837,411)
Operating Revenue Allowance	(154,806)	(154,806)	(154,806)
Total Costs	\$ (19,758,381)	\$ (19,758,381)	\$ (20,312,596)
Revenue Surplus (Deficit)	\$ (2,030,701)	\$ 4,743	\$ 4,187

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Operation & Maintenance Costs

Administration

Salaries, Wages, & Benefits

Rate Year	Allocation Notes	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total % Allocated		
	Salaries & Wages	\$ 297,917	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
	AFSCME retro	\$ -	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
	NEA retro	\$ -	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
	AFSCME benefits on retro pay	\$ -	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
	NEA benefits on retro pay	\$ -	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
	Standby Salaries	\$ 18,720	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
	Accrued Benefits Buyout	\$ -	Non-Administrative Wages & Salaries	58%	21%	8%	6%	5%	2%	0%	100%
	Employee Benefits	\$ 135,766	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
	Retiree Insurance Coverage	\$ 384,012	Non-Administrative Wages & Salaries	58%	21%	8%	6%	5%	2%	0%	100%
	Workers Compensation	\$ 115,426	Non-Administrative Wages & Salaries	58%	21%	8%	6%	5%	2%	0%	100%
	Annual Leave Buyback	\$ 2,500	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
	Subtotal	954,341									

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	Rate Year	Allocation Notes	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total % Allocated
All Other Administrative Costs										
Advertisement	4,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Membership Dues & Subscriptio	5,055	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Conferences & Training	4,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Tuition Reimbursement	2,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Consultant Fees	251,625	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Postage	1,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Fire & Liability Insurance	36,500	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Telephone & Communication	10,600	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Water	1,800	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Electricity	7,610	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Natural Gas	4,570	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Property Taxes	547,231	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Legal & Administrative	-									
Audit Fees	4,944	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
OPEB Contribution	31,488	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
City Council	3,943	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
City Clerk	4,537	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
City Manager	76,621	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
Human Resources	6,193	Non-Administrative Wages & Salaries	58%	21%	8%	6%	5%	2%	0%	100%
City Solicitor	37,118	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
Finance Adimistrative 50%	26,212	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
Finance Adimistrative 5%	3,363	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
Finance Admin 10% Inv/Deb	11,809	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
Purchasing	22,404	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
Assessment	-	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
Collections	24,828	100% Billing	0%	0%	0%	0%	100%	0%	0%	100%
Accounting - Wires - 5%	9,149	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
Accounting	65,704	Non-Administrative Wages & Salaries	58%	21%	8%	6%	5%	2%	0%	100%
Facilities Maintenance	-	Non-Administrative Wages & Salaries	58%	21%	8%	6%	5%	2%	0%	100%
Data Processing	343,175	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Mileage Allowance	2,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Gasoline & Vehicle Allowance	5,382	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Repairs & Maintenance	1,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Regulatory Expense	500	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Regulatory Assessment	116,158	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Office Supplies	11,845	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Self Insurance	2,500	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Unemployment Claims	-	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Subtotal	1,686,863									

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Rate Year		Allocation Notes	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total % Allocated
Customer Service										
Salaries & Wages	340,135	Customer Service Salaries and Wages	0%	0%	0%	48%	40%	12%	0%	100%
Benefits	236,012	Customer Service Salaries and Wages	0%	0%	0%	48%	40%	12%	0%	100%
Copying & binding	600	100% billing (based on budget analysis)					100%			100%
Conferences & Training	3,000	100% billing (based on budget analysis)					100%			100%
Support Services	45,915	100% billing (software support & printing/mailing)					100%			100%
Postage	64,200	100% billing (based on budget analysis)					100%			100%
Bank Fees (lock box)	14,400	100% billing (based on budget analysis)					100%			100%
Gasoline & Vehicle Allowance	32,586	Customer Service Salaries and Wages	0%	0%	0%	48%	40%	12%	0%	100%
Repairs & Maintenance	35,000	100% metering (meter repairs)				100%				100%
Meter Maintenance	10,000	100% metering (based on budget analysis)				100%				100%
Operating Supplies	5,000	100% metering (based on budget analysis)				100%				100%
Uniforms & protective Gear	2,450	100% metering (based on budget analysis)				100%				100%
Customer Service Supplies	3,000	100% billing (based on budget analysis)					100%			100%
Subtotal	792,298									
Source of Supply - Island										
Salaries & Wages	\$ 312,654	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Overtime	\$ 20,657	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Temp Salaries	\$ 6,917	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Injury Pay	\$ -	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Employee Benefits	\$ 212,596	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Annual Leave Buyback	\$ 1,700	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Electricity	\$ 31,308	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Gas/Vehicle Maintenance	\$ 60,043	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Repairs & Maintenance	\$ 14,000	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Reservoir Maintenance	\$ 25,000	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Operating Supplies	\$ 6,700	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Uniforms & protective Gear	\$ 2,000	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Chemicals	\$ 94,800	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Subtotal	\$ 788,375									
Source of Supply - Mainland										
Overtime	\$ 8,922	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Temp Salaries	\$ 19,765	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Permanent Part time	\$ 12,900	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Employee Benefits	\$ 3,358	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Electricity	\$ 141,966	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Repairs & Maintenance	\$ 17,000	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Reservoir Maintenance	\$ 12,000	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Operating Supplies	\$ 500	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Subtotal	\$ 216,411									

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	Rate Year	Allocation Notes	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total % Allocated
Station One (Excludes chemicals)										
Salaries & Wages	\$ 513,045	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Overtime	\$ 86,431	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Holiday Pay	\$ 21,781	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Lead Plant Operator Stipend	\$ 12,480	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Employee Benefits	\$ 295,047	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Annual Leave Buyback	\$ 11,600	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Conferences & Training	\$ 4,500	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Fire & Liability Insurance	\$ 64,765	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Electricity	\$ 229,448	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Natural Gas	\$ 30,468	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Rental of Equipment	\$ 1,000	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Sewer Charge	\$ 124,898	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Gas/Vehicle Maintenance	\$ 10,056	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Repairs & Maintenance	\$ 55,000	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Operating Supplies	\$ 15,000	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Uniforms & protective Gear	\$ 3,625	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Station One Chemicals	\$ 431,220	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Subtotal	\$ 1,910,365									
Lawton Valley (Excludes chemicals)										
Salaries & Wages	\$531,042	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Overtime	\$109,464	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Holiday Pay	\$19,615	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Lead Plant Operator Stipend	\$12,480	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Employee Benefits	\$334,113	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Annual Leave Buyback	\$9,500	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Conferences & Training	\$4,120	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Fire & Liability Insurance	\$60,325	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Electricity	\$294,124	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Natural Gas	\$26,264	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Rental of Equipment	\$1,000	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Sewer Charge	\$434,711	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Gas/Vehicle Maintenance	\$6,117	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Repairs & Maintenance	\$65,000	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Operating Supplies	\$13,300	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Uniforms & protective Gear	\$3,600	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Lawton Valley Chemicals	\$468,936	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Subtotal	2,393,711									

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	Rate Year	Allocation Notes	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total % Allocated
Laboratory										
Salaries & Wages	\$ 143,963	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Employee Benefits	\$ 86,921	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Annual Leave Buyback	\$ 4,250	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Repairs & Maintenance	\$ 6,200	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Regulatory Assessment	\$ 83,700	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Laboratory Supplies	\$ 55,000	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Subtotal	\$ 380,034									
Transmission and Distribution										
Salaries & Wages	\$ 521,449	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Overtime	\$ 42,094	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Temp Salaries	\$ 19,456	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Injury Pay	\$ -	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Employee Benefits	\$ 303,539	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Annual Leave Buyback	\$ 6,000	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Conferences & Training	\$ 4,000	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Contract Services	\$ 11,870	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Fire & Liability Insurance	\$ 10,910	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Electricity	\$ 22,681	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Heavy Equipment Rental	\$ 9,000	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Gas/Vehicle Maintenance	\$ 87,483	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Repairs & Maintenance	\$ 20,200	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Main Maintenance	\$ 66,000	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Hydrant Maintenance	\$ -	100% Fire	0%	0%	0%	0%	0%	0%	100%	100%
Service Maintenance	\$ 30,000	100% Services	0%	0%	0%	0%	0%	100%	0%	100%
Operating Supplies	\$ 8,000	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Uniforms & protective Gear	\$ 4,000	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Subtotal	\$ 1,166,682									
Fire Protection	31,300	100% Fire	0%	0%	0%	0%	0%	0%	100%	100%
Total O&M Costs	10,320,380									

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		Rate Year	Allocation Notes	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total % Allocated
CAPITAL COSTS											
Water Supply		1,390,098	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Treatment Station 1		2,182,211	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Treatment Lawton Valley		2,533,800	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Treatment Both Plants		733,383	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
T&D Pumping		59,546	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
T&D		1,772,079	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Fire		27,134	100% Fire	0%	0%	0%	0%	0%	0%	100%	100%
Meters		343,887	100% Meters	0%	0%	0%	100%	0%	0%	0%	100%
Services		217,735	100 % Services	0%	0%	0%	0%	0%	100%	0%	100%
Billing		23,322	100% Billing	0%	0%	0%	0%	100%	0%	0%	100%
Total Capital Costs excluding Treatment		9,283,195									
Revenue Allowance		154,806	100% base	100%							100%
Total Costs before Offsets		19,758,381									
OFFSETS											
Nonrate Revenues											
Sundry charges		133,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
WPC cost share on customer ser		330,000	50/50 Split between Metering and Billing	0%	0%	0%	50%	50%	0%	0%	100%
Middletown cost share on custo		166,000	50/50 Split between Metering and Billing	0%	0%	0%	50%	50%	0%	0%	100%
Rental of Property		90,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Water Penalty		50,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Miscellaneous*		11,300	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Investment Interest Income		20,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Water Quality Protection Fees		21,000	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Total Nonrate Revenues		821,300									
Net Costs To Recover Through Rates		\$ 18,937,081									
		\$ -									

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	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
Operation & Maintenance Costs								
Administration								
Salaries, Wages, & Benefits								
Salaries & Wages	180,679	52,009	22,756	17,170	18,599	5,147	1,557	297,917
AFSCME retro	-	-	-	-	-	-	-	-
NEA retro	-	-	-	-	-	-	-	-
AFSCME benefits on retro pay	-	-	-	-	-	-	-	-
NEA benefits on retro pay	-	-	-	-	-	-	-	-
Standby Salaries	11,353	3,268	1,430	1,079	1,169	323	98	18,720
Accrued Benefits Buyout	-	-	-	-	-	-	-	-
Employee Benefits	82,339	23,701	10,370	7,825	8,476	2,346	710	135,766
Retiree Insurance Coverage	224,570	78,796	32,578	22,673	19,385	5,802	208	384,012
Workers Compensation	67,501	23,684	9,792	6,815	5,827	1,744	63	115,426
Annual Leave Buyback	1,516	436	191	144	156	43	13	2,500
Subtotal	567,958	181,895	77,118	55,706	53,610	15,406	2,649	954,341

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	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
All Other Administrative Costs								
Advertisement	2,426	698	306	231	250	69	21	4,000
Membership Dues & Subscription	3,066	882	386	291	316	87	26	5,055
Conferences & Training	2,426	698	306	231	250	69	21	4,000
Tuition Reimbursement	1,213	349	153	115	125	35	10	2,000
Consultant Fees	152,604	43,927	19,220	14,502	15,709	4,347	1,315	251,625
Postage	606	175	76	58	62	17	5	1,000
Fire & Liability Insurance	22,136	6,372	2,788	2,104	2,279	631	191	36,500
Telephone & Communication	6,429	1,850	810	611	662	183	55	10,600
Water	1,092	314	137	104	112	31	9	1,800
Electricity	4,615	1,329	581	439	475	131	40	7,610
Natural Gas	2,772	798	349	263	285	79	24	4,570
Property Taxes	331,881	95,533	41,800	31,539	34,163	9,454	2,861	547,231
Legal & Administrative								
Audit Fees	3,215	960	345	199	115	93	17	4,944
OPEB Contribution	20,478	6,117	2,197	1,267	730	591	107	31,488
City Council	2,564	766	275	159	91	74	13	3,943
City Clerk	2,950	881	317	183	105	85	15	4,537
City Manager	49,830	14,885	5,346	3,084	1,778	1,438	262	76,621
Human Resources	3,621	1,271	525	366	313	94	3	6,193
City Solicitor	24,139	7,211	2,590	1,494	861	696	127	37,118
Finance Adimistrative 50%	17,047	5,092	1,829	1,055	608	492	89	26,212
Finance Adimistrative 5%	2,187	653	235	135	78	63	11	3,363
Finance Admin 10% Inv/Debt	7,680	2,294	824	475	274	222	40	11,809
Purchasing	14,571	4,352	1,563	902	520	420	76	22,404
Assessment	-	-	-	-	-	-	-	-
Collections	-	-	-	-	24,828	-	-	24,828
Accounting - Wires - 5%	5,950	1,777	638	368	212	172	31	9,149
Accounting	38,423	13,482	5,574	3,879	3,317	993	36	65,704
Facilities Maintenance	-	-	-	-	-	-	-	-
Data Processing	208,127	59,910	26,213	19,778	21,424	5,929	1,794	343,175
Mileage Allowance	1,213	349	153	115	125	35	10	2,000
Gasoline & Vehicle Allowance	3,264	940	411	310	336	93	28	5,382
Repairs & Maintenance	606	175	76	58	62	17	5	1,000
Regulatory Expense	303	87	38	29	31	9	3	500
Regulatory Assessment	70,447	20,278	8,873	6,695	7,252	2,007	607	116,158
Office Supplies	7,184	2,068	905	683	739	205	62	11,845
Self Insurance	1,516	436	191	144	156	43	13	2,500
Unemployment Claims	-	-	-	-	-	-	-	-
Subtotal	1,016,581	296,911	126,030	91,864	118,643	28,903	7,932	1,686,863

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	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
Customer Service								
Salaries & Wages	-	-	-	163,505	135,593	41,037	-	340,135
Benefits	-	-	-	113,452	94,085	28,475	-	236,012
Copying & binding	-	-	-	-	600	-	-	600
Conferences & Training	-	-	-	-	3,000	-	-	3,000
Support Services	-	-	-	-	45,915	-	-	45,915
Postage	-	-	-	-	64,200	-	-	64,200
Bank Fees (lock box)	-	-	-	-	14,400	-	-	14,400
Gasoline & Vehicle Allowance	-	-	-	15,664	12,990	3,931	-	32,586
Repairs & Maintenance	-	-	-	35,000	-	-	-	35,000
Meter Maintenance	-	-	-	10,000	-	-	-	10,000
Operating Supplies	-	-	-	5,000	-	-	-	5,000
Uniforms & protective Gear	-	-	-	2,450	-	-	-	2,450
Customer Service Supplies	-	-	-	-	3,000	-	-	3,000
Source of Supply - Island								
Salaries & Wages	312,654	-	-	-	-	-	-	312,654
Overtime	20,657	-	-	-	-	-	-	20,657
Temp Salaries	6,917	-	-	-	-	-	-	6,917
Injury Pay	-	-	-	-	-	-	-	-
Employee Benefits	212,596	-	-	-	-	-	-	212,596
Annual Leave Buyback	1,700	-	-	-	-	-	-	1,700
Electricity	31,308	-	-	-	-	-	-	31,308
Gas/Vehicle Maintenance	60,043	-	-	-	-	-	-	60,043
Repairs & Maintenance	14,000	-	-	-	-	-	-	14,000
Reservoir Maintenance	25,000	-	-	-	-	-	-	25,000
Operating Supplies	6,700	-	-	-	-	-	-	6,700
Uniforms & protective Gear	2,000	-	-	-	-	-	-	2,000
Chemicals	94,800	-	-	-	-	-	-	94,800
Source of Supply - Mainland								
Overtime	8,922	-	-	-	-	-	-	8,922
Temp Salaries	19,765	-	-	-	-	-	-	19,765
Permanent Part time	12,900	-	-	-	-	-	-	12,900
Employee Benefits	3,358	-	-	-	-	-	-	3,358
Electricity	141,966	-	-	-	-	-	-	141,966
Repairs & Maintenance	17,000	-	-	-	-	-	-	17,000
Reservoir Maintenance	12,000	-	-	-	-	-	-	12,000
Operating Supplies	500	-	-	-	-	-	-	500

