

RHODE ISLAND PUBLIC UTILITIES COMMISSION DOCKET 4595

PREFILED REBUTTAL TESTIMONY

OF

HAROLD J. SMITH RAFTELIS FINANCIAL CONSULTING, INC.

IN SUPPORT OF

THE CITY OF NEWPORT, UTILTIES DEPARTMENT, WATER DIVISION APPLICATION TO CHANGE RATES

JUNE 3, 2016

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2	Q.	Please state your name and business address.
3	A.	My name is Harold J. Smith and my business address is 227 West Trade Street,
4		Suite 1400, Charlotte, North Carolina 28202.
5		
6	Q.	Are you the same Harold Smith who submitted pre-filed direct testimony in
7		this docket?
8	A.	Yes, I am.
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10	Q.	What is the purpose of this testimony?
11		A. I would like to respond to certain points or conclusions made in the pre-filed
12		testimony filed by Ms. Sherwood and Mr. Mierzwa on behalf of the Division of
13		Public Utilities and Carriers ("Division"), Mr. Woodcock on behalf of the
14		Portsmouth Water and Fire District ("Portsmouth"), and Mr. Collins on behalf of
15		the United States Department of the Navy ("Navy").
16		
17	Q:	How is your testimony organized?
18	A.	First, I will provide a summary of the adjustments I made to Newport's original
19		Cost of Service Model ("COS Model"). Second, I will address issues raised in the
20		testimony of more than one of the witnesses for the Division and the
21		Interveners. Finally, I will address issues raised by individual witnesses that were
22		not addressed in the testimony of the other witnesses.
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I. INTRODUCTION

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II. Summary of Adjustments

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2	Q.	Can you provide a summary of the adjustments you made to your original COS
3		Model?
4	A.	Yes. The following is a list of changes I made to Newport's proposed revenue
5		requirements:
6 7 8		 Reduced Telephone and Communications Expense by \$415 (See Julia Forgue Rebuttal Testimony).
9 10		• Revised Self Insurance Expense by \$5,000 (See Julia Forgue Rebuttal Testimony)
11 12		Revised Consultant Fees (See Julia Forgue Rebuttal Testimony).
13 14 15		 Reduced Salaries and Wages and Benefits Expenses (See Julia Forgue Rebuttal Testimony).
16 17 18		 Relabeled Bond Advisor Fees to Bank Trustee Fees (See Julia Forgue Rebuttal Testimony).
19 20 21		 Revised contributions to Newport's Restricted Capital Account to \$2,700,000/year (See Julia Forgue Rebuttal Testimony).
22 23 24		 Updated Legal and Administrative Expense and Data Processing Expense (See Laura Sitrin Rebuttal Testimony).
25 26	I al	so made the following changes to the COS Model:
27 28 29		• The allocation of treatment capital costs was changed such that they are now allocated to base extra capacity cost categories and customer classes based on historical class demand (See Harold Smith Rebuttal Testimony).
30 31 32 33		 Corrected calculation of Base Charge Revenue at Existing Rates on Revenue Proof (See Harold Smith Rebuttal Testimony).

• The water consumption volume for the Residential class in FY 2015 on HJS

Schedules B-6 and D-4 reflects the replacement of July 2014 billed Residential

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1 2 3		consumption with billed consumption from July 2015 (See Harold Smith Rebuttal Testimony).
5 4 5 6		 Removed Lawton Valley and Station One Electricity Expense to calculate Administration Non-salary costs. (See Harold Smith Rebuttal Testimony).
7 8 9		 The asset values presented on HJS Schedule B-5 were updated to reflect revisions made in response to feedback from the various parties (See Harold Smith Rebuttal Testimony).
10 11 12 13		 Recalculated Navy demand factors to exclude the volume of water lost during a main break event (See Harold Smith Rebuttal Testimony).
14 15 16		 Updated meters and fire services in HJS Schedule D-1 and D-2 per Newport's response to Portsmouth Data Request 1-15.
17 18 19		 Revised Miscellaneous Revenue Amounts pursuant to Newport's Response to Portsmouth 3-7.
20 21 22		 Updated the Capital and Debt Service cash flows in HJS Schedule D-6 through March 31, 2016.
23 24	Q.	What are the results of Newport's adjustments?
25	Α.	Originally, Newport's proposed rates were designed to collect \$1,304,595 of
26		additional operating revenue to support a total cost of service of \$20,151,440. As a
27		result of Newport's adjustments, its rates are designed to collect additional
28		operating revenue of \$975,639 to support a total cost of service of \$19,564,370.
29		The resulting rate impacts are set forth in HJS Rebuttal Schedules A-2 and A-3.
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III. Common Issues

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- Q. Please summarize the issues that were addressed by more than one of thewitnesses.
- A. There were two issues addressed by more than one witness. Both Mr. Mierzwa for the Division and Mr. Woodcock for Portsmouth addressed Newport's proposed allocation of capital costs associated with Newport's water treatment facilities, while both Mr. Mierzwa and Mr. Collins for the Navy proposed incorporating gradualism into the rate setting process.

10 Allocation of Treatment Capital

- Q. Please describe the issues that Mr. Mierzwa and Mr. Woodcock raised with respect to the allocation of treatment capital costs.
 - A. The original rate application in this Docket proposed to allocate treatment plant capital costs based on the amount of capacity Portsmouth and the Navy claimed they would need before Newport built the new Lawton Valley Plant and upgraded the Station One Plant (a/k/a "Reserved Capacity"). Since Newport incurred costs to provide the necessary treatment capacity, it believes the wholesale customers should be responsible for those costs. Thus, the allocation of treatment capital costs based on Reserved Capacity ensured that each class paid for the portion of the treatment plants based on the projected demands they provided to Newport.

Mr. Mierzwa opposes the proposed allocation of treatment capital costs based on Reserved Capacity because it does not reflect the way each customer class uses the treatment facilities. Specifically, under the Reserved Capacity approach, the Navy is allocated treatment capital costs associated with meeting a maximum day demand

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1 of 1.395 MGD when the Navy's actual maximum day demand in FY 2015 was 2.084 2 MGD. 3 Mr. Woodcock's position with regard to the allocation of treatment capital costs is 4 5 difficult to determine since his responses to data requests contradict his testimony, 6 and his testimony itself seems contradictory. Initially, it appeared that Mr. 7 Woodcock's objection to the proposed methodology resulted from his 8 misinterpretation of Newport's allocation of treatment capital costs. On page 22 of 9 his direct testimony Mr. Woodcock characterized the proposed allocation as Newport "seeking to allocate these costs based only on a single purpose set of 10 bonds – those used to finance the treatment plant upgrades." However, in his 11 12 response to Newport Water Data Request 1-4, Mr. Woodcock acknowledged that 13 Newport's proposed approach does not allocate costs based on a single purpose set of bonds, but instead allocates treatment plant capital costs differently from the 14 rest of its bond costs." He concludes his response to this data request by stating: 15 "Those allocations should be based on actual usage like all other costs." 16 17 On page 19 of his testimony, he suggests that the basis for the allocation of 18 19 treatment capital costs should be the design of the treatment plants instead of the 20 actual demands that each customer class places on these facilities. Thus, Mr. 21 Woodcock's proposal is unclear. To the extent he suggests an allocation based on 22 the design of the treatment plants, Newport disagrees. 23 24 25

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Q. Do you agree that treatment capital costs should be allocated based on the actual demands of the respective customer classes?

A. I do not disagree with this approach as it does result in an allocation that reflects actual demands each class places on the treatment facilities. However, this approach does place the retail customers at risk of paying for "oversized" treatment facilities if the demands of the Navy and/or Portsmouth decline significantly from the current level. If the Navy decides to reduce activities at the Newport Base, or if Portsmouth decides to purchase more water from another wholesale provider, the retail class would pay a larger share of the cost for treatment facilities that were designed and built specifically to meet the demands of the Navy and Portsmouth.

Q. Does Newport agree to change the allocation of treatment capital costs?

A. Yes. Newport agrees to allocate treatment capital costs based on actual usage as proposed by the Division. As in Docket 4355, Newport withdraws its request to allocate these costs based on Reserved Capacity without prejudice to requesting this allocation in future rate filings. If wholesale demands decline materially from their current level, Newport would likely ask the Commission to consider an approach that ensures the retail customer classes are not burdened with the cost of treatment facilities constructed on behalf of the Navy and Portsmouth.

Q. What impact does this change have on the proposed rates?

A. As demonstrated on Schedule HJS D-8 Rebuttal, making this change along with Newport's other rebuttal adjustments (and changing the Navy's max day consumption as addressed below) results in slightly lower Base Charges and volumetric rates for the retail classes, slightly higher volumetric rates for the wholesale rate classes, and significantly higher fire protection charges.

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Gradualism

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- Q. Please explain how the Navy and Division propose to incorporate gradualism into the rate design process?
- 4 A. Mr. Collins, on behalf of the Navy, proposes to achieve gradualism by limiting the 5 increase in rate revenue recovered from any one class to no greater than 1.5 times 6 the percent increase in system revenue. The unrecovered revenue resulting from 7 setting rates below the cost of service level for some classes would be allocated to 8 those rate classes for whom the calculated cost of service rates are less than 1.5 9 times the system average. In Mr. Collins' proposal, rates for the Navy, Portsmouth and Private Fire customers would be set such that revenue generated from rates 10 11 would be 10% greater than revenue that would be recovered under the existing 12 rates while rates for the Residential and Non-Residential classes and hydrants 13 would increase by 5.7%.

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Mr. Mierzwa's proposal for the Division involves leaving the rates for Newport's retail classes at existing levels, which are higher than the cost to serve the retail classes. The excess revenue generated by setting rates at a higher level than the cost of service for the retail class would allow for smaller rate increases to Newport's other rate classes.

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- Q. Do you agree with Mr. Collins' and Mr. Mierzwa's proposed approaches to incorporating gradualism into the rate setting process?
- A. In general I do not oppose the concept of applying the concept of gradualism in an
 effort to mitigate severe adverse rate impacts on individual customer classes, but I
 am opposed to Mr. Collins' suggestion to place an artificial limit on increases for the
 various customer classes. This is not an equitable way to assign costs caused by

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1 Newport's customers. Further, Mr. Collins cites the Commission's Order in Docket 2 4065 (In Re: Narragansett Electric Company) to support his position. However, this 3 Order approved a Settlement Agreement and does not seem to provide precedent 4 for capping increases on customer classes. I also don't agree with Mr. Mierzwa that 5 the residential and non-residential rates should be artificially inflated. Instead, as 6 examined in more detail below, Newport will consider changing the Navy's rate 7 based on their max day consumption, which will moderate its rate. 8 9 Q. Are there any other issues that were raised by multiple witnesses? 10 A. No. 11 IV. INDIVIDUAL ISSUES 12 13 Q. Are there any issues raised only by Ms. Sherwood? 14 A. Yes, Ms. Sherwood pointed out that Newport miscalculated anticipated Base 15 Charge revenue at existing rates presented on HJS Schedule A-4 (\$851,329), and 16 that anticipated Base Charge revenue under existing rates would be \$934,255. Ms. 17 Sherwood recommends reducing Newport's requested revenue requirements by 18 \$82,926 which is the difference between the erroneous amount of \$851,329 19 presented in my direct testimony and the \$934,255 she calculated. 20 Q. Do you agree with Ms. Sherwood's testimony? 21 22 A. I agree that an incorrect formula in the COS Model submitted with my direct 23 testimony resulted in an understatement of the Base Charge revenue under existing rates and that the formula should be corrected. As shown in the table below, using 24 25 the updated meter counts results in \$936,424 of anticipated Base Charge revenue

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(which is a slight difference from Ms. Sherwood's calculation of \$934,255) under
 existing rates.

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	Exi	sting Base	Number of		
Meter Size		Charge	Meters	I	Revenue
5/8	\$	4.89	10,749	\$	630,751
3/4	\$	5.01	2,496	\$	150,060
1	\$	6.07	567	\$	41,300
1.5	\$	8.78	376	\$	39,615
2	\$	11.35	263	\$	35,821
3	\$	25.22	58	\$	17,553
4	\$	28.90	16	\$	5,549
5	\$	33.80	-	\$	-
6	\$	37.48	32	\$	14,392
8	\$	47.29	1	\$	567
10	\$	65.07	1	\$	781
Portsmouth Base Charge (4")	\$	2.86	1	\$	34

Base Charge Revenue Under Exisitng Rates \$ 936,424

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However, I do not agree that Newport's requested rate year revenue requirements should be reduced as a result of this correction because the anticipated revenue under *existing* rates does not impact Newport's anticipated rate year expenses, or the rate revenue required to meet these expenses.

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Q. Were there any other issues were raised by Ms. Sherwood?

A. Ms. Sherwood did address other components of Newport's proposed revenue requirements (Salaries and Wages, Accrued Benefits Buyout, Consultant Fees, Telephone and Communications and Self Insurance) that Julia Forgue addresses in her rebuttal testimony.

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1	Q.	Are there any issues that were raised only by Mr. Collins?
2	A.	Yes, Mr. Collins addressed the Navy's FY 2105 maximum day consumption used to
3		calculate demand factors.
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5	Q.	Please describe Mr. Collins' concern with the Navy's maximum day consumption
6		and the Navy's Maximum Day Demand Factor.
7	A.	Mr. Collins points out that the Navy's FY 2015 maximum day of consumption
8		coincides with a water main break on the Navy base, which resulted in a large
9		volume of lost water. He goes on to point out that due to the main break, the
10		metered consumption on the measured maximum day is not truly indicative of the
11		Navy's normal demand patterns, and that a Maximum Day Demand Factor based on
12		consumption including water lost due to the main break likely overstates the Navy's
13		true maximum day demand.
14		
15	Q.	Does Mr. Collins suggest that the Navy's Maximum Day Demand Factor be
16		revised?
17	A.	He does not, but as referenced above, Newport reexamined the Navy's max day
18		consumption based on Mr. Collins' testimony.
19		
20	Q.	Is Newport willing to change to the Navy's maximum day consumption and
21		resulting Maximum Day Demand Factor?
22	A.	At the current time, and depending on the resolution of outstanding issues raised
23		by the other parties, Newport is willing to consider a change to the Navy's
24		maximum day consumption. To that end, I recalculated the Navy's demand factors
25		excluding the volume lost during the main break event. This was accomplished by
26		excluding the volume consumed between the dates of March 6, 2015 and March

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1 18, 2015, identifying the new maximum day (March 27, 2015) and then 2 recalculating the average day. The new maximum day volume is divided by the new 3 average day volume to arrive at the new maximum day peaking factor. 4 5 Q. How would this change affect rates? 6 Making this change alone to the COS Model submitted with my original testimony 7 reduces the increase to the Navy volume charge from 25% to 17%, while the public 8 and private fire protection charges and the volume charge for all other classes 9 increase. In the rebuttal COS Model, if Newport does not make this change, the Navy's volume charge will increase by 34%. 10 11 12 Q. Are there any issues raised only by Mr. Woodcock? 13 Yes, in addition to the allocation of treatment capital costs, Mr. Woodcock raised 14 many other issues. Julia Forgue's rebuttal testimony addresses Mr. Woodcock's suggestions related to Chemical, Electric, Consultant Fees, and Capital expenses, 15 16 and Ms. Sitrin addresses Mr. Woodcock's proposed cut to Legal and Administrative 17 and Data Processing expenses. I will address the following issues: 18 Restricted Capital Funding; 19 20 The asset listing used for the functionalization of capital costs; 21 The derivation of class demand factors; 22 Inconsistent time periods used to calculate water use and sales 23 Errors on Schedule B-1; 24 Miscellaneous revenues; and, 25 • The projection of rate year demand for the Residential class.

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1 Q. Do you agree with Mr. Woodcock's testimony that Newport sought to "recover 2 anticipated capital costs for four years beyond the rate year"? 3 No I do not. Newport originally asked to increase the contribution to its Restricted 4 Capital Account from \$2,500,000/year to \$3,180,502/year, which is an increase of 5 \$680,502. Newport based the annual funding amount of \$3,180,502 on the average 6 projected annual rate funded capital expenses for Fiscal Years 2016 through 2021 as 7 shown on the Capital Improvement Plan attached to Julia Forgue's Direct Testimony 8 as Exhibit 1. Newport used this average for two reasons. 9 10 First, using an average was consistent with past practice. Mr. Woodcock himself 11 suggested that Newport use an average for its Capital Costs in Docket 4025. Second, 12 and more important, the use of an average reduced Newport's rate increase. Mr. 13 Woodcock argues that Newport can only recover anticipated costs in the rate year, 14 which is "the twelve month period for which new rates are designed to recover the proposed cost of service." Newport's rate year is FY 2017, in which the anticipated 15 16 capital costs are \$3,384,200. Thus, had Newport used the rate year capital amount, 17 the increase for capital would have been \$884,200 not \$680,502. 18 19 Q. Mr. Woodcock also suggests that Newport can use funds in its Restricted Capital 20 Account balance to mitigate the overall rate increase. Does Newport agree? 21 A. Yes. As set forth in Ms. Forgue's testimony, Newport reduced the requested 22 increase to its Capital Account by \$480,502. Thus, Newport seeks only a \$200,000 23 increase, which would bring its annual funding of this account to \$2,700,000, and this change is reflected in my updated COS Model. 24

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1 Q. Please explain Mr. Woodcock's issue with the asset listing?

Mr. Woodcock has two issues with the asset listing we used to allocate capital costs to functional categories in the COS model. His first issue relates to the potential misclassification of twelve assets in an asset list consisting of almost five hundred entries. During correspondence and conversations with Mr. Woodcock and the Division's representative, Thomas Catlin, and Larry Allen, representing the Navy, regarding Newport's updated asset listing, Mr. Woodcock pointed out that these twelve assets appeared to have been assigned to the wrong functional category and suggested that Newport re-examine the assignment of these assets. In response to his suggestion, I worked with Newport Water's staff to either verify the assignment of these twelve assets, or reassign them to the appropriate category. The results of that exercise are summarized in the table below:

Function Code	e Asset Description	Action Taken
Т	Water System Eval	Confirmed as treatment related project
Т	Water System Eval	Confirmed as treatment related project
ww	Lee's Wharf Pump Station	Wastewater pump station - Do not include
SS	Paradise Avenue Pump Station	Raw water pump station - Reassigned from T to SS
TDP	Forest Ave Pump Station	Distribution pump station - Ressigned from T to TDP
SS	Paradise Avenue Pump Station	Raw water pump station - Reassigned from T to SS
ST	Reservoir Tank Improve	Storage Tank - Reassigned from TD to ST
ST	Reservoir Road Standpipe	Storage Tank - Reassigned from TD to ST
ST	Painting of Water Tank	Storage Tank - Reassigned from TD to ST
ST	Distribution Standpipes	Storage Tank - Reassigned from TD to ST
M	SRF Remote Meter Reading	Meters - Reassigned from B to M
M	SRF Remote Meter Reading	Meters - Reassigned from B to M

As shown in the table, I confirmed that two of the assets were assigned properly; nine assets were reassigned to the category that reflects their actual function; and, one wastewater asset erroneously included in the water asset listing was removed from the list. The impact of the asset reassignment is shown in the table below:

	٧	alues from					
	Direct			alues after			
Functional Category	•	Testimony		Reassignment		Difference	
TRANSMISSION/DISTRIBUTION	\$	35,166,501	\$	34,349,799	\$	(816,703)	
LAWTON VALLEY	\$	47,328,373	\$	47,328,373	\$	-	
STATION 1	\$	41,940,359	\$	41,940,359	\$	-	
TREATMENT BOTH	\$	9,271,267	\$	8,733,230	\$	(538,037)	
STORAGE	\$	1,060,548	\$	1,877,251	\$	816,703	
SOURCE OF SUPPLY	\$	25,033,596	\$	25,539,067	\$	505,471	
METERS	\$	3,686,804	\$	6,575,750	\$	2,888,946	
SERVICES	\$	3,726,343	\$	3,726,343	\$	-	
T&D PUMPING	\$	1,061,977	\$	1,082,596	\$	20,619	
BILLING	\$	3,151,248	\$	262,302	\$	(2,888,946)	
FIRE	\$	390,166	\$	390,166	\$	-	

Total \$171,817,184 \$171,805,236 \$ 11,947

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These corrections resulted in an \$11,947 change in the values, and resulted in a very slight change to Portsmouth's base charge, which is currently \$2.86 per month or \$34.32 per year.

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Q. Please address Mr. Woodcock's second issue related to the asset values.

- A. Mr. Woodcock's second issue with asset values relates to the value of service lines in Newport's system. This disagreement began in Docket 4355, so some history is required:
 - In 2009 Newport filed a COS in Docket 4128.

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• The parties to that Docket – including Portsmouth – reached a settlement agreement whereby Newport delayed the implementation of the COS rates until it collected daily demand data from an agreed upon sample of its customers.

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As part of the Settlement Agreement, the parties developed an Excel Spreadsheet Model ("Newport COS Model") to calculate cost of service based rates once Newport collected the daily demand data.

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 This Newport COS Model included a value of \$75,103,292 for Newport's total fixed assets.

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1 2	•	This asset list did not contain separate values for Meters and Services.
3 4 5	•	Rather, both assets were listed in one category "Meters/Services" – valued at \$2,976,622.
6 7 8 9	•	When the parties settled Docket 4128, Portsmouth did not object to Newport's total asset value, nor did it specifically object to Newport's value for Meters/Services.
10 11 12 13	•	In Docket 4355 (filed in September 2012), Newport sought to implement the Newport COS Model from Docket 4128 using the daily demand data it had collected.
14 15 16 17	•	When Mr. Woodcock filed his direct testimony in Docket 4355, he raised questions about some of Newport's asset values, but not the Meters and Services.
18 19 20	•	Mr. Woodcock did not challenge the Meters and Services values until he filed his rebuttal testimony.
21 22 23	•	In his rebuttal, Mr. Woodcock argued that Newport should value its meters and services separately.
24 25 26	•	The parties in Docket 4355, including Portsmouth, eventually reached a settlement.
27 28 29 30	•	The Joint Settlement Schedules continued to use a combined value for Meters and Services (\$1,838,794) as part of a compromise, and agreed that the values represented "a fair and reasonable compromise given the information available in this docket."
32 33 34	•	Newport also agreed to provide updated asset values "with its next general rate filing."
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1	Q.	Did Newport provide updated, and separate, values for meters and services in this
2		Docket?
3	A.	Yes. As explained in my direct testimony, Newport performed an exhaustive
4		analysis of its asset records to determine accurate asset values. As Mr. Woodcock
5		and the Division acknowledged in Docket 4355, Newport first began combining
6		values for meters and services in 2006. Before that, Newport reported separate
7		valuations for meters and services. According to Newport's fixed asset records, the
8		value for services alone in 2005 was \$2,738,410. Thus, we used this figure as the
9		starting point. Then we added the net value of services installed since 2005 to arrive
10		at the total value of \$3,726,343 for service line assets, and used this number in our
11		rate filing.
12		
13	Q.	Do you agree with Mr. Woodcock's claim that the Docket 4355 Settlement
14		Agreement required Newport to "provide an updated asset valuation list in
15		advance of its next general rate case to allow all parties to, including Portsmouth
16		to review and reach an agreement on the accuracy of the asset listing?"
17	A.	No. The actual language used in the Settlement Agreement is:
18 19 20 21 22		"23. Newport agrees to provide an updated schedule of fixed asset values with its next general rate filing. The Parties will try to determine and agree on the schedule of fixed asset values before or when Newport makes its next filing."
23	Q.	Did Newport provide information pertaining to the asset analysis to
24		representatives of the Navy, the Division and Portsmouth when it filed this rate
25		case?
26	A.	Yes, on December 21, 2015, I sent a memo describing the asset analysis to
27		representatives for the Navy, the Division and Portsmouth. On January 7, 2016,
28		representatives for all parties met via conference call to discuss the analysis. Prior

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1		to the call I sent an updated asset listing to all parties, and Mr. Woodcock
2		responded with a number of questions about the updated asset listing. During the
3		call I described the analysis and presented the updated asset listing that resulted
4		from the analysis. Soon after that call Mr. Woodcock provided additional
5		comments relating to assets that he believed had been improperly assigned.
6		
7	Q.	Did you respond to Mr. Woodcock's questions and comments?
8	A.	I did, and in many cases agreed to make changes based on his input and he was
9		informed that I would make these changes.
10		
11	Q.	Were these changes reflected in the asset values presented with your direct
12		testimony?
13	A.	No, they were not because the application to change rates had already been filed
14		with the Commission, but I have included them in the asset values in the rebuttal
15		schedules submitted with this rebuttal testimony. The largest of these changes was
16		moving approximately \$2.88 million dollars of asset values from the Billing category
17		to the Meters category.
18		
19	Q.	How does the current value of service line assets compare to the value used in
20		Newport's last cost of service filing?
21	A.	As referenced above, in Docket 4355, services and meters were consolidated into
22		one category and the value used in the original filing was \$629,135. In the Docket
23		4355 Settlement Agreement, the combined value for meters and services was
24		increased to \$1,838,794. For this filing, meters and services were separated into
25		two groups. The value for meters is currently \$6,575,750 while the value of services
26		is \$3,726,343, for a combined value of \$10,302,093. This represents an increase in

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1		value for Meters and Services of \$8,463,299 when compared to the final value used
2		in the Docket 4355 Settlement Agreement.
3		
4	Q.	What impact does the significant increase in Meters and Services value have on
5		rates?
6	A.	The increase in the value of Meters and Services means that a much larger portion
7		of Newport's capital costs are recovered through the Base Charge. In Docket 4355,
8		\$327,153 in capital costs were allocated to the Base Charge. In this Docket \$584,570
9		is allocated to the Base Charge. That represents an increase of 79% over the final
10		amount in Docket 4355 and is the reason why the increase in the Base Charges,
11		with the exception of Portsmouth's Base Charge, is significantly higher than the
12		increases to the Volume Charges.
13		
14	Q.	What is Mr. Woodcock's proposal to address his objection to the value of services
15		in Newport's system?
16	A.	Mr. Woodcock proposes to use the Pawtucket Water Supply Board's (PWSB) value
17		for service lines as a proxy for the value of Newport's services.
18		
19	Q.	Do you agree with his suggested approach to estimating the value of Newport's
20		services?
21	A.	I do not. Using this approach would be akin to Providence Water using the value of
22		Newport's treatment facilities as the basis for its allocation of capital costs. There is
23		no data to suggest that the PWSB's value for its services should be substituted for
24		the values developed from Newport's records. Mr. Woodcock did not provide any
25		evidence of how the PWSB developed its value for services, and did not provide any
26		underlying analysis or workpapers that substantiate or explain the PWSB's values.