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	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
Station One (Excludes chemicals)								
Salaries & Wages	334,297	178,748	-	-	-	-	-	513,045
Overtime	56,318	30,113	-	-	-	-	-	86,431
Holiday Pay	14,193	7,589	-	-	-	-	-	21,781
Lead Plant Operator Stipend	8,132	4,348	-	-	-	-	-	12,480
Employee Benefits	192,251	102,796	-	-	-	-	-	295,047
Annual Leave Buyback	7,558	4,042	-	-	-	-	-	11,600
Conferences & Training	2,932	1,568	-	-	-	-	-	4,500
Fire & Liability Insurance	42,200	22,565	-	-	-	-	-	64,765
Electricity	229,448	-	-	-	-	-	-	229,448
Natural Gas	19,853	10,615	-	-	-	-	-	30,468
Rental of Equipment	652	348	-	-	-	-	-	1,000
Sewer Charge	124,898	-	-	-	-	-	-	124,898
Gas/Vehicle Maintenance	6,552	3,504	-	-	-	-	-	10,056
Repairs & Maintenance	35,838	19,162	-	-	-	-	-	55,000
Operating Supplies	9,774	5,226	-	-	-	-	-	15,000
Uniforms & protective Gear	2,362	1,263	-	-	-	-	-	3,625
Station One Chemicals	431,220	-	-	-	-	-	-	431,220
Lawton Valley (Excludes chemicals)								
Salaries & Wages	346,023	185,018	-	-	-	-	-	531,042
Overtime	71,326	38,138	-	-	-	-	-	109,464
Holiday Pay	12,781	6,834	-	-	-	-	-	19,615
Lead Plant Operator Stipend	8,132	4,348	-	-	-	-	-	12,480
Employee Benefits	217,706	116,407	-	-	-	-	-	334,113
Annual Leave Buyback	6,190	3,310	-	-	-	-	-	9,500
Conferences & Training	2,685	1,435	-	-	-	-	-	4,120
Fire & Liability Insurance	39,307	21,018	-	-	-	-	-	60,325
Electricity	294,124	-	-	-	-	-	-	294,124
Natural Gas	17,113	9,151	-	-	-	-	-	26,264
Rental of Equipment	652	348	-	-	-	-	-	1,000
Sewer Charge	434,711	-	-	-	-	-	-	434,711
Gas/Vehicle Maintenance	3,986	2,131	-	-	-	-	-	6,117
Repairs & Maintenance	42,354	22,646	-	-	-	-	-	65,000
Operating Supplies	8,666	4,634	-	-	-	-	-	13,300
Uniforms & protective Gear	2,346	1,254	-	-	-	-	-	3,600
Lawton Valley Chemicals	468,936	-	-	-	-	-	-	468,936

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	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
Laboratory								
Salaries & Wages	143,963	-	-	-	-	-	-	143,963
Employee Benefits	86,921	-	-	-	-	-	-	86,921
Annual Leave Buyback	4,250	-	-	-	-	-	-	4,250
Repairs & Maintenance	6,200	-	-	-	-	-	-	6,200
Regulatory Assessment	83,700	-	-	-	-	-	-	83,700
Laboratory Supplies	55,000	-	-	-	-	-	-	55,000
Transmission and Distribution								
Salaries & Wages	203,066	108,579	209,804	-	-	-	-	521,449
Overtime	16,393	8,765	16,936	-	-	-	-	42,094
Temp Salaries	7,577	4,051	7,828	-	-	-	-	19,456
Injury Pay	-	-	-	-	-	-	-	-
Employee Benefits	118,206	63,205	122,129	-	-	-	-	303,539
Annual Leave Buyback	2,337	1,249	2,414	-	-	-	-	6,000
Conferences & Training	1,558	833	1,609	-	-	-	-	4,000
Contract Services	4,622	2,472	4,776	-	-	-	-	11,870
Fire & Liability Insurance	4,249	2,272	4,390	-	-	-	-	10,910
Electricity	8,833	4,723	9,126	-	-	-	-	22,681
Heavy Equipment Rental	3,505	1,874	3,621	-	-	-	-	9,000
Gas/Vehicle Maintenance	34,068	18,216	35,199	-	-	-	-	87,483
Repairs & Maintenance	7,866	4,206	8,127	-	-	-	-	20,200
Main Maintenance	25,702	13,743	26,555	-	-	-	-	66,000
Hydrant Maintenance	-	-	-	-	-	-	-	-
Service Maintenance	-	-	-	-	-	30,000	-	30,000
Operating Supplies	3,115	1,666	3,219	-	-	-	-	8,000
Uniforms & protective Gear	1,558	833	1,609	-	-	-	-	4,000
Fire Protection	-	-	-	-	-	-	31,300	31,300
Non-Administrative O&M	5,322,990	1,045,246	457,342	345,071	373,784	103,443	31,300	7,679,176

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	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
Water Supply	1,390,098	-	-	-	-	-	-	1,390,098
Treatment Station 1	1,421,915	760,296	-	-	-	-	-	2,182,211
Treatment Lawton Valley	1,651,008	882,792	-	-	-	-	-	2,533,800
Treatment Both Plants	477,868	255,515	-	-	-	-	-	733,383
T&D Pumping	23,189	12,399	23,958	-	-	-	-	59,546
T&D	690,094	368,992	712,993	-	-	-	-	1,772,079
Fire	-	-	-	-	-	-	27,134	27,134
Meters	-	-	-	343,887	-	-	-	343,887
Services	-	-	-	-	-	217,735	-	217,735
Billing	-	-	-	-	23,322	-	-	23,322
	5,654,172	2,279,994	736,951	343,887	23,322	217,735	27,134	9,283,195
	61%	25%	8%	4%	0%	2%	0%	100%
	154,806	-	-	-	-	-	-	154,806
Total Non-Admin Costs	11,131,967	3,325,240	1,194,293	688,958	397,106	321,178	58,434	17,117,177
	65%	19%	7%	4%	2%	2%	0%	100%
	80,661	23,218	10,159	7,665	8,303	2,298	695	133,000
	-	-	-	165,000	165,000	-	-	330,000
	-	-	-	83,000	83,000	-	-	166,000
	54,583	15,712	6,875	5,187	5,619	1,555	470	90,000
	30,324	8,729	3,819	2,882	3,121	864	261	50,000
	6,853	1,973	863	651	705	195	59	11,300
	12,129	3,492	1,528	1,153	1,249	346	105	20,000
	21,000	-	-	-	-	-	-	21,000
	205,550	53,123	23,244	265,538	266,997	5,257	1,591	821,300
	\$ 10,926,417	\$ 3,272,117	\$ 1,171,049	\$ 423,420	\$ 130,109	\$ 315,921	\$ 56,843	\$ 16,295,877

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Non-Admin O&M Costs	\$	5,322,990	\$	1,045,246	\$	457,342	\$	345,071	\$	373,784	\$	103,443	\$	31,300	\$	7,679,176
Less: Chemicals																\$ -
Station One	\$	(431,220)														\$ (431,220)
Lawton Valley	\$	(468,936)														\$ (468,936)
Source Supply	\$	(94,800)														\$ (94,800)
Electricity																\$ -
Source Supply	\$	(173,274)	\$	-												\$ (173,274)
Station One	\$	(229,448)	\$	-												\$ (229,448)
Lawton Valley	\$	(294,124)	\$	-												\$ (294,124)
Costs Adjusted	\$	3,631,188	\$	1,045,246	\$	457,342	\$	345,071	\$	373,784	\$	103,443	\$	31,300	\$	5,987,374
		61%		17%		8%		6%		6%		2%		1%		100%

Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
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Non-Administrative Labor

Administration	193,548	55,713	24,377	18,393	19,923	5,514	1,668	319,137
Customer Service	0	0	0	163,505	135,593	41,037	0	340,135
Source of Supply - Island	340,228	0	0	0	0	0	0	340,228
Source of Supply - Mainland	41,587	0	0	0	0	0	0	41,587
Station One	412,366	220,492	0	0	0	0	0	632,858
Lawton Valley	436,321	233,300	0	0	0	0	0	669,621
Laboratory	148,213	0	0	0	0	0	0	148,213
Transmission/Distribution	229,372	122,645	236,983	0	0	0	0	588,999
Total	1,801,635	632,150	261,360	181,898	155,517	46,551	1,668	3,080,778
Percent	58%	21%	8%	6%	5%	2%	0%	100%

ALLOCATION PERCENTAGES		Commodity Charges						Total % Allocated
		Base Charge	Retail		Navy	Portsmouth	Fire	
			Residential	Non-Residential				
Base	<i>Average annual demand</i>	41%	29%	10%	19%	0%	100%	
Base Excluding PWFD		51%	36%	13%	0%	0%	100%	
Base Excluding PWFD & 50% Navy		54%	39%	7%	0%	0%	100%	
Water Quality Protection Fees		58%	42%	0%	0%	0%	100%	
Total Base to Class		43%	30%	10%	17%	0%	100%	
Max Day	<i>Estimated customer peaking factors</i>	32%	25%	6%	15%	22%	100%	
Base Excluding PWFD		38%	30%	7%	0%	26%	100%	
Max Day Excluding PWFD & 50% Navy		39%	31%	3%	0%	27%	100%	
Total Max Day to Class		34%	26%	5%	12%	23%	100%	
Max Hour	<i>Estimated customer peaking factors</i>	17%	19%	5%	8%	51%	100%	
Base Excluding PWFD		19%	21%	5%	0%	56%	100%	
Max Hour Excluding PWFD & 50% Navy		19%	21%	3%	0%	57%	100%	
Total Max Hour to Class		19%	21%	3%	0%	57%	100%	
Metering	<i>Direct Assignment</i>	100%					100%	
Billing	<i>Direct Assignment</i>	100%					100%	
Services	<i>Direct Assignment</i>	100%					100%	
Fire	<i>Direct Assignment</i>					100%	100%	
Treatment Plant Avg. Day	<i>Assured Capacity</i>	0%	0%	0%	0%	0%	0%	
Treatment Plant Max. Day	<i>Assured Capacity</i>	0%	0%	0%	0%	0%	0%	

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ALLOCATION RESULTS Cost Category	Rate Year	Commodity Charges					Total \$ Allocated	
		Base Charge	Retail		Navy	Portsmouth		Fire
			Residential	Non-Residential				
Base								
Base excluding T&D&WQPF & Pumping	9,976,031	4,110,254	2,930,160	1,027,777	1,907,839	-	9,976,031	
Transmission & Distribution	1,132,748	616,322	439,370	77,056	-	-	1,132,748	
Pumping	23,189	11,813	8,422	2,954	-	-	23,189	
Water Quality Protection Fees	(21,000)	(12,260)	(8,740)	-	-	-	(21,000)	
Revenue Offsets	(184,550)	(78,555)	(56,001)	(18,365)	(31,629)	-	(184,550)	
Administrative Charges	1,584,539	674,469	480,822	157,684	271,564	-	1,584,539	
Max Day								
Max Day Except T&D & Pumping	2,707,163	874,800	687,775	151,944	395,032	597,611	2,707,163	
Transmission & Distribution	605,679	236,946	186,289	20,577	-	161,867	605,679	
Pumping	12,399	4,691	3,688	815	-	3,205	12,399	
Revenue Offsets	(53,123)	(17,836)	(14,023)	(2,769)	(6,311)	(12,184)	(53,123)	
Administrative Charges	478,806	160,757	126,389	24,959	56,881	109,820	478,806	
Max Hour								
Max Hr. Except T&D & Pumping	-	-	-	-	-	-	-	
Transmission & Distribution	1,170,335	222,965	250,353	30,149	-	666,867	1,170,335	
Pumping	23,958	4,450	4,996	1,203	-	13,309	23,958	
Revenue Offsets	(23,244)	(4,426)	(4,970)	(610)	-	(13,238)	(23,244)	
Administrative Charges	203,147	38,683	43,435	5,333	-	115,697	203,147	
Metering								
Metering	688,958	688,958	-	-	-	-	688,958	
Revenue Offsets	(265,538)	(265,538)	-	-	-	-	(265,538)	
Administrative Charges	147,570	147,570	-	-	-	-	147,570	
Services								
Services	321,178	321,178	-	-	-	-	321,178	
Revenue Offsets	(5,257)	(5,257)	-	-	-	-	(5,257)	
Administrative Charges	44,309	44,309	-	-	-	-	44,309	
Billing								
Billing	397,106	397,106	-	-	-	-	397,106	
Revenue Offsets	(266,997)	(266,997)	-	-	-	-	(266,997)	
Administrative Charges	172,253	172,253	-	-	-	-	172,253	
Fire								
Fire	58,434	-	-	-	-	58,434	58,434	
Revenue Offsets	(1,591)	-	-	-	-	(1,591)	(1,591)	
Administrative Charges	10,580	-	-	-	-	10,580	10,580	
Treatment Plant Capital Costs								
Treatment Plant Avg. Day	-	-	-	-	-	-	-	
Treatment Plant Max. Day	-	-	-	-	-	-	-	
Total To Recover through Rates	\$ 18,937,081	\$ 1,233,582	\$ 6,843,073	\$ 5,077,965	\$ 1,478,707	\$ 2,593,377	\$ 1,710,377	\$ 18,937,081

7% 36% 27% 8% 14% 9% 1.00

COST OF SERVICE PER UNIT

Description of Billing Units
Percentage of Dollars Allocated
Allocated Cost
Divided by: Number of Units
Unit Cost of Service

	(1)	(2)	(2)	(2)	(2)	(3)	Total
	Equivalent meters x 12 months	1000's of gallons annually	Equivalent Connections				
	3.0%	36.1%	26.8%	7.8%	13.7%	8.7%	100.0%
Allocated Cost	\$ 570,990	\$ 6,843,073	\$ 5,077,965	\$ 1,478,707	\$ 2,593,377	\$ 1,642,953	\$ 18,937,081
Divided by: Number of Units	210,300	624,500	445,200	188,900	377,000	160,336	
Unit Cost of Service	\$2.7151	\$10.96	\$11.41	\$7.83	\$6.88	\$10.25	
	per equiv per month	per 1000 gallons	per 1000 gallons	per 1000 gallons	per 1000 gallons	Equivalent connections	

Description of Billing Units
Percentage of Dollars Allocated
Allocated Cost
Divided by: Number of Units
Unit Cost of Service

	Billing	Services	Hydrants
	No. of bills per year	Equivalent Connections	No. of Hydrants
	1.6%	1.9%	0.4%
Allocated Cost	\$ 302,362	\$ 360,230	\$ 67,424
Divided by: Number of Units	175,323	276,936	1,042
Unit Cost of Service	\$1.7246	\$1.3008	\$64.7059
	per bill	per equiv	per Hydrant

(1)

- (1) From HJS Schedule D-1 Rebuttal, 'Water Accounts, by Size and Class'.
- (2) From HJS Schedule B-6 Rebuttal, 'Water Demand History'.
- (3) From HJS Schedule D-2 Rebuttal, 'Fire Protection Accounts'.

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Allocation Basis	Used to allocate the following cost categories	Source Schedule	Base	Max Day	Max Hour	Metering	Billing	Services	Direct Fire Protection	Total % Allocated
Average Day Demand Patterns	<i>Supply, Laboratory</i>	N/A	100%							100%
Maximum Day Demand Patterns	<i>Treatment</i>	B-1	65%	35%	0%					100%
Maximum Hour Demand Patterns	<i>Pumping, Transmission/Distribution, Storage</i>	B-1	39%	21%	40%					100%
Fire Protection	<i>Public/Private Fire Protection Costs</i>	D-2							100%	100%
Non Admin less electricity & chemicals	<i>Administration Salaries, Wages, & Benefits</i>	B-1	61%	17%	8%	6%	6%	2%	1%	100%
Customer Service Salaries and Wages	<i>Customer Service Salaries, Wages, & Benefits</i>	B-4	0%	0%	0%	48%	40%	12%	0%	100%
Non-Administrative Wages & Salaries	<i>Administrative Labor Related</i>	B-1	58%	21%	8%	6%	5%	2%	0%	100%
Capital Costs	<i>Certain Legal and Administrative</i>	B-1	61%	25%	8%	4%	0%	2%	0%	0%
Total Non-Admin Costs before Offsets	<i>Certain Legal and Administrative</i>	B-1	65%	19%	7%	4%	2%	2%	0%	100%
Other Costs	<i>Administration Non-Salary Costs</i>	B-1	61%	17%	8%	6%	6%	2%	1%	100%
Treatment Plant Capital	<i>Treatment Capital Costs</i>	B-4	65%	35%	0%	0%	0%	0%	0%	

Administration 15-500-2200

Salaries by Staff Position

Director of Utilities	\$	87,347
Administrative Secretary	\$	34,986
Deputy Director - Finance	\$	66,733
Deputy Director - Engineering	\$	76,332
Financial Analyst	\$	32,520
Salary \$ Allocation Results	\$	297,917

Resulting % Allocation of Administration Salaries, Wages, & Benefits

Allocation of Salary Costs							Total
Base	Max Day	Max Hour	Metering	Billing	Services	Direct Fire Protection	Allocated
61%	17%	8%	6%	6%	2%	1%	100%
61%	17%	8%	6%	6%	2%	1%	100%
61%	17%	8%	6%	6%	2%	1%	100%
61%	17%	8%	6%	6%	2%	1%	100%
61%	17%	8%	6%	6%	2%	1%	100%
\$ 180,679	\$ 52,009	\$ 22,756	\$ 17,170	\$ 18,599	\$ 5,147	\$ 1,557	\$ 297,917
61%	17%	8%	6%	6%	2%	1%	100%

Customer Service 15-500-2209

Salaries by Staff Position

Meter Repairman/Reader	\$	41,112
Meter Repairman/Reader	\$	50,878
Principal Account Clerk	\$	47,876
Meter Repairman/Reader	\$	51,298
Maintenance Mechanic	\$	53,755
Principal Account Clerk	\$	23,938
Water Meter Foreman	\$	64,557
Salary \$ Allocation Results	\$	333,414

Resulting % Allocation of Customer Service Salaries, Wages, & Benefits

			50%	50%			100%
			50%	50%			100%
				100%			100%
			100%				100%
			33%	33%	34%		100%
			100%				100%
			33%	33%	34%		100%
			\$ 160,274	\$ 132,914	\$ 40,226		\$ 333,414
0%	0%	0%	48%	40%	12%	0%	100%

Functional Break Down of Existing Fixed Assets

	Supply	Treatment Station 1	Treatment Lawton Valley	Treatment Both Plants	T&D	T&D Pump	Fire	Meters	Services	Billing	
TRANSMISSION/DISTRIBUTION	\$ 32,296,348				100%						100%
LAWTON VALLEY	\$ 50,565,297		100%								100%
STATION 1	\$ 43,548,893	100%									100%
TREATMENT BOTH	\$ 14,635,624			100%							100%
STORAGE	\$ 3,067,813				100%						100%
SOURCE OF SUPPLY	\$ 27,662,753	100%									100%
METERS	\$ 6,862,709							100%			100%
SERVICES	\$ 4,345,187								100%		100%
T&D PUMPING	\$ 1,188,312					100%					100%
BILLING	\$ 465,430									100%	100%
FIRE	\$ 541,499						100%				100%
Total	\$ 185,179,866										
LABORATORY	\$ 80,000	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
LAND AND ROW	\$ 3,594,491	15%	24%	27%	8%	19%	1%	0%	4%	2%	100%
	\$ 3,674,491										

Total Fixed Assets \$ 188,854,357

	Supply	Treatment Station 1	Treatment Lawton Valley	Treatment Both Plants	T&D	T&D Pump	Fire	Meters	Services	Billing	Total
TRANSMISSION/DISTRIBUTION	\$ 32,296,348	\$ -	\$ -	\$ -	\$ 32,296,348	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 32,296,348
LAWTON VALLEY	\$ 50,565,297	\$ -	\$ 50,565,297	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,565,297
STATION 1	\$ 43,548,893	\$ 43,548,893	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 43,548,893
TREATMENT BOTH	\$ 14,635,624	\$ -	\$ -	\$ 14,635,624	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,635,624
STORAGE	\$ 3,067,813	\$ -	\$ -	\$ -	\$ 3,067,813	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,067,813
SOURCE OF SUPPLY	\$ 27,662,753	\$ 27,662,753	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,662,753
METERS	\$ 6,862,709	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,862,709	\$ -	\$ -	\$ 6,862,709
SERVICES	\$ 4,345,187	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,345,187	\$ -	\$ 4,345,187
T&D PUMPING	\$ 1,188,312	\$ -	\$ -	\$ -	\$ -	\$ 1,188,312	\$ -	\$ -	\$ -	\$ -	\$ 1,188,312
BILLING	\$ 465,430	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 465,430	\$ 465,430
FIRE	\$ 541,499	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 541,499	\$ -	\$ -	\$ -	\$ 541,499
WORK IN PROGRESS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 185,179,866	\$ 27,662,753	\$ 43,548,893	\$ 50,565,297	\$ 14,635,624	\$ 35,364,161	\$ 1,188,312	\$ 541,499	\$ 6,862,709	\$ 4,345,187	\$ 185,179,866
		15%	24%	27%	8%	19%	1%	0%	4%	2%	0%
LABORATORY	\$ 80,000	\$ 80,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 80,000
LAND AND ROW	\$ 3,594,491	\$ 536,956	\$ 845,319	\$ 981,513	\$ 284,089	\$ 686,447	\$ 23,066	\$ 10,511	\$ 133,211	\$ 84,344	\$ 3,594,491
	\$ 3,674,491	\$ 616,956	\$ 845,319	\$ 981,513	\$ 284,089	\$ 686,447	\$ 23,066	\$ 10,511	\$ 133,211	\$ 84,344	\$ 3,674,491
		17%	23%	27%	8%	19%	1%	0%	4%	2%	0%
Total Allocated	\$ 28,279,710	\$ 44,394,212	\$ 51,546,810	\$ 14,919,713	\$ 36,050,608	\$ 1,211,378	\$ 552,010	\$ 6,995,920	\$ 4,429,531	\$ 474,464	\$ 188,854,357
% of Total Asset Value	15%	24%	27%	8%	19%	1%	0%	4%	2%	0%	

Functionalization of Capital Costs

		Supply	Treatment Station 1	Treatment Lawton Valley	Treatment Both Plants	T&D	T&D Pump	Fire	Meters	Services	Billing	
Capital Spending Restricted Account	\$ 2,500,000	15%	24%	27%	8%	19%	1%	0%	4%	2%	0%	100%
Debt Service	\$ 6,783,195	15%	24%	27%	8%	19%	1%	0%	4%	2%	0%	100%
	\$ 9,283,195											

		Supply	Treatment Station 1	Treatment Lawton Valley	Treatment Both Plants	T&D	T&D Pump	Fire	Meters	Services	Billing	Total
Capital Spending Restricted Account	\$ 2,500,000	\$ 374,359	\$ 587,678	\$ 682,362	\$ 197,503	\$ 477,228	\$ 16,036	\$ 7,307	\$ 92,610	\$ 58,637	\$ 6,281	\$ 2,500,000
Debt Service	\$ 6,783,195	\$ 1,015,739	\$ 1,594,534	\$ 1,851,438	\$ 535,880	\$ 1,294,851	\$ 43,510	\$ 19,827	\$ 251,277	\$ 159,098	\$ 17,042	\$ 6,783,195
	\$ 9,283,195	\$ 1,390,098	\$ 2,182,211	\$ 2,533,800	\$ 733,383	\$ 1,772,079	\$ 59,546	\$ 27,134	\$ 343,887	\$ 217,735	\$ 23,322	\$ 9,283,195

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	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Demand Projection Options			Rate Year Demand Projection	Demand Projection from 4595
									2-Year Avg	3-Year Avg	Trend		
Annual Demand by Class													
Residential	640,966	618,574	663,331	651,514	670,930	621,387	643,010	609,006	626,008	624,468	605,896	624,500	661,222
Non-Residential	502,475	472,437	485,331	446,842	467,568	440,354	457,187	438,155	447,671	445,232	441,934	445,200	457,205
Navy	137,731	222,858	250,769	276,891	217,265	193,192	180,514	192,925	186,720	188,877	188,477	188,900	247,078
Portsmouth	398,827	407,837	411,578	455,255	410,309	381,114	380,190	369,706	374,948	377,003	359,891	377,000	432,782
Total (in 1000's Gallons)	1,679,999	1,721,706	1,811,009	1,830,502	1,766,072	1,636,047	1,660,901	1,609,792	1,635,347	1,635,580	1,596,198	1,635,600	1,798,287

Peaking Comparison											
Combined Station #1 and LV WTP Production Volumes in 1,000 gals								Peaks	Estimated	Diversity	
2011	2012	2013	2014	2015	2016	2017	2018				
Annual Production	2,304,024	2,059,646	2,071,219	2,115,343	2,027,100	1,983,261	1,960,371	1,981,660	1,971,016		
Average Day Production	6,312	5,643	5,675	5,795	5,554	5,434	5,371	5,429	5,400.04		
Maximum Month Production	268,468	244,463	236,739	227,653	219,066	206,310	229,041	211,420	220,230		
Maximum Day Production	10,163	10,606	9,721	9,462	8,690	7,878	8,660	7,915	8,287		
Max Day Date	7/23/2011	7/7/2012	7/7/2012	7/6/2013	7/25/2014	7/24/2015	7/22/2016	8/22/2017			
Maximum Day Peaking Factor	1.61	1.88	1.71	1.63	1.56	1.45	1.61	1.46	1.5	1.94	1.33
Max-Day to Avg. Day/Max-Month Ratio	1.17	1.34	1.27	1.29	1.23	1.18	1.17	1.16	1.2		
Maximum Hour	12,100	12,500	14,200	12,500	16,000	12,600	13,100	15,900	13,867		
Maximum Hour Peaking Factor	1.92	2.22	2.50	2.16	2.88	2.32	2.44	2.93	2.9	2.70	0.92

(1) Calculated according to AWWA M-1 Guidelines

Estimation of Each Customer Class' Peaking Factors

Customer Class	Max Day Demand Factor	Max Hour Demand Factor
Residential	1.95	2.60
Non-Residential	2.04	3.07
Navy	1.66	2.36
Portsmouth	1.92	2.56
Fire	(5)	
Estimated Systemwide Peaks	1.94	2.70

(5) Fire peaking behavior is estimated using a separate methodology demonstrated in HJS Schedule B-11 Rebuttal, Fire Protection Demand Analysis'.

Customer Class	Rate Year Demand (1,000 gallons)						
	Annual Demand	Average Daily Demand	Lost Water Adjustment	Adjusted Average Daily Demand	% Average Demand by Class	% Average Demand Ex PWFD & 50% Navy	% Average Demand Ex PWFD
Residential	624,500	1,711	514	2,225	41.20%	54%	51%
Non-Residential	445,200	1,220	367	1,586	29.37%	39%	36%
Navy	188,900	518	39	556	10.30%	7%	13%
Portsmouth	377,000	1,033	-	1,033	19.12%	0%	0%
Fire					N/A	N/A	N/A
Total, w Fire Prot.	1,635,600	4,481	13%	5,401	100%	100%	100%
<i>Production</i>	1,971,321	5,401	(1) 17.03%				

Customer Class	Max Day Calculations				% of Daily Peaks			Max Hour Calculations			% of Hourly Peaks		
	Max Day Peaking Factor	Demand x Peaking Factor (3)	Incremental Peak Demand	% of Daily Peaks	With Full PWFD & Navy	Without PWFD & 50% Navy	Without PWFD	Max Hour Peaking Factor	Demand x Peaking Factor	Incremental Peak Demand	With Full PWFD & Navy	Without PWFD & 50% Navy	Without PWFD
Residential	1.95	4,333	2,108	32.3%	32.3%	39.1%	37.8%	2.60	5,778	1,444	17.1%	19.1%	18.6%
Non-Residential	2.04	3,244	1,657	25.4%	25.4%	30.8%	29.7%	3.07	4,865	1,622	19.2%	21.4%	20.9%
Navy	1.66	923	366	5.6%	5.6%	3.4%	6.6%	2.36	1,313	391	4.6%	2.6%	5.0%
Portsmouth	1.92	1,985	952	14.6%	14.6%	0.0%	0.0%	2.56	2,646	662	7.8%	0.0%	0.0%
Fire	(2)	1,440	1,440	22.1%	22.1%	26.7%	25.8%		5,760	4,320	51.2%	57.0%	55.5%
Total, w Fire Prot.		11,924	6,523	100.0%	100.0%	100.0%	100.0%		20,362	8,438	100.0%	100.0%	100.0%
Total, without Fire Protection		10,484	5,083						14,602	4,118			

(demand is in thousands of gallons)

(1) From HJS Schedule D-4 Rebuttal. The lost water adjustment is made to the peaking analysis so that Portsmouth will not share in that portion of certain operating costs. Navy allocation is reduced to 25%.

(2) From HJS Schedule B-11 Rebuttal, Fire Protection Demand Analysis'.

EACH RATE CLASS' SHARE OF SYSTEM PEAKS

<u>Rate Class</u>	Average Demand	Daily Peaks	Hourly Peaks
Retail			
Residential	41%	32%	17%
Non-Residential	29%	25%	19%
Navy	10%	6%	5%
Portsmouth	19%	15%	8%
Fire	N/A	22%	51%
	100%	100%	100%

BASE/EXTRA-CAPACITY DISTRIBUTION OF SYSTEM PEAKS

	Incremental Demand	% Distribution for Max Day	% Distribution for Max Hour
Base	5,400	65.2%	38.9%
Extra Capacity			
Max Day	2,887	34.8%	20.8%
Max Hour	5,579		40.2%
Fire Protection			
Max Day	-	0.0%	0.0%
Max Hour	-		0.0%
Total%		100.0%	100.0%
Total 1000's Gallons		8,287	13,867

FIRE PROTECTION ASSUMPTIONS

Fire Protection Flow (gals per minute)	4,000
Hourly Fire Protection Flow (1000's of gallons)	240
Length of Fire Event (in hours)	6

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Connection Size	Meter Factors	NON-RESIDENTIAL		RESIDENTIAL		WHOLESALE (Monthly)			
		Meter Read Frequency	Equivalent Meters	Meter Read Frequency	Equivalent Meters	Navy		Portsmouth	
		Monthly	Monthly	Monthly	Monthly	Meters	Equivalents	Meters	Equivalents
5/8	1.0	877	877	9,839	9,839	5	5	0	0
3/4	1.1	304	334	2,229	2,452	1	1	0	0
1	1.4	213	298	357	500	1	1	0	0
1.5	1.8	202	364	180	324	1	2	0	0
2	2.9	162	470	92	267	1	3	0	0
3	11.0	42	462	18	198	0	0	0	0
4	14.0	13	182	2	28	0	0	0	0
5	18.0	-	-	-	-	0	0	0	0
6	21.0	16	336	10	210	8	168	0	0
8	29.0	3	87	1	29	0	0	0	0
10	43.5	-	-	-	-	1	44	1	44
Total	14,579	1,832	3,410	12,728	13,847	18	224	1	44

Billed Monthly
Billed Quarterly
Billed Annually

Equivalent Billing Units	
14,579	174,948
-	-
375	375
Total	175,323

Equivalent Meter Units	
17,525	210,300
-	-
N/A	N/A
Total	210,300

	Connection Size	Existing Differential	Number of Connections	Equivalent Connections (2)	
Public Hydrants					
Newport	6	111.31	624	69,458	
Middletown	6	111.31	409	45,526	
Portsmouth	6	111.31	9	1,002	% of Equiv Connections
Subtotal: Public Hydrants			1042	115,986	72%
Private Fire Connections					
	2	6.19	0	-	
	4	38.32	79	3,027	
	6	111.31	237	26,381	
	8	237.21	54	12,809	
	10	426.58	5	2,133	% of Equiv Connections
	12	689.04	0	-	
Subtotal: Private Fire Connections			375	44,350	28%
Total Fire Connections			1,417	160,336	100%

- (1) Demand factors are based on the principles of the Hazen-Williams equation for flow through pressure conduits. For more information, see the AWWA M1 rate manual chapter on fire protection charges.
- (2) Equivalent connections are arrived at by multiplying the number of connections by the demand factor.