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1		On the other hand, Newport performed a thorough analysis of its fixed asset
2		records and determined a valuation based on actual data, and not a proxy based on
3		another utility's unexplained values.
4		
5	Q.	How would the allocation of capital costs to the Base Charge change if the value
6		for services was adjusted as Mr. Woodcock suggests?
7	A.	If Newport incorporated Mr. Woodcock's \$6,884,836 value for services in the COS
8		Model submitted with my direct testimony, and no other changes were made, the
9		allocation of capital costs to the Base Charge would be \$783,257, which represents
10		an increase of 140% over the amount of capital costs allocated to the Base Charge
11		in Docket 4355.
12		
13	Q.	What effect would using the PWSB's value for services have on Portsmouth's
14		rates?
15	A.	As set forth in HJS Rebuttal Schedule D-8 A, column B, if Newport incorporated the
16		PWSB's services values into its rebuttal position, and no other change was made to
17		Newport's rebuttal position, Portsmouth's Volume Charge decreases 1%, from a
18		26% increase to a 25% increase, and its billing charge decreases by a penny from
19		\$1.54/month to \$1.53/month. On the other hand, the Base charges for other
20		customers and certain private fire charges increase substantially.
21		
22	Q.	Did Mr. Woodcock raise any other issues with the COS Model you prepared?
23	A.	Yes, he objected to Newport's updated demand factors, Newport's Treatment
24		Facilities Allocator and the time periods Newport used to calculate water use and
25		sales. His testimony on these three subjects reveals the inconsistent nature of
26		Portsmouth's positions.

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1 On the one hand, Mr. Woodcock maintains that because of efforts in previous 2 Dockets, "Portsmouth hoped and expected that this rate filing would not result in 3 continued disagreements about previously resolved issues regarding matters such as cost allocations, [and] customer demands..." (Woodcock Direct, p. 4) Mr. 4 5 Woodcock maintains that Newport should not have developed new demand factors 6 because of the "considerable time and money" spent to derive customer demand 7 data in past Dockets. 8 9 Yet, where changes to the agreed upon Newport COS Model benefit Portsmouth, 10 Mr. Woodcock suggests changes: 11 12 "For treatment capital costs, the Newport Water model applies a 63% allocation 13 to base costs and 37% to Maximum Day. However, according to Newport Water, 14 the treatment plants have a design basis of a combined average day demand of 8 15 MGD and a maximum day of 16 MGD. This data calls for an allocation of 50% of 16 treatment capital costs to base (average day) and 50% to maximum day 17 demands. Although this proposal is a change to the model previously agreed-to 18 by the parties, it is nevertheless proper because the final design and 19 construction basis is now available to correctly allocate these costs." 20 (Woodcock Direct, p. 19, emphasis added) 21 22 "Newport Water used a two year average in some instances and a three-year 23 average in other instances when making this calculation... Newport Water 24 justifies these inconsistencies by pointing out that it is what was done in the 25 settlement model in Docket 4355. (See Portsmouth 1-5 and Portsmouth 2-2) 26 While this may be true, it does not mean that it is correct." (Woodcock Direct, 27 p. 23, emphasis added) 28 29 Thus, Portsmouth acknowledges there are circumstances when the Newport COS 30 Model should be amended, and Newport believes it has done so in conformance with accepted rate making principals. 31

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1	Q.	Please explain Mr. Woodcock's issue with regard to the demand factors used in
2		the COS model?
3	A.	Mr. Woodcock has a number of issues with the customer class demand factors used
4		in the COS Model. He first asserts that Newport used a different methodology to
5		determine retail class demand factors than set forth in the Newport COS Model
6		approved in Docket 4355.
7		
8	Q.	Is he correct?
9	A.	Yes, as described in my direct testimony, and in response to Portsmouth Data
10		Request 1-3, Newport developed demand factors for the retail classes using the
11		methodology in the American Water Works Association Manual M-1, Principles of
12		Water Rates, Fees and Charges (Appendix A), which is the standard industry
13		practice for estimating class peaking factors using monthly billing data.
14		
15	Q.	On page 15 of his testimony, Mr. Woodcock maintains that "Newport Water's
16		decision to simply disregard the time, effort and expense to gather the data
17		needed to correctly calculate demand and instead substitute a less sophisticated
18		theoretical calculation is unjustifiable." Do you agree?
19	A.	No. I do not. Mr. Woodcock repeatedly states that Newport decided to "discard"
20		the demand data it previously developed. That is not the case. Newport merely
21		updated the demand data according to standard industry practice using information
22		previously unavailable to Newport.
23		
24	Q.	Please explain.
25	A.	I changed the methodology for calculating retail demand because Newport now has

monthly billing data that allows it to use the American Water Works Association

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("AWWA") methodology, which is the industry standard for estimating class demand factors. This monthly billing data for the retail classes was not available prior to FY 2015 because Newport did not bill on a monthly basis. In fact, when Newport attempted to apply the AWWA methodology in previous dockets using quarterly and/or tertiary billing data, Mr. Woodcock characterized Newport's efforts as "absurd" in his Docket 3578 direct testimony.

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Q. Why didn't you use the peaking factors from Docket 4355?

Primarily because the peaking factors used in Docket 4355 were based on data gathered in 2011 and 2012 and were somewhat dated. Additionally, the peaking factors used in Docket 4355 were developed based on daily data gathered from samples of the Residential and Non-Residential classes instead of the entire population of each class. The peaking factors for this filing were developed by applying the industry standard methodology to current data gathered from the entire population of the Residential and Non-Residential classes.

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Q. On page 18 of his Direct Testimony, Mr. Woodcock states that "Newport Water should not be permitted...to update some customers, and not others." Did Newport Water fail to update the demand factors for its wholesale customers?

22

20 No. Newport did update the demand factors for Portsmouth and the Navy. 21

23 the wholesale customers?

A. Mr. Woodcock suggests that Newport should have used the methodology in the M-24 25 1 Manual to estimate the demand factors for Portsmouth and the Navy.

Q. Then what objection does Mr. Woodcock have to the updated demand factors for

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1	Q.	Do you agree?
2	A.	No, I do not.
3		
4	Q.	What method did you use to determine the peaking factor for the Navy and
5		Portsmouth?
6	A.	Demand factors for the Navy and Portsmouth were determined using actual daily
7		meter data for each wholesale customer. The first step in the process involved
8		calculating each customer's average daily demand by dividing total annual demand
9		during a fiscal year by 365 days. The next step was to identify the maximum day for
10		each customer. Once the maximum day is determined, the maximum day demand
11		factor is calculated by dividing the maximum day volume by the average day
12		volume. As previously mentioned, the re-calculation of the Navy demand factors
13		was modified would exclude consumption that occurred during a main break event
14		in the Navy system.
15		
16	Q.	Is the approach used to determine demand factors for the Navy and Portsmouth
17		less accurate than the method used to determine the retail class demand factors?
18	A.	No. In fact, the approach used for the Navy and Portsmouth is <i>more</i> accurate
19		because it uses the customer's actual maximum day demand as the basis for
20		calculating the demand factor.
21		
22	Q.	If the approach used for the wholesale customer is more accurate, why was it not
23		used for the retail classes?
24	A.	Because daily demand data for the entire retail classes is not available.
25		

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1 Q. Did Mr. Woodcock express any other concerns regarding the demand factors? 2 A. Yes, he claims that I misapplied the AWWA methodology by using system demand data from 2013 and customer billing data from 2015, and he also claims I applied 3 4 weekly usage adjustment factors during the development of retail class peaking 5 factors "...without any basis for doing so..." 6 7 Q. Are these claims correct? 8 No, they are not. The AWWA methodology requires the use of system data and 9 billing data to determine demand factors. As I stated in my response to 10 Portsmouth's Data Request 1-3, the AWWA M-1 Manual states: 11 12 "The system-wide demand data that are necessary to undertake the analysis 13 include: (1) the highest ratio of system maximum day (MD) demand to system 14 average day (AD) demand over a representative number of years (2) the system 15 maximum month (Max month or MM) for that highest year; and (3) the system 16 maximum hour demand for that year." (Emphasis added) 17 18 I used the ratio from 2013 because it had the highest ratio of max day demand to average demand – a factor of 1.71. If I used the ratio from 2015 in combination with 19 20 the billing data from 2015, it would have been lower (1.56). 21 22 With regard to Mr. Woodcock's claim that weekly adjustment factors were 23 misapplied, the following excerpt from the M-1 Manual clearly states that an adjustment should be applied or the resulting peaking factors will likely understate 24 25 class maximum day demand. 26 27 "The ratio of the overall system coincident maximum day demand (11.55 mgd) 28 to the average daily demand for the system maximum month (8.60 mgd) [11.55 29 mgd/8.60 mgd = 1.34] is an indication of the potential relationship between 30 these two demands for each of the retail customer classes for the example

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utility. It must be recognized, however, that daily and weekly fluctuations throughout the month of maximum consumption for each customer class do occur. These variations would tend to understate the actual maximum daily demand for the class that occurs during the maximum month if only the 1.34 factor applicable to the system were applied to the maximum month ratios developed above for each class. Accordingly, there should be an allowance for such fluctuations factored into the calculation of the maximum day peaking factor for each class." (AWWA Manual M-1 page 316, emphasis added) Q. On page 16 of his testimony, Mr. Woodcock maintains that Newport should not have used a weekly adjustment factor for residential and non-residential customers, and that Newport admitted that there was very little variation in demand for these two classes of customers. Do you agree? No. Mr. Woodcock is correct that my response to Portsmouth's Data Request 1-4 stated that the data gathered for the Daily Demand Study in 2011 and 2012 indicated very little daily variability of demand for the Residential and Non-Residential class. However, we are not using the data from the 2011/2012 Daily Demand Study in this Docket, we are using the AWWA methodology. Thus, the use of an adjustment factor is justified. I also explained in this response that "It would not be appropriate to apply weekly adjustment factors to the Navy and Portsmouth because their peaks were determined based on daily data such that the actual relationship between the Max Day and Average Day is known." Furthermore, the application of this adjustment factor resulted in a slightly higher allocation of costs to the retail classes than if no adjustment were applied. When no adjustment is applied, the wholesale customers, who are already seeing a large increase in rates, are allocated a larger portion of costs which results in even greater rate increases. So despite Mr. Woodcock's assertion that Newport's COS

Model "...disadvantages Portsmouth and its customers and benefits Newport

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1		Water's retail customers" the application of weekly adjustment factors actually
2		benefits the wholesale customers, including Portsmouth.
3		
4	Q.	Do you agree with Mr. Woodcock that the demand factors from Docket 4355
5		should be used for this filing?
6	A.	I do not. The demand factors for all customer classes used in the COS Model for
7		this filing were developed according to standard industry practice and using the
8		best available data. Mr. Woodcock's claims that " in every case where Newport
9		Water introduces a new method in its rate calculation, the new method always
10		penalizes Portsmouth and benefits Newport Water's retail rate payers."
11		
12		Incorporating Newport's demand factors instead of Mr. Woodcock's has very little
13		effect on Portsmouth's rates, but they negatively impact Public Fire Protection and
14		Private Fire Protection customers. Thus, Newport's demand factors are not
15		designed to "penalize" Portsmouth.
16		
17	Q.	What is the impact on Portsmouth's rates if you incorporate Mr. Woodcock's
18		demand factors?
19	A.	As set forth in HJS Rebuttal Schedule D-8 A, column C, if Newport incorporated Mr.
20		Woodcock's demand factors into its rebuttal position, and no other change was
21		made to Newport's rebuttal position, the increase to Portsmouth's Volume Charge
22		is negligible, from \$6.4848 per thousand gallons to a \$6.4915 per thousand gallons
23		but the fire protection charges increase substantially.
24		

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1	Q.	Please explain Mr. Woodcock's issue with the inconsistent time periods used to
2		calculate water use and sales?
3	A.	Mr. Woodcock identifies several instances where averages used to project demand
4		or develop demand factors are based on different time periods. Specifically, he
5		asserts that:
6		• Rate Year demand projections are based on the average demand during the two
7		previous fiscal years for which actual data is available.
8		• On HJS B7, the maximum day factor is based on one year (2013 – the highest
9		value) but the maximum hour is based on an average of 2014-2015;
10		• The Navy and Portsmouth maximum day values are based only on FY 2015;
11		• The allocation of lost water is based on projected Rate Year sales, but the
12		projection of lost water in the Rate Year is based on a three year average.
13		
14		In general, the time periods for which this data was used in the COS Model are the
15		same as those used in the Newport COS Model the parties agreed to in Dockets
16		4128 and 4355. A two year average of historical water sales was used to project
17		rate year demand in Docket 4355, and a two year average is used in the current
18		COS Model. In Docket 4355, the projection of lost water was based on a three year
19		average of historical lost water, and lost water projections in the current COS model
20		are based on a three year average.
21		
22		With regard to the data used in developing demand factors, since the demand
23		factors used in the current COS model were developed differently than those used
24		in Docket 4355 it was necessary to establish a new convention for the use of data.
25		While for reasons described above the system data used to determine the peaking
26		factors for the retail classes is from 2013, in all cases 2015 water sales data is used.

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The peaking factors for the Navy and Portsmouth are based on 2015 data and the billing data used in the derivation of retail class demand factors is from 2015. As such, the inconsistent time periods Mr. Woodcock alludes to are in fact nonexistent. The time periods are either consistent with those used in Docket 4355, or are consistent between customer classes when the current approach differs from that used in Docket 4355.

Q. Please explain Mr. Woodcock's issue with regard to errors on Schedule B-1?

Mr. Woodcock identified some misaligned cost line item labels on page 22 of the schedules submitted with my direct testimony. This misalignment has no impact on the calculation of rates and the labels have been aligned properly. Mr. Woodcock also identified that electricity costs at Station 1 and Lawton Valley had not been excluded from the Non-Administrative costs used to develop the cost allocation factors for a number of the administrative costs. Electricity costs at Station 1 and Lawton Valley were not excluded in Newport COS Model developed in in Dockets 4128 and 4355; therefore, their exclusion is not a deviation from the approved Newport COS Model. However, a review of testimony from these two dockets did not reveal any reason for including these expenses so my rebuttal COS Model excludes these costs when developing the allocation factor.

Q. Please explain Mr. Woodcock's issue with regard to miscellaneous revenue?

A. Mr. Woodcock mentions that he requested additional detail regarding Newport's proposed miscellaneous revenue two days before he filed his direct testimony. In its timely response to Portsmouth's third set of data requests, Newport agreed that Newport's projections of miscellaneous revenue in the rate year should be revised. The COS model included with this testimony incorporates the revised projections.

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1	Q.	Please explain Mr. Woodcock's issue regarding Newport's projection of rate year
2		water demand for the Residential class?
3	A.	Mr. Woodcock points out that the historical water sales data for the Residential
4		class in FY 2015 includes sales reflected in a quarterly bill sent to this class in July of
5		2014. As a result, the historical demand for the Residential class in FY 2015 includes
6		water that was actually used in FY 2014. To correct this problem Mr. Woodcock
7		replaced the value for July 2014 with the billed volume for the Residential class in
8		July of 2015.
9		
10	Q.	Do you agree with this revision?
11	A.	I do, and the COS model included with this testimony includes that revision.
12		
13	Q.	Are there any other issues that were raised by Mr. Woodcock?
14	A.	No.
15		
16	Q.	Do you have any final comments on Mr. Woodcock's proposed revisions?
17	A.	Yes. As referenced above, I prepared HJS Schedule D-8 A to show the individual
18		effect of incorporating Mr. Woodcock's suggestions regarding service values and
19		demand factors on Newport's Rebuttal position. In addition, the last column on HJS
20		Schedules D-8 A shows the combined effect of these suggested changes on
21		Newport's Rebuttal position.
22		
23		These changes have very little effect on Portsmouth's rates, but would dramatically
24		increase the base charges and fire protection charges. It is Newport's position that
25		its rebuttal rates in Column A of HJS Schedule D-8A Rebuttal are far more equitable

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1	t	o <i>all</i> classes of customers, especially if Newport revises the Navy's max day
2	c	onsumption. Thus, the Commission should not accept Mr. Woodcock's revisions
3		
4	<u>V. C</u>	ONCLUSION
5	Q.	Do you recommend that the Commission approve the rates proposed in your
6		rebuttal schedules that are attached to your testimony?
7	A.	Yes I do. The resulting rates and charges are just and reasonable, reflect the
8		current and anticipated demands of each customer or customer class, and
9		should serve to keep Newport on sound financial footing.
10		
11	Q:	Does this conclude your testimony?
12	A:	Yes it does.

CERTIFICATION

I hereby certify that on June 3, 2016, I sent a copy of the within to all parties set forth on the attached Service List by electronic mail and copies to Luly Massaro, Commission Clerk, by electronic mail and regular mail.

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Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing

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HJS Schedule D-2 Rebuttal Fire Protection Accounts

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Expense Detail - Fire Protection

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule A-1A Rebuttal Revenue Requirements

				Test Year					_		
		Test Year		Normalizing		Normalized		Rate Year		Proposed Rate	
Account		(FY2015)	1	Adjustments		Test Year		Adjustments	Year	- FY2017	
O&M COSTS											
Administration 50001	Salaries & Wages	\$ 262,222	\$		خ	262,222	\$	19,360	\$	281,582	
30001	AFSCME retro	3 202,222	\$		\$ \$	202,222	\$	19,500	Ş	201,302	
	NEA retro		\$		\$	_	\$	_		_	
	AFSCME benefits on retro pay		\$		\$	_	\$	_		_	
	NEA benefits on retro pay	_	Ś		\$	_	\$	_		_	
50044	Standby Salaries	12,528	\$		\$	12,528	\$	6,192		18,720	
50520	Accrued Benefits Buyout	15,500	\$		\$	15,500	\$	43,500		59,000	
50100	Employee Benefits	110,408	\$		\$	110,408	\$	8,649		119,057	
50103	Retiree Insurance Coverage	351,563	\$		\$	351,563	\$	18,437		370,000	
50105	Workers Compensation	59,456	\$		\$	59,456	\$	4,544		64,000	
50175	Annual Leave Buyback	3,260	\$		\$	3,260	\$	40		3,300	
50207	Advertisement	4,041	\$		\$	4,041	\$	4,959		9,000	
50210	Membership Dues & Subscriptions	4,447	\$		\$	4,447	\$	(1,947)		2,500	
50212	Conferences & Training	868	\$		\$	868	\$	3,132		4,000	
50214	Tuition Reimbursement	_	\$		\$	-	\$	2,000		2,000	
50220	Consultant Fees	210,410	\$		\$	210,410	\$	(5,410)		205,000	
50238	Postage	360	\$		\$	360	\$	640		1,000	
50239	Fire & Liability Insurance	16,853	\$		\$	16,853	\$	50.147		67,000	
50251	Telephone & Communication	5,569	\$		\$	5,569	\$	31		5,600	
50305	Water	1,275	\$		\$	1,275	\$	740		2,015	
50306	Electricity	10,121	\$		\$	10,121	\$	(2,165)		7,956	
50307	Natural Gas	5,918	\$		\$	5,918	\$	(692)		5,226	
50308	Property Taxes	464,200	\$		\$	464,200	\$	104,843		569,043	
50266	Legal & Administrative	101,200	\$		\$	-10-1,2-00	\$	10-1,0-15		303,013	
30200	Audit Fees	4,349	\$		\$	4,349	\$	(116)		4,233	
	OPEB Contribution	1,515	\$		\$	-1,5-15	\$	19,200		19,200	
	City Council	4,649	\$		\$	4,649	\$	1,075		5,724	
	City Clerk	3,381	\$		\$	3,381	\$	(401)		2,980	
	City Manager	54,131	\$		\$	54,131	\$	7,347		61,478	
	Human Resources	30,121	\$		\$	30,121	\$	3,737		33,858	
	City Solicitor	20,459	\$		\$	20,459	\$	3,203		23,662	
	Finance Adimistrative 50%	19,822	\$		\$	19,822	\$	7,432		27,254	
	Finance Adimistrative 5%	7,020	\$		\$	7,020	\$	(4,743)		2,277	
	Finance Admin 10% Inv/Debt	7,020	Ś	_	\$	-,020	ς	(-1,7-15)		_,_,,	
	Purchasing	18,314	\$	_	\$	18,314	\$	(1,054)		17,260	
	Assessment	10,514	7		7	10,514	~	(1,03-1)		14,561	
	Collections	46,979	\$	_	\$	46,979	\$	773		47,752	
	75543 Accounting - Wires - 5%	10,679	\$		\$	10,679	\$	2,059		12,738	
	Accounting	70,516	\$		\$	70,516	\$	(3,125)		67,391	
	Facilities Maintenance	13,266	\$		\$	13,266	\$	15,893		29,159	
50267	Data Processing	143,888	Ś		Ś	143,888	Ś	28,336		172,224	
50268	Mileage Allowance	875	Ś	_	\$	875	\$	1,125		2,000	
50271	Gasoline & Vehicle Allowance	9,354	Ś	_	\$	9,354	ς	(3,965)		5,389	
50275	Repairs & Maintenance		¢	_	\$		Ś	1,200		1,200	
50280	Regulatory Expense	590	\$	_	\$	590	\$	4,410		5,000	
50281	Regulatory Assessment	79,698	¢	_	\$	79,698	Ś	302		80,000	
50361	Office Supplies	14,469	¢		\$	14,469	¢	531		15,000	
50505	Self Insurance	118	¢		\$	118	\$	4,882		5,000	
50515	Unemployment Claims	110	\$		\$	- 110	Ś	-,002			
50515	Subtotal:	\$ 2,091,677	\$		\$	2,091,677	\$	345,102	\$	2,451,341	
	Justotui.	7 2,031,077	۲		٠,	-,001,011	7	373,102	7	_, _, _, _,	