General Water Service

Connection Size	Service Cost	No. of Services	Equivalent Connections	
5/8	1.000	10,721	10,721	
3/4	1.000	2,534	2,534	
1	1.860	571	1,062	
1.5	4.630	383	1,773	
2	6.150	255	1,568	
3	11.060	60	664	
4	11.060	15	166	
5	11.060	0	0	
6	11.060	34	376	
8	11.060	4	44	% of Equiv Connections
10	11.060	2	22	
Subtotal General Service		14,579	18,931	82%
Private Fire Connections				
2	6.150	0	-	
4	11.060	79	874	
6	11.060	237	2,621	
8	11.060	54	597	
10	11.060	5	55	% of Equiv Connections
12	11.060	0	-	
Subtotal: Private Fire Connections		375	4,148	18%
Annualized			12	
Total Retail & Private Fire Connections		14,954	276,936	100%

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	Station #1		Max. Month:	Lawton Valley		Max. Month:	Combined	
	In Gallons	in 1000's		In Gallons	in 1000's		In Gallons	in 1000's
<u>FY 12 JULY 2011 - JUNE 2012</u>	1,183,810,000	1,183,810		875,836,000	875,836		2,059,646,000	2,059,646
July	145,762,000	145,762	July	98,700	99	July	244,462,700	244,463
<u>FY 13 JULY 2012 - JUNE 2013</u>	1,076,157,000	1,076,157		995,062,000	995,062		2,071,219,000	2,071,219
July	116,038,000	116,038	July	120,700,600	120,701	July	236,738,600	236,739
<u>FY14 JULY 2013 - JUNE 2014</u>	1,151,855,000	1,151,855		963,487,700	963,488		2,115,342,700	2,115,343
September	123,318,000	123,318	July	113,098,100	113,098	July	227,653,100	227,653
<u>FY 15 JULY 2014 - JUNE 2015</u>	874,221,000	874,221		1,152,879,049	1,152,879		2,027,100,049	2,027,100
July	103,314,000	103,314	August	117,426,100	117,426	August	219,066,100	219,066
<u>FY 16 JULY 2015 - JUNE 2016</u>	831,234,272	831,234		1,152,026,776	1,152,027		1,983,261,048	1,983,261
August	94,908,000	94,908	June	111,453,000	111,453	August	206,310,000	206,310
<u>FY 17 JULY 2016 - JUNE 2017</u>	830,036,752	830,037		1,130,333,841	1,130,334		1,960,370,593	1,960,371
August	101,145,000	101,145	July	128,709,000	128,709	July	229,041,000	229,041
<u>FY 18 JULY 2017 - JUNE 2018</u>	831,195,415	831,195		1,150,465,037	1,150,465		1,981,660,452	1,981,660
August	91,844,880	91,845	August	119,574,667	119,575	August	211,419,547	211,420

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	Station #1			Lawton Valley			Combined		
	Max Day Production			Max Day Production			Max Day Production		
	Max Day	In Gallons	in 1000's	Max Day	In Gallons	in 1000's	Max Day	In Gallons	in 1000's
<u>FY 12 JULY 2011 - JUNE 2012</u>	7/4/2011	5,703,000	5,703	8/3/2011	5,981,000	5,981	7/23/2011	10,606,000	10,606
<u>FY 13 JULY 2012 - JUNE 2013</u>	7/6/2012	4,697,000	4,697	9/25/2012	5,400,000	5,400	7/7/2012	9,721,000	9,721
<u>FY14 JULY 2013 - JUNE 2014</u>	9/30/2013	4,749,000	4,749	7/6/2013	5,025,000	5,025	7/6/2013	9,462,000	9,462
<u>FY 15 JULY 2014 - JUNE 2015</u>	9/16/2014	4,096,000	4,096	7/25/2014	5,100,000	5,100	7/25/2014	8,690,000	8,690
<u>FY 16 JULY 2015 - JUNE 2016</u>	7/24/2015	3,484,000	3,484	6/26/2016	4,594,000	4,594	7/24/2015	7,878,000	7,878
<u>FY 17 JULY 2016 - JUNE 2017</u>	7/22/2016	3,715,000	3,715	7/22/2016	4,945,000	4,945	7/22/2016	8,660,000	8,660
<u>FY 18 JULY 2017 - JUNE 2018</u>	7/20/2017	3,903,708	3,904	8/22/2017	5,212,210	5,212	8/22/2017	7,914,875	7,915

PEAK HOURLY FLOW

	Date	Station #1		Date	Lawton Valley	
<u>FY 12 JULY 2011 - JUNE 2012</u>	7/5/2011	6.50	MGD	7/7/2011	6.0	MGD
<u>FY 13 JULY 2012 - JUNE 2013</u>	6/11/2013	8.20	MGD	7/17/2012	6.0	MGD
<u>FY14 JULY 2013 - JUNE 2014</u>	10/16/2013	6.50	MGD	7/7/2013	6.0	MGD
<u>FY 15 JULY 2014 - JUNE 2015</u>	8/29/2014	9.00	MGD	11/12/2014	7.0	MGD
<u>FY 16 JULY 2015 - JUNE 2016</u>	6/20/2016	5.60	MGD	5/26/2018	7.0	MGD
<u>FY 17 JULY 2016 - JUNE 2017</u>	8/7/2016	6.30	MGD	11/12/2016	6.8	MGD
<u>FY 18 JULY 2017 - JUNE 2018</u>	8/21/2017	8.50	MGD	8/21/2018	7.4	MGD

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Rhode Island Public Utilities Commission
 Docket 4933
 FY 2020 Rate Filing
 HJS Schedule D-4 Rebuttal
 Demand Summary

	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Fiscal Year Annual Demand								
Residential	640,966	618,574	663,331	651,514	670,930	621,387	643,010	609,006
Non-Residential	502,475	472,437	485,331	446,842	467,568	440,354	457,187	438,155
Navy	137,731	222,858	250,769	276,891	217,265	193,192	180,514	192,925
Portsmouth	398,827	407,837	411,578	455,255	410,309	381,114	380,190	369,706
Total 1000's Gallons	1,679,999	1,721,706	1,811,009	1,830,502	1,766,072	1,636,047	1,660,901	1,609,792

	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Max Month Demand								
<i>(1000's of gallons)</i>								
Residential	83,630		196,307	185,908	76,838	69,250	83,397	69,990
Commercial	61,978		67,646	78,970	58,767	52,691	60,766	54,230
Navy	24,640		25,677	33,876	30,167	24,095	18,507	18,345
Portsmouth	46,840		51,672	50,961	45,224	43,180	51,240	42,860
NonCoincident Max Month	217,088	-	341,302	349,715	210,996	189,216	213,910	185,425

Unbilled for Water Analysis

	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	3 Year Average	2 Year Average
Billed Consumption (1,000 gals.)	1,679,999	1,721,706	1,811,009	1,830,502	1,766,072	1,636,047	1,660,901	1,609,792	1,635,580	1,635,347
Total Water Produced (1,000 gals.)	2,304,024	2,059,646	2,071,219	2,115,343	2,027,100	1,983,261	1,960,371	1,981,660	1,975,097	1,971,016
Unaccounted for Water (1,000 gals.)	624,026	337,940	260,210	284,841	261,028	347,214	299,470	371,868	339,517	335,669
Percent Unaccounted for Water	27.08%	16.41%	12.56%	13.47%	12.88%	17.51%	15.28%	18.77%	17.1830%	17.03%

FY 2018 Retail Billed Consumption (kgal). Data from Demand Detail tab.

	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>Total</u>	<u>Avg Day</u>	<u>Max Mon</u>	<u>Avg Day</u> <u>Max Mo</u>
Residential	52,362	64,716	69,990	62,297	48,926	48,061	44,626	48,685	39,432	42,966	38,874	48,071	609,006	1,669	69,990	2,333
Non Residential	36,858	46,992	54,230	50,289	41,153	35,023	29,626	25,695	24,909	29,654	27,064	36,662	438,155	1,200	54,230	1,808
Navy	13,621	12,855	17,843	14,959	15,133	16,550	18,345	16,569	16,252	17,537	15,038	18,223	192,925	529	18,345	612
Portsmouth	31,510	42,590	42,860	36,810	34,810	25,806	25,230	29,340	24,290	21,540	27,590	27,330	369,706	1,013	42,860	1,429

	<u>Based on Monthly Billing Data</u>	
	<u>Residential</u>	<u>Non Residential</u>
FY 2018 Average Day (MGD)	1.67	1.20
Avg. Day of Max Month (MGD)	2.33	1.81
MM/AD Factor	1.40	1.51
System MD/MM Ratio	1.16	1.16
Weekly Usage Adjustment	1.20	1.17
Max Day Capacity Factor	1.95	2.04

	<u>Based on Daily Meter Data²</u>	
	<u>Navy</u>	<u>PWFD</u>
FY 2018 Average Day	0.54	1.02
FY 18 Maximum Day	0.89	1.96
Max Day/Avg Day	1.66	1.92

2 - Max Day Demand Factors for PWFD and the Navy are based on daily meter read data. PWFD data provided by W. McGlenn. Navy data gathered using data profilers installed on Navy meters.

System Avg. Day	5.43
System Max Day	7.91
Avg. Day of System Max. Month	6.82
System MD/MM Ratio	1.16

Max Day Diversity Factor Calculation	<u>Residential</u>	<u>Non-Residential</u>	<u>Navy</u>	<u>PWFD</u>	
Class Average Day (mgd)	1.67	1.20	0.53	1.02	
Class MD Demand Factor	1.95	2.04	1.66	1.92	Total MD Demand
Max Day Demand (Avg. Day X MD Demand Factor)	3.25	2.45	0.88	1.96	8.5
System Average Day (mgd)	5.43		Year	2018	
System Maximum Day (mgd)	7.91				
System Maximum Hour (mgd)	15.90				
	MD Demand		AD Demand	=	
Noncoincident MD Capacity Factor	8.54	/	5.43	=	1.57
Coincident MD Capacity Factor	7.91	/	5.43	=	1.46
			Max Day Diversity Factor		1.08

Maximum Hour Demand Factor Calculation	<u>Residential</u>	<u>Non-Residential</u>	<u>Navy*</u>	<u>PWFD</u>	
MD Capacity Factor	1.95	2.04	1.66	1.92	
Estimated Maximum-Hour (MH)/MD Ratio ³	1.33	1.50		1.33	
Calculated MH Capacity Factor	2.60	3.07	2.36	2.56	

Max Hour Diversity Factor Calculation	<u>Residential</u>	<u>Non-Residential</u>	<u>Navy</u>	<u>PWFD</u>	
Class Average Day (mgd)	1.67	1.20	0.53	1.02	
Class MH Demand Factor	2.60	3.07	2.36	2.56	Total MH Demand
Max Hour Demand (Avg. Day X MH Demand Factor)	4.33	3.68	1.25	2.61	11.88
System Average Day (mgd)	5.43				
System Maximum Day (mgd)	7.91				
System Maximum Hour (mgd)	15.90				
	MH Demand		AD Demand	=	
Noncoincident MH Capacity Factor	11.88	/	5.43	=	2.19
Coincident MH Capacity Factor	15.90	/	5.43	=	2.93
			Max Hour Diversity Factor		0.75

3- MH/MD Ratio Assumptions:

- Residential =24 hr. / 18 hr.
- Commercial =24 hr. / 16 hr.
- Navy =24 hr. / 18 hr.
- PWFD =24 hr. / 18 hr.

* Navy Max Hour developed using hourly meter data.

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Rhode Island Public Utilities Commission
 Docket 4933
 FY 2020 Rate Filing
 HJS Schedule D-5 Rebuttal
 Debt Service Restricted Account Cashflow

	FY 2018 ACTUAL											
	July	August	September	October	November	December	January	February	March	April	May	June
Debt Service Account												
Beginning Cash Balance	\$ 4,326,992	\$ 4,895,623	\$ 5,464,815	\$ 589,892	\$ 1,157,484	\$ 1,725,297	\$ 2,293,377	\$ 2,985,126	\$ 3,554,201	\$ 2,813,509	\$ 3,382,835	\$ 3,952,995
Additions												
From Rates	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583
From Capital Restricted Acct.	-	-	-	-	-	-	123,192	-	-	-	-	-
Interest Income	1,048	1,608	1,922	8	230	496	974	1,492	1,766	1,743	2,577	3,383
Total Additions	\$ 568,632	\$ 569,192	\$ 569,505	\$ 567,592	\$ 567,813	\$ 568,079	\$ 691,749	\$ 569,076	\$ 569,349	\$ 569,326	\$ 570,160	\$ 570,966
Deductions												
To Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Existing Debt Service	-	-	5,444,428	-	-	-	-	-	1,310,042	-	-	-
Total Deductions	\$ -	\$ -	\$ 5,444,428	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,310,042	\$ -	\$ -	\$ -
Ending Cash Balance	\$ 4,895,623	\$ 5,464,815	\$ 589,892	\$ 1,157,484	\$ 1,725,297	\$ 2,293,377	\$ 2,985,126	\$ 3,554,201	\$ 2,813,509	\$ 3,382,835	\$ 3,952,995	\$ 4,523,961

	FY 2019 ACTUAL					FY 2019 PROJECTED						
	July	August	September	October	November	December	January	February	March	April	May	June
Debt Service Account												
Beginning Cash Balance	\$ 4,523,961	\$ 5,095,698	\$ 142,721	\$ 716,147	\$ 1,284,000	\$ 1,852,589	\$ 2,421,672	\$ 2,989,255	\$ 3,556,839	\$ 3,169,569	\$ 3,737,152	\$ 4,304,736
Additions												
From Rates	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583
From Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	4,153	5,328	5,842	270	1,005	1,500	-	-	-	-	-	-
Total Additions	\$ 571,736	\$ 572,912	\$ 573,426	\$ 567,854	\$ 568,589	\$ 569,083	\$ 567,583	\$ 567,583	\$ 567,583	\$ 567,583	\$ 567,583	\$ 567,583
Deductions												
To Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Use of Bond Proceeds	-	-	-	-	-	-	-	-	(304,528)	-	-	-
Existing Debt Service	-	5,525,888	-	-	-	-	-	-	1,259,382	-	-	-
Total Deductions	\$ -	\$ 5,525,888	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 954,853	\$ -	\$ -	\$ -
Ending Cash Balance	\$ 5,095,698	\$ 142,721	\$ 716,147	\$ 1,284,000	\$ 1,852,589	\$ 2,421,672	\$ 2,989,255	\$ 3,556,839	\$ 3,169,569	\$ 3,737,152	\$ 4,304,736	\$ 4,872,319