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule A-1A Rebuttal Revenue Requirements

Test Year Normalizing Normalizing Fest Year Adjustments Fest Year Adjustments Year + P72017					Test Year						
South Salaries Wages S. 263,080 S. S. 263,080 S. S. 263,080 S. S. 309,310											•
South Salaries & Wages \$ 263,080 \$ - \$ 263,080 \$ 46,230 \$ 309,310		•	_ (FY2015)	Adjustments	1	est Year	Α	djustments	Ye	ar - FY2017
Sono			خ	262 000	خ	خ	262 000	ċ	46 220	ċ	200 210
Collections		<u> </u>	Ş				,		,	Ş	
Section Sect	30002			110			110		3,233		3,403
Source of Supply - Island	E0004			10 021	'	ç	10 021	'	(2.055)		14.076
501100 Employee Benefits		•		10,031			10,031		(3,633)		14,970
50120		• • •		1/0/125			1/0/25		41 270		100 905
Sol175				•			,		,		
S0205		, ,		-							
Source of Supply - Island Subtotal:		•		•	'		•		, ,		,
Source of Supply - Island		., .			Y				, ,		
So238		•		(/			. ,				-,
So271 Gasoline & Vehicle Allowance 39,667 \$ \$ \$ \$ \$ \$ \$ \$ \$		• •					•		, , ,		
50275 Repairs & Maintenance 33,449 \$ - \$ \$ 33,449 \$ 1,551 35,000 50299 Meter Maintenance 7,734 \$ - \$ \$ 7,734 \$ 2,266 10,000 50310 Operating Supplies 3,658 \$ - \$ 957 \$ 43 1,000 50320 Uniforms & protective Gear 957 \$ - \$ 166 \$ 4,834 5,000 50380 Customer Service Supplies 166 \$ - \$ 166 \$ 4,834 5,000 Subtotal: \$ 625,632 \$ - \$ 166 \$ 4,834 5,000 Source of Supply - Island 50001 Salaries & Wages \$ 321,324 \$ - \$ 321,324 \$ (11,374) \$ 309,950 50002 Overtime 36,123 \$ - \$ 36,123 \$ (11,374) \$ 309,950 50004 Temp Salaries \$ - \$ \$ 36,123 \$ (11,374) \$ 309,950 50105 Enployee Benefits 185,081 \$ - \$ \$ 36,123 \$ (11,374) \$ 309,950 50175 Annual Leave Buyback 3,783 \$ - \$ \$ 185,081 \$ (9,431) 175,655 <				-					•		
Source of Supply - Island Subtotal:				,			•		. , ,		,
Solati		•		-	7				•		
Source of Supply - Island Source of Supplies Source of Supplies Source of Supply - Island Source of Supp							•		,		,
Subtotal: Subt		. •		•			•		,		
Source of Supply - Island Salaries & Wages \$ 321,324 \$ - \$ 321,324 \$ (11,374) \$ 309,950 50002 Overtime 36,123 \$ - \$ 36,123 \$ (3,123) 33,000 50004 Temp Salaries - \$ 5 - \$ 5 - \$ 26,180 26,180 50056 Injury Pay - \$ 5 - \$ 5 - \$ 26,180 26,180 50100 Employee Benefits 185,081 \$ - \$ 185,081 \$ (9,431) 175,650 50175 Annual Leave Buyback 3,783 \$ - \$ 3,783 \$ 17 3,800 50306 Electricity 38,527 \$ - \$ 38,527 \$ 11,333 49,880 50271 Gas/Vehicle Maintenance 63,620 \$ (4,341) 59,279 50275 Repairs & Maintenance 11,633 \$ - \$ 16,236 (4,341) 59,279 50277 Reservoir Maintenance 16,236 \$ - \$ 16,236 (236) 16,000 50311 Operating Supplies 2,802 \$ - \$ 2,802 \$ 4,698 7,500 50320 Uniforms & protective Gear 935 \$ - \$ 72,671 \$ (5,871) <td></td>											
Source of Supply - Island Source of Supply - Mainland Source of Supply - Reservoir Maintenance 14,200 Source Belectricity Source Source Reservoir Maintenance Source Bush Source Bus	50380	• •	_					_		_	
50001 Salaries & Wages \$ 321,324 \$ - \$ 321,324 \$ (11,374) \$ 309,950 50002 Overtime 36,123 \$ - \$ 36,123 \$ (3,123) 33,000 50004 Temp Salaries - \$ - \$ - \$ - \$ 26,180 26,180 50056 Injury Pay - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$		Subtotal:	Ş	625,632	\$ -	Ş	625,632	Ş	105,468	Ş	731,100
50001 Salaries & Wages \$ 321,324 \$ - \$ 321,324 \$ (11,374) \$ 309,950 50002 Overtime 36,123 \$ - \$ 36,123 \$ (3,123) 33,000 50004 Temp Salaries - \$ - \$ - \$ - \$ 26,180 26,180 50056 Injury Pay - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$											
50002 Overtime 36,123 \$ - \$ 36,123 \$ (3,123) 33,000 50004 Temp Salaries - \$ - \$ - \$ 26,180 26,180 50056 Injury Pay - \$ - \$ - \$ -		•	١.			١.		١.		١.	
50004 Temp Salaries - \$ - \$ 26,180 26,180 50056 Injury Pay - \$ - \$ - \$ -		· ·	\$				•		. , ,	Ş	,
50056 Injury Pay - \$ - \$ - \$ - \$ 185,081 \$ - \$ 185,081 \$ (9,431) 175,650 50175 Annual Leave Buyback 3,783 \$ - \$ 3,783 \$ 17 3,800 5020 \$ - \$ 3,8527 \$ 1,1353 49,880 50271 Gas/Vehicle Maintenance 63,620 \$ - \$ 63,620 \$ (4,341) 59,279 50275 Repairs & Maintenance 11,633 \$ - \$ 11,633 \$ (1,633) 10,000 50277 Reservoir Maintenance 16,236 \$ - \$ 16,236 \$ (236) 16,000 50311 Operating Supplies 2,802 \$ - \$ 16,236 \$ (236) 16,000 50320 Uniforms & protective Gear 935 \$ - \$ 79,575 1,510 50320 Chemicals 72,671 \$ - \$				36,123			36,123				
50100 Employee Benefits 185,081 \$ - \$ 185,081 \$ (9,431) 175,650 50175 Annual Leave Buyback 3,783 \$ - \$ 3,783 \$ 17 3,800 50306 Electricity 38,527 \$ - \$ 38,527 \$ 11,353 49,880 50271 Gas/Vehicle Maintenance 63,620 \$ - \$ 63,620 \$ (4,341) 59,279 50275 Repairs & Maintenance 11,633 \$ - \$ 11,633 \$ (1,633) 10,000 50277 Reservoir Maintenance 16,236 \$ - \$ 16,236 \$ (236) 16,000 50311 Operating Supplies 2,802 \$ - \$ 2,802 \$ 4,698 7,500 50320 Uniforms & protective Gear 935 \$ - \$ 935 \$ 575 1,510 50335 Chemicals 72,671 \$ - \$ 72,671 \$ (5,871) 66,800 Subtotal: \$ 752,735 \$ - \$ 13,513 \$ (1,903) \$ 11,610 50002 Overtime \$ 13,513 \$ - \$ 13,513 \$ (1,903) \$ 11,610 50005 Permanent Part time 14,		•		-	Y		-		26,180		26,180
50175 Annual Leave Buyback 3,783 \$ - \$ 3,783 \$ 17 3,800 50306 Electricity 38,527 \$ - \$ 38,527 \$ 11,353 49,880 50271 Gas/Vehicle Maintenance 63,620 \$ - \$ 63,620 \$ (4,341) 59,279 50275 Repairs & Maintenance 11,633 \$ - \$ 11,633 \$ (1,633) 10,000 50277 Reservoir Maintenance 16,236 \$ - \$ 16,236 \$ (236) 16,000 50311 Operating Supplies 2,802 \$ - \$ 16,236 \$ (2,602) \$ 4,698 7,500 50320 Uniforms & protective Gear 935 \$ - \$ 935 \$ 575 1,510 50335 Chemicals 72,671 \$ - \$ 72,671 \$ (5,871) 66,800				-			-				-
50306 Electricity 38,527 \$ - \$ 38,527 \$ 11,353 49,880 50271 Gas/Vehicle Maintenance 63,620 \$ - \$ 63,620 \$ (4,341) 59,279 50275 Repairs & Maintenance 11,633 \$ - \$ 11,633 \$ (1,633) 10,000 50277 Reservoir Maintenance 16,236 \$ - \$ 16,236 \$ (236) 16,000 50311 Operating Supplies 2,802 \$ - \$ 2,802 \$ 4,698 7,500 50320 Uniforms & protective Gear 935 \$ - \$ 935 \$ 575 1,510 50335 Chemicals 72,671 \$ - \$ 72,671 \$ (5,871) 66,800 Subtotal: \$ 752,735 \$ - \$ 752,735 \$ 6,814 \$ 759,549 Source of Supply - Mainland \$ \$ 13,513 \$ - \$ 13,513 \$ (1,903) \$ 11,610 50		• •		•		\$	•				
50271 Gas/Vehicle Maintenance 63,620 \$ - \$ 63,620 \$ (4,341) 59,279 50275 Repairs & Maintenance 11,633 \$ - \$ 11,633 \$ (1,633) 10,000 50277 Reservoir Maintenance 16,236 \$ - \$ 16,236 \$ (236) 16,000 50311 Operating Supplies 2,802 \$ - \$ 2,802 \$ 4,698 7,500 50320 Uniforms & protective Gear 935 \$ - \$ 935 \$ 575 1,510 50335 Chemicals 72,671 \$ - \$ 72,671 \$ (5,871) 66,800 Subtotal: \$ 752,735 \$ - \$ 752,735 \$ 6,814 \$ 759,549 Source of Supply - Mainland 50002 Overtime \$ 13,513 \$ - \$ 13,513 \$ (1,903) \$ 11,610 50004 Temp Salaries 18,784 \$ - \$ 18,784 \$ 11,212		•									,
50275 Repairs & Maintenance 11,633 \$ - \$ 11,633 \$ (1,633) 10,000 50277 Reservoir Maintenance 16,236 \$ - \$ 16,236 \$ (236) 16,000 50311 Operating Supplies 2,802 \$ - \$ 2,802 \$ 4,698 7,500 50320 Uniforms & protective Gear 935 \$ - \$ 935 \$ 575 1,510 50335 Chemicals 72,671 \$ - \$ 72,671 \$ (5,871) 66,800 Subtotal: \$ 752,735 \$ - \$ 752,735 \$ 6,814 \$ 759,549 Source of Supply - Mainland \$ 13,513 \$ - \$ 13,513 \$ (1,903) \$ 11,610 50002 Overtime \$ 13,513 \$ - \$ 13,513 \$ (1,903) \$ 11,610 50004 Temp Salaries 18,784 \$ - \$ 13,784 \$ 11,212 29,996 50005 Permanent Part time 14,200 \$ - \$ 14,200 \$ (1,300) 12,900 50100 Employee Benefits 6,453 \$ - \$ 6,453 \$ (3,928) 2,525 50306 Electricity 122,917 <t< td=""><td></td><td>•</td><td></td><td>•</td><td></td><td></td><td></td><td></td><td>,</td><td></td><td></td></t<>		•		•					,		
50277 Reservoir Maintenance 16,236 \$ - \$ 16,236 \$ (236) 16,000 50311 Operating Supplies 2,802 \$ - \$ 2,802 \$ 4,698 7,500 50320 Uniforms & protective Gear 935 \$ - \$ 935 \$ 575 1,510 50335 Chemicals 72,671 \$ - \$ 72,671 \$ (5,871) 66,800 Subtotal: 72,671 \$ - \$ 72,671 \$ (5,871) 66,800 Source of Supply - Mainland Subtotal: *** 752,735 \$ - \$ 13,513 \$ (1,903) \$ 11,610 Source of Supply - Mainland *** 13,513 \$ - \$ 13,513 \$ (1,903) \$ 11,610 Source of Supply - Mainland *** 18,784 \$ - \$ 13,784 <td< td=""><td></td><td>•</td><td></td><td>•</td><td></td><td></td><td>•</td><td></td><td>, , ,</td><td></td><td>,</td></td<>		•		•			•		, , ,		,
50311 Operating Supplies 2,802 \$ - \$ 2,802 \$ 4,698 7,500 50320 Uniforms & protective Gear 935 \$ - \$ 935 \$ 575 1,510 50335 Chemicals 72,671 \$ - \$ 72,671 \$ (5,871) 66,800 Subtotal: \$ 752,735 \$ - \$ 752,735 \$ 6,814 \$ 759,549 Source of Supply - Mainland 50002 Overtime \$ 13,513 \$ - \$ 13,513 \$ (1,903) \$ 11,610 50004 Temp Salaries 18,784 \$ - \$ 18,784 \$ 11,212 29,996 50005 Permanent Part time 14,200 \$ - \$ 14,200 \$ (1,300) 12,900 50100 Employee Benefits 6,453 \$ - \$ 6,453 \$ (3,928) 2,525 50306 Electricity 122,917 \$ - \$ 122,917 \$ 31,507 154,424 50275 Repairs & Maintenance 13,908 \$ - \$ 13,908 \$ (6,908) 7,000 50211 Operating Supplies 236 \$ - \$ 236 764 1,000		•		•			•				
50320 Uniforms & protective Gear 935 \$ - \$ 935 \$ 575 1,510 50335 Chemicals 72,671 \$ - \$ 72,671 \$ (5,871) 66,800 Subtotal: \$ 752,735 \$ - \$ 752,735 \$ 6,814 \$ 759,549 Source of Supply - Mainland 50002 Overtime \$ 13,513 \$ - \$ 13,513 \$ (1,903) \$ 11,610 50004 Temp Salaries 18,784 \$ - \$ 18,784 \$ 11,212 29,996 50005 Permanent Part time 14,200 \$ - \$ 14,200 \$ (1,300) 12,900 50100 Employee Benefits 6,453 \$ - \$ 6,453 \$ (3,928) 2,525 50306 Electricity 122,917 \$ 122,917 \$ 31,507 154,424 50275 Repairs & Maintenance 13,908 \$ - \$ 13,908 \$ (6,908) 7,000 50277 Reservoir Maintenance - \$ - \$ - \$ 4,500 4,500 50311									, ,		
Source of Supply - Mainland \$ 72,671 \$ - \$ 72,671 \$ 66,800 50002 Overtime \$ 13,513 \$ - \$ 13,513 \$ (1,903) \$ 11,610 50004 Temp Salaries 18,784 \$ - \$ 18,784 \$ 11,212 29,996 50000 Permanent Part time 14,200 \$ - \$ 14,200 \$ (1,300) 12,900 50100 Employee Benefits 6,453 \$ - \$ 6,453 \$ (3,928) 2,525 50306 Electricity 122,917 \$ - \$ 122,917 \$ 31,507 154,424 50275 Repairs & Maintenance 13,908 \$ - \$ 13,908 \$ (6,908) 7,000 50277 Reservoir Maintenance - \$ - \$ - \$ - \$ - \$ 4,500 4,500 4,500 50311 Operating Supplies 236 \$ - \$ 236 \$ 764 1,000	50311	Operating Supplies					•		4,698		7,500
Source of Supply - Mainland \$ 752,735 \$ - \$ 752,735 \$ \$ 6,814 \$ \$ 759,549 Source of Supply - Mainland \$ 13,513 \$ - \$ 13,513 \$ (1,903) \$ 11,610 50004 Temp Salaries 18,784 \$ - \$ 18,784 \$ 11,212 29,996 50005 Permanent Part time 14,200 \$ - \$ 14,200 \$ (1,300) 12,900 50100 Employee Benefits 6,453 \$ - \$ 6,453 \$ (3,928) 2,525 50306 Electricity 122,917 \$ - \$ 122,917 \$ 31,507 154,424 50275 Repairs & Maintenance 13,908 \$ - \$ 13,908 \$ (6,908) 7,000 50277 Reservoir Maintenance - \$ 5 - \$ 5 - \$ 4,500 4,500 4,500 50311 Operating Supplies 236 \$ - \$ 236 \$ 764 1,000	50320	Uniforms & protective Gear		935			935	\$	575		1,510
Source of Supply - Mainland \$ 13,513 \$ - \$ 13,513 \$ (1,903) \$ 11,610 50004 Temp Salaries 18,784 \$ - \$ 18,784 \$ 11,212 29,996 50005 Permanent Part time 14,200 \$ - \$ 14,200 \$ (1,300) 12,900 50100 Employee Benefits 6,453 \$ - \$ 6,453 \$ (3,928) 2,525 50306 Electricity 122,917 \$ - \$ 122,917 \$ 31,507 154,424 50275 Repairs & Maintenance 13,908 \$ - \$ 13,908 \$ (6,908) 7,000 50277 Reservoir Maintenance - \$ - \$ - \$ - \$ 4,500 4,500 50311 Operating Supplies 236 \$ - \$ 236 \$ 764 1,000	50335	Chemicals			•				. , ,		,
50002 Overtime \$ 13,513 \$ - \$ 13,513 \$ (1,903) \$ 11,610 50004 Temp Salaries 18,784 \$ - \$ 18,784 \$ 11,212 29,996 50005 Permanent Part time 14,200 \$ - \$ 14,200 \$ (1,300) 12,900 50100 Employee Benefits 6,453 \$ - \$ 6,453 \$ (3,928) 2,525 50306 Electricity 122,917 \$ - \$ 122,917 \$ 31,507 154,424 50275 Repairs & Maintenance 13,908 \$ - \$ 13,908 \$ (6,908) 7,000 50277 Reservoir Maintenance - \$ - \$ - \$ - \$ 4,500 4,500 50311 Operating Supplies 236 \$ - \$ 236 \$ 764 1,000		Subtotal:	\$	752,735	\$ -	\$	752,735	\$	6,814	\$	759,549
50002 Overtime \$ 13,513 \$ - \$ 13,513 \$ (1,903) \$ 11,610 50004 Temp Salaries 18,784 \$ - \$ 18,784 \$ 11,212 29,996 50005 Permanent Part time 14,200 \$ - \$ 14,200 \$ (1,300) 12,900 50100 Employee Benefits 6,453 \$ - \$ 6,453 \$ (3,928) 2,525 50306 Electricity 122,917 \$ - \$ 122,917 \$ 31,507 154,424 50275 Repairs & Maintenance 13,908 \$ - \$ 13,908 \$ (6,908) 7,000 50277 Reservoir Maintenance - \$ - \$ - \$ - \$ 4,500 4,500 50311 Operating Supplies 236 \$ - \$ 236 \$ 764 1,000											
50004 Temp Salaries 18,784 \$ - \$ 18,784 \$ 11,212 29,996 50005 Permanent Part time 14,200 \$ - \$ 14,200 \$ (1,300) 12,900 50100 Employee Benefits 6,453 \$ - \$ 6,453 \$ (3,928) 2,525 50306 Electricity 122,917 \$ - \$ 122,917 \$ 31,507 154,424 50275 Repairs & Maintenance 13,908 \$ - \$ 13,908 \$ (6,908) 7,000 50277 Reservoir Maintenance - \$ - \$ - \$ - \$ 4,500 4,500 50311 Operating Supplies 236 \$ - \$ 236 \$ 764 1,000		•	١.			١.		١.		١.	
50005 Permanent Part time 14,200 \$ - \$ 14,200 \$ (1,300) 12,900 50100 Employee Benefits 6,453 \$ - \$ 6,453 \$ (3,928) 2,525 50306 Electricity 122,917 \$ - \$ 122,917 \$ 31,507 154,424 50275 Repairs & Maintenance 13,908 \$ - \$ 13,908 \$ (6,908) 7,000 50277 Reservoir Maintenance - \$ - \$ - \$ 4,500 4,500 50311 Operating Supplies 236 \$ - \$ 236 \$ 764 1,000			\$				•		,	\$,
50100 Employee Benefits 6,453 \$ - \$ 6,453 \$ (3,928) 2,525 50306 Electricity 122,917 \$ - \$ 122,917 \$ 31,507 154,424 50275 Repairs & Maintenance 13,908 \$ - \$ 13,908 \$ (6,908) 7,000 50277 Reservoir Maintenance - \$ - \$ - \$ 4,500 4,500 50311 Operating Supplies 236 \$ - \$ 236 \$ 764 1,000		•		•			•		,		
50306 Electricity 122,917 \$ - \$ 122,917 \$ 31,507 154,424 50275 Repairs & Maintenance 13,908 \$ - \$ 13,908 \$ (6,908) 7,000 50277 Reservoir Maintenance - \$ - \$ - \$ 4,500 4,500 50311 Operating Supplies 236 \$ - \$ 236 \$ 764 1,000				-				-			
50275 Repairs & Maintenance 13,908 \$ - \$ 13,908 \$ (6,908) 7,000 50277 Reservoir Maintenance - \$ - \$ - \$ 4,500 4,500 50311 Operating Supplies 236 \$ - \$ 236 \$ 764 1,000							•		, , ,		,
50277 Reservoir Maintenance - \$ - \$ - \$ 4,500 4,500 50311 Operating Supplies 236 \$ - \$ 236 \$ 764 1,000		•							•		-
50311 Operating Supplies 236 \$ - \$ 236 \$ 764 1,000				13,908			13,908				
				-			-		•		
Subtotal: \$ 190,011 \$ - \$ 190,011 \$ 33,944 \$ 223,955	50311	. •									
		Subtotal:	\$	190,011	\$ -	\$	190,011	\$	33,944	\$	223,955

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule A-1A Rebuttal Revenue Requirements

				Test Year						
			est Year	Normalizing	N	lormalized		Rate Year		oposed Rate
Account		(FY2015)	Adjustments		Test Year		Adjustments	Ye	ar - FY2017
Station One										
50001	Salaries & Wages	\$	519,694	\$ -	\$	519,694	\$	(8,619)	\$	511,075
50002	Overtime		110,009	\$ -	\$	110,009	\$	(7,069)		102,940
50003	Holiday Pay		18,936	\$ -	\$	18,936	\$	3,096		22,032
50045	Lead Plant Operator Stipend		6,627	\$ -	\$	6,627	\$	5,853		12,480
50100	Employee Benefits	\$	296,163	\$ -	\$	296,163	\$	(31,247)	\$	264,916
50175	Annual Leave Buyback		11,785	\$ -	\$	11,785	\$	215		12,000
50212	Conferences & Training		1,049	\$ -	\$	1,049	\$	3,451		4,500
50239	Fire & Liability Insurance		60,531	\$ -	\$	60,531	\$	(25,531)		35,000
50306	Electricity	\$	207,037	\$ -	\$	207,037	\$	5,447	\$	212,484
50307	Natural Gas		43,410	\$ -	\$	43,410	\$	-		43,410
50260	Rental of Equipment		922	\$ -	\$	922	\$	78		1,000
50305	Sewer Charge		108,472	\$ -	\$	108,472	\$	90,968		199,440
50271	Gas/Vehicle Maintenance		9,831	\$ -	\$	9,831	\$	(4,442)		5,389
50275	Repairs & Maintenance	\$	9,738	\$ -	\$	9,738	\$	57,049	\$	66,787
50311	Operating Supplies	\$	18,895	\$ -	\$	18,895	\$	(1,734)	\$	17,161
50320	Uniforms & protective Gear		1,027	\$ -	\$	1,027	\$	399		1,426
50335	Chemicals		350,158	\$ -	\$	350,158	\$	16,157		366,315
	Subtotal:	\$	1,774,284	\$ -	\$	1,774,284	\$	104,071	\$	1,878,355
Lawton Valley	6.1.1.0.11	_			_		_			
50001	Salaries & Wages	\$	449,625	\$ -	\$	449,625	\$	48,916	\$	498,541
50002	Overtime		98,692	\$ - \$ -	\$	98,692	\$	211		98,903
50003	Holiday Pay		15,904	Y	\$	15,904	\$	4,088		19,992
50045	Lead Plant Operator Stipend	Ś	7,830	\$ - \$ -	\$	7,830	\$	4,650		12,480
50100	Employee Benefits	\$	273,138	7	\$	273,138	\$	4,864	\$	278,002
50175	Annual Leave Buyback		7,368	Ψ	\$	7,368	\$	32		7,400
50212	Conferences & Training		850	т	\$	850	\$	3,270		4,120
50239	Fire & Liability Insurance	,	93,577	Y	\$	93,577	\$	(39,577)	,	54,000
50306	Electricity	\$	310,343	Ψ	\$	310,343	\$	64,748	\$	375,091
50307	Natural Gas		34,663	Y	\$	34,663	\$	270		34,663
50260	Rental of Equipment		722	Ψ	\$	722	\$	278		1,000
50305	Sewer Charge		358,682	Y	\$	358,682	\$	139,918		498,600
50271	Gas/Vehicle Maintenance	,	7,482	Y	\$ \$	7,482	\$	(2,093)	,	5,389
50275	Repairs & Maintenance	\$	19,922	Y		19,922	\$	41,429	\$	61,351
50311	Operating Supplies	\$	8,971	\$ -	\$	8,971	\$	4,340	\$	13,311
50320	Uniforms & protective Gear		1,539	\$ - \$ -	\$	1,539	\$	(236)		1,303
50335	Chemicals Subtotal:	ċ	262,215 1,951,523	\$ -	\$ \$	262,215 1,951,523	\$ \$	66,452 341,291	\$	328,667 2,292,814
	Subtotal:	Þ	1,951,523	> -	Ş	1,951,523	Ģ	341,291	ş	2,292,814
Laboratory										
50001	Salaries & Wages	Ś	114,425	\$ -	\$	114,425	\$	6,754	\$	121,179
50100	Employee Benefits	ڔ	54,984	\$ -	\$	54,984	۶ \$	3,724	٧	58,708
50175	Annual Leave Buyback		1,560	\$ -	\$	1,560	\$	(60)		1,500
50275	Repairs & Maintenance		256	\$ -	\$	256	\$	1,444		1,700
50281	Regulatory Assessment		47,696	\$ -	\$	47,696	۶ \$	(672)		47,024
50339	Laboratory Supplies		16,924	\$ -	\$	16,924	\$	18,703		35,627
55555	Subtotal:	\$	235,845	\$ -	\$	235,845	\$	29,893	\$	265,738
	30000uii	_	200,040	Ŧ	Ť	200,040	Ť	25,055	7	200,700
		1			ı				1	ļ

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule A-1A Rebuttal Revenue Requirements

				Test Year					
		Test Ye	ar	Normalizing	N	lormalized	Rate Year	Pr	oposed Rate
Account		(FY201	5)	Adjustments	-	Test Year	Adjustments	Υe	ar - FY2017
Transmission &	Distribution	-							
50001	Salaries & Wages	\$ 437,	907	\$ -	\$	437,907	\$ 77,312	\$	515,219
50002	Overtime	48,	703	\$ -	\$	48,703	\$ 3,661		52,364
50004	Temp Salaries	18,	106	\$ -	\$	18,106	\$ 8,074		26,180
50056	Injury Pay		-	\$ -	\$	-	\$ -		-
50100	Employee Benefits	259,	991	\$ -	\$	259,991	\$ 52,315		312,306
50175	Annual Leave Buyback	7,	484	\$ -	\$	7,484	\$ 16		7,500
50212	Conferences & Training	1,	776	\$ -	\$	1,776	\$ 2,224		4,000
50225	Contract Services	10,	524	\$ -	\$	10,524	\$ 11,001		21,525
50239	Fire & Liability Insurance	20,	061	\$ -	\$	20,061	\$ (8,061)		12,000
50306	Electricity	34,	641	\$ -	\$	34,641	\$ (14,034)		20,607
50260	Heavy Equipment Rental	10,	706	\$ -	\$	10,706	\$ (2,446)		8,260
50271	Gas/Vehicle Maintenance	93,	222	\$ -	\$	93,222	\$ (23,165)		70,057
50275	Repairs & Maintenance	28,	521	\$ -	\$	28,521	\$ (2,521)		26,000
50276	Main Maintenance	94,	546	\$ -	\$	94,546	\$ (3,346)		91,200
50296	Service Maintenance	28,	090	\$ -	\$	28,090	\$ 1,910		30,000
50311	Operating Supplies	4,	964	\$ -	\$	4,964	\$ 3,036		8,000
50320	Uniforms & protective Gear	1,	725	\$ -	\$	1,725	\$ 2,275		4,000
	Subtotal:	\$ 1,100,	967	\$ -	\$	1,100,967	\$ 108,251	\$	1,209,218
Fire Protection									
50275	Repair & Maintenance - Equipment		585	\$ -	\$	11,585	\$ 12,215	\$	23,800
	Subtotal:	\$ 11,	585	\$ -	\$	11,585	\$ 12,215	\$	23,800
	Total O&M Costs	\$ 8,734,	259	\$ -	\$	8,734,259	\$ 1,087,051	\$	9,835,871

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule A-1A Rebuttal Revenue Requirements

Account CAPITAL COSTS	Contribution to Capital Spending Acct. Contribution to Debt Service Acct. Total Capital Costs	\$	Test Year FY2015) 2,575,497 6,810,996 9,386,493	N	Test Year ormalizing djustments (\$235,664) 4 (235,660)	\$2,339,833 6,811,000 9,150,833	\$ \$	Rate Year Adjustments 360,167 - 360,167	oposed Rate ear - FY2017 2,700,000 6,811,000 9,511,000
Operating Reve	nue Allowance	\$	262,028	\$	(1,469)	\$ 260,558	\$	34,518	\$ 295,076
Total Costs befo	ore Offsets	\$1	8,382,779	\$	(237,130)	\$ 18,145,650	\$	1,481,736	\$ 19,641,947
OFFSETS									
No	nrate Revenues								
	Sundry charges	\$	147,125	\$	-	\$ 147,125	\$	(20,875)	\$ 126,250
	WPC cost share on customer service	\$	291,365	\$	-	\$ 291,365	\$	38,635	330,000
	Middletown cost share on customer service	\$	146,895	\$	-	\$ 146,895	\$	20,105	167,000
	Rental of Property	\$	91,893	\$	-	\$ 91,893	\$	3,307	95,200
	Water Penalty	\$	54,474	\$	-	\$ 54,474	\$	(3,274)	51,200
	Miscellaneous	\$	7,853	\$	-	\$ 7,853	\$	2,647	10,500
	Investment Interest Income	\$	3,090	\$	-	\$ 3,090	\$	(1,840)	1,250
	Water Quality Protection Fees	\$	23,638	\$	-	\$ 23,638	\$	(1,388)	22,250
	Total Nonrate Revenues	\$	766,333	\$		\$ 766,333	\$	37,317	\$ 803,650
Net	Net Costs to Be Recovered through Rates				(237,130)	\$ 17,379,317	\$	1,444,419	\$ 18,838,297

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule A-1B Rebuttal Revenue Requirements by Account

					Test Year					P	roposed
			Test Year	r	Normalizing	N	ormalized	R	Rate Year	Ra	ite Year -
			(FY2015)		Adjustments	Т	est Year	Ad	justments		FY2017
50001	Salaries & Wages	\$	2,368,277	\$	-		2,368,277	\$	178,579	\$2	2,546,856
50002	Overtime	\$	307,156	\$	-	\$	307,156	\$	(2,929)	\$	304,227
50003	Holiday Pay	\$	34,840	\$	-	\$	34,840	\$	7,184	\$	42,024
50004	Temp Salaries	\$	55,721	\$	_	\$	55,721	\$	41,612	\$	97,333
50005	Permanent Part time	\$	14,200	\$	_	\$	14,200	\$	(1,300)	\$	12,900
50044	Standby Salaries	\$	12,528	\$	_	\$	12,528	\$	6,192	\$	18,720
50045	Lead Plant Operator Stipend	\$	14,457	\$	_	\$	14,457	\$	10,503	\$	24,960
50056	Injury Pay	\$	- 1,101	\$	_	\$,	\$		\$	- 1,5 0 0
50100	Employee Benefits	\$	1,335,653	\$	_		1,335,653	\$	66,316		,401,969
50103	Retiree Insurance Coverage	\$	351,563	\$	_	\$	351,563	\$	18,437	\$	370,000
50105	Workers Compensation	\$	59,456	\$	_	\$	59,456	\$	4,544	\$	64,000
50120	Bank Fees (lock box)	\$	13,711	\$	_	\$	13,711	\$	3,089	\$	16,800
50175	Annual Leave Buyback	\$	39,771	\$	_	\$	39,771	\$	229	\$	40,000
50205	Copying & binding	\$	511	\$	_	\$	511	\$	(11)	\$	500
50207	Advertisement	\$	4,041	\$	_	\$	4,041	\$	4,959	\$	9,000
50207	Membership Dues & Subscriptions	\$	4,447	\$	_	\$	4,447	\$	(1,947)	\$	2,500
50210	Conferences & Training	\$	4,280	\$	_	\$	4,280	\$	17,340	\$	21,620
50212	Tuition Reimbursement	\$	4,200	\$	-	۶ \$	4,200	۶ \$		۶ \$	2,000
50214	Consultant Fees	\$	210,410	۶ \$	-	\$ \$	210,410	۶ \$	2,000 (5,410)	۶ \$	205,000
50225	Support Services/Contract Services	\$	43,308	\$			43,308	۶ \$	4,392	۶ \$	47,700
			•	\$ \$	-	\$	57,625	\$ \$			
50238	Postage	\$ \$	57,625	\$ \$	-	\$	•		18,055	\$	75,680
50239	Fire & Liability Insurance		191,022		-	\$	191,022	\$	(23,022)	\$	168,000
50251	Telephone & Communication	\$	5,569	\$	-	\$	5,569	\$	(2.000)	\$	5,600
50260	Rental of Equipment	\$	12,350	\$	-	\$	12,350	\$	(2,090)	\$	10,260
50266	Legal & Administrative	\$	303,686	\$	-	\$	303,686	\$	51,281	\$	369,528
50267	Data Processing	\$	143,888	\$	-	\$	143,888	\$	28,336	\$	172,224
50268	Mileage Allowance	\$	875	\$	-	\$	875	\$	1,125	\$	2,000
50271	Gasoline & Vehicle Allowance	\$	223,176	\$	-	\$	223,176	\$	(50,728)	\$	172,448
50275	Repairs & Maintenance	\$	129,012	\$	-	\$	129,012	\$	103,826	\$	232,838
50276	Main Maintenance	\$	94,546	\$	-	\$	94,546	\$	(3,346)	\$	91,200
50277	Reservoir Maintenance	\$	16,236	\$	-	\$	16,236	\$	4,264	\$	20,500
50280	Regulatory Expense	\$	590	\$	-	\$	590	\$	4,410	\$	5,000
50281	Regulatory Assessment	\$	127,394	\$	-	\$	127,394	\$	(370)	\$	127,024
50296	Service Maintenance	\$	28,090	\$	-	\$	28,090	\$	1,910	\$	30,000
50299	Meter Maintenance	\$	7,734	\$	-	\$	7,734	\$	2,266	\$	10,000
50305	Water/Sewer Charge	\$	468,429	\$	-	\$	468,429	\$	231,626	\$	700,055
50306	Electricity	\$	723,586	\$	-	\$	723,586	\$	96,856	\$	820,442
50307	Natural Gas	\$	83,991	\$	-	\$	83,991	\$	(692)	\$	83,299
50308	Property Taxes	\$	464,200	\$	-	\$	464,200	\$	104,843	\$	569,043
50311	Operating Supplies	\$	39,526	\$	-	\$	39,526	\$	12,446	\$	51,972
50320	Uniforms & protective Gear	\$	6,183	\$	-	\$	6,183	\$	3,056	\$	9,239
50335	Chemicals	\$	685,044	\$	-	\$	685,044	\$	76,738	\$	761,782
50339	Laboratory Supplies	\$	16,924	\$	-	\$	16,924	\$	18,703	\$	35,627
50361	Office Supplies	\$	14,469	\$	-	\$	14,469	\$	531	\$	15,000
50380	Customer Service Supplies	\$	166	\$	-	\$	166	\$	4,834	\$	5,000
50505	Self Insurance	\$	118	\$	-	\$	118	\$	4,882	\$	5,000
50515	Unemployment Claims	\$	-	\$	-	\$	-	\$	-	\$	-
50520	Accrued Benefits Buyout	\$	15,500	\$	-	\$	15,500	\$	43,500	\$	59,000
60001	Hydrant Maintenance	\$	-	\$	-	\$	-	\$	-	\$	-
	Total		8,734,259		-	8	3,734,259		1,087,051	9	,835,871
									•		

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule A-2 Rebuttal Cost of Service Rates and Charges

	_		Do	cket 4355							
				Rates	Cos	st of Service	Pro	posed Rates	% Change	Projec	ted Revenues
Base Charge (per bill)											
Monthly											
5/8			\$	4.89	\$	5.4100	\$	5.41	11%		\$697,825
3/4			\$	5.01		5.6741		5.68	13%		170,127
1			\$	6.07		7.5307		7.54	24%		51,302
1.5			\$	8.78		12.0147		12.02	37%		54,234
2				11.35		16.8012		16.81	48%		53,052
3			\$ \$	25.22		44.2738		44.28	76%		30,819
4			\$	28.90		52.1988		52.20	81%		10,022
5			\$ \$	33.80		62.7655		62.77	86%		0
6				37.48		70.6905		70.70	89%		27,149
8			\$	47.29		91.8238		91.83	94%		1,102
10			\$	65.07		130.1279		130.13	100%		1,562
Portsmouth Base Ch	narge (4")		\$	2.86		1.5310		1.54	-46%		18
											1,097,213
Volume Charge (per 1 Retail	,000 gallons)										
Residential			\$	10.02	\$	9.9845	\$	9.99	0%		6,605,608
Non-Residentia	l .		\$	11.22	\$	10.5507	\$	10.56	-6%		4,828,085
										\$	11,433,693
Wholesale											
Navy			\$	6.5189	\$	7.6335	\$	7.6335	17%		1,886,070
Portsmouth Wa	ater & Fire Distr	ict	\$	5.1507	\$	6.4847	\$	6.4848	26%		2,806,504
										\$	4,692,574
Fire Protection											
Public (per hydrant)		\$	944.22	\$	1,115.86	\$	1,115.86	18%	\$	1,159,379
Private (by Connect											
Connection Si	ize Existing	Charge		625.00	_	26.22		25.22	400/		
<2		0		\$25.99	\$	36.33	\$	36.33 152.15	40%		
2	6.1			\$108.85	\$	152.14	\$		40%		20.420
4	38.3 111.			\$399.08 \$951.11	\$ \$	532.83 1,232.06	\$ \$	532.84 1,232.07	34% 30%		39,430 289,536
8	237.			\$951.11	\$	2,438.10	\$	2,438.10	30% 28%		289,536 134,096
10	426.			\$1,903.25	\$ \$	4,252.22	\$	4,252.23	28% 27%		154,096
10	689.			\$5,335.46	\$	6,766.54	\$ \$	6,766.54	27% 27%		-
12	009.	U -1		,J,320.43	ڔ	0,700.34	۶	0,700.54	21/0	\$	463,062
	l		l							ر ا	403,002

Total Projected Rate Revenues \$ 18,845,920

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule A-3 Rebuttal Bill Impacts Page 1 of 2

Customer Class

Residential (Monthly)

		Propose	ed			Propos	ed																	
		5/8 Inch N	1eter			3/4 Inch N	/leter			1 Inch M	leter			1.5 Inch N	∕leter			2 Inch M	leter			3 Inch N	eter	
Consumption	Annual Bill	Annual Bill			Annual Bill	Annual Bill																		
per Bill	at Current	at Proposed	Dollar	Percent	at Current	at Proposed	Dollar	Percent	at Current	at Proposed	Dollar	Percent	at Current	at Proposed	Dollar	Percent	at Current	at	Dollar	Percent	at Current	at	Dollar	Percent
(gallons)	Rates	Rates	Change	Change	Rates	Proposed	Change	Change	Rates	Proposed	Change	Change												
1,000	\$178.92	\$184.80	\$5.88	3.3%	\$180.36	\$188.04	\$7.68	4.3%	\$193.08	\$210.36	\$17.28	9.7%	\$225.60	\$264.12	\$38.52	21.5%	\$256.44	\$321.60	\$65.16	36.4%	\$422.88	\$651.24	\$228.36	127.6%
2,000	\$299.16	\$304.68	\$5.52	1.8%	\$300.60	\$307.92	\$7.32	2.4%	\$313.32	\$330.24	\$16.92	5.7%	\$345.84	\$384.00	\$38.16	12.8%	\$376.68	\$441.48	\$64.80	21.7%	\$543.12	\$771.12	\$228.00	76.2%
4,000	\$539.64	\$544.44	\$4.80	0.9%	\$541.08	\$547.68	\$6.60	1.2%	\$553.80	\$570.00	\$16.20	3.0%	\$586.32	\$623.76	\$37.44	6.9%	\$617.16	\$681.24	\$64.08	11.9%	\$783.60	\$1,010.88	\$227.28	42.1%
5,000	\$659.88	\$664.32	\$4.44	0.7%	\$661.32	\$667.56	\$6.24	0.9%	\$674.04	\$689.88	\$15.84	2.4%	\$706.56	\$743.64	\$37.08	5.6%	\$737.40	\$801.12	\$63.72	9.7%	\$903.84	\$1,130.76	\$226.92	34.4%
7,500	\$960.48	\$964.02	\$3.54	0.4%	\$961.92	\$967.26	\$5.34	0.6%	\$974.64	\$989.58	\$14.94	1.6%	\$1,007.16	\$1,043.34	\$36.18	3.8%	\$1,038.00	\$1,100.82	\$62.82	6.5%	\$1,204.44	\$1,430.46	\$226.02	23.5%
10,000	\$1,261.08	\$1,263.72	\$2.64	0.2%	\$1,262.52	\$1,266.96	\$4.44	0.4%	\$1,275.24	\$1,289.28	\$14.04	1.1%	\$1,307.76	\$1,343.04	\$35.28	2.8%	\$1,338.60	\$1,400.52	\$61.92	4.9%	\$1,505.04	\$1,730.16	\$225.12	
15,000	\$1,862.28	\$1,863.12	\$0.84	0.0%	\$1,863.72	\$1,866.36	\$2.64	0.1%	\$1,876.44	\$1,888.68	\$12.24	0.7%	\$1,908.96	\$1,942.44	\$33.48	1.8%	\$1,939.80	\$1,999.92	\$60.12	3.2%	\$2,106.24	\$2,329.56	\$223.32	12.0%
20,000	\$2,463.48	\$2,462.52	-\$0.96	0.0%	\$2,464.92	\$2,465.76	\$0.84	0.0%	\$2,477.64	\$2,488.08	\$10.44	0.4%	\$2,510.16	\$2,541.84	\$31.68	1.3%	\$2,541.00	\$2,599.32	\$58.32	2.4%	\$2,707.44	\$2,928.96	\$221.52	9.0%
25,000	\$3,064.68	\$3,061.92	-\$2.76	-0.1%	\$3,066.12	\$3,065.16	-\$0.96	0.0%	\$3,078.84	\$3,087.48	\$8.64	0.3%	\$3,111.36	\$3,141.24	\$29.88	1.0%	\$3,142.20	\$3,198.72	\$56.52	1.8%	\$3,308.64	\$3,528.36	\$219.72	
30,000	\$3,665.88	\$3,661.32	-\$4.56	-0.1%	\$3,667.32	\$3,664.56	-\$2.76	-0.1%	\$3,680.04	\$3,686.88	\$6.84	0.2%	\$3,712.56	\$3,740.64	\$28.08	0.8%	\$3,743.40	\$3,798.12	\$54.72	1.5%	\$3,909.84	\$4,127.76	\$217.92	5.9%

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule A-3 Rebuttal Bill Impacts Page 2 of 2

Customer Class	
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Non-Residential (Monthly)

		Propose	ed			Propose	ed			Propos	ed			Propos	ed			Propos	ed			Propo:	sed	
		5/8 Inch M	leter			3/4 Inch N	leter			1 Inch M	leter			1.5 Inch f	Meter			2 Inch M	eter			3 Inch N	1eter	
Monthly	Annual Bill	Annual Bill			Annual Bill	Annual Bill																		
Consumption	at Current	at Proposed	Dollar	Percent	at Current	at Proposed	Dollar	Percent	at Current	at Proposed	Dollar	Percent	at Current	at Proposed	Dollar	Percent	at Current	at	Dollar	Percent	at Current	at	Dollar	Percent
(gallons)	Rates	Rates	Change	Change	Rates	Proposed	Change	Change	Rates	Proposed	Change	Change												
2,000	\$327.96	\$318.36	-\$9.60	-2.9%	\$329.40	\$321.60	-\$7.80	-2.4%	\$342.12	\$343.92	\$1.80	0.5%	\$374.64	\$397.68	\$23.04	7.0%	\$405.48	\$455.16	\$49.68	15.1%	\$543.12	\$771.12	\$228.00	69.5%
5,000	\$731.88		-\$33.36	-4.6%	\$733.32	\$701.76	-\$31.56	-4.3%	\$746.04	\$724.08	-\$21.96	-3.0%	\$778.56	\$777.84	-\$0.72	-0.1%	\$809.40	\$835.32	\$25.92	3.5%	\$903.84	\$1,130.76	\$226.92	31.09
9,000	\$1,270.44	\$1,205.40	-\$65.04	-5.1%	\$1,271.88	\$1,208.64	-\$63.24	-5.0%	\$1,284.60	\$1,230.96	-\$53.64	-4.2%	\$1,317.12	\$1,284.72	-\$32.40	-2.6%	\$1,347.96	\$1,342.20	-\$5.76	-0.5%	\$1,384.80	\$1,610.28	\$225.48	17.79
25,000	\$3,424.68	\$3,232.92	-\$191.76	-5.6%	\$3,426.12	\$3,236.16	-\$189.96	-5.5%	\$3,438.84	\$3,258.48	-\$180.36	-5.3%	\$3,471.36	\$3,312.24	-\$159.12	-4.6%	\$3,502.20	\$3,369.72	-\$132.48	-3.9%	\$3,308.64	\$3,528.36	\$219.72	6.4%
30,000	\$4,097.88	\$3,866.52	-\$231.36	-5.6%	\$4,099.32	\$3,869.76	-\$229.56	-5.6%	\$4,112.04	\$3,892.08	-\$219.96	-5.4%	\$4,144.56	\$3,945.84	-\$198.72	-4.8%	\$4,175.40	\$4,003.32	-\$172.08	-4.2%	\$3,909.84	\$4,127.76	\$217.92	5.3%
40,000	\$5,444.28	\$5,133.72	-\$310.56	-5.7%	\$5,445.72	\$5,136.96	-\$308.76	-5.7%	\$5,458.44	\$5,159.28	-\$299.16	-5.5%	\$5,490.96	\$5,213.04	-\$277.92	-5.1%	\$5,521.80	\$5,270.52	-\$251.28	-4.6%	\$5,112.24	\$5,326.56	\$214.32	3.9%
50,000	\$6,790.68	\$6,400.92	-\$389.76	-5.7%	\$6,792.12	\$6,404.16	-\$387.96	-5.7%	\$6,804.84	\$6,426.48	-\$378.36	-5.6%	\$6,837.36	\$6,480.24	-\$357.12	-5.3%	\$6,868.20	\$6,537.72	-\$330.48	-4.9%	\$6,314.64	\$6,525.36	\$210.72	3.1%
75,000	\$10,156.68	\$9,568.92	-\$587.76	-5.8%	\$10,158.12	\$9,572.16	-\$585.96	-5.8%	\$10,170.84	\$9,594.48	-\$576.36	-5.7%	\$10,203.36	\$9,648.24	-\$555.12	-5.5%	\$10,234.20	\$9,705.72	-\$528.48	-5.2%	\$9,320.64	\$9,522.36	\$201.72	2.0%
100,000	\$13,522.68	\$12,736.92	-\$785.76	-5.8%	\$13,524.12	\$12,740.16	-\$783.96	-5.8%	\$13,536.84	\$12,762.48	-\$774.36	-5.7%	\$13,569.36	\$12,816.24	-\$753.12	-5.6%	\$13,600.20	\$12,873.72	-\$726.48	-5.4%	\$12,326.64	\$12,519.36	\$192.72	1.49