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FY 2020 PROJECTED												
	July	August	September	October	November	December	January	February	March	April	May	June
Debt Service Account												
Beginning Cash Balance	\$ 4,872,319	\$ 5,439,902	\$ 428,445	\$ 1,298,240	\$ 1,863,506	\$ 2,428,773	\$ 2,994,039	\$ 3,559,305	\$ 4,124,571	\$ 3,553,032	\$ 4,118,298	\$ 4,683,564
Additions												
From Rates	\$567,583	\$567,583	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266
From Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	-	-	-	-	-	-	-	-	-	-	-	-
Total Additions	\$ 567,583	\$ 567,583	\$ 565,266	\$ 565,266	\$ 565,266	\$ 565,266	\$ 565,266	\$ 565,266	\$ 565,266	\$ 565,266	\$ 565,266	\$ 565,266
Deductions												
To Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Use of Bond Proceeds	-	-	(304,528)	-	-	-	-	-	(67,349)	-	-	-
Existing Debt Service	-	5,579,040	-	-	-	-	-	-	1,204,155	-	-	-
Total Deductions	\$ -	\$ 5,579,040	\$ (304,528)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,136,806	\$ -	\$ -	\$ -
Ending Cash Balance	\$ 5,439,902	\$ 428,445	\$ 1,298,240	\$ 1,863,506	\$ 2,428,773	\$ 2,994,039	\$ 3,559,305	\$ 4,124,571	\$ 3,553,032	\$ 4,118,298	\$ 4,683,564	\$ 5,248,831

FY 2021 PROJECTED												
	July	August	September	October	November	December	January	February	March	April	May	June
Debt Service Account												
Beginning Cash Balance	\$ 5,248,831	\$ 5,814,097	\$ 603,848	\$ 1,169,114	\$ 1,734,381	\$ 2,299,647	\$ 2,864,913	\$ 3,430,179	\$ 3,995,446	\$ 3,333,777	\$ 3,899,043	\$ 4,464,309
Additions												
From Rates	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266
From Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	-	-	-	-	-	-	-	-	-	-	-	-
Total Additions	\$ 565,266	\$ 565,266	\$ 565,266	\$ 565,266	\$ 565,266	\$ 565,266	\$ 565,266	\$ 565,266	\$ 565,266	\$ 565,266	\$ 565,266	\$ 565,266
Deductions												
To Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Existing Debt Service	-	5,775,515	-	-	-	-	-	-	1,226,935	-	-	-
Total Deductions	\$ -	\$ 5,775,515	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,226,935	\$ -	\$ -	\$ -
Ending Cash Balance	\$ 5,814,097	\$ 603,848	\$ 1,169,114	\$ 1,734,381	\$ 2,299,647	\$ 2,864,913	\$ 3,430,179	\$ 3,995,446	\$ 3,333,777	\$ 3,899,043	\$ 4,464,309	\$ 5,029,575

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FY 2022 PROJECTED												
July	August	September	October	November	December	January	February	March	April	May	June	
Debt Service Account												
Beginning Cash Balance	\$ 5,029,575	\$ 5,641,026	\$ 306,330	\$ 917,781	\$ 1,529,232	\$ 2,140,683	\$ 2,752,134	\$ 3,363,585	\$ 3,975,036	\$ 3,424,843	\$ 4,036,294	\$ 4,647,745
Additions												
From Rates	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451
From Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	-	-	-	-	-	-	-	-	-	-	-	-
Total Additions	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451
Deductions												
To Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Existing Debt Service	-	5,946,147	-	-	-	-	-	1,161,643	-	-	-	-
Total Deductions	\$ -	\$ 5,946,147	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,161,643	\$ -	\$ -	\$ -	\$ -
Ending Cash Balance	\$ 5,641,026	\$ 306,330	\$ 917,781	\$ 1,529,232	\$ 2,140,683	\$ 2,752,134	\$ 3,363,585	\$ 3,975,036	\$ 3,424,843	\$ 4,036,294	\$ 4,647,745	\$ 5,259,196

FY 2023 PROJECTED												
July	August	September	October	November	December	January	February	March	April	May	June	
Debt Service Account												
Beginning Cash Balance	\$ 5,259,196	\$ 5,870,647	\$ 299,961	\$ 911,412	\$ 1,522,862	\$ 2,134,313	\$ 2,745,764	\$ 3,357,215	\$ 3,968,666	\$ 3,427,757	\$ 4,039,208	\$ 4,650,659
Additions												
From Rates	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451
From Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	-	-	-	-	-	-	-	-	-	-	-	-
Total Additions	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451
Deductions												
To Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Existing Debt Service	-	6,182,137	-	-	-	-	-	1,152,360	-	-	-	-
Total Deductions	\$ -	\$ 6,182,137	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,152,360	\$ -	\$ -	\$ -	\$ -
Ending Cash Balance	\$ 5,870,647	\$ 299,961	\$ 911,412	\$ 1,522,862	\$ 2,134,313	\$ 2,745,764	\$ 3,357,215	\$ 3,968,666	\$ 3,427,757	\$ 4,039,208	\$ 4,650,659	\$ 5,262,109

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FY 2024 PROJECTED												
July	August	September	October	November	December	January	February	March	April	May	June	
Debt Service Account												
Beginning Cash Balance	\$ 5,262,109	\$ 5,873,560	\$ 222,565	\$ 834,016	\$ 1,445,466	\$ 2,056,917	\$ 2,668,368	\$ 3,279,819	\$ 3,891,270	\$ 3,430,737	\$ 4,042,188	\$ 4,653,639
Additions												
From Rates	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451
From Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	-	-	-	-	-	-	-	-	-	-	-	-
Total Additions	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451
Deductions												
To Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Existing Debt Service	-	6,262,447	-	-	-	-	-	1,071,984	-	-	-	-
Total Deductions	\$ -	\$ 6,262,447	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,071,984	\$ -	\$ -	\$ -	\$ -
Ending Cash Balance	\$ 5,873,560	\$ 222,565	\$ 834,016	\$ 1,445,466	\$ 2,056,917	\$ 2,668,368	\$ 3,279,819	\$ 3,891,270	\$ 3,430,737	\$ 4,042,188	\$ 4,653,639	\$ 5,265,090

FY 2025 PROJECTED												
July	August	September	October	November	December	January	February	March	April	May	June	
Debt Service Account												
Beginning Cash Balance	\$ 5,265,090	\$ 5,876,541	\$ 148,074	\$ 759,525	\$ 1,370,975	\$ 1,982,426	\$ 2,593,877	\$ 3,205,328	\$ 3,816,779	\$ 3,442,624	\$ 4,054,074	\$ 4,665,525
Additions												
From Rates	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451
From Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	-	-	-	-	-	-	-	-	-	-	-	-
Total Additions	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451
Deductions												
To Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Existing Debt Service	-	6,339,918	-	-	-	-	-	985,606	-	-	-	-
Total Deductions	\$ -	\$ 6,339,918	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 985,606	\$ -	\$ -	\$ -	\$ -
Ending Cash Balance	\$ 5,876,541	\$ 148,074	\$ 759,525	\$ 1,370,975	\$ 1,982,426	\$ 2,593,877	\$ 3,205,328	\$ 3,816,779	\$ 3,442,624	\$ 4,054,074	\$ 4,665,525	\$ 5,276,976

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	FY 2026 PROJECTED											
	July	August	September	October	November	December	January	February	March	April	May	June
Debt Service Account												
Beginning Cash Balance	\$ 5,276,976	\$ 5,888,427	\$ 78,346	\$ 689,797	\$ 1,301,248	\$ 1,912,699	\$ 2,524,150	\$ 3,135,601	\$ 3,747,052	\$ 3,465,154	\$ 4,076,605	\$ 4,688,056
Additions												
From Rates	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451
From Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	-	-	-	-	-	-	-	-	-	-	-	-
Total Additions	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451
Deductions												
To Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Existing Debt Service	-	6,421,532	-	-	-	-	-	-	893,349	-	-	-
Total Deductions	\$ -	\$ 6,421,532	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 893,349	\$ -	\$ -	\$ -
Ending Cash Balance	\$ 5,888,427	\$ 78,346	\$ 689,797	\$ 1,301,248	\$ 1,912,699	\$ 2,524,150	\$ 3,135,601	\$ 3,747,052	\$ 3,465,154	\$ 4,076,605	\$ 4,688,056	\$ 5,299,507

Docket No. 4933

Rhode Island Public Utilities Commission
 Docket 4933
 FY 2020 Rate Filing
 HJS Schedule D-7 Rebuttal
 Expense Detail - Administration

DOCKET XXXX

Account	Description	comments	Calculation FY 2020	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50001	Salaries & Wages							
	Director of Utilities - 60%	S-13	\$ 87,347					
	Administrative Secretary - 60%	S-04	\$ 34,986					
	Deputy Director - Finance - 60%	S-11	\$ 66,733					
	Deputy Director - Engineering - 60%	S-11	\$ 76,332					
	Financial Analyst 50%	N03-5	\$ 32,520					
	Total		\$ 297,917	\$281,582	\$286,219	\$ 286,942	\$10,975	\$ 297,917
50044	Standby Salaries							
	3 employees per week at \$120 per week	3 employees \$120 per week 52 wks.	\$ 18,720	\$18,720	\$18,720	\$ 18,857 error - reclass \$5,760	-\$137	\$ 18,720
50520	Severance Benefits							
	vacation payout & sick time payout paid from restricted bank account	fy 2018 4 employees	\$91,327				\$0	\$ -
50100	Employee Benefits							
	Director of Utilities - 60%	S-13	\$ 37,338					
	Administrative Secretary - 60%	S-04	\$ 22,638					
	Deputy Director - Finance - 60%	S-11	\$ 32,008					
	Deputy Director - Engineering - 60%	S-11	\$ 23,737					
	Financial Analyst 50%	N03-5	\$ 20,300					
	FICA on standby salaries, leave buyback, severance		\$ 1,623					
	Total		\$ 137,644	\$115,683	\$140,125	\$ 139,015	-\$3,249	\$ 137,644
							Rebuttal Adjustment	\$ (1,878)
							Rebuttal Amount	\$ 135,766
50103	Retiree Insurance Coverage							
		Fy 2019 rates monthly	\$28,441 \$3,791					
			\$32,232	\$ 386,784	\$265,000	\$ 372,907	\$11,105	\$ 386,784
							Rebuttal Adjustment	\$ (2,772)
							Rebuttal Amount	\$ 384,012
50105	Workers Compensation							
		Premium fy 2018-2019	\$55,985					
		Quarterly direct charges	\$1,400					

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 FY 2020 Rate Filing
 HJS Schedule D-7 Rebuttal
 Expense Detail - Administration

DOCKET XXXX

Account	Description	comments	Calculation FY 2020	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
		fy 2018 included audit adj of \$15.5k for 2016-7	\$57,385	\$57,385	\$64,000	\$64,000	\$ 78,304	\$37,122
								\$57,385
								Rebuttal Adjustment \$ 58,041
								Rebuttal Amount \$ 115,426
50175	Annual Leave Buyback	3 year average	\$ 2,500	\$3,300	\$3,300	\$ 3,750	-\$1,250	\$ 2,500
50207	Advertisement	use existing budget	\$ 9,000	\$9,000	\$9,000	\$ 2,481	\$1,519	\$ 9,000
								Rebuttal Adjustment \$ (5,000)
								Rebuttal Amount \$ 4,000
50210	Membership Dues & Subscriptions							
		2018	2020					
		RIWWA (7)	\$350	\$350				
		RI Secretary of State Notary Public	\$160	\$80				
		RI PE License (2)		\$600				
		AWWA dues	\$4,022	\$4,025				
		Total	\$4,532	\$5,055	\$5,055	\$2,500	\$2,500	\$ 4,532
								\$ 505
50212	Conferences & Training	use existing budget	\$ 4,000	\$4,000	\$4,000	\$ 410	\$3,590	\$ 4,000
50214	Tuition Reimbursement	use existing budget	\$2,000	\$ 2,000	\$2,000	\$ -	\$2,000	\$ 2,000
50220	Consultant Fees							
		2018	2020					
		Legal Fees Includes Rate Case	\$8,400	\$110,000	\$110,000			
		Financial Consultant Rate case		\$67,000	\$ 26,800			
		PUC Rate Case Fees		\$60,350	\$ 24,140			
		Legal fees (non rate case)		\$8,400	\$8,400			
		Bank Trustee Fees	\$5,100	\$5,100	\$5,100			
		Wimborne property tax advisor	\$775	\$775	\$775			
		Total	\$14,275	\$251,625	\$175,215	\$136,878	\$136,878	\$ 14,275
								\$237,350
								\$ 251,625
50238	Postage	USPS & Fedx	\$1,000	\$ 1,000	\$1,000	\$1,000	\$ 941	\$59
								\$ 1,000

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DOCKET XXXX

Account	Description	comments	Calculation FY 2020	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50239	Fire & Liability Insurance	premium for fy2018-2019	\$36,500	\$67,000	\$67,000	\$ 78,689	-\$42,189	\$ 36,500
50251	Telephone & Communication	monthly @ \$543	\$6,520					
		iPads 6 @ \$40	\$2,880					
		device replacement	\$1,200					
			\$10,600	\$5,600	\$5,600	\$ 10,808	-\$208	\$ 10,600
50261	Property Taxes	2019 with 2%						
		Portsmouth	\$440,210					
		Tiverton	\$36,565					
		Little Compton	\$11,756					
		Middletown	\$58,000					
			\$59,160					
	Total	\$548,550	\$557,462	\$567,770	\$567,770	\$ 535,316	\$11,915	\$ 557,462
							Rebuttal Adjustment	\$ (10,231)
							Rebuttal Amount	\$ 547,231
50266	Legal & Administrative	updated to FY 2019 Budget	\$ 328,312	\$333,848	\$333,848	\$ 333,848	-\$5,536	\$ 328,312
50267	Data Processing (MIS)	updated to FY 2019 Budget	\$ 343,175	\$231,161	\$231,161	\$ 231,161	\$112,014	\$ 343,175
50268	Mileage Allowance		\$ 2,000	\$2,000	\$2,000	\$ 392	\$1,608	\$ 2,000
50271	Gasoline & Vehicle Allowance	cost per vehicle	\$6,410					
		# of vehicles	1.00					
	Total	\$ 6,410	\$ 6,410	\$5,389	\$5,389	\$ 10,723	-\$4,313	\$ 6,410
							Rebuttal Adjustment	\$ (1,028)
							Rebuttal Amount	\$ 5,382
50275	Repairs & Maintenance	misc exp	\$ 1,000	\$1,200	\$1,200		\$1,000	\$ 1,000

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 FY 2020 Rate Filing
 HJS Schedule D-7 Rebuttal
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DOCKET XXXX

Account	Description	comments	Calculation FY 2020	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50280	Regulatory Expense							
		misc exp	\$ 1,500	\$ 1,500	\$ 5,000	\$ 5,000	\$ 906	\$ -406
								\$ 1,500
								\$ (1,000)
								\$ 500
50281	Regulatory Assessment							
			FY 2018	FY 2020				
		RI Div. of PUC - Assessment	\$89,946	\$110,823				
		RI Dept. of Health - License	\$21,810	\$21,810				
		RIWWA Assessment	\$700	\$700				
		Total	\$112,456	\$133,333	\$ 133,500	\$ 80,000	\$ 80,000	\$ 112,456
								\$ 3,702
								\$ 133,500
								\$ (17,342)
								\$ 116,158
50305	Water							
		total	\$150 avg per mo	\$1,800	\$2,015	\$2,015	\$ 1,725	\$ 75
								\$ 1,800
50306	Electricity 70 Halsey St.							
		2 yr. avg kwh usage	37,332					
		total cost	\$6,950	\$6,950	\$7,956	\$7,956	\$ 7,293	\$ 317
								\$ 6,950
								\$ 660
								\$ 7,610
50307	Natural Gas							
		2 yr. avg therms	4533					
		cost	\$ 5,125	\$ 5,125	\$5,226	\$5,226	\$ 5,504	\$ -934
								\$ 5,125
								\$ (555)
								\$ 4,570
50361	Office Supplies							
		3 year avg						
		2016	\$12,137					
		2017	\$13,258	\$12,000	\$ 11,845	\$15,000	\$15,572	\$ 10,136
		2018	\$10,136					\$ 1,709
								\$ 11,845
50464	Water Revenue reserve							
		"not included in budget"	\$ 254,733					\$ 0