			Propos				Propose	d			Propose	d			Propos	ed			Propos	ed			Propos		
			5/8 Inch N	/leter			3/4 Inch M	eter			1 Inch Me	ter			1.5 Inch I	∕leter			2 Inch M	eter			3 Inch M	eter	
	Annual	Annual Bill	Annual Bill																						
	Consumption	at Current	at Proposed	Dollar	Percent	at Current	at Proposed	Dollar	Percent	at Current	at Proposed	Dollar	Percent	at Current	at Proposed	Dollar	Percent	at Current	at	Dollar	Percent	at Current	at	Dollar	Percent
Customer Class	(gallons)	Rates	Rates	Change	Change	Rates	Proposed	Change	Change	Rates	Proposed	Change	Change												
Non-Residential with 6" Fire																									
Connection(Monthly Account)																									
Base Charge and Commodity Charges	9,000	\$159.66	\$159.96	\$0.30	0.2%	\$155.16	\$163.20	\$8.04	5.0%	\$167.88	\$185.52	\$17.64	11.0%	\$200.40	\$239.28	\$38.88	24.4%	\$231.24	\$296.76	\$65.52	41.0%	\$397.68	\$626.40	\$228.72	143.3%
Fire Protection Charge		\$951.11	\$1,232.07	\$280.96	29.5%	\$951.11	\$1,232.07	\$280.96	29.5%	\$951.11	\$1,232.07	\$280.96	29.5%	\$951.11	\$1,232.07	\$280.96	29.5%	\$951.11	\$1,232.07	\$280.96	29.5%	\$951.11	\$1,232.07	\$280.96	29.5%
Total Annual Charges		\$1,110.77	\$1,392.03	\$281.26	25.3%	\$1,106.27	\$1,395.27	\$289.00	26.0%	\$1,118.99	\$1,417.59	\$298.60	26.9%	\$1,151.51	\$1,471.35	\$319.84	28.8%	\$1,182.35	\$1,528.83	\$346.48	31.2%	\$1,348.79	\$1,858.47	\$509.68	45.9%

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule A-3 Rebuttal Bill Impacts - Cost of Service Rates Page 2 of 2

				roposed	
	Monthly	Bill at	Bill at		
	Consumption	Current	Proposed	Dollar	Percent
Customer Class	(gallons)	Rates	Rates	Change	Change
Portsmouth (Monthly)					
	10,000,000	\$51,512	\$64,900	\$13,388	26.0%
	20,000,000	\$103,019	\$129,748	\$26,729	25.9%
Avg. Monthly Bill	38,000,000	\$195,731	\$246,475	\$50,743	25.9%
	40,000,000	\$206,033	\$259,444	\$53,411	25.9%
	75,000,000	\$386,307	\$486,412	\$100,105	25.9%
	100,000,000	\$515,075	\$648,532	\$133,457	25.9%
	150,000,000	\$772,610	\$972,772	\$200,162	25.9%
Navy (Monthly)					
	10,000,000	\$65,236	\$76,335	\$11,099	17.0%
Avg. Monthly Bill (All Meters)	20,000,000	\$130,443	\$152,670	\$22,227	17.0%
	38,000,000	\$247,718	\$290,073	\$42,355	17.1%
	50,000,000	\$325,956	\$381,675	\$55,719	17.1%
	75,000,000	\$488,929	\$572,513	\$83,583	17.1%
	100,000,000	\$651,905	\$763,350	\$111,445	17.1%

Docket No. 4595

Docket No. 4595

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule A-4 Rebuttal Revenue Proof

	Rate Year Revenue						
	Е	xisting Rates		Proposed Rates			
REVENUES							
Water Rates	_		_				
Base Charge (Billing Charge)	\$	936,424	\$	1,097,213			
Volume Charge							
Residential		6,625,444		6,605,608			
Commercial		5,129,840		4,828,085			
Navy		1,610,677		1,886,070			
Portsmouth Water & Fire District		2,229,129		2,806,504			
Fire Protection							
Public		981,045		1,159,379			
Private		357,722		463,062			
Total Rate Revenues	\$	17,870,281	\$	18,845,920			
Other Operating Revenues							
Sundry charges	\$	126,250		126,250			
WPC cost share on customer service	\$ \$ \$	330,000		330,000			
Middletown cost share on customer service	\$	167,000		167,000			
Rental of Property	\$	95,200		95,200			
Total Other Operating Revenues	\$	718,450		718,450			
Total Operating Revenues	\$	18,588,731	\$	19,564,370			
Add: Non-Operating Revenues							
Water Penalty		51,200		51,200			
Miscellaneous		10,500		10,500			
Investment Interest Income		1,250		1,250			
Water Quality Protection Fees		22,250		22,250			
Total Non Operating Revenues	\$	85,200	\$	85,200			
Total Revenues	\$	18,673,931	\$	19,649,570			
COSTS				(
Departmental O&M	\$	(9,835,871)		(9,835,871)			
Capital Costs							
Contribution to Capital Spending Acct.		(2,700,000)		(2,700,000)			
Contribution to Debt Service Acct.		(6,811,000)		(\$6,811,000)			
Total Capital Costs	\$	(9,511,000)		(9,511,000)			
Operating Revenue Allowance		(295,076)		(295,076)			
Total Costs	\$	(19,641,947)	\$	(19,641,947)			
Revenue Surplus (Deficit)	\$	(968,016)	\$	7,623			
				-			

	Rate Year
Operation & Maintenance Costs	
Administration	
Salaries, Wages, & Benefits	
Salaries & Wages	\$ 281,582
AFSCME retro	\$ -
NEA retro	\$ -
AFSCME benefits on retro pay	\$ -
NEA benefits on retro pay	\$ -
Standby Salaries	\$ 18,720
Accrued Benefits Buyout	\$ 59,000
Employee Benefits	\$ 119,057
Retiree Insurance Coverage	\$ 370,000
Workers Compensation	\$ 64,000
Annual Leave Buyback	\$ 3,300
Subtotal	915,659

Allocation Notes	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total % Allocated
Non Admin loss electrisity 9 chamicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals Non Admin less electricity & chemicals	60%	19%	7% 7%	5% 5%	6%	2% 2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7 <i>%</i> 7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non-Administrative Wages & Salaries	58%	22%	8%	6%	5%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non-Administrative Wages & Salaries	58%	22%	8%	6%	5%	2%	0%	100%
Non-Administrative Wages & Salaries	58%	22%	8%	6%	5%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%

	Rate Year
All Other Administrative Costs	
Advertisement	9,000
Membership Dues & Subscription	l ' l
Conferences & Training	4,000
Tuition Reimbursement	2,000
Consultant Fees	205,000
Postage	1,000
Fire & Liability Insurance	67,000
Telephone & Communication	5,600
Water	2,015
Electricity	7,956
Natural Gas	5,226
Property Taxes	569,043
Legal & Administrative	505,015
Audit Fees	4,233
OPEB Contribution	19,200
City Council	5,724
City Clerk	2,980
City Manager	61,478
Human Resources	33,858
City Solicitor	23,662
Finance Adimistrative 50%	27,254
Finance Adimistrative 5%	2,277
Finance Admin 10% Inv/Debt	·
Purchasing	17,260
Assessment	14,561
Collections	47,752
Accounting - Wires - 5%	12,738
Accounting	67,391
Facilities Maintenance	29,159
Data Processing	172,224
Mileage Allowance	2,000
Gasoline & Vehicle Allowance	5,389
Repairs & Maintenance	1,200
Regulatory Expense	5,000
Regulatory Assessment	80,000
Office Supplies	15,000
Self Insurance	5,000
Unemployment Claims	-
Subtotal	1,535,682

								Total %
Allocation Notes	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Allocated
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Total Non-Admin Costs Before Offsets	64%	21%	7%	4%	2%	2%	0%	100%
Total Non-Admin Costs Before Offsets	64%	21%	7%	4%	2%	2%	0%	100%
Total Non-Admin Costs Before Offsets	64%	21%	7%	4%	2%	2%	0%	100%
Total Non-Admin Costs Before Offsets	64%	21%	7%	4%	2%	2%	0%	100%
Total Non-Admin Costs Before Offsets	64%	21%	7%	4%	2%	2%	0%	100%
Non-Administrative Wages & Salaries	58%	22%	8%	6%	5%	2%	0%	100%
Total Non-Admin Costs Before Offsets	64%	21%	7%	4%	2%	2%	0%	100%
Total Non-Admin Costs Before Offsets	64%	21%	7%	4%	2%	2%	0%	100%
Total Non-Admin Costs Before Offsets	64%	21%	7%	4%	2%	2%	0%	100%
Total Non-Admin Costs Before Offsets	64%	21%	7%	4%	2%	2%	0%	100%
Total Non-Admin Costs Before Offsets	64%	21%	7%	4%	2%	2%	0%	100%
Total Non-Admin Costs Before Offsets	64%	21%	7%	4%	2%	2%	0%	100%
100% Billing	0%	0%	0%	0%	100%	0%	0%	100%
Total Non-Admin Costs Before Offsets	64%	21%	7%	4%	2%	2%	0%	100%
Non-Administrative Wages & Salaries	58%	22%	8%	6%	5%	2%	0%	100%
Non-Administrative Wages & Salaries	58%	22%	8%	6%	5%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%

		Rate Year
Customer Service		
Salaries & Wages		334,195
Benefits		190,805
Copying & binding		500
Conferences & Training		5,000
Support Services		26,175
Postage		74,680
Bank Fees (lock box)		16,800
Gasoline & Vehicle Allowance		26,945
Repairs & Maintenance		35,000
Meter Maintenance		10,000
Operating Supplies		5,000
Uniforms & protective Gear		1,000
Customer Service Supplies Subtotal		5,000 731,100
Subtotal		731,100
Source of Supply - Island		
Salaries & Wages	\$	309,950
Overtime	\$	33,000
Temp Salaries	\$	26,180
Injury Pay	\$	-
Employee Benefits	\$	175,650
Annual Leave Buyback	\$	3,800
Electricity	\$	49,880
Gas/Vehicle Maintenance	\$	59,279
Repairs & Maintenance	Ś	10,000
Reservoir Maintenance	Ś	16,000
Operating Supplies	Ś	7,500
Uniforms & protective Gear	Ś	1,510
Chemicals	\$\$\$\$\$\$\$\$\$\$\$\$\$\$	66,800
Subtotal	\$	759,549
Source of Supply - Mainland		
Overtime	\$	11,610
Temp Salaries		29,996
Permanent Part time	¢	12,900
Employee Benefits	¢	2,525
Electricity	ر د	154,424
Repairs & Maintenance	\$ \$ \$ \$ \$ \$	7,000
Reservoir Maintenance	ب ذ	4,500
	ې د	,
Operating Supplies Subtotal	\$ \$	1,000
Subtotal	ş	223,955

								Total %
Allocation Notes	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Allocated
Customer Servce Salaries and Wages	0%	0%	0%	49%	39%	12%	0%	100%
Customer Servce Salaries and Wages	0%	0%	0%	49%	39%	12%	0%	100%
LOO% billing (based on budget analysis)					100%			100%
100% billing (based on budget analysis)					100%			100%
LOO% billing (software support & printing/mailing)					100%			100%
LOO% billing (based on budget analysis)					100%			100%
.00% billing (based on budget analysis)					100%			100%
Customer Servce Salaries and Wages	0%	0%	0%	49%	39%	12%	0%	100%
LOO% metering (meter repairs)				100%				100%
LOO% metering (based on budget analysis)				100%				100%
100% metering (based on budget analysis)				100%				100%
LOO% metering (based on budget analysis)				100%				100%
100% billing (based on budget analysis)					100%			100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
werage Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
verage Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%

	F
Station One (Excludes chemicals)	
Salaries & Wages	\$
Overtime	* * * * * * * * * * * * * * * * * * * *
Holiday Pay	\$
Lead Plant Operator Stipend	\$
Employee Benefits	\$
Annual Leave Buyback	\$
Conferences & Training	\$
Fire & Liability Insurance	\$
Electricity	\$
Natural Gas	\$
Rental of Equipment	\$
Sewer Charge	\$
Gas/Vehicle Maintenance	\$
Repairs & Maintenance	\$
Operating Supplies	\$
Uniforms & protective Gear	\$
Station One Chemicals	\$
Subtotal	\$
Lawton Valley (Excludes chemicals)	
Salaries & Wages	
Overtime	
Holiday Pay	
Lead Plant Operator Stipend	
Employee Benefits	
Annual Leave Buyback	
Conferences & Training	
Fire & Liability Insurance	
Electricity	
Natural Gas	
Rental of Equipment	
Sewer Charge	
Gas/Vehicle Maintenance	
Repairs & Maintenance	
Operating Supplies	
Uniforms & protective Gear	
Lawton Valley Chemicals	
Subtotal	
Subtotal	

Rate Year	
511,075	
102,940	
22,032	
12,480	
264,916	
12,000	
4,500	
35,000	
212,484	
43,410	
1,000	
199,440	
5,389	
66,787	
17,161	
1,426	
366,315	
1,878,355	
\$498,541	
\$98,903	
\$19,992	
\$12,480	
\$278,002	
\$7,400	
\$4,120	
\$54,000	
\$375,091	
\$34,663	
\$1,000	
\$498,600	
\$5,389	
\$61,351	
\$13,311	
\$1,303	
\$328,667	
2,292,814	

100% Base

							_	Total %
Allocation Notes	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Allocated
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
1000/ 5								

0%

0%

0%

100%

100%

0%

0%

0%

Laboratory
Salaries & Wages
Employee Benefits
Annual Leave Buyback
Repairs & Maintenance
Regulatory Assessment
Laboratory Supplies
Subtotal
Transmission and Distribution
Salaries & Wages
Overtime
Temp Salaries
Injury Pay
Employee Benefits
Annual Leave Buyback
Conferences & Training
Contract Services
Fire & Liability Insurance
Electricity
Heavy Equipment Rental
Gas/Vehicle Maintenance
Repairs & Maintenance
Main Maintenance
Hydrant Maintenance
Service Maintenance
Operating Supplies
Uniforms & protective Gear
Subtotal
Fire Protection
Total O&M Costs

	Rate Year
\$	121,179
\$	58,708
\$	1,500
\$	1,700
\$	47,024
\$ \$ \$ \$ \$ \$	35,627
\$	265,738
\$	515,219
\$	52,364
\$	26,180
\$	-
\$	312,306
\$	7,500
\$	4,000
\$	21,525
\$	12,000
\$	20,607
\$	8,260
\$	70,057
\$	26,000
\$	91,200
\$	-
\$	30,000
\$	8,000
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	4,000
\$	1,209,218
	23,800
	9,835,871

								Total %
Allocation Notes	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Allocated
100% Base	100%	0%	0%	0%	0%	0%	0%	100%
100% Base	100%	0%	0%	0%	0%	0%	0%	100%
100% Base	100%	0%	0%	0%	0%	0%	0%	100%
100% Base	100%	0%	0%	0%	0%	0%	0%	100%
100% Base	100%	0%	0%	0%	0%	0%	0%	100%
100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Maximum Hour Demand Patterns	40%	24%	36%	0%	0%	0%	0%	100%
Maximum Hour Demand Patterns	40%	24%	36%	0%	0%	0%	0%	100%
Maximum Hour Demand Patterns	40%	24%	36%	0%	0%	0%	0%	100%
Maximum Hour Demand Patterns	40%	24%	36%	0%	0%	0%	0%	100%
Maximum Hour Demand Patterns	40%	24%	36%	0%	0%	0%	0%	100%
Maximum Hour Demand Patterns	40%	24%	36%	0%	0%	0%	0%	100%
Maximum Hour Demand Patterns	40%	24%	36%	0%	0%	0%	0%	100%
Maximum Hour Demand Patterns	40%	24%	36%	0%	0%	0%	0%	100%
Maximum Hour Demand Patterns	40%	24%	36%	0%	0%	0%	0%	100%
Maximum Hour Demand Patterns	40%	24%	36%	0%	0%	0%	0%	100%
Maximum Hour Demand Patterns	40%	24%	36%	0%	0%	0%	0%	100%
Maximum Hour Demand Patterns	40%	24%	36%	0%	0%	0%	0%	100%
Maximum Hour Demand Patterns	40%	24%	36%	0%	0%	0%	0%	100%
Maximum Hour Demand Patterns	40%	24%	36%	0%	0%	0%	0%	100%
100% Fire	0%	0%	0%	0%	0%	0%	100%	100%
100% Services	0%	0%	0%	0%	0%	100%	0%	100%
Maximum Hour Demand Patterns	40%	24%	36%	0%	0%	0%	0%	100%
Maximum Hour Demand Patterns	40%	24%	36%	0%	0%	0%	0%	100%
100% Fire	0%	0%	0%	0%	0%	0%	100%	100%

Base Extra Capacity Cost Allocations										
										Total %
	Rate Year	Allocation Notes	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Allocated
CAPITAL COSTS										
Water Supply	1,417,514	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Treatment Station 1	2,320,726	Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Treatment Lawton Valley	2,618,866	Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
Treatment Both Plants	483,244	Maximum Day Demand Patterns	63%	37%	0%	0%	0%	0%	0%	100%
T&D Pumping	59,904	Maximum Hour Demand Patterns	40%	24%	36%	0%	0%	0%	0%	100%
T&D	2,004,586	Maximum Hour Demand Patterns	40%	24%	36%	0%	0%	0%	0%	100%
Fire	21,589	100% Fire	0%	0%	0%	0%	0%	0%	100%	100%
Meters	363,862	100% Meters	0%	0%	0%	100%	0%	0%	0%	100%
Services	206,193	100 % Services	0%	0%	0%	0%	0%	100%	0%	100%
Billing	14,514	100% Billing	0%	0%	0%	0%	100%	0%	0%	100%
Total Capital Costs excluding Treatment	9,511,000									
Revenue Allowance	295,076	100% base	100%							100%
Total Costs before Offsets	19,641,947									
OFFSETS										
Nonrate Revenues										
Sundry charges	126,250	Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
WPC cost share on customer serv	330,000	50/50 Split between Metering and Billing	0%	0%	0%	50%	50%	0%	0%	100%
Middletown cost share on custon	167,000	50/50 Split between Metering and Billing	0%	0%	0%	50%	50%	0%	0%	100%
Rental of Property	95,200	Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Water Penalty	51,200	Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Miscellaneous	10,500	Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Investment Interest Income	1,250	Non Admin less electricity & chemicals	60%	19%	7%	5%	6%	2%	0%	100%
Water Quality Protection Fees	22,250	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Total Nonrate Revenues	803,650									
Net Costs To Recover Through Rates	\$ 18,838,297									
	\$ -									

	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
Operation & Maintenance Costs								
Administration								
Salaries, Wages, & Benefits								
Salaries & Wages	169,763	53,238	20,677	15,411	16,579	4,765	1,149	281,582
AFSCME retro	-	-	-	-	-	-	-	-
NEA retro	-	-	-	-	-	-	-	-
AFSCME benefits on retro pay	-	-	-	-	-	-	-	-
NEA benefits on retro pay	-	-	-	-	-	-	-	-
Standby Salaries	11,286	3,539	1,375	1,025	1,102	317	76	18,720
Accrued Benefits Buyout	34,043	13,079	4,642	3,453	2,858	901	24	59,000
Employee Benefits	71,778	22,510	8,742	6,516	7,010	2,015	486	119,057
Retiree Insurance Coverage	213,492	82,022	29,109	21,652	17,923	5,652	150	370,000
Workers Compensation	36,928	14,188	5,035	3,745	3,100	978	26	64,000
Annual Leave Buyback	1,990	624	242	181	194	56	13	3,300
Subtotal	539,280	189,201	69,822	51,982	48,767	14,683	1,925	915,659

	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
_								,
All Other Administrative Costs								
Advertisement	5,426	1,702	661	493	530	152	37	9,000
Membership Dues & Subscriptions	1,507	473	184	137	147	42	10	2,500
Conferences & Training	2,412	756	294	219	236	68	16	4,000
Tuition Reimbursement	1,206	378	147	109	118	34	8	2,000
Consultant Fees	123,592	38,759	15,053	11,220	12,070	3,469	837	205,000
Postage	603	189	73	55	59	17	4	1,000
Fire & Liability Insurance	40,394	12,668	4,920	3,667	3,945	1,134	273	67,000
Telephone & Communication	3,376	1,059	411	306	330	95	23	5,600
Water	1,215	381	148	110	119	34	8	2,015
Electricity	4,797	1,504	584	435	468	135	32	7,956
Natural Gas	3,151	988	384	286	308	88	21	5,226
Property Taxes	343,070	107,589	41,785	31,144	33,504	9,629	2,323	569,043
Legal & Administrative								
Audit Fees	2,707	893	290	168	88	75	11	4,233
OPEB Contribution	12,279	4,052	1,315	763	400	340	51	19,200
City Council	3,661	1,208	392	227	119	102	15	5,724
City Clerk	1,906	629	204	118	62	53	8	2,980
City Manager	39,318	12,973	4,212	2,443	1,280	1,090	162	61,478
Human Resources	19,536	7,506	2,664	1,981	1,640	517	14	33,858
City Solicitor	15,133	4,993	1,621	940	493	420	62	23,662
Finance Adimistrative 50%	17,430	5,751	1,867	1,083	567	483	72	27,254
Finance Adimistrative 5%	1,456	481	156	90	47	40	6	2,277
Finance Admin 10% Inv/Debt	-	_	_	-	-	-	-	-
Purchasing	11,039	3,642	1,182	686	359	306	46	17,260
Assessment	9,313	3,073	998	579	303	258	38	14,561
Collections	-	· -	_	-	47,752	-	-	47,752
Accounting - Wires - 5%	8,147	2,688	873	506	265	226	34	12,738
Accounting	38,885	14,939	5,302	3,944	3,265	1,029	27	67,391
Facilities Maintenance	16,825	6,464	2,294	1,706	1,413	445	12	29,159
Data Processing	103,832	32,562	12,646	9,426	10,140	2,914	703	172,224
Mileage Allowance	1,206	378	147	109	118	34	8	2,000
Gasoline & Vehicle Allowance	3,249	1,019	396	295	317	91	22	5,389
Repairs & Maintenance	723	227	88	66	71	20	5	1,200
Regulatory Expense	3,014	945	367	274	294	85	20	5,000
Regulatory Assessment	48,231	15,126	5,874	4,378	4,710	1,354	327	80,000
Office Supplies	9,043	2,836	1,101	821	883	254	61	15,000
Self Insurance	3,014	945	367	274	294	85	20	5,000
Unemployment Claims	-	-	-	_,.		-	-	-
Subtotal	900,698	289,775	109,001	79,058	126,712	25,119	5,318	1,535,682

ase Extra Capacity Cost Allocations			T	ı	Т	1		
	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
Customer Service								
Salaries & Wages	-	-	-	162,346	130,271	41,578	-	334,195
Benefits	-	-	-	92,690	74,377	23,738	-	190,805
Copying & binding	-	-	-	-	500	-	-	500
Conferences & Training	-	-	-	-	5,000	-	-	5,000
Support Services	-	-	-	-	26,175	-	-	26,175
Postage	-	-	-	-	74,680	-	-	74,680
Bank Fees (lock box)	-	-	-	-	16,800	-	-	16,800
Gasoline & Vehicle Allowance	-	-	-	13,089	10,503	3,352	-	26,945
Repairs & Maintenance	-	-	-	35,000	-	-	-	35,000
Meter Maintenance	-	-	-	10,000	-	-	-	10,000
Operating Supplies	-	-	-	5,000	-	-	-	5,000
Uniforms & protective Gear	-	-	-	1,000	-	-	-	1,000
Customer Service Supplies	-	-	-	-	5,000	-	-	5,000
Source of Supply - Island								
Salaries & Wages	309,950	-	-	_	-	-	-	309,950
Overtime	33,000	-	-	_	-	-	-	33,000
Temp Salaries	26,180	-	-	-	-	-	-	26,180
Injury Pay	-	-	-	_	-	-	-	_
Employee Benefits	175,650	-	-	_	-	-	-	175,650
Annual Leave Buyback	3,800	-	-	_	-	-	-	3,800
Electricity	49,880	-	_	_	-	-	-	49,880
Gas/Vehicle Maintenance	59,279	-	-	_	-	-	-	59,279
Repairs & Maintenance	10,000	-	-	_	-	-	-	10,000
Reservoir Maintenance	16,000	-	_	_	-	_	-	16,000
Operating Supplies	7,500	-	_	_	-	_	-	7,500
Uniforms & protective Gear	1,510	-	_	_	-	_	-	1,510
Chemicals	66,800	-	-	-	-	-	-	66,800
Source of Supply - Mainland								
Overtime	11,610	-	-	-	-	-	-	11,610
Temp Salaries	29,996	-	-	-	-	-	-	29,996
Permanent Part time	12,900	-	-	-	-	-	-	12,900
Employee Benefits	2,525	-	-	-	-	-	-	2,525
Electricity	154,424	-	-	-	-	-	-	154,424
Repairs & Maintenance	7,000	-	-	-	-	-	-	7,000
Reservoir Maintenance	4,500	-	-	-	-	-	-	4,500
Operating Supplies	1,000	-	-	-	-	-	-	1,000

ase Extra Capacity Cost Allocations							1	
	Dana	Man Dan	Mandlana	Makasisa	Dilling	Comicos	F:	Total \$ Allocated
Station One (Excludes chemicals)	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
Salaries & Wages	319,539	191,536	_	_	_	_	_	511,075
Overtime	64,361	38,579	_	_	_	_	_	102,940
Holiday Pay	13,775	8,257	_	_	_	_	_	22,032
Lead Plant Operator Stipend	7,803	4,677	_	_	_	_	_	12,480
Employee Benefits	165,633	99,283	_	_	_	_	_	264,916
Annual Leave Buyback	7,503	4,497	_	_	_	_		12,000
Conferences & Training	2,814	1,686	_	_	_	_		4,500
Fire & Liability Insurance	21,883	13,117	_	_	_	_	_	35,000
Electricity	212,484	-	_	_	_	_	_	212,484
Natural Gas	27,141	16,269	_	_	_	_	_	43,410
Rental of Equipment	625	375	_	_	_	_	_	1,000
Sewer Charge	199,440	-	_	_	_	_	_	199,440
Gas/Vehicle Maintenance	3,369	2,020	_	_	_	_	_	5,389
Repairs & Maintenance	41,757	25,030	_	_	_	_	_	66,787
Operating Supplies	10,730	6,432	_	_	_	_	_	17,161
Uniforms & protective Gear	892	534	_	_	_	_	_	1,426
Station One Chemicals	366,315	-	_	_	_	_	_	366,315
Lawton Valley (Excludes chemicals)								
Salaries & Wages	311,702	186,839	_	-	-	_	-	498,541
Overtime	61,837	37,066	_	_	-	_	-	98,903
Holiday Pay	12,500	7,492	_	-	-	_	-	19,992
Lead Plant Operator Stipend	7,803	4,677	_	-	-	_	-	12,480
Employee Benefits	173,815	104,187	_	-	_	_	-	278,002
Annual Leave Buyback	4,627	2,773	_	-	_	_	-	7,400
Conferences & Training	2,576	1,544	_	-	_	_	-	4,120
Fire & Liability Insurance	33,762	20,238	_	-	_	_	-	54,000
Electricity	375,091	, -	_	-	_	_	-	375,091
Natural Gas	21,672	12,991	_	-	_	_	-	34,663
Rental of Equipment	625	375	_	-	_	_	-	1,000
Sewer Charge	498,600	-	_	-	-	_	-	498,600
Gas/Vehicle Maintenance	3,369	2,020	_	-	-	_	-	5,389
Repairs & Maintenance	38,358	22,993	_	-	-	_	-	61,351
Operating Supplies	8,322	4,989	-	-	-	-	-	13,311
Uniforms & protective Gear	815	488	-	-	-	-	-	1,303
Lawton Valley Chemicals	328,667	-	-	-	-	-	-	328,667

ase Extra capacity cost Anocations						1		
	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
Laboratory		,		0				,
Salaries & Wages	121,179	-	-	-	-	-	-	121,179
Employee Benefits	58,708	-	-	-	-	-	-	58,708
Annual Leave Buyback	1,500	-	-	-	-	-	-	1,500
Repairs & Maintenance	1,700	-	-	-	-	-	-	1,700
Regulatory Assessment	47,024	-	-	-	-	-	-	47,024
Laboratory Supplies	35,627	-	-	-	-	-	-	35,627
Transmission and Distribution								
Salaries & Wages	205,168	122,981	187,070	-	-	_	-	515,219
Overtime	20,852	12,499	19,013	-	-	_	-	52,364
Temp Salaries	10,425	6,249	9,506	-	-	_	-	26,180
Injury Pay	, -	· -	-	-	-	_	-	, -
Employee Benefits	124,365	74,546	113,394	-	-	_	-	312,306
Annual Leave Buyback	2,987	1,790	2,723	-	-	-	-	7,500
Conferences & Training	1,593	955	1,452	-	-	-	-	4,000
Contract Services	8,572	5,138	7,815	-	-	-	-	21,525
Fire & Liability Insurance	4,779	2,864	4,357	-	-	-	-	12,000
Electricity	8,206	4,919	7,482	-	-	-	-	20,607
Heavy Equipment Rental	3,289	1,972	2,999	-	-	-	-	8,260
Gas/Vehicle Maintenance	27,898	16,722	25,437	-	-	-	-	70,057
Repairs & Maintenance	10,354	6,206	9,440	-	-	-	-	26,000
Main Maintenance	36,317	21,769	33,114	-	-	-	-	91,200
Hydrant Maintenance		-	-	-	-	-	-	-
Service Maintenance	-	-	-	-	-	30,000	-	30,000
Operating Supplies	3,186	1,910	2,905	-	-	-	-	8,000
Uniforms & protective Gear	1,593	955	1,452	-	-	-	-	4,000
Fire Protection	-	-	-	-	-	-	23,800	23,800
Non-Administrative O&M	5,069,033	1,102,438	428,160	319,126	343,306	98,669	23,800	7,384,530

ase Extra Capacity Cost Allocations			1	·				
	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
Mate Const.	4 447 54 4							4 447 544
Water Supply	1,417,514	-	-	-	-	-	-	1,417,514
Treatment Station 1	1,450,985	869,741	-	-	-	-	-	2,320,726
Treatment Lawton Valley	1,637,391	981,475	-	-	-	-	-	2,618,866
Treatment Both Plants	302,138	181,106	-	-	-	-	-	483,244
T&D Pumping	23,855	14,299	21,751	-	-	-	-	59,904
T&D	798,258	478,487	727,841	-	-	-	-	2,004,586
Fire	-	-	-	-	-	-	21,589	21,589
Meters	-	-	-	363,862	-	-	-	363,862
Services	-	-	-	-	-	206,193	-	206,193
Billing	-	-	-	-	14,514	-	-	14,514
	5,630,142	2,525,107	749,591	363,862	14,514	206,193	21,589	9,511,000
	59%	27%	8%	4%	0%	2%	0%	100%
	295,076	-	-	-	-		-	295,076
Total Non-Admin Costs	10,994,251	3,627,545	1,177,751	682,988	357,820	304,862	45,389	17,190,606
	64%	21%	7%	4%	2%	2%	0%	100%
	76,115	23,870	9,271	6,910	7,433	2,136	515	126,250
	70,115	23,870		•	· · · · · · · · · · · · · · · · · · ·	2,130	313	330,000
	-	-	-	165,000	165,000	-	-	·
	- 	17.000		83,500	83,500	1 (11	-	167,000
	57,395	17,999	6,991	5,210	5,605 3,015	1,611	389	95,200
	30,868	9,680	3,760 771	2,802 575	618	866 178	209 43	51,200
	6,330	1,985						10,500
	754	236	92	68	74	21	5	1,250
	22,250	-	-	-	-	-	-	22,250
	193,712	53,771	20,883	264,065	265,245	4,813	1,161	803,650
	\$ 10,800,539	\$ 3,573,774	\$ 1,156,867	\$ 418,923	\$ 92,575	\$ 300,049 \$	44,229	\$ 16,386,956

1 2017 Nate Filling											
JS Schedule B-1 Rebuttal											
ase Extra Capacity Cost Allocations											
Non-Admin O&M Costs	\$ 5,069,033	\$ 1,102,438	\$	428,160	\$	319,126	\$ 343,306	\$ 98,669	\$ 23,800	\$	7,384,530
Less: Chemicals										\$	-
Station One	\$ (366,315)									\$	(366,315)
Lawton Valley	\$ (328,667)									\$	(328,667)
Source Supply	\$ (66,800)									\$	(66,800)
Electricity										\$	-
Source Supply	\$ (204,304)	\$ -								\$	(204,304)
Station One	\$ (212,484)	\$ -								\$	(212,484)
Lawton Valley	\$ (375,091)	\$ -								\$	(375,091)
Costs Adjusted	\$ 3,515,372	\$ 1,102,438	\$	428,160	\$	319,126	\$ 343,306	\$ 98,669	\$ 23,800	\$	5,830,869
	 60%	19%		7%		5%	6%	2%	0%		100%
	Base	Max Day	N	Max Hour	١	Metering	Billing	Services	Fire	Tot	al \$ Allocated
Non-Administrative Labor											_
Administration	183,039	57,402		22,293		16,616	17,875	5,137	1,239		303,602
Customer Service	0	0		0		162,346	130,271	41,578	0		334,195
Source of Supply - Island	369,130	0		0		0	0	0	0		369,130
Source of Supply - Mainland	54,506	0		0		0	0	0	0		54,506
Station One	405,178	242,869		0		0	0	0	0		648,047
Lawton Valley	390,666	234,171		0		0	0	0	0		624,836
Laboratory	122,679	0		0		0	0	0	0		122,679
Transmission/Distribution	239,433	143,519		218,311		0	0	0	0		601,263
Total	1,764,630	677,961		240,605		178,963	148,146	46,715	1,239		3,058,260
Percent	58%	22%		8%		6%	5%	2%	0%		100%

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule B-2 Rebuttal Allocation of Costs to Water Rate Classes

				Commodity				
ALLOCATION PERCENTAGE	:S		F	Retail	Navy	Portsmouth		
Cost Category	Allocation Basis	Base Charge	Residential	Non-Residential			Fire	Total % Allocated
Base	Average annual demand		39%	27%	13%	21%	0%	100%
Base Excluding PWFD			50%	34%	16%	0%	0%	100%
Base Excluding PWFD & 50	% Navy		54%	37%	9%	0%	0%	100%
Water Quality Protection F	ees		59%	41%	0%	0%	0%	100%
Total Base to Class			41%	28%	12%	18%	0%	100%
Max Day	Estimated customer peaking factors		31%	25%	9%	17%	18%	100%
Base Excluding PWFD			37%	30%	11%	0%	22%	100%
Max Day Excluding PWFD 8	k 50% Navy		39%	32%	6%	0%	23%	100%
Total Max Day to Class			33%	26%	9%	13%	19%	100%
Max Hour	Estimated customer peaking factors		17%	20%	5%	9%	48%	100%
Base Excluding PWFD			19%	22%	6%	0%	53%	100%
Max Hour Excluding PWFD	& 50% Navy		20%	22%	3%	0%	55%	100%
Total Max Hour to Class			20%	22%	3%	0%	55%	100%
Metering	Direct Assignment	100%						100%
Billing	Direct Assignment	100%						100%
Services	Direct Assignment	100%						100%
Fire	Direct Assignment						100%	100%
Treatment Plant Avg. Day	Assured Capacity		0%	0%	0%	0%	0%	0%
Treatment Plant Max. Day	Assured Capacity		0%	0%	0%	0%	0%	0%

Rhode Island Public Utilities Commission Docket 4595 FY 2016 Rate Filing HJS Schedule B-2 Allocation of Costs to Water Rate Classes

Rate Year
9,702,554
1,267,842
23,855
(22,250
(171,462
1,439,978
2,853,284
759,962
14,299
(53,771
478,976
-
1,156,000
21,751
(20,883)
178,823
682,988
(264,065
131,040
304,862
(4,813)
39,802
357,820
(265,245
175,479
45,389
(1,161
7,243
-
-

			Commodit	y Charges			
			etail				
Base Char	rge	Residential	Non-Residential	Navy	Portsmouth	Fire	Total \$ Allocated
		3,809,890	2,634,366	1,226,069	2,032,229		9,702,554
		684,447	473,264	110,132	2,032,229		1,267,842
		11,849	8,193	3,813			23,855
		(13,154)	(9,096)				(22,250)
		(70,277)	(48,593)		(31,694)		(171,462)
		590,200	408,097	175,509	266,172	-	1,439,978
		881,097	705,543	266,077	483,126	517,441	2,853,284
		299,314	239,677	45,194	-	175,778	759,962
		5,316	4,256	1,605	-	3,122	14,299
		(17,576)	(14,074)	(4,638)	(7,161)	(10,322)	(53,771)
		156,562	125,368	41,312	63,791	91,944	478,976
		228,860	257,050	35,635	-	634,456	1,156,000
		4,177	4,692	1,301		11,581	21,751
		(4,132)	(4,641)		_	(11,455)	
		35,383	39,741	5,608	_	98,090	178,823
682,9	988	-	-	-	_	-	682,988
(264,0							(264,065)
131,0							131,040
304,							304,862
(4,8	813)						(4,813)
	802						39,802
357,		-	-	-	-	-	357,820
(265,	245)						(265,245)
175,4							175,479
						45,389	45,389
						(1,161)	(1,161)
						7,243	7,243
		Treatmer	nt Capital Allocated L	Jsing B/EC (See Sch	edule HJS-5		-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
\$ 1,157,8	868 \$	6,601,955	\$ 4,823,843	\$ 1,886,063	\$ 2,806,463	\$ 1,562,105	\$ 18,838,297

COST OF SERVICE PER UNIT

Total To Recover through Rates

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

18,838,297

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

070	3370	2070	10/0	13/0	070	1.00
Metering						
(1)	(2)	(2)	(2)	(2)	(3)	
Equivalent						
meters x 12	1000's of gallons	1000's of gallons	1000's of gallons	1000's of gallons	Equivalent	
months	annually	annually	annually	annually	Connections	Total
2.9%	35.0%	25.6%	10.0%	14.9%	8.0%	100.0%
\$ 549,963	\$ 6,601,955	\$ 4,823,843	\$ 1,886,063	\$ 2,806,463	\$ 1,510,634	\$ 18,838,297
208,188	661,222	457,205	247,078	432,782	157,692	_
\$2.6417	\$9.98	\$10.55	\$7.63	\$6.48	\$9.58	
	per 1000					
per equiv	gallons	per 1000 gallons	per 1000 gallons	per 1000 gallons	Equivalent	
per month					connections	

	Billing		Services		Hydrants	
No.	of bills per	E	quivalent			
	year	Co	nnections	No. of Hydrants		
	1.4%		1.8%		0.3%	
\$	268,054	\$	339,851	\$	51,472	
	175,084		274,672		1,039	
	\$1.5310		\$1.2373	40	49.5395	
	per bill	p	er equiv	ре	r 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'.

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule B-3 Rebuttal Cost Allocation Bases

Allocation Basis

Average Day Demand Patterns
Maximum Day Demand Patterns
Maximum Hour Demand Patterns
Fire Protection
Non Admin less electricity & chemicals
Customer Service Salaries and Wages
Non-Administrative Wages & Salaries
Capital Costs
Total Non-Admin Costs before Offsets
Other Costs
Treatment Plant Capital

								Direct Fire	Total %
Used to allocate the following cost categories	Source Schedule	Base	Max Day	Max Hour	Metering	Billing	Services	Protection	Allocated
Supply, Laboratory	N/A	100%							100%
Treatment	B-1	63%	37%	0%					100%
Pumping, Transmission/Distribution, Storage	B-1	40%	24%	36%					100%
Public/Private Fire Protection Costs	D-2							100%	100%
Administration Salaries, Wages, & Benefits	B-1	60%	19%	7%	5%	6%	2%	0%	100%
Customer Service Salaries, Wages, & Benefits	B-4	0%	0%	0%	49%	39%	12%	0%	100%
Administrative Labor Related	B-1	58%	22%	8%	6%	5%	2%	0%	100%
Certain Legal and Administrative	B-1	59%	27%	8%	4%	0%	2%	0%	0%
Certain Legal and Administrative	B-1	64%	21%	7%	4%	2%	2%	0%	100%
Administration Non-Salary Costs	B-1	60%	19%	7%	5%	6%	2%	0%	100%
Treatment Capital Costs	B-4	63%	37%	0%	0%	0%	0%	0%	

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule B-4 Rebuttal Allocation Analyses

dministration 15-500-2200	
Salaries by Staff Position	
Director of Utilities	\$ 76,683
Administrative Secretary	\$ 28,121
Deputy Director - Finance	\$ 56,548
Deputy Director - Engineering	\$ 65,365
Financial Analyst	\$ 54,865
Salary \$ Allocation Results	\$ 281,582

Resulting % Allocation of Administration Salaries, Wages, & Benefits

Customer Service 15-500-2209

Salaries by Staff Position	
Meter Repairman/Reader	\$ 46,419
Meter Repairman/Reader	\$ 44,244
Principal Account Clerk	\$ 37,889
Meter Repairman/Reader	\$ 46,372
Maintenance Mechanic	\$ 50,777
Principal Account Clerk	\$ 21,204
Water Meter Foreman	\$ 62,405
Salary \$ Allocation Results	\$ 309,310

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

Treatment Plant Capital

		Base	(Avg. Day)	1	Max Day	Total
Treatment Station 1	\$ 2,320,726	\$	1,450,985	\$	869,741	\$ 2,320,726
Treatment Lawton Valley	2,618,866	\$	1,637,391	\$	981,475	\$ 2,618,866
Treatment Both Plants	483,244	\$	302,138	\$	181,106	\$ 483,244
_	\$ 5,422,837	\$	3,390,515	\$ 2	2,032,321	\$ 5,422,837

		Non-			Treatment		
	Residential	Residential	Navy	PWFD	Fire	Plant Capacity	
Capacity Reserved for Avg. Day Demand (MGD) ¹	3.20	2.21	0.95	1.64	N/A	8	
% of Avg. Day Treatment Capacity	40.0%	27.6%	11.9%	20.5%	N/A	100%	
Capacity Reserved for Max. Day Demand (MGD) ¹	5.81	4.35	1.395	3.00	1.44	16	
% of Max. Day Treatment Capacity	36.33%	27.20%	8.72%	18.75%	9.00%	100%	

¹ Per Demand study to determine required treatment capacity for design of DB treatment plant projects.

				Alloca	tio	n of Sala	ry Co	sts					
										Di	rect Fire		Total
Base	١	Max Day	M	ax Hour	N	letering		Billing	Services	Pr	otection	A	Allocated
60%		19%		7%		5%		6%	2%		0%		100%
60%		19%		7%		5%		6%	2%		0%		100%
60%		19%		7%		5%		6%	2%		0%		100%
60%		19%		7%		5%		6%	2%		0%		100%
60%		19%		7%		5%		6%	2%		0%		100%
\$ 169,763	\$	53,238	\$	20,677	\$	15,411	\$	16,579	\$ 4,765	\$	1,149	\$	281,582
 60%		19%		7%		5%		6%	2%		0%		100%

			50%	50%			100%
			50%	50%			100%
				100%			100%
			100%				100%
			33%	33%	34%		100%
			100%				100%
			33%	33%	34%		100%
			\$ 150,258 \$	120,571 \$	38,482		\$ 309,310
0%	0%	0%	49%	39%	12%	0%	100%

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule B-5 Rebuttal Capital Functionalization

Page 1 of 2

Functional Break Down of Existing Fixed Assets

			Treatment	Treatment	Treatment							
		Supply	Station 1	Lawton Valley	Both Plants	T&D	T&D Pump	Fire	Meters	Services	Billing	
TRANSMISSION/DISTRIBUTION \$	34,349,799					100%						100%
LAWTON VALLEY \$	47,328,373			100%								100%
STATION 1 \$	41,940,359		100%									100%
TREATMENT BOTH \$	8,733,230				100%							100%
STORAGE \$	1,877,251					100%						100%
SOURCE OF SUPPLY \$	25,539,067	100%										100%
METERS \$	6,575,750								100%			100%
SERVICES \$	3,726,343									100%		100%
T&D PUMPING \$	1,082,596						100%	i				100%
BILLING \$	262,302										100%	100%
FIRE \$	390,166							100%				100%
WORK IN PROGRESS		100%	0%	0%								100%
Total \$	171,805,236											
	L											
LABORATORY \$	80,000	100%	0%	0%	0%	0%	0%	0%			0%	100%
LAND AND ROW \$	3,594,491	15%	24%	28%	5%	21%	1%	0%	4%	2%	0%	100%
\$	3,674,491											

Total Fixed Assets \$ 175,479,728

			Troatmont	Troatmont	Treatment			I				
			Treatment	Treatment								
		Supply	Station 1 L	awton Valley	Both Plants	T&D	T&D Pump	Fire	Meters	Services	Billing	Total
TRANSMISSION/DISTRIBUTION S	34,349,799	\$ - \$	- \$	-	\$ -	\$ 34,349,799	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 34,349,799
LAWTON VALLEY S	47,328,373	-	-	47,328,373	-	-	-	-	-	-	-	47,328,373
STATION 1 S	41,940,359	-	41,940,359	-	-	-	-	-	-	-	-	41,940,359
TREATMENT BOTH	8,733,230	-	-	-	8,733,230	-	-	-	-	-	-	8,733,230
STORAGE S	1,877,251	-	-	-	-	1,877,251	-	-	-	-	-	1,877,251
SOURCE OF SUPPLY	25,539,067	25,539,067	-	-	-	-	-	-	-	-	-	25,539,067
METERS S	6,575,750	-	-	-	-	-	-	-	6,575,750	-	-	6,575,750
SERVICES S	3,726,343	-	-	-	-	-	-	-	-	3,726,343	-	3,726,343
T&D PUMPING	1,082,596	-	-	-	-	-	1,082,596	-	-	-	-	1,082,596
BILLING S	262,302	-	-	-	-	-	-	-	-	-	262,302	262,302
FIRE S	390,166	-	-	-	-	-	-	390,166	-	-	-	390,166
WORK IN PROGRESS S	-	-	-	-	-	-	-	-	-	-	-	-
Total \$	171,805,236	\$ 25,539,067 \$	41,940,359 \$	47,328,373	\$ 8,733,230	\$ 36,227,050	\$ 1,082,596	\$ 390,166	\$ 6,575,750	\$ 3,726,343	\$ 262,302	\$ 171,805,236
		15%	24%	28%	5%	21%	1%	0%	4%	2%	0%	
LABORATORY S	80,000	80,000									_	80,000
LAND AND ROW	,	534,326	877,472	990,199	182,716	757,939	22,650	8,163	137,577	77,962	5,488	3,594,491
EARD ARD ROW	3,674,491		877,472 \$	990,199	\$ 182,716				4	\$ 77,962		\$ 3,674,491
•	3,07-,-31	17%	24%	27%	5%	21%	1%	0%	4%	2%	0%	ŷ 3,07 4,431
		1770	2470	2770	370	21/0	170	070	470	270	070	
	Total Allocated	\$ 26,153,393 \$	42,817,831 \$	48,318,572	\$ 8,915,946	\$ 36,984,988	\$ 1,105,246	\$ 398,329	\$ 6,713,328	\$ 3,804,305	\$ 267,790	\$ 175,479,728
% of Total Asset Valu		15%	24%	28%	5%	21%	1%	0%	4%	2%	0%	