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Account	Description	comments	Calculation FY 2020	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50505	Self Insurance		\$ 5,000	\$5,000	\$5,000	\$ 2,584	-\$84	\$ 5,000
							Rebuttal Adjustment	\$ (2,500)
							Rebuttal Amount	\$ 2,500
Total			\$2,723,614	\$2,237,828	\$2,267,479	\$ 2,263,955	\$378,277	\$ 2,641,204
		<i>check</i>	\$ 2,641,204	\$2,237,828		\$ 2,414,709		

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 Expense Detail - Customer Service
 15-500-2209

Account	Description	Comments detail for 2020	Calculation FY 2020	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50001	Salaries & Wages							
		Meter Repairman/Reader	U2-1			\$41,112		
		Prin. Account Clerk	U2-1			\$47,876		
		Meter Repairman/Reader	U2-7			\$50,878		
		Maintenance Mechanic	U2-8			\$53,755		
		Billing Clerk 50% allocation	U4-1			\$23,938		
		Meter Repairman/Reader	U3-5			\$51,298		
		Water Meter Foreman	U6-5			\$64,557		
		Total		\$297,917	\$316,581	\$291,674	\$41,740	\$333,414
50002	Overtime							
		seasonal shutoff notices	2 yr avg	\$2,700	\$5,409	\$5,409	\$2,611	(\$40)
								\$2,700
								Rebuttal Adjustment
								-\$129
								Rebuttal Amount
								\$2,571
50004	Temp Salaries			\$14,976	\$14,976	\$0	\$0	\$0
50100	Employee Benefits							
		Meter Repairman/Reader	U2-1			\$32,275		
		Prin. Account Clerk	U4-1			\$35,345		
		Meter Repairman/Reader	U2-7			\$36,264		
		Maintenance Mechanic	U2-8			\$36,608		
		Billing Clerk 50% allocation	U4-1			\$17,673		
		Meter Repairman/Reader	U3-5			\$36,393		
		Water Meter Foreman	U6-5			\$40,451		
		FICA on OT, Temp salaries & Leave Buyback				\$524		
		Total		\$235,010	\$174,457	\$173,340	\$62,672	\$235,533
								Rebuttal Adjustment
								\$ 479
								Rebuttal Amount
								\$236,012
50120	Bank Fees (lock box)	\$1,200 per month	\$ 14,400	\$16,800	\$16,800	\$13,298	\$1,102	\$14,400
50175	Annual Leave Buyback	3 year average	\$4,150	\$4,150	\$4,500	\$2,526	\$1,624	\$4,150
50205	Copying & binding		600	\$500	\$500	\$532	\$68	\$600

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Account	Description	Comments detail for 2020	Calculation FY 2020			Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
				Docket 4595	Budget 2018			
50212	Conferences & Training							
	Backflow Prevention Device Inspectors / Tester							
	Recertification Training		\$700					
	Cross Connection Control Surveyor							
	Trainign & Certification		\$1,150					
	Fundamentals of Cross Conection Control		\$850					
	American Backflow Prevention Association		\$300					
	Total		\$3,000	\$5,000	\$5,000	\$840	\$2,160	\$3,000
50225	Support Services							
	Printing & mailing (TouchPoint Communications)		\$16,275					
	Opal Maintenance Contract		\$5,700					
	Beacon Mobile License		\$4,900					
	Beacon Mobile Hosting		\$21,240					
	Badger/orion service contract		\$3,500					
	total		\$51,615	\$26,175	\$26,175	\$19,252	\$26,663	\$51,615
							Rebuttal Adjustment	-\$5,700
							Rebuttal Amount	\$45,915
50238	Postage							
	Postage paid thru printer	\$5,300 mo.	\$63,600					
	USPS direct paid	\$50 per mo.	\$600					
	total		\$64,200	\$74,680	\$74,680	\$62,307	\$1,893	\$64,200
50271	Gasoline & Vehicle Allowance							
	cost per vehicle		\$6,410					
	# vehicles	5						
			\$32,050	\$26,945	\$26,945	\$30,831	\$1,219	\$32,050
							Rebuttal Adjustment	\$ 536
							Rebuttal Amount	\$ 32,586
50275	Repairs & Maintenance							
	Small Meters		\$10,000					
	Large Meters		\$10,000					
	Meter Pits		\$3,500					
	Strainers		\$2,000					
	Misc Parts and/or repair		\$2,700					
	meter gun repair							
	Trimble Handheld Repair and / or Replacement		\$3,850					
	CE /ME Receiver Reapair and / or Replacement		\$2,950					

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Account	Description	Comments detail for 2020	Calculation FY 2020	Change from		Proposed FY 2020 Rate Year		
				Docket 4595	Budget 2018		Test year to Proposed	2020 Rate Year
		Total	\$35,000	\$35,000	\$39,880	\$22,708	\$12,292	\$35,000
50299	Meter Maintenance							
	Appurtenant piping, tail pieces,ss fasteners		\$3,500					
	Annual Calibration of Navy meters reducing flanges		\$2,500					
	Annual Calibration of Portable Meter Tester		\$750					
	Certification of Backflow Testing Equipment		\$250					
	Reducing Flanges		\$2,000					
	Misc. Apts		\$1,000					
		Total	\$10,000	\$10,000	\$10,000	\$7,696	\$2,304	\$10,000
50311	Operating Supplies							
	Repair External meter devices		\$2,500					
	new tool & misc costs		\$2,500					
	gas detectors							
	confined space entry equipment							
	Machine & Tool Lubricant, Replace Blades, Drill Bits, etc							
	Tools (crimping, cutting, drilling, etc.)							
	Service and Pit Keys							
		Total	\$5,000	\$5,000	\$5,000	\$7,924	(\$2,924)	\$5,000
50320	Uniforms & protective Gear							
	Unifirst uniforms		\$1,450					
	Safety Vests		\$150					
	Hi Viz Jackets		\$300					
	Gloves, Safety Glasses, Respirator, etc.		\$550					
		Total	\$2,450	\$1,000	\$1,000	\$0	\$2,450	\$2,450
50380	Customer Service Supplies							
	Conservation material		\$ 3,000	\$5,000	\$5,000	\$1,951	\$1,049	\$3,000
		Total	\$ 797,112	\$763,562	\$726,903	\$637,490	\$154,272	\$792,298

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 Expense Detail - Source of Supply - Island
 15-500-2212

Account	Description	Comments	Calc	Actual FY 2018			Change from Test year to Proposed	Proposed FY 2020 Rate Year	
				Docket 4595	Budget 2018	Test Year			
50001	Salaries & Wages								
		Dist/Collect Operator	U3-7	\$56,404					
		Dist/Collection Foreman	U5-7	\$64,233					
		Dist/Collect Mechanic	U4-5	\$53,391					
		Laborer	U2-7	\$41,112					
		Dist/Collect Operator	U3-5	\$51,888					
		Super., Water Dist/Collect	N5-10	\$91,252					
		Allocate 50% (Distribution)		-\$45,626					
		Total		\$312,654	\$ 309,950	\$ 316,074	\$ 297,103	\$ 15,551	\$312,654
50002	Overtime								
		2 year average with union increase of 2% per year		\$ 25,000	\$ 33,000	\$ 33,000	\$ 27,936	(\$ 7,279)	\$ 25,000
									Rebuttal Adjustment \$ (4,343)
									Rebuttal Amount \$ 20,657
50004	Temp Salaries								
		2 people 19 weeks @\$15/hour		\$ 22,800	\$ 26,180	\$ 26,180	\$ 20,270	(\$ 13,353)	\$ 22,800
									Rebuttal Adjustment \$ (15,883)
									Rebuttal Amount \$ 6,917
50100	Employee Benefits								
		Dist/Collect Operator	U3-7	\$37,956					
		Dist/Collection Foreman	U5-7	\$39,710					
		Dist/Collect Mechanic	U4-5	\$37,034					
		Laborer	U2-7	\$33,275					
		Dist/Collect Operator	U3-5	\$36,574					
		Super., Water Dist/Collect	N5-10	\$47,710					
		Allocate 50% (Distribution)		-\$23,855					
		FICA on OT Temp & Leave buyback		\$3,787					
		Total		\$212,190	\$ 174,277	\$ 181,688	\$ 175,319	\$ 37,277	\$ 212,190
									Rebuttal Adjustment \$ 406
									Rebuttal Amount \$212,596

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 Expense Detail - Source of Supply - Island
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Account	Description	Comments	Calc	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50175	Annual Leave Buyback		3 yr avg	\$ 1,700	\$ 3,800	\$ -	\$ 1,700	\$ 1,700
50306	Contribution to Electricity Restricted Account St Mary's & Paradise Pumping Stations		2yr avg					
	kwh Usage		203,960					
	total cost		\$38,789	\$38,789	\$ 49,880	\$ 42,593	\$ (11,285)	\$38,789
							<i>Rebuttal Adjustment</i>	-\$7,481
							<i>Rebuttal Amount</i>	\$31,308
50271	Gas/Vehicle Maintenance							
	cost per vehicle	\$	6,410					
	vehicles		11					
	total	\$	70,510	\$ 59,279	\$ 59,279	\$ 57,957	\$ 2,086	\$ 70,510
							<i>Rebuttal Adjustment</i>	\$ (10,467)
							<i>Rebuttal Amount</i>	\$ 60,043
50275	Repairs & Maintenance							
(Industrial & Stonkus)	Annual Maintenance of pumps	\$	1,500					
	Misc Pump & minor repairs	\$	8,500					
	Aluminum boat & boat engine supplies	\$	1,500					
	Trimmers, blowers, chain saw, supplies, repairs & replace	\$	2,000					
	Misc.	\$	500					
	total	\$	14,000	\$ 10,000	\$ 10,115	\$ 481	\$ 13,519	\$ 14,000
50277	Reservoir Maintenance							
	Tree Removal	\$	2,500					
	Dam repairs (gravel, riprap, gabions, etc.)	\$	11,000					
	sign installation & Maintenance	\$	2,000					
	aquatic herbicide & supplies	\$	2,500					
	brush cutter/mower	\$	5,000					
	dam inspections	\$	2,000					
	total	\$	25,000	\$ 16,000	\$ 16,000	\$ 21,424	\$ 3,576	\$ 25,000

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 Expense Detail - Source of Supply - Island
 15-500-2212

Account	Description	Comments	Calc			Actual FY 2018	Change from Test	Proposed FY 2020	
				Docket 4595	Budget 2018	Test Year	year to Proposed	Rate Year	
50311	Operating Supplies								
		machine & tool lubricant		\$600					
		parts for trackless		\$700					
		Brush cutter/mower		\$400					
		small mower replacement		\$200					
		coppering bags		\$600					
		replacement blades/brush cutting		\$1,200					
		pest control		\$200					
		weed control (herbicides)		\$2,000					
		cement, grass seed, etc.		\$800					
		other							
		Total		\$6,700	\$ 7,500	\$ 7,500	\$ 9,251	\$(2,551)	\$ 6,700
50320	Uniforms & protective Gear								
		UniFirst uniforms		\$1,450					
		Eye,ear & hand protection		\$150					
		Tyvek protective suits & shirts / vests		\$100					
		N95 respirator (dust masks)		\$200					
		insect repellent, poison ivy soap		\$100					
				\$2,000	\$ 1,510	\$ 1,510	\$ 238	\$ 1,762	\$ 2,000
50335	Chemicals								
		Copper Sulfate							
		usage in lbs		40,000					
		cost per lb		\$ 1.6200					
				\$ 64,800					
		Green Clean Pro							
		quantity		30,000					
		cost per lb		\$ 1.0000					
				\$ 30,000					
		total cost		\$ 94,800	\$ 66,800	\$ 66,800	\$ 61,200	\$ 33,600	\$ 94,800
total				\$ 826,143	\$ 747,085	\$ 771,826	\$ 713,772	\$ 74,603	\$ 788,375

Account	Description	Comments	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50002	Overtime	3 months (4.3 weeks) one day per week 24 hour day manage Sakonnet in addition to temp 2 year average					
		total	\$ 4,000	\$ 11,610	\$ 11,610	\$ 5,023	\$ 4,000
						\$3,899	\$ 4,922
						<i>Rebuttal Adjustment</i>	\$ 8,922
						<i>Rebuttal Amount</i>	\$ 8,922
50004	Temp Salaries						
	Sakonnet						
	for 3 months 3 people at 40 hours per week at \$15 per hour	hours rate total	1,800 \$ 15 \$ 27,000	\$ 29,996	\$ 29,996	\$ 21,106	\$ 27,000
						-\$1,341	\$ (7,235)
						<i>Rebuttal Adjustment</i>	\$ 19,765
						<i>Rebuttal Amount</i>	\$ 19,765
50005	Permanent Part time	12 months @ \$1,075 Caretaker Sakonnet Pump Station	\$ 12,900	\$ 12,900	\$ 12,900	\$ 6,040	\$ 12,900
	Employee Benefits		\$ 43,900				
50100		FICA 7.65% on OT, Temporary, Perm Part time Fringe on Part Time, Temp & OT	\$ 3,358	\$ 2,525	\$ 2,555	\$ 2,461	\$ 3,358
						\$897	
50306	Contribution to Electricity Restricted Account						
	Sakonnet pumping Station						
		2 yr avg kwh usage total cost	823,788 \$160,790	\$ 154,424	\$ 154,424	\$ 149,593	\$ 160,790
						-\$7,627	\$ (18,824)
						<i>Rebuttal Adjustment</i>	\$ 141,966
						<i>Rebuttal Amount</i>	\$ 141,966
50275	Repairs & Maintenance						
	(Industrial & Stonkus)	Annual Maintenance of pumps	\$ 1,500				
		Pump, valve, electrical AC motors(VFD) repairs	\$ 9,000				
		Emergency Repair - pumps / electrical	\$ 2,000				
		Excavator & heavy Equip Rental	\$ 4,000				
		Misc.	\$ 500				

Account	Description	Comments		Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
		total	\$ 17,000	\$7,000	\$7,000	\$ 18,462	-\$1,462	\$ 17,000
50277	Reservoir Maintenance							
		Tree Removal	\$ 500					
		aquatic herbicide & supplies	\$ 2,500					
		brush cutter/mower	\$ 5,000					
	Dam improvement repairs (gravel, riprap, gabions, etc.)		\$ 2,000					
		dam inspections	\$ 2,000					
		total	\$ 12,000	\$4,500	\$4,500	\$ 4,199	\$7,801	\$ 12,000
50311	Operating Supplies							
		machine & tool lubricant, grease guns, etc	\$ 200					
		pest control	\$ 200					
		misc Supplies (papergoods, cleaners, etc.)	\$ 100					
			\$ 500	\$1,000	\$1,000	\$ 178	\$322	\$ 500
total			\$ 237,548	\$ 223,955	\$ 223,985	\$ 207,062	\$9,349	\$ 216,411

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 Expense Detail - Station One
 15-500-2222

Account	Description	Comments	Detail	Calculation	Actual FY 2018			Change from Test year to Proposed	Budget 2015	Budget FY 2019	Proposed FY 2020 Rate Year
					Docket 4595	Budget 2018	Test Year				
50001	Salaries & Wages										
		Water Plant Op - Grade3	U4-7	\$60,254							
		Water Plant Op - PC#3	U2-1	Vacant Position #1							
		Water Plant Op - Grade3	U4-7	\$60,217							
		Water Plant Op - Grade 3	U2-2	\$43,591							
		Water Plant Op - PC#3	U4-7	\$58,308							
		Water Qual/Prod Sup.	S08	\$85,729							
		Allocate 50% (Lawton Valley)		-\$42,864							
		Assist Water Treat Super	S07	\$76,851							
		Allocate 50% (Lawton Valley)		-\$38,426							
		Water Plant Op - PC#3	U4-6	\$56,611							
		Water Plant Op - Grade1	U2-7	\$47,659							
		Water Plant Op - Grade1	U2-3	\$44,898							
		Water Plant Op - Grade3	U4-7	\$60,217							
		Total		\$513,045	\$ 511,075	\$ 558,686	\$ 561,329	\$ (48,284)	\$ 519,056	\$547,256	\$ 513,045
50002	Overtime										
		2017 - \$78k									
		2018 - \$92k									
		avg plus 2 % in both 2019 & 2020									
		total		\$ 88,500	\$ 102,940	\$ 102,940	\$ 91,625	\$ (5,194)	\$ 60,021	\$102,940	\$ 88,500
											\$ (2,069)
											\$ 86,431
50003	Holiday Pay										
		Operators		9.0							
		Holidays		12							
		Hours/Holiday		8							
		Average Pay Rate		\$ 25.21							
		Total		\$ 21,781	\$ 22,032	\$ 22,032	\$ 20,686	\$ 1,095	\$ 18,935	\$22,032	\$ 21,781
50045	Lead Plant Operator Stipend										
		3 staff \$80 per week 52 weeks		\$ 12,480	\$ 12,480	\$ 12,480	\$ 11,240	\$ 1,240	\$ 36,492	\$12,480	\$ 12,480

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 Expense Detail - Station One
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Account	Description	Comments	Detail	Calculation	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Budget 2015	Budget FY 2019	Proposed FY 2020 Rate Year
50100	Employee Benefits										
		Water Plant Op - Grade3	U4-7	\$19,726							
		Water Plant Op - PC#3	U2-1	\$0							
		Water Plant Op - Grade3	U4-7	\$38,521							
		Water Plant Op - Grade 3	U2-2	\$34,034							
		Water Plant Op - PC#3	U4-7	\$38,539							
		Water Qual/Prod Sup.	S08	\$45,265							
		Allocate 50% (Lawton Valley)		-\$22,633							
		Assist Water Treat Super	S07	\$43,405							
		Allocate 50% (Lawton Valley)		-\$21,702							
		Water Plant Op - PC#3	U4-6	\$26,001							
		Water Plant Op - Grade1	U2-7	\$23,261							
		Water Plant Op - Grade1	U2-3	\$22,415							
		Water Plant Op - Grade3	U4-7	\$38,521							
		FICA on OT, Stipend, holiday, Leave Buyback		\$10,279							
		Total		295,630	\$ 263,937	\$ 287,885	\$ 280,974	\$ 14,073	\$ 283,712	\$306,323	\$ 295,630
											Rebuttal Adjustment \$ (583)
											Rebuttal Amount \$ 295,047
50175	Annual Leave Buyback		3 year averag	\$11,600	\$ 12,000	\$ 12,000	\$ 9,645	\$ 1,955	\$ 5,000	\$12,000	\$11,600
50212	Conferences & Training										
		RIDOH Required Certifications for 10 employees		\$ 1,980							
		Supv/Plant Prod - RIWWA		\$ 150							
		Supv/Plant Prod - NEWWA		\$ 550							
		Conferences & Training		\$ 540							
		Training, travel		\$ 1,000							
		total		\$ 4,500	\$ 4,500	\$ 4,500	\$ 2,190	\$ 2,310	\$ 4,500	\$4,500	\$ 4,500
50239	Fire & Liability Insurance										
	RI Interlocal		Premium for fy 2018-2019	\$ 64,765	\$ 35,000	\$ 35,000	\$ 28,331	\$ 36,434	\$ 12,687	\$35,000	\$ 64,765
50306	Contribution to Electricity Restricted Account										
	100 Bliss Mine Rd		2 yr avg kwh usage cost	1,438,960 \$ 226,185	\$ 212,484	\$ 212,484	\$ 223,249	\$ 6,199	\$ 252,674	\$212,484	\$ 226,185
											Rebuttal Adjustment \$ 3,263

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 Expense Detail - Station One
 15-500-2222

Account	Description	Comments	Detail	Calculation	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Budget 2015	Budget FY 2019 Rebuttal Amount	Proposed FY 2020 Rate Year
											\$ 229,448
50307	Natural Gas		2 yr avg therms	22,194							
			cost	\$ 17,840	\$43,410	\$43,410	\$ 32,402	\$ (1,934)	24,250	\$43,410	\$ 17,840
											\$ 12,628
											\$ 30,468
50260	Rental of Equipment										
		Dumpster Rentals		\$ 850							
		chemical cylinders		\$ 150							
		total		\$ 1,000	\$1,000	\$1,000	\$ 1,854	\$ (854)	600	\$1,000	\$ 1,000
50305	Sewer Charge		2 yr average gallons	5,800,000							
			\$/Gal	\$ 20.50							
			Cost	\$ 118,900	\$ 204,000	\$ 204,000	\$ 99,180	\$ 25,718	293,020	\$204,000	\$ 118,900
											\$ 5,998
											\$ 124,898
50271	Gas/Vehicle Maintenance		cost per vehic vehicles	\$ 6,410 1	\$ 5,389	\$ 5,389	\$ 7,050	\$ 3,006	8,360	\$5,389	\$ 6,410
											\$ 3,646
											\$ 10,056
50275	Repairs & Maintenance										
		Variable frequency Drives		\$ 3,000							
		Gas Boilers & Hot water Heater		\$ 5,000							
		Backup Gnerators-annual service		\$ 1,500							
		transfer switches		\$ 600							
		SCADA Maintenance & repair		\$ 14,000							
		Analyzer service		\$ 8,350							
		Building Systems & AC service contact		\$ 10,000							
		DAF Compressors		\$ 5,000							
		Fire Panel Maintenance		\$ 500							
		Reservoir Rd Storage Inspection		\$ 2,000							
		MCC Breaker Panel Inspection		\$ 2,000							
		Rebuild/Repack Raw water Pumps 1 & 2		\$ 2,300							
		DAF Pump Repair		\$ 570							
		Fire Extinguisher Service		\$ 180							
		total		\$ 55,000	\$ 66,992	\$ 72,469	\$ 33,512	\$ 21,488	15,000	\$66,992	\$ 55,000

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 FY 2020 Rate Filing
 HJS Schedule D-11 Rebuttal
 Expense Detail - Station One
 15-500-2222

Account	Description	Comments	Detail	Calculation	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Budget 2015	Budget FY 2019	Proposed FY 2020 Rate Year									
50311	Operating Supplies																			
	Valves		\$	4,350	\$	4,350														
	Piping		\$	500	\$	500														
	Tools		\$	500	\$	500														
	Mechanical Seals & Packing		\$	500	\$	500														
	Analytical Analyzer Reagents		\$	3,830	\$	3,110														
	Analyzer probe Salt bridges, Cell Solution, Grit Filters		\$	669	\$	670														
	Fluoride Feeder Filter Pack		\$	364	\$	365														
	Roll towels, bathroom tissue		\$	250	\$	100														
	Cleaning supplies		\$	475	\$	200														
	Chemical Transfer Pumps		\$	2,050	\$	2,050														
	GLO2 Generator Maintenance Kit & Filters		\$	924	\$	925														
	Generator Fuel		\$	2,814	\$	850														
	Misc.		\$	880	\$	880														
	Total		\$	18,106	\$	15,000	\$	17,161	\$	16,426	\$	119	\$	14,881	\$	25,210	\$	17,161	\$	15,000
50320	Uniforms & Protective Gear																			
	Unifirst uniforms					\$2,575														
	Overboots					\$150														
	Rain Gear					\$300														
	Misc. gloves, eye protection					\$200														
	Coveralls					\$250														
	Respirator Work Lights					\$90														
	Work Lights					\$60														
						\$3,625	\$	1,426	\$	1,426	\$	835	\$	2,790	\$	1,062	\$	1,426	\$	3,625

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 Expense Detail - Station One
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Account	Description	Comments	Detail	Calculation	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Budget 2015	Budget FY 2019	Proposed FY 2020 Rate Year
50335	Chemicals										
		PACI Quantity		60,435							
		Unit Cost Per Gal		\$ 1.5900							
		PACI Total Cost		\$ 96,092							
		Hypochlorite Quantity		24,199							
		Unit Cost		\$ 0.9780							
		Chlorine Total Cost		\$ 23,667							
		Flouride quantity		6,000							
		Unit cost		\$ 0.5871							
		Flouride Total Cost		\$ 3,523							
		Sodium chlorite quantity		66,526							
		Unit Cost		\$ 0.5880							
		Sodium chlorite total Cost		\$ 39,117							
		32% HCl Quantity		4,625							
		Unit Cost Per Gal		\$ 1.3620							
		Sodium chlorite total Cost		\$ 6,299							
		Polymer Quantity		970							
		Unit Cost		\$ 8.6400							
		Polymer Total Cost		\$ 8,381							
		Sodium Hydroxide quantity		29,741							
		Unit Cost		\$ 1.0560							
		Sodium Hydroxide total cost		\$ 31,406							
		GAC Filters (816) Quantity		1,640							
		Unit Cost Per CF		\$ 30.78							
		GAC Total Cost		\$ 50,479							
		GAC AWT (400) Quantity		4							
		Unit Cost Per Vessel		\$ 41,814							
		GAC Total Cost		\$ 167,256							
		HCl Scrubber Media (Chlorosorb)									
		HCl Scrubber Media Total Cost		\$ 5,000							
		total		\$ 431,220	\$ 366,315	\$ 366,315	\$ 242,583	\$ 188,637	\$ 447,189	\$366,315	\$ 431,220
		total		\$ 1,887,482	\$ 1,882,141	\$ 1,958,442	\$ 1,646,804	\$ 263,561	\$ 2,007,768	\$1,960,708	\$ 1,910,365

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 Expense Detail - Lawton Valley
 15-500-2223

Account	Description	Comments	Calc	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50001	Salaries & Wages							
	Water Plant Op - PC#3	U4-4	53,363					
	Water Plant Op - PC#3	U4-7	59,254					
	Water Plant Op - Grade2	U4-7	57,130					
	Water Plant Op - PC#3	U4-7	59,117					
	Water Plant Op	U4-2	50,297					
	Allocated 50%	S08	42,864					
	Allocate 50% (Lawton Valley)	S07	38,426					
	Water Plant Op 1	U4-3	51,806					
	Water Plant Op - PC#3	U4-7	60,217					
	Water Plant Op - Grade3	U4-7	58,567					
	Total		531,042	\$ 531,042	\$ 506,954	\$ 528,608	\$ 2,434	\$ 531,042
50002	Overtime							
	2017-\$110,513							
	2018 - \$102,478	2 yr avg plus union 2% inc for 2019 & 20	\$110,750	\$ 98,903	\$ 98,903	\$ 102,478	\$ 6,986	\$110,750
								\$ (1,286)
								\$109,464
50003	Holiday Pay							
	Operators		9					
	Holidays		12					
	Hours/Holiday		8					
	Average Pay Rat	\$50,000 per year	\$ 24.04					\$ -
	Total		\$ 19,615	\$ 19,992	\$ 19,992	\$ 19,772	\$ (157)	\$ 19,615
50045	Lead Plant Operator Stipend							
	3 staff \$80 per week 52 weeks		\$ 12,480	\$ 12,480	\$ 12,480	\$ 4,176	\$ 8,304	\$ 12,480

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 Expense Detail - Lawton Valley
 15-500-2223

Account	Description	Comments	Calc	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50100	Employee Benefits							
	Water Plant Op - PC#3	U4-4	\$37,025					
	Water Plant Op - PC#3	U4-7	\$38,828					
	Water Plant Op - Grade2	U4-7	\$38,178					
	Water Plant Op - PC#3	U4-7	\$38,786					
	Water Plant Op	U4-2	\$24,068					
	Allocated 50%	S08	\$22,633					
	Allocate 50% (Lawton Valley)	S07	\$21,702					
	Water Plant Op 1	U4-3	\$36,548					
	Water Plant Op - PC#3	U4-7	\$26,502					
	Water Plant Op - Grade3	U4-7	\$38,618					
	FICA on OT, holiday, Stipend, Leave buyback		\$11,654					
	Total		\$334,544	\$ 322,889	\$ 280,565	\$ 309,454	\$ 24,659	\$ 334,544
							<i>Rebuttal Adjustment</i>	\$ (431)
							<i>Rebuttal Amount</i>	\$334,113
50175	Annual Leave Buyback	3 yr avg	\$ 9,500	\$ 7,400	\$ 7,400	\$ 9,724	\$ (224)	\$ 9,500
50212	Conferences & Training							
	RIDOH Required Certifications for 9 employees		\$ 1,980					
	Supv/Plant Prod - RIWWA		\$ 150					
	Supv/Plant Prod - NEWWA		\$ 550					
	Conferences & Training		\$ 540					
	Training, travel		\$ 900					
	total		\$ 4,120	\$4,120	\$4,120	\$ 2,495	\$ 1,625	\$ 4,120
50239	Fire & Liability Insurance							
	RI Interlocal	premium fy 2018-2019	\$ 60,325	\$ 54,000	\$ 54,000	\$ 61,505	\$ (1,180)	\$ 60,325
50306	Contribution to Electricity Restricted Account							
	Lawton Valley Treatment plant & pumping station	2 yr avg						
	kwh usage		1,898,977					
	cost		\$ 301,655	\$ 375,091	\$ 375,092	\$ 289,647	\$ 4,477	\$ 301,655
							<i>Rebuttal Adjustment</i>	\$ (7,531)
							<i>Rebuttal Amount</i>	\$ 294,124

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 Expense Detail - Lawton Valley
 15-500-2223

Account	Description	Comments	Calc	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50307	Natural Gas		2 yr average					
		Total Cost	cost \$ 25,374 26,195	\$ 34,663	\$ 34,663	\$ 25,950	\$ 314	\$ 26,195
							<i>Rebuttal Adjustment</i>	\$ 69
							<i>Rebuttal Amount</i>	\$ 26,264
50260	Rental of Equipment							
		Dumpster Rentals	\$ 850					
		chemical cylinders	\$ 150					
		total	\$ 1,000	\$ 1,000	\$ 1,000	\$ 322	\$ 678	\$ 1,000
50305	Sewer Charge							
	Gallons		2 yr average \$ 23,250,000					
	\$/Gal		per 1,000 rate \$ 20.50					
	Cost		\$ 476,625	\$ 510,000	\$ 510,000	\$ 437,731	\$ (3,020)	\$ 476,625
							<i>Rebuttal Adjustment</i>	\$ (41,914)
							<i>Rebuttal Amount</i>	\$ 434,711
50271	Gas/Vehicle Maintenance							
		cost per vehicle	\$ 6,410					
		3 of vehicles	1					
		total	\$ 6,410	\$ 5,389	\$ 5,389	\$ 5,678	\$ 439	\$ 6,410
							<i>Rebuttal Adjustment</i>	\$ (293)
							<i>Rebuttal Amount</i>	\$ 6,117
50275	Repairs & Maintenance							
		Variable frequency Drives	\$ 3,000					
		Gas Boilers & Hot water Heater	\$ 5,600					
		Backup Gnerators-annual service	\$ 1,500					
		transfer switches	\$ 600					
		SCADA Maintenance & repair	\$ 14,000					
		Building Systems & A/C service contract	\$ 18,000					
		Analyzeer service	\$ 9,625					
		DAF Compressors	\$ 4,000					
		Fire Panel Maintenance	\$ 400					
		Tank Inspection	\$ 4,275					
		Rebuild/Repack Raw water Pumppps 1 & 2	\$ 3,000					
		Misc.	\$ 1,000					
		total	\$ 65,000	\$ 61,556	\$ 68,013	\$ 55,359	\$ 9,641	\$ 65,000

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 HJS Schedule D-12 Rebuttal
 Expense Detail - Lawton Valley
 15-500-2223

Account	Description	Comments	Calc	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50311	Operating Supplies							
	Valves		\$ 500					
	Piping		\$ 500					
	Tools		\$ 500					
	Mechanical Seals & Packing		\$ 500					
	Analytical Analyzer Reagents		\$ 2,728					
	Analyzer probe Salt bridges, Cell Solution, Grit Filters		\$ 669					
	Fluoride Feeder Filter Pack		\$ 364					
	Roll towels, bathroom tissue		\$ 200					
	Cleaning Supplies		\$ 475					
	Chemical Transfer Pumps		\$ 2,050					
	GLO2 Generator Maintenance Kit & Filters		\$ 924					
	HVAC Filters		\$ 196					
	Generator Fuel		\$ 2,814					
	Misc.		\$ 880					
	Total		\$ 13,300	\$ 13,311	\$ 13,311	\$ 2,747	\$ 10,553	\$ 13,300
50320	Uniforms & protective Gear							
	Unifirst uniforms		\$2,290					
	Overboots		\$ 300					
	Rain Gear		\$ 200					
	Misc. Gloves, Eye pprotection		\$ 340					
	Coveralls		\$ 275					
	Respirator Work Lights		\$ 95					
	Work Lights		\$ 100					
	Total		\$ 3,600	\$ 1,303	\$ 1,303	\$ 835	\$ 2,765	\$ 3,600