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule B-5 Rebuttal Capital Functionalization

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Functionalization of Capital Costs

			Treatment	Treatment	Treatment							
		Supply	Station 1	Lawton Valley	Both Plants	T&D	T&D Pump	Fire	Meters	Services	Billing	
Capital Spending Restricted Account \$	2,700,000	15%	24%	28%	5%	21%	1%	0%	4%	2%	0%	100%
Debt Service \$	6,811,000	15%	24%	28%	5%	21%	1%	0%	4%	2%	0%	100%
\$	9,511,000											

			Treatment	Treatment	Treatment							
		Supply	Station 1	Lawton Valley	Both Plants	T&D	T&D Pump	Fire	Meters	Services	Billing	Total
Capital Spending Restricted Account \$	2,700,000	\$ 402,406	\$ 658,812	\$ 743,449	\$ 137,184	\$ 569,066	\$ 17,006	\$ 6,129	\$ 103,294	\$ 58,535	\$ 4,120	\$ 2,700,000
Debt Service \$	6,811,000	1,015,107	1,661,914	1,875,418	346,060	1,435,521	42,899	15,461	260,568	147,659	10,394	\$ 6,811,000
\$	9.511.000	\$ 1,417,514	\$ 2,320,726	\$ 2.618.866	\$ 483,244	\$ 2,004,586	\$ 59,904	\$ 21.589	\$ 363.862	\$ 206,193	\$ 14.514	\$ 9.511.000

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Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule B-6 Rebuttal Water Demand History

Docket No. 4595

Annual Demand by Class Residential Non-Residential Navy Portsmouth

Total (in 1000's Gallons)

																Rate Year
					Ann	ual Demand in	1000s Gallons							Demand Proje	ction Options	Demand
FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	2-Year	3-Year	Projection
773,872	780,666	736,577	716,037	749,409	757,478	780,264	690,544	644,285	640,966	618,574	663,331	651,514	670,930	661,222	661,925	661,222
580,798	583,184	663,766	573,711	493,539	469,164	505,014	519,521	454,981	502,475	472,437	485,331	446,842	467,568	457,205	466,580	457,205
307,051	348,222	511,299	417,869	373,306	223,457	247,728	225,392	173,790	137,731	222,858	250,769	276,891	217,265	247,078	248,308	247,078
455,142	451,723	422,944	429,465	463,253	450,942	473,338	444,777	412,324	398,827	407,837	411,578	455,255	410,309	432,782	425,714	432,782
2,116,863	2,163,795	2,334,586	2,137,082	2,079,508	1,901,042	2,006,344	1,880,234	1,685,380	1,679,999	1,721,706	1,811,009	1,830,502	1,766,072	1,798,287	1,802,528	1,798,287
	2.2%	7.9%	-8.5%	-2.7%	-8.6%	5.5%	-6.3%	-10.4%	-0.3%	2.5%	5.2%	1.1%	-3.5%			

										Pe	aking Comparis	on
		Combined Station #1 and LV WTP										
				Production	Volumes in 1,	000 gals					System Peaks	
											Estimated	
											from Daily	System
										Production	Demand	Diversity
	2007	2008	2009	2010	2011	2012	2013	2014	2015	Peaks	Data	Ratio (1)
Annual Production	2,456,363	2,524,784	2,437,440	2,440,630	2,304,024	2,059,646	2,071,219	2,115,343	2,027,100	2,071,221		
Average Day Production	6,730	6,917	6,678	6,687	6,312	5,643	5,675	5,795	5,554	5,674.58		
Maximum Month Production	256,796	269,819	280,875	254,088	268,468	244,463	236,739	227,653	219,066	223,360		
Maximum Day Production	10,165	10,724	12,100	9,800	10,163	10,606	9,721	9,462	8,690	9,076		
Max Day Date	6/28/2007	8/4/2007	7/18/2008	8/23/2010	7/23/2011	7/7/2012	7/7/2012	7/6/2013	7/25/2014			
Maximum Day Peaking Factor	1.51	1.55	1.81	1.47	1.61	1.88	1.71	1.63	1.56	1.7	2.15	1.26
Max-Day to Avg. Day/Max-Month Ratio	1.19	1.23	1.34	1.20	1.17	1.34	1.27	1.29	1.23	1.3		
Maximum Hour	13,800	15,200	13,250	10,700	12,100	12,500	14,200	12,500	16,000	14,250		
Maximum Hour Peaking Factor	2.05	2.20	1.98	1.60	1.92	2.22	2.50	2.16	2.88	2.5	2.97	1.18

Coincident Noncoincident Excluding Fire Protection

⁽¹⁾ Calculated according to AWWA M-1 Guidelines

HJS Schedule B-8 Rebuttal

FY 2017 Rate Filing

Docket No. 4595

Billed Demand Peaking Analysis: Determination of Customer Class Peaking Factors

Estimation of Each Customer Class' Peaking Factors

		Max Day	Max Hour
		Demand	Demand
Customer Class		Factor	Factor
Residential		2.10	2.80
Non-Residential		2.28	3.42
Navy		2.04	2.71
Portsmouth		2.13	2.85
Fire	(5)		
Estimated Systemwide Peaks		2.15	2.97
Portsmouth Fire	(5)	2.13	2.85

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

System Demands Imposed by Each Customer Class' Peaking Behavior

Docket No. 4595

Customer Class Residential Non-Residential

Navy Portsmouth Fire

Total, w Fire Prot.

Production

Г		Rate	Year Demand	(1,000 gallons	5)		
Γ				Aajustea		% Average	
				Average	% Average	Demand Ex	% Average
	Annual	Average Daily	Lost Water	Daily	Demand by	PWFD & 50%	Demand Ex
	Demand	Demand	Adjustment	Demand	Class	Navy	PWFD
Г	661,222	1,812	411	2,223	39.27%	54%	50%
	457,205	1,253	284	1,537	27.15%	37%	34%
	247,078	677	38	715	12.64%	9%	16%
	432,782	1,186	-	1,186	20.95%	0%	0%
					N/A	N/A	N/A
Ξ	1,798,287	4,927	13%	5,661	100%	100%	100%
			(1)				
	2,066,248	5,661	12.97%				

Customer Class Residential Non-Residential Navy Portsmouth Fire

(2) Total, w Fire Prot. Total, without Fire Protection

	Max Day Cal	culations			% of Daily Peak	S	Max	Hour Calculati	ons	9	6 of Hourly Peal	cs
	Demand x	Incremental		With Full	Without			Demand x	Incremental	With Full	Without	
Max Day	Peaking Factor	Peak	% of Daily	PWFD &	PWFD & 50%	Without	Max Hour	Peaking	Peak	PWFD &	PWFD & 50%	Without
Peaking Factor	(3)	Demand	Peaks	Navy	Navy	PWFD	Peaking Factor	Factor	Demand	Navy	Navy	PWFD
2.10	4,675	2,452	30.9%	30.9%	39.4%	37.2%	2.80	6,233	1,558	17.4%	19.8%	19.2%
2.28	3,500	1,963	24.7%	24.7%	31.5%	29.8%	3.42	5,251	1,750	19.5%	22.2%	21.6%
2.04	1,456	740	9.3%	9.3%	5.9%	11.2%	2.71	1,941	485	5.4%	3.1%	6.0%
2.13	2,530	1,345	16.9%	16.9%	0.0%	0.0%	2.85	3,374	843	9.4%	0.0%	0.0%
	1,440	1,440	18.1%	18.1%	23.1%	21.8%		5,760	4,320	48.2%	54.9%	53.2%
	13,601	7,940	100.0%	100.0%	100.0%	100.0%		22,559	8,957	100.0%	100.0%	100.0%
	12,161	6,500					16,799	4,637				

(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'.

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing

HJS Schedule B-10 Rebuttal

Summary of Peak Load Distributions (by Rate Class and Base/Extra-Capacity Categories)

EACH RATE CLASS' SHARE OF SYSTEM PEAKS

	100%	100%	100%
Fire	N/A	18%	48%
Portsmouth	21%	17%	9%
Navy	13%	9%	5%
Non-Residential	27%	25%	20%
Residential	39%	31%	17%
Retail			
ate Class	Demand	Daily Peaks	Hourly Peaks
	Average		

BASE/EXTRA-CAPACITY DISTRIBUTION OF SYSTEM PEAKS

		%	%
	Incremental	Distribution	Distribution
	Demand	for Max Day	for Max Hour
Base	5,675	62.5%	39.8%
Extra Capacity			
Max Day	3,401	37.5%	23.9%
Max Hour	5,174		36.3%
Fire Protection			
Max Day	-	0.0%	0.0%
Max Hour	-		0.0%
Total%		100.0%	100.0%
Total 1000's Gallons		9,076	14,250

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Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule B-11 Rebuttal Fire Protection Demand Analysis

FIRE PROTECTION ASSUMPTIONS

•	FROTECTION ASSOMETION	10	
	Fire Protection Flow	(gals per minute)	4,000
	Hourly Fire Protection Flow	(1000's of gallons)	240
	Length of Fire Event (in hou	ırs)	6

Docket No. 4595

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule D-1 Rebuttal Water Accounts, by Size and Class

		NON-RE	SIDENTIAL	RESIDI	NTIAL		WHOLESALI	E (Monthly)	
Connection	Meter	Meter Read Frequency	Equivalent Meters	Meter Read Frequency	Equivalent Meters	Na	ıvy	Ports	mouth
Size	Factors	Monthly	Monthly	Monthly	Monthly	Meters	Equivalents	Meters	Equivalents
5/8	1.0	890	890	9,854	9,854	5	5	0	0
3/4	1.1	305	336	2,190	2,409	1	1	0	0
1	1.4	220	308	346	484	1	1	0	0
1.5	1.8	197	355	178	320	1	2	0	0
2	2.9	168	487	94	273	1	3	0	0
3	11.0	40	440	18	198	0	0	0	0
4	14.0	14	196	2	28	0	0	1	14
5	18.0	-	-	-	-	0	0	0	0
6	21.0	16	336	8	168	8	168	0	0
8	29.0	-	-	1	29	0	0	0	0
10	43.5	-	-	-	-	1	44	0	0
Total	14,560	1,850	3,348	12,691	13,763	18	224	1	14

Billed Monthly Billed Quarterly Billed Annually

Equivalent Billing Units							
14,560	174,720						
-	-						
364	364						
Total	175,084						

Equivalent Meter Units							
17,349	208,188						
-	-						
N/A	N/A						
Total	208,188						

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule D-2 Rebuttal Fire Protection Accounts

				Equivalent	
	Connection	Existing	Number of	Connections	
	Size	Differential	Connections	(2)	
Public Hydrants					
Newport	6	111.31	620	69,013	
Middletown	6	111.31	410	45,637	% of Equiv
Portsmouth	6	111.31	9	1,002	Connections
Subtotal: Public Hydrants			1039	115,652	73%
Private Fire Connections					
	2	6.19	0	-	
	4	38.32	74	2,836	
	6	111.31	235	26,158	
	8	237.21	55	13,046	
	10	426.58	0	-	% of Equiv
	12	689.04	0	-	Connections
Subtotal: Private Fire Connections			364	42,040	27%
Total Fire Connections			1,403	157,692	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	Service	No. of	Equivalent	
General Water Service	Connection	Service	INO. OI	Equivalent	
	Size	Cost	Services	Connections	
	5/8	1.000	10,749	10,749	
	3/4	1.000	2,496	2,496	
	1	1.860	567	1,055	
	1.5	4.630	376	1,741	
	2	6.150	263	1,617	
	3	11.060	58	641	
	4	11.060	17	188	
	5	11.060	0	0	
	6	11.060	32	354	
	8	11.060	1	11	% of Equiv
	10	11.060	1	11	Connections
Subtotal General Service			14,560	18,863	82%
Private Fire Connections					1
	2	6.150	0	-	
	4	11.060	74	818	
	6	11.060	235	2,599	
	8	11.060	55	608	
	10	11.060	0	-	% of Equiv
	12	11.060	0	-	Connections
Subtotal: Private Fire Conne	ections		364	4,026	18%
Annualized				12	
Total Retail & Private Fire Connections			14,924	274,672	100%
. C.L			,,,	_, -, -, -,	

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule D-3 Rebuttal Production Summary

		Statio	on #1		Lawton	Valley		Com	oined
	Max. Month:	In Gallons	in 1000's	Max. Month:	In Gallons	in 1000's	Max. Month:	In Gallons	in 1000's
FY 12 JULY 2011 - JUNE 2012		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
FY 13 JULY 2012 - JUNE 2013		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
FY14 JULY 2013 - JUNE 2014		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
FY 15 JULY 2014 - JUNE 2015		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
FY16 JULY 2015 - JUNE 2016									

MAX DAY PRODUCTION AVAILABLE FOR SALE

		Station #1			Lawton Valley			Combined	
		Max Day Pr	oduction		Max Day Pr	oduction		Max Day Pr	roduction
	Max Day	In Gallons	in 1000's	Max Day	In Gallons	in 1000's	Max Day	In Gallons	in 1000's
FY 12 JULY 2011 - JUNE 2012	7/4/2011	5,703,000	5,703	8/3/2011	5,981,000	5,981	7/23/2011	10,606,000	10,606
FY 13 JULY 2012 - JUNE 2013	7/6/2012	4,697,000	4,697	9/25/2012	5,400,000	5,400	7/7/2012	9,721,000	9,721
FY14 JULY 2013 - JUNE 2014	9/30/2013	4,749,000	4,749	7/6/2013	5,025,000	5,025	7/6/2013	9,462,000	9,462
FY 15 JULY 2014 - JUNE 2015	9/16/2014	4,096,000	4,096	7/25/2014	5,100,000	5,100	7/25/2014	8,690,000	8,690
FY16 JULY 2015 - JUNE 2016									

PEAK HOURLY FLOW

	Date	Station #1		Date	Lawton Valley	
FY 12 JULY 2011 - JUNE 2012	7/5/2011	6.50	MGD	7/7/2011	6.0	MGD
FY 13 JULY 2012 - JUNE 2013	6/11/2013	8.20	MGD	7/17/2012	6.0	MGD
FY14 JULY 2013 - JUNE 2014	10/16/2013	6.50	MGD	7/7/2013	6.0	MGD
FY 15 JULY 2014 - JUNE 2015	8/29/2014	9.00	MGD	11/12/2014	7.0	MGD
FY16 JULY 2015 - JUNE 2016						

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule D-4 Rebuttal Demand Summary

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
Fiscal Year Annual Demand										
Residential	718,022	757,478	780,264	690,544	644,285	640,966	618,574	663,331	651,514	670,930
Non-Residential	505,804	469,164	505,014	519,521	454,981	502,475	472,437	485,331	446,842	467,568
Navy	373,306	223,457	247,728	225,392	173,790	137,731	222,858	250,769	276,891	217,265
Portsmouth	453,618	450,942	473,338	444,777	412,324	398,827	407,837	411,578	455,255	410,309
Total 1000's Gallons	2,050,751	1,901,042	2,006,344	1,880,234	1,685,380	1,679,999	1,721,706	1,811,009	1,830,502	1,766,072
		7 20/	E E0/	6 20/	10.49/	0.39/	2 50/	E 20/	1 10/	2.59/

Max Month Demand	(1000's of gallons)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
Residential		79,586	103,115	83,630	83,630	83,630		196,307	185,908	76,838
Commercial		51,545	66,684	61,978	61,978	61,978		67,646	78,970	58,767
Navy		29,771	30,475	24,640	24,640	24,640		25,677	33,876	30,167
Portsmouth		51,270	58,023	61,048	46,840	46,840		51,672	50,961	45,224
NonCoincident Max Month		212,172	258,296	231,296	217,088	217,088		341,302	349,715	210,996
Coincident Max Month		196,132	221,941	201,008				314,693	335,417	
Production Volume, Max Month		256,796	269,819	280,875						

Unaccounted for Water Analysis

	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Average
Billed Consumption (1,000 gals.)	1,901,042	2,006,344	1,880,234	1,685,380	1,679,999	1,721,706	1,811,009	1,830,502	1,766,072	1,802,528
Total Water Produced (1,000 gals.)	2,456,363	2,524,784	2,437,440	2,440,630	2,304,024	2,059,646	2,071,219	2,115,343	2,027,100	2,071,221
Unaccounted for Water (1,000 gals.)	555,321	518,440	557,206	755,250	624,026	337,940	260,210	284,841	261,028	268,693
Percent Unaccounted for Water	22.61%	20.53%	22.86%	30.94%	27.08%	16.41%	12.56%	13.47%	12.88%	12.97%

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule D-5 Rebuttal Development of Pumping Costs

Pumping Labor and Benefits

Station One		Lawton Valley	
Labor hours per day pump Days per year	0.5000 365	Labor hours per day pumping Days per year	0.5000 365
Total Hours	182.5000	Total Hours	182.5000
Average per hour pay	\$25.59	Average per hour pay	\$24.52
Average per hour benefits	\$13.48	Average per hour benefits	\$14.18
Pumping Salaries	\$4,670.18	Pumping Salaries	\$4,474.90
Pumping Benefits	\$2,460.10	Pumping Benefits	\$2,587.85

Pumping Repairs and Supplies Station One

Station One Lawton Valley

Total		Repair & Maintenance - E None & Maintenance Pumping		Repair & Maintenance - Equipment Vendor None	amount \$0.00
				Total Repair & Maintenance Pumping	\$0.00
	50311	Operating Supplies Vendor	amount	Operating Supplies Vendor	amount
Total	- Opera	ating Supplies - Pumping	\$0.00	Total Operating Supplies Pumping	\$0.00

Pumping Electricity

Station One		Lawton Valley	
Annual Pumping Power	\$2,132	Annual Pumping Power	\$67,529

Total Pumping Costs

3111 <u>6</u> C0313			
Station One		Lawton Valley	
Pumping Salaries	\$4,670	Pumping Salaries	\$4,475
Pumping Benefits	\$2,460	Pumping Benefits	\$2,588
Total Repair & Maintenance Pumping	\$0	Total Repair & Maintenance Pumping	\$0
Total - Operating Supplies - Pumping	\$0	Total Operating Supplies Pumping	\$0
Annual Pumping Power	\$2,132	Annual Pumping Power	\$67,529
Total Annual Pumping Costs	\$9,262	Total Annual Pumping Costs	\$74,592

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule D-6 Rebuttal Debt Service Restricted Account Cashflow

Debt Service Account

Beginning Cash Balance

Additions From Rates From Capital Restricted Acct.

Interest Income
Total Additions

Deductions

Existing Debt Service To Capital Restricted Acct.
Proposed Debt Service
Total Deductions

Ending Cash Balance

Debt Service Account

Ending Cash Balance

Debt Service Account

Additions From Rates

Deductions

Beginning Cash Balance

From Capital Restricted Acct. Interest Income
Total Additions

To Capital Restricted Acct.

Existing Debt Service
Total Deductions

Beginning Cash Balance

Additions
From Rates
From Capital Restricted Acct.

Interest Income
Total Additions Deductions
To Capital Restricted Acct.

Existing Debt Service
Total Deductions

					FY 20)12	Actual					
July	August	September	October	November	December		January	February	March	April	May	June
\$ 1,989,949	\$ 1,989,964	\$ 2,325,118	\$ 1,789,176	\$ 1,952,745	\$ 1,555,935	\$	1,688,396	\$ 1,820,952	\$ 1,953,399	\$ 3,105,596	\$ 3,238,043	\$ 3,353,004
- 15	\$335,137 - 17	\$167,569 18	\$167,569 - 14	\$167,569 - 15	\$132,447 - 14		\$132,447 - 108	\$132,447 -	\$132,447 1,310,042	\$132,447 -	\$132,447 -	\$132,447 -
\$	\$ 335,154	\$	167,583	\$ 167,584	\$ 132,461	\$	132,556	\$ 132,447	\$ 1,442,489	\$ 132,447	\$ 132,447	\$ 132,447
		703,529	4,015	564,393				-	290,293		17,486	401
\$ -	\$ -	\$ 703,529	\$ 4,015	\$ 564,393	\$ -	\$	-	\$ -	\$ 290,293	\$ -	\$ 17,486	\$ 401
\$ 1,989,964	\$ 2,325,118	\$ 1,789,176	\$ 1,952,745	\$ 1,555,935	\$ 1,688,396	\$	1,820,952	\$ 1,953,399	\$ 3,105,596	\$ 3,238,043	\$ 3,353,004	\$ 3,485,051

Annual Contribution From Rates \$1,764,975

Annual Debt

Service Payments \$ 1.580.116

						FY 20	13 /	Actual					
July	August	September	October	٨	lovember	December		January	February	March	April	May	June
\$ 3,485,051	\$ 3,617,499	\$ 3,749,946	\$ 2,644,279	\$	2,776,727	\$ 2,520,419	\$	2,520,419	\$ 1,475,292	\$ 1,607,739	\$ 1,037,970	\$ 1,170,417 \$	1,302,864
\$132,447 -	\$132,447 -	\$132,447	\$132,447 -		\$132,447 -			\$264,895 -	\$132,447 -	\$132,447 -	\$132,447 -	\$132,447 -	\$321,865
0	0	0	0		0	0		19	0	0	0	0	9
\$ 132,447	\$ 132,447	\$ 132,447	\$ 132,447	\$	132,447	\$ 0	\$	264,914	\$ 132,447	\$ 132,447	\$ 132,447	\$ 132,447 \$	321,874
		1,238,114			388,755					702,217			
\$ -	\$ -	\$ 1,238,114	\$ -	\$	388,755	\$ -	\$	-	\$ -	\$ 702,217	\$ -	\$ - 9	-
\$ 3,617,499	\$ 3,749,946	\$ 2,644,279	\$ 2,776,727	\$	2,520,419	\$ 2,520,419	\$	1,475,292	\$ 1,607,739	\$ 1,037,970	\$ 1,170,417	\$ 1,302,864	1,624,738

Annual Contribution From Rates \$1,778,786

Annual Debt

Service \$ 2,329,086

Annual

From Rates \$3,735,016

Annual Debt

Service

2.750.494

Contribution

										FY 20	14 A	ctual										
July		August	Se	ptember	(October		November		December		January		February		March		April		May		June
1,624,738	s	1,936,007	s	850,248	s	1,161,524	s	1,472,779	s	1,773,422	s	2,084,681	s	2,395,942	s	2,707,204	s	1,675,614	s	1,986,873	s	1,986,
.,,	•	.,,	•	,	•	.,,		.,,	-	.,,	•	_,,	-	_,,	•	_,,	•	.,,	•	.,,	-	1,000,
\$311,251		\$311,251		\$311,251		\$311,251		\$311,251		\$311,251		\$311,251		\$311,251		\$311,251		\$311,251		\$0		\$622,
-		-		-		-		-		-		-		-		-		-		-		
17	\$	22		24		4		-		8		9		11		11		8		8		
311,269	\$	311,274	\$	311,275	\$	311,256	\$	311,251	\$	311,259	\$	311,261	\$	311,262	\$	311,263	\$	311,259	\$	8	\$	622,
-		-		-		-		-		-				-		-		-		-		
	\$	1,397,032						10,609								1,342,853						
-	\$	1,397,032	\$	-	\$	-	\$	10,609	S	-	\$	-	S	-	S	1,342,853	S	-	S	-	\$	

\$ 1,936,007 \$ 850,248 \$ 1,161,524 \$ 1,472,779 \$ 1,773,422 \$ 2,084,681 \$ 2,395,942 \$ 2,707,204 \$ 1,675,614 \$ 1,986,873 \$ 1,986,881 \$ 2,609,394

Ending Cash Balance

FY 2015

		July	Augu	ıst	September	October	November	December	January	February	March	April	May	June
									-		<u> </u>			
Debt Service Account														
Beginning Cash Balance	\$	2,609,394	\$ 3,17	76,988 \$	4,209,585	\$ 571,079	\$ 673,663	\$ 1,241,249	\$ 1,808,836	\$ 2,376,4	26 \$ 2,944,018	\$ 2,079,572 \$	2,647,164 \$	3,214,757
Additions														
From Rates From Capital Restricted Acct.	s	\$567,583		57,583 65.000 \$	\$567,583	\$567,583 \$ -	\$567,583 \$ -	\$567,583 \$ -	\$567,583	\$567,58 \$		\$567,583 \$ - \$	\$567,583 - \$	\$567,583
Interest Income	ۍ	12	\$ 40	14	17	1	3	3 - 4	ۍ - 7		- 3 10 11		11	14
Total Additions	\$		\$ 1,03	32,597 \$	567,600	\$ 567,584	\$ 567,586	\$ 567,587	\$ 567,590			\$567,591 \$	567,594 \$	567,597
Deductions														
To Capital Restricted Acct.		-		-	4,206,106	465,000	-	-	-		1,432,040	-	-	-
Existing Debt Service Total Deductions	S		S	- S		\$ 465,000	\$ -	\$ -	\$ -	S	- \$ 1,432,040	s - s	- \$	_
Total Boadollollo	•			Ť	1,200,700	700,000		•	•	•	1,102,010		ŭ	
Ending Cash Balance	\$	3,176,988	\$ 4,20	09,585 \$	571,079	\$ 673,663	\$ 1,241,249	\$ 1,808,836	\$ 2,376,426	\$ 2,944,0	18 \$ 2,079,572	\$ 2,647,164 \$	3,214,757 \$	3,782,354
								EV	2016					
		July	Augu	ıst	September	October	November	December	January	February	March	April	Mav	June
		,								, , , , , , , , , , , , , , , , , , , ,		- 4		
Debt Service Account														
Beginning Cash Balance Additions	\$	3,782,354	\$ 4,34	49,953 \$	5,304,709	\$ 70,593	\$ 638,176	\$ 1,205,760	\$ 1,773,347	\$ 2,340,9	36 \$ 2,908,528	\$ 2,080,618 \$	2,648,201 \$	3,215,784
From Rates		\$567,583	\$56	57,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,58	33 \$567,583	\$567,583	\$567,583	\$567,583
From Capital Restricted Acct.		-		29,779	-	-	-	-	-	\$557,55		-	-	-
Interest Income		16		20	23	0	1	4	6		9 12		-	<u>-</u>
Total Additions	\$	567,599	\$ 1,09	97,382 \$	567,606	\$ 567,583	\$ 567,584	\$ 567,587	\$ 567,589	\$ 567,5	92 \$ 567,595	\$ 567,583 \$	567,583 \$	567,583
Deductions To Control Description of Asset					500 770									
To Capital Restricted Acct. Existing Debt Service		-	1.	- 42,627	529,779 5,271,942	-	-	-	-		1,395,505		-	-
Total Deductions	\$	-		42,627 \$	5,801,722	\$ -	\$ -	\$ -	\$ -	\$	- \$ 1,395,505		- \$	
Ending Cash Balance	\$	4,349,953	\$ 5,30	04,709 \$	70,593	\$ 638,176	\$ 1,205,760	\$ 1,773,347	\$ 2,340,936	\$ 2,908,5	28 \$ 2,080,618	\$ 2,648,201 \$	3,215,784 \$	3,783,367
								F	2017					
		July	Augu	ıst	September	October	November	December	January	February	March	April	May	June
				•			<u> </u>							
Debt Service Account														
Beginning Cash Balance	s	3,783,367	\$ 5.22	29.808 \$	5.797.391	\$ 915,300	1,482,883	\$ 2.050.466	\$ 2,618,049	\$ 3,185,6	32 \$ 3,753,215	\$ 2,965,488 \$	3,533,071 \$	4,100,654
Additions	•	0,100,001	Ψ 0,22	20,000 ¥	0,101,001	ψ 510,000 ·	1,402,000	2,000,400	ų <u>2,010,043</u>	9 3,100,0	JE	¥ 2,300,400 ¥	υ,υυυ,υτι ψ	4,100,004
From Rates		\$567,583	\$56	67,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,5	83 \$567,583	\$567,583	\$567,583	\$567,583
From Capital Restricted Acct.		-		-	-	-	-	-	-			-	-	-
From Accrued Benefits Buyout and Retiree Ins.		878,858												
Interest Income Total Additions	\$	1.446.441	¢ =/	67.583 \$	567.583	\$ 567.583	567.583	\$ 567.583	\$ 567.583	\$ 567,5		\$ 567.583 \$	567,583 \$	567.583
Deductions	ā	1,440,44 I	φ 50	¢ 600,10	001,003	φ 501,583	p 501,583	φ 507,383	φ 307,383	φ 567,5	JJ 4 J07,583	φ 500,100 \$	307,303 \$	300,100
To Capital Restricted Acct.		_		_	_	_	_	_	-			_	_	-
Existing Debt Service					5,449,674						1,355,310			
Total Deductions	S	-	\$	- \$	5,449,674	\$ -:	\$ -	\$ -	\$ -	\$	- \$ 1,355,310	\$ - \$	- \$	-
	-													
Ending Cash Balance	<u> </u>	5,229,808		97,391 \$	915,300	\$ 1,482,883	\$ 2,050,466	\$ 2,618,049	\$ 3,185,632	\$ 3,753,2	15 \$ 2,965,488	\$ 3,533,071 \$	4,100,654 \$	4,668,237

	_	July		August		ptember	October	November	December	2018 January	1	February	March	April	Mav	June
		July		August	56	ptember	October	November	December	January		repruary	Warch	Aprii	way	June
t Service Account																
ginning Cash Balance	\$	4,66	8,237 \$	5,235,82	20 \$	5,803,403 \$	880,712	\$ 1,448,295	2,015,878	2,583,461	\$	3,151,044 \$	3,718,627 \$	2,976,168 \$	3,543,751 \$	4,111,334
From Rates From Capital Restricted Acct.		\$56	7,583	\$567,58	33	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583		\$567,583	\$567,583	\$567,583	\$567,583	\$567,583
Interest Income			-		-	-	_	-	-			-	_	-	-	
Total Additions	\$	56	7,583 \$	567,58	33 \$	567,583 \$	567,583	\$ 567,583 \$	567,583	567,583	\$	567,583 \$	567,583 \$	567,583 \$	567,583 \$	567,583
To Capital Restricted Acct. Existing Debt Service			-		-	5,490,274	-	-	-	-		-	1,310,042	-	-	-
Total Deductions	\$		- \$	-	- \$	5,490,274 \$	-	\$ - \$	- 9		- \$	- \$	1,310,042 \$	- \$	- \$	-
ling Cash Balance	\$	5,23	5,820 \$	5,803,40	03 \$	880,712 \$	1,448,295	\$ 2,015,878 \$	2,583,461	3,151,044	\$	3,718,627 \$	2,976,168 \$	3,543,751 \$	4,111,334 \$	4,678,917
									FY	2019						
		July		August	Se	ptember	October	November	December	January		February	March	April	May	June
t Service Account																
ginning Cash Balance ditions	\$	4,67	8,917 \$	5,246,50	00 \$	5,814,083 \$	844,448	\$ 1,412,031 \$	1,979,614	2,547,197	\$	3,114,780 \$	3,682,363 \$	2,990,566 \$	3,558,149 \$	4,125,732
From Rates From Capital Restricted Acct.		\$56	7,583	\$567,58	33	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583		\$567,583	\$567,583	\$567,583	\$567,583	\$567,583
Interest Income					-											
Total Additions uctions	\$	56	7,583 \$	567,58	33 \$	567,583 \$	567,583	\$ 567,583 \$	567,583	567,583	\$	567,583 \$	567,583 \$	567,583 \$	567,583 \$	567,583
To Capital Restricted Acct. Existing Debt Service			-		-	5,537,218	-	-	-	-		-	1,259,381	-	-	-
Total Deductions	\$		- \$		- \$	5,537,218 \$	-	\$ - \$	- 9	-	- \$	- \$	1,259,381 \$	- \$	- \$	-
ling Cash Balance	\$	5,24	6,500 \$	5,814,08	33 \$	844,448 \$	1,412,031	\$ 1,979,614 \$	2,547,197	3,114,780	\$	3,682,363 \$	2,990,566	3,558,149 \$	4,125,732 \$	4,693,315
									FY	2020						
		July		August	Se	ptember	October	November	December	January		February	March	April	May	June
t Service Account																
eginning Cash Balance Iditions	\$	4,69	3,315 \$	5,260,89	98 \$	5,828,481 \$	805,867	\$ 1,373,450 \$	1,941,033	2,508,616	\$	3,076,199 \$	3,643,782 \$	3,007,209 \$	3,574,792 \$	4,142,375
From Rates		\$56	7,583	\$567,58	33	\$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			-		-	-	-	-	-			-	-	-	-	
Total Additions	\$	56	7,583 \$	567,58	33 \$	567,583 \$	567,583	\$ 567,583 \$	567,583	567,583	\$	567,583 \$	567,583 \$	567,583 \$	567,583 \$	567,583
					_	-	_	_	_			-	-	_	-	-
To Capital Restricted Acct.						5 500 107							1 204 155			
	\$		- \$		- \$	5,590,197 5,590,197 \$; -	\$ - \$	\$	· -	- \$	- \$	1,204,155 1,204,155 \$	- \$	- \$	-

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule D-7 Rebuttal Demand Factor Calculations

FY 2015 Retail Billed Consumption¹

																Avg Day
	July	August	September	October	November	December	January	February	March	April	May	June	Total	Avg Day	Max Mon	Max Mo
Residential	62,233	70,970	75,691	67,674	62,773	48,876	42,772	57,187	42,091	39,574	51,478	47,554	668,873	1,833	75,691	2,523
Non Residential	47,402	52,743	58,767	50,371	46,452	36,419	26,733	30,526	24,069	24,918	34,950	34,218	467,568	1,281	58,767	1,959

1 - Residential consumption for July is actually from July 2015 since the July 2014 bill was a quarterly bill and included consumption for a three month period.

	Based on Mo	onthly Billing Data	1	Based on Daily	Meter Data ²	
	Residential	Non Residential		Navy	PWFD	
FY 2015 Average Day (MGD)	1.83	1.28	FY 2015 Average Day	0.54	1.12	0.541
Avg. Day of Max Month (MGD)	2.52	1.96	FY 15 Maximum Day	1.10	2.39	1.101
MM/AD Factor	1.38	1.53	Max Day/Avg Day	2.04	2.13	
System MD/MM Ratio	1.27	1.27				
Weekly Usage Adjustment	1.20	1.17				
Max Day Capacity Factor	2.10	2.28	Max Day Capacity Factor	2.04	2.13	
System MD/MM Ratio Weekly Usage Adjustment	1.27 1.20	1.27 1.17	, ,			

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

System Demand Data

System Avg. Day System Max Day Avg. Day of System Max. Month System MD/MM Ratio 5.67 9.72 7.64 1.27

Max Day Diversity Factor Calculation	Residential	Commercial	Navy	PWFD			
Class Average Day (mgd)	1.83	1.28	0.54	1.12			
Class MD Demand Factor	2.10	2.28	2.04	2.13 To	ital MD Demand		
ax Day Demand (Avg. Day X MD Demand Factor)	3.85	2.92	1.10	2.39	10.3		
System Average Day (mgd)	5.67	Ye	ear	2013		UAW Adj.	11%
System Maximum Day (mgd)	9.72						
System Maximum Hour (mgd)	14.20						
	MD Demand		AD Demand				
Noncoincident MD Capacity Factor	10.3	/	5.67	=	1.81		
Coincident MD Capacity Factor	9.7	/	5.67	=	1.71		
			Max Da	ay Diversity Factor	1.06		

	Residential	Commercial	Navy	PWFD	
MD Capacity Factor	2.10	2.28	2.04	2.13	
stimated Maximum-Hour (MH)/MD Ratio ³	1.33	1.50	1.33	1.33	
Calculated MH Capacity Factor	2.80	3.42	2.71	2.85	
Max Hour Diversity Factor Calculation	Residential	Commercial	Navy	PWFD	
Class Average Day (mgd)	1.83	1.28	0.54	1.12	
Class MH Demand Factor	2.80	3.42	2.71	2.85 T	otal MH Demand
Hour Demand (Avg. Day X MH Demand Factor)	5.1	4.4	1.5	3.2	14.17
System Average Day (mgd)	5.7				
System Maximum Day (mgd)	9.7				
System Maximum Hour (mgd)	14.2				
	MD Demand		AD Demand		
Noncoincident MH Capacity Factor	14.2	/	5.7	=	2.50
Coincident MH Capacity Factor	14.20	/	5.7	=	2.50
			Max Ho	ur Diversity Factor	1.00

3- MH/MD Ratio Assumptions:

ns: Residential =24 hr. / 18 hr. Commercial =24 hr. / 16 hr. Navy =24 hr. / 18 hr. PWFD =24 hr. / 18 hr.

Rhode Island Public Utilities Commission

Docket 4595

FY 2017 Rate Filing

HJS Schedule D-8 Rebuttal

Comparison of Rates Using Different Treatment Capital Allocations

			Т		Capital Alloca	ted Based on			t Capital Alloc	_
			P	roposed		Projected	F	roposed		Projected
				Rates	% Change	Revenues		Rates	% Change	Revenues
Base Charge	e (per bill)									
Month	nly									
	5/8		\$	5.45	11%	\$702,985	\$	5.41	11%	\$697,825
	3/4		\$	5.71	14%	\$171,026	\$	5.68	13%	\$170,127
	1		\$	7.58	25%	\$51,574	\$	7.54	24%	\$51,302
	1.5		\$	12.09	38%	\$54,550	\$	12.02	37%	\$54,234
	2		\$	16.90	49%	\$53,336	\$	16.81	48%	\$53,052
	3		\$	44.54	77%	\$31,000	\$	44.28	76%	\$30,819
	4		\$	52.51	82%	\$10,082	\$	52.20	81%	\$10,022
	5		\$	63.15	87%	\$0	\$	62.77	86%	\$0
	6		\$	71.12	90%	\$27,310	\$	70.70	89%	\$27,149
	8		\$	92.39	95%	\$1,109	\$	91.83	94%	\$1,102
	10		\$	130.94	101%	\$1,571	\$	130.13	100%	\$1,562
Portsmout	th Base Cha	rge (4")	\$	1.55	-46%	\$19	\$	1.54	-46%	\$18
						\$1,104,562				\$1,097,213
Volume Cha	arge (per 1,0	000 gallons)								
Retail										
Re	esidential		\$	10.22	2%	6,757,689	\$	9.99	0%	6,605,608
No	on-Resident	ial	\$	10.73	-4%	4,905,810	\$	10.56	-6%	4,828,085
						11,663,498				11,433,693
Wholes	sale									
Na	avy		\$	7.4504	14%	1,840,830	\$	7.6335	17%	1,886,070
Po	ortsmouth V	Vater & Fire District	\$	6.4554	25%	2,793,780	\$	6.4848	26%	2,806,504
						4,634,610				4,692,574
Fire Protect	tion									
Public	(per hydran	t)	\$	989.34	5%	1,027,924	\$	1,115.86	18%	1,159,379
Private	e (by Connec	ction Size)								
C	Connection	Existing Charge								
	Size	Differential								
	<2		\$	34.75	34%	_	\$	36.33	40%	_
	2	6.19	\$	145.53	34%	_	\$	152.15	40%	_
	4	38.32	\$	489.97	23%	36,258	\$	532.84	34%	39,430
	6	111.31	\$	1,106.09	16%	259,931	\$	1,232.07	30%	289,536
	8	237.21	\$	2,168.77	14%	119,282	\$	2,438.10	28%	134,096
	10	426.58	\$	3,767.27	13%	- 115,202	\$	4,252.23	27%	-
	12	689.04	\$	5,982.72	12%		\$	6,766.54	27%	
	12	005.04	ľ	3,302.72	12/0	\$ 415,471	,	0,700.34	27/0	\$ 463,062
L						7 713,4/1				7 -03,002

Total Projected Rate Revenues \$ 18,846,066

\$ 18,845,920

Rhode Island Public Utilities Commission Docket 4595 FY 2017 Rate Filing HJS Schedule D-8A Rebuttal Comparison of Rates Using Portsmouth Proposals

		Г		Α				В				С		I		D	
				ort Rebuttal F		ļ	Asset Values	outtal Position	n with Service y Portsmouth		Factor			As	set Values P Demand F	uttal Positio	
		1	Proposed Rates	0/ Channa	Projected Revenues	P	Proposed Rates	0/ Channa	Projected	P	Proposed Rates	0/ Channa	Projected Revenues	F	Proposed Rates	0/ Channa	Projected
Base Charge (per b	sill)	H	Kates	% Change	Revenues		Kates	% Change	Revenues		Kates	% Change	Revenues		Kates	% Change	Revenues
Monthly	,,,,																
5/8		\$	5.41	11%	\$697,825	Ś	6.00	23%	\$773,928	Ś	5.41	11%	\$697,825	\$	6.00	23%	\$773,928
3/4		\$	5.68	13%	\$170,127	\$	6.26	25%	\$187,500	\$	5.68	13%	\$170,127	\$	6.26	25%	\$187,500
1		\$		24%	\$51,302	\$	8.64	42%	\$58,787		7.54	24%	\$51,302		8.64	42%	\$58,787
1.5		\$	12.02	37%	\$54,234		14.82	69%	\$66,868		12.02	37%	\$54,234		14.82	69%	\$66,868
2		\$	16.81	48%	\$53,052	\$	20.51	81%	\$64,730	\$	16.81	48%	\$53,052		20.51	81%	\$64,730
3		\$	44.28	76%	\$30,819	\$	50.76	101%	\$35,329	\$	44.28	76%	\$30,819		50.76	101%	\$35,329
4		\$	52.20	81%	\$10,022	\$	58.59	103%	\$11,249	\$	52.20	81%	\$10,022	\$	58.59	103%	\$11,249
5		\$	62.77	86%	\$0	\$	69.03	104%	\$0	\$	62.77	86%	\$0	\$	69.03	104%	\$0
6		\$	70.70	89%	\$27,149	\$	76.86	105%	\$29,514	\$	70.70	89%	\$27,149	\$	76.86	105%	\$29,514
8		\$	91.83	94%	\$1,102	\$	97.74	107%	\$1,173	\$	91.83	94%	\$1,102	\$	97.74	107%	\$1,173
10		\$	130.13	100%	\$1,562	\$	135.58	108%	\$1,627	\$	130.13	100%	\$1,562	\$	135.58	108%	\$1,627
Portsmouth Base	Charge (4")	\$	1.54	-46%	\$18	\$	1.53	-47%	\$18	\$	1.54	-46%	\$18	\$	1.53	-47%	\$18
					\$1,097,213				\$1,230,722				\$1,097,213				\$1,230,722
Volume Charge (pe	er 1,000 gallons)																
Retail																	
Residenti	ial	\$	9.99	0%	6,605,608	\$	9.90	-1%	6,546,098	\$	9.66	-4%	6,387,405	\$	9.57	-4%	6,327,895
Non-Resi	idential	\$	10.56	-6%	4,828,085	\$	10.46	-7%	4,782,364	\$	10.88	-3%	4,974,390	\$	10.78	-4%	4,928,670
					11,433,693				11,328,462				11,361,795				11,256,564
Wholesale																	
Navy		\$		17%	1,886,070	\$	7.5653	16%	1,869,219		7.3463	13%	1,815,109	\$	7.2813	12%	1,799,049
Portsmou	uth Water & Fire District	\$	6.4848	26%	2,806,504	\$	6.4279	25%	2,781,878	\$	6.4915	26%	2,809,403	\$	6.4345	25%	2,784,735
					4,692,574				4,651,098				4,624,512				4,583,784
Fire Protection																	
Public (per hy	rdrant)	\$	1,115.86	18%	1,159,379	\$	1,103.98	17%	1,147,035	\$	1,214.57	29%	1,261,938	\$	1,201.59	27%	1,248,452
Private (by Co	onnection Size)																
Connecti	ion Existing Charge																
Size	Differential																
<2		\$	36.33	40%	-	\$	47.07	81%	-	\$	37.64	45%	-	\$	48.37	86%	-
2	6.19	\$	152.15	40%	-	\$	197.12	81%	-	\$	157.64	45%	-	\$	202.55	86%	-
4	38.32	\$		34%	39,430		610.90	53%	45,207	\$	566.82	42%	41,945		644.51	61%	47,694
6	111.31	\$		30%	289,536		1,302.60	37%	306,111		1,330.78	40%	312,733	\$	1,400.21	47%	329,049
8	237.21	\$	2,438.10	28%	134,096	\$	2,495.62	31%	137,259	\$	2,648.46	39%	145,665	\$	2,703.63	42%	148,700
10	426.58	\$	4,252.23	27%	-	\$	4,290.18	29%	-	\$	4,630.52	39%	-	\$	4,664.25	40%	-
12	689.04	\$	6,766.54	27%	-	\$	6,777.37	27%	-	\$	7,377.58	39%	-	\$	7,381.60	39%	-
		L			\$ 463,062				\$ 488,577				\$ 500,343				\$ 525,443

Total Projected Rate Revenues \$ 18,845,920 \$ 18,845,894 \$ 18,845,802 \$ 18,844,965

Newport Water Division Budget for Rate Filing FY 2017 HJS Schedule D-9 Rebuttal Expense Detail - Administration 15-500-2200

Account Description 50001 Salaries &		comments S12-H NO1-12 S10-I S10-E S10-G NO2-17				Docket 4243	A	ctual FY 2015 Test Year	nange from Test ar to Proposed	BudgetFY 2016	Proposed FY 2017 Rate Year \$ 3
	Total				\$	273,889	\$	262,222	\$ 19,360	\$ 271,9	71 \$ 281,582
50044 Standby Sa	alaries	0									
	3 employees per week at \$100 per subject to Union negotiation	3 employees week 8 hours per w 52 wks	⁄k \$	18,720	\$	12,500	\$	12,528	\$ 6,192	\$ 12,50	00 \$ 18,720
50520 Accrued Be	enefits Buyout vacation payout & sick time payout for employees with 10 yrs of servic		\$	112,000	\$	175,000	\$	15,500	\$ 43,500	\$ 175,00	59,000
50100 Employee I	Benefits Director of Utilities - 60% Aministrative Secretary - 60% Deputy Director - Finance - 60% Deputy Director - Engineering - 609 Financial Analyst Benefits on standby salaries, buyon		ck	122,883]	128,202	\$	110,408	\$ 8,649	\$ 114,8	59 \$ 119,057
50103 Retiree Ins	urance Coverage	see workpaper			\$	514,000	\$	351,563	\$ 18,437	\$ 457,38	370,000
50105 Workers Co	ompensation avg change over 2013 - 2015 = 3.8	3%	\$	64,000	\$	85,000	\$	59,456	\$ 4,544	\$ 89,23	50 \$ 64,000
50175 Annual Lea	ve Buyback	1 employee	\$	3,260	\$	2,400	\$	3,260	\$ 40	\$ 3,20	3,300
50207 Advertisem	ent		\$	9,000	\$	9,000	\$	4,041	\$ 4,959	\$ 9,00	9,000

Newport Water