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 Expense Detail - Lawton Valley
 15-500-2223

Account	Description	Comments	Calc	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50335	Chemicals							
		PACI Quantity	86,535					
		Unit Cost Per Gal	\$ 1.5900					
		PACI Total Cost	\$ 137,591					
		Hypochlorite Quantity	32,982					
		Unit Cost	\$ 0.9780					
		Chlorine Total Cost	\$ 32,256					
		Flouride quantity	4,656					
		Unit cost	\$ 0.5871					
		Flouride Total Cost	\$ 2,734					
		Sodium chlorite quantity	39,000					
		Unit Cost	\$ 0.5880					
		Sodium chlorite total Cost	\$ 22,932					
		32% HCl Quantity	4,402					
		Unit Cost Per Gal	\$ 1.3620					
		Sodium chlorite total Cost	\$ 5,996					
		Polymer Quantity	805					
		Unit Cost	\$ 8.6400					
		Polymer Total Cost	\$ 6,955					
		Sodium Hydroxide quantity	33,955					
		Unit Cost	\$ 1.0560					
		Sodium Hydroxide total cost	\$ 35,856					
		GAC Filters (816) Quantity	1,760					
		Unit Cost Per CF	\$ 29.75					
		GAC Total Cost	\$ 52,360					
		GAC AWT (400) Quantity	4					
		Unit Cost Per Vessel	\$ 41,814					
		GAC Total Cost	\$ 167,256					
		HCl Scrubber Media (Chlorosorb)						
		HCl Scrubber Media Total Cost	\$ 5,000					
		total	\$ 468,936	\$ 328,667	\$ 328,667	\$ 332,292	\$ 136,644	\$ 468,936
		total	\$ 2,445,097	\$ 2,381,806	\$ 2,321,852	\$ 2,188,773	\$ 204,938	\$ 2,393,711

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Rhode Island Public Utilities Commission
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 HJS Schedule D-13 Rebuttal
 Expense Detail - Laboratory
 15-500-2235

Account	Description	Comments	Detail	Calculation Amount	Budget 2018		Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
					Docket 4595	Budget 2018			
50001	Salaries & Wages	Laboratory Supervisor	N03-6	\$78,895					
		Microbiologist	N04-8	\$65,068					
		Total		\$143,963	\$ 121,179	\$123,419	\$ 105,565	\$ 38,398	\$143,963
50100	Employee Benefits	Laboratory Supervisor	U3-1	\$44,841					
		Microbiologist	U4-2	\$41,608					
		Benefits on Annual leave buyback		\$325					
		Total		\$86,774	\$ 55,194	\$59,707	\$ 56,521	\$ 30,400	\$86,774
							<i>Rebuttal Adjustment</i>	\$ 147	
							<i>Rebuttal Amount</i>	\$86,921	
50175	Annual Leave Buyback	3 yr avg	Total	\$4,250	\$ 1,500	\$1,500	\$ 4,210	\$ 40	\$4,250
50275	Repairs & Maintenance	HACH QbD TOC analyzer		\$3,375					
		Calibration Bal & thermometers		\$550					
		Calibration lab weights		\$275					
		HACH calibrate TL 2300 (2)		\$1,000					
		HACH calibrate DR 3900 (2)		\$1,000					
		Total		\$6,200	\$ 1,700	\$1,700	\$ 995	\$ 5,205	\$6,200
		50281	Regulatory Assessment	IDEXX/BACTERIA		\$7,100			
		UCMR 4 (begins Feb 2020)		\$16,920					
		TTHM / HASS		\$7,850					
		TOC		\$3,360					
		LEAD		\$650					
		COPPER		\$510					
		BROMIDE		\$790					
		SODIUM		\$1,250					
		ERA QC PT		\$1,850					
		LAB LICENSE		\$440					
		RIDOH		\$26,400					
		CHLORITES		\$1,800					
		CHLORATES		\$5,550					
		LT2 Cryptosporidium		\$2,400					
		ALGAE TOXIN		\$4,000					
		Algae Test Strips		\$2,830					
		Total		\$83,700	\$ 47,024	\$68,223	\$ 58,270	\$ 25,430	\$ 83,700

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 HJS Schedule D-13 Rebuttal
 Expense Detail - Laboratory
 15-500-2235

Account	Description	Comments	Detail	Calculation Amount	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50339	Laboratory Supplies								
	Millipore Mills Q Interfural with UV		capital ?	\$0					
	Buffer, reagents, standards, electrodes, meters			\$14,640					
	Kimwipes, Gloves, Pipets, Glassware, Thermometers			\$3,450					
	Hach Turbidimeters			\$4,175					
	Hach Reagents and DR 3900			\$19,100					
	UV 254 Meter, vials,lalmp assembly			\$4,700					
	Beau Hopkins Capital Controls Titrator and Pt/Pt probes			\$6,950					
	Swift Microscope, Counting Chamber and slides			\$1,985					
	total			\$55,000	\$ 35,627	\$21,128	\$ 21,104	\$ 33,896	\$ 55,000
	Total			\$379,887	\$ 262,224	\$275,677	\$ 246,665	\$ 133,369	\$ 380,034

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Rhode Island Public Utilities Commission
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 HJS Schedule D-14 Rebuttal
 Expense Detail - Distribution
 15-500-2241

Account	Description	Comments	Detail	calc	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50001	Salaries & Wages								
		HE Operator	U4-7	59,117					
		Dist/Collect Mechanic	U4-2	50,297					
		Dist/Collect Operator	U3-7	56,202					
		Dist/Collect Mechanic	U4-2	48,860					
		Dist/Collect Operator	U3-1	REMOVED to ALLOW FOR TWO OPEN POSITIONS					
		Dist/Collect Operator	U3-5	51,298					
		Dist/Collect Foreman	U5-7	64,913					
		Engineering Technician	U5-8	66,157					
		Engineering Technician	U5-3	55,259					
		Parts/Invent Control Tech	U4-1	47,438					
		50% to WPC		(23,719)					
		supervisor Dist / Collection 50%	N05-10	45,626					
				521,449	\$ 515,219	\$ 563,655	\$ 463,664	\$ 57,785	\$ 521,449
				-					
50002	Overtime								
		2017		\$46,156					
		2018		\$43,341					
		2 yr avg plus 2% increase per union contract for 2019 & 2020		\$46,500	\$ 52,364	\$ 52,364	\$ 43,341	\$ (1,247)	\$46,500
									\$ (4,406)
									\$42,094
50004	Temp Salaries	2 staff 19 weeks \$15/hr 40 hrs wk		\$ 22,800	\$ 26,180	\$ 26,180	\$ 22,256	\$ (2,800)	\$ 22,800
									\$ (3,344)
									\$ 19,456
50100	Employee Benefits								
		HE Operator	U4-7	\$38,786					
		Dist/Collect Mechanic	U4-2	\$24,068					
		Dist/Collect Operator	U3-7	\$25,314					
		Dist/Collect Mechanic	U4-2	\$36,647					
		Dist/Collect Operator	U3-1	Vacant Position #2					
		Dist/Collect Operator	U3-5	\$24,374					
		Dist/Collect Foreman	U5-7	\$40,561					
		Engineering Technician	U5-8	\$40,280					
		Engineering Technician	U5-3	\$25,587					
		Parts/Invent Control Tech	U4-1	\$35,211					
		50% to WPC		-\$17,606					
		Supervisor Dist / Collection 50%	N05-10	\$23,855					
		FICA on OT, Temp, Leave Buyback		\$5,760					
		Total		\$302,837	\$ 312,306	\$ 294,666	\$ 231,379	\$ 72,160	\$ 302,837
									\$ 702

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 Expense Detail - Distribution
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Account	Description	Comments	Detail	calc			Actual FY 2018 Test Year	Change from Test year to Proposed Rebuttal Amount	Proposed FY 2020 Rate Year Rebuttal Amount
					Docket 4595	Budget 2018			
									\$303,539
50175	Annual Leave Buyback		3 yr avg	\$6,000	\$ 7,500	\$ 7,500	\$ 2,722	\$ 3,278	\$6,000
50212	Conferences & Training								
		Continuing Education Units		\$ 3,000					
		Taining videos, books, online cvourses		\$ 1,000					
		Total		\$ 4,000	\$ 4,000	\$ 4,000	\$ 1,200	\$ 2,800	\$ 4,000
50225	Contract Services								
		Welding Services (Swabbing) as required		\$ 1,000					
		Weather Data Network		\$ 120					
		Infowater		\$ 3,750					
		Dig safe Contract (609.15*12)		\$ 7,000					
		total		\$ 11,870	\$ 21,525	\$ 21,525	\$ 10,316	\$ 1,554	\$ 11,870
50239	Fire & Liability Insurance								
	RI Interlocal	Premium fy 2018-2019		\$ 10,910	\$ 12,000	\$ 12,000	\$ 9,664	\$ 1,246	\$ 10,910
50306	Electricity Restricted Account								
	Forest Ave, Goulart Lane, Reservoir Rd								
			kwh usage						
			cost	\$ 20,500	\$ 20,607	\$ 20,607	\$ 16,922	\$ 5,759	\$ 20,500
									\$ 2,181
									\$ 22,681
50260	Heavy Equipment Rental								
		Excavator, 10 wheel Dump Truck,		\$ 8,000					
		asphalt roller & other equipment		\$ 1,000					
		Total		\$ 9,000	\$ 8,260	\$ 8,260	\$ 246	\$ 8,754	\$ 9,000
50271	Gas/Vehicle Maintenance								
			cost per vehicle	\$ 6,410					
			# of vehicles	13					
		total		\$ 83,330	\$ 70,057	\$ 70,057	\$ 93,121	\$ (5,638)	\$ 83,330
									\$ 4,153
									\$ 87,483
50275	Repairs & Maintenance								
		Overhead Door Repair & Maintenance		\$ 5,000					
		Fire Alarm Panel, Fire Extinguisher Serv & Repair		\$ 1,200					
		Misc. snow removal equipment & supplies		\$ 3,000					
		Travel Vacuum repairs and/or replacement		\$ 5,000					
		pump, generatro, jackhammer, repair & mmaintenance		\$ 6,000					
		total		\$ 20,200	\$ 26,000	\$ 26,110	\$ 18,687	\$ 1,513	\$ 20,200

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 HJS Schedule D-14 Rebuttal
 Expense Detail - Distribution
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Account	Description	Comments	Detail	calc	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50276	Main Maintenance								
		Valves, pipe, couplings, clampos, risers, covers, etc.		\$ 26,000					
		Swabbing Program - supplies		\$ 2,000					
		Gravel, stone, cold patch, hot mix, etc.		\$ 15,000					
		Leak Detection Services		\$ 12,000					
		Permits & Police details		\$ 5,000					
		demolition Saw, blades, etc.		\$ 3,000					
		Misc.		\$ 3,000					
		Total		\$ 66,000	\$ 91,200	\$ 94,370	\$ 84,145	(18,145)	\$ 66,000
50296	Service Maintenance								
		Tapping machine repair and/or eplace, misc. parts & misc. parts		\$ 3,000					
		service boxes, risers, keys		\$ 4,000					
		Corporation & curb stops, saddles, unions, etc.		\$ 4,000					
		Type K copper		\$ 5,000					
		Fittings		\$ 6,000					
		Gravel, stone, cold patch, hot mix, etc.		\$ 4,000					
		Permits & Police Details		\$ 3,000					
		Misc.		\$ 1,000					
		Total		\$ 30,000	\$ 30,000	\$ 32,629	\$ 27,194	2,806	\$ 30,000
50311	Operating Supplies								
		machine & tool lubricant, greese guns		\$ 1,800					
		Marking paint, flags, etc.		\$ 3,000					
		Replacement blades/cutting wheels, chains, bars		\$ 1,600					
		Metal detectors		\$ 1,600					
		Total		\$ 8,000	\$ 8,000	\$ 8,000	\$ 10,014	(2,014)	\$ 8,000
50320	Uniforms & protective Gear								
		UniFirst uniforms		\$2,200					
		Tyvek protective Suits		\$700					
		N 95 respirator		\$500					
		Safety Vests		\$200					
		Hi Viz Jackets		\$200					
		Gloves, safety glasses, respirator, etc.		\$200					
		Total		\$4,000	\$4,000	\$ 4,000	\$ 1,173	2,827	\$ 4,000
		total		\$1,167,396	\$ 1,209,218	\$ 1,245,923	\$ 1,036,044	130,638	\$ 1,166,682

Docket 4933

Rhode Island Public Utilities Commission
 Docket 4933
 FY 2020 Rate Filing
 HJS Schedule D-15 Rebuttal
 Expense Detail - Fire Protection
 15-500-2245

Account	Description	Calc	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50275	Repair & Maintenance - Equipment						
	Permits	\$ 500					
	Hydrant parts	\$ 5,000					
	Hydrant Paint	\$ 1,800					
	Misc.	\$ 600					
	Quick Valve - Supplies	\$ 7,500					
	Police Details	\$ 1,760					
	Hydrant and/or Hydrant inserts	\$ 14,140	\$ 23,800	\$ 23,800	\$ 7,739		
total		\$ 31,300	\$ 23,800	\$ 23,800	\$ 7,739	\$ 23,561	\$ 31,300

Docket 4933

Rhode Island Public Utilities Commission
 Docket 4933
 FY 2020 Rate Filing
 HJS Schedule D-17 Rebuttal
 City Services Calculation

FY2019 Adopted Budget	<i>Less School</i>	Less Civic Support	<i>Less Debt Service</i>	Less Capital	Total to be Allocated	Percentage
General Fund	\$20,775,023	\$2,014,487	\$5,452,352	\$3,212,552	\$65,548,876	69.15%
Water Fund Total Operating Expenses	\$-	\$-	\$6,796,599	\$3,360,400	\$12,943,626	13.66%
WPC Fund			\$6,303,683	\$4,205,000	\$13,753,369	14.51%
Maritime Fund				\$295,000	\$941,587	0.99%
Parking Fund				\$460,000	\$1,601,699	1.69%
Total					\$94,789,157	

School Appropriation: \$25,968,779
 20% appropriation left in general fund \$5,193,756
 \$20,775,023

Allocated Item	Cost To Be Allocated	Water Fund	
		Water %	Water Fund
Audit Fees	\$ 80,000	6.18%	4,944
OPEB Contribution (1)	\$ 820,000	3.84%	31,488
City Council	\$ 115,297	3.42%	3,943
City Clerk	\$ 453,679	1.00%	4,537
City Manager	\$ 560,914	13.66%	76,621
Human Resources	\$ 355,898	1.74%	6,193
City Solicitor	\$ 271,725	13.66%	37,118
Finance Admin 50%	\$ 191,888	13.66%	26,212
Finance - 5% RICWFA	\$ 6,726	50.00%	3,363
Finance Admin 10% Inv/Debt	\$ 38,378	30.77%	11,809
Purchasing	\$ 121,302	18.47%	22,404
Collections	\$ 428,073	5.80%	24,828
Accounting - Wires - 5%	\$ 13,070	70.00%	9,149
Accounting	\$ 598,939	10.97%	65,704
Total Allocation			328,312
Legal & Administrative			328,312
		rounded	\$ 328,312

Allocation of Data Processing Costs to Enterprise Funds

Allocated Item	Cost To Be Allocated	Water Fund	
		Water %	Water Fund
MIS	\$ 2,512,260	13.66%	343,175
Total Allocation			343,175
Data Processing (1)			343,175
		rounded	\$ 343,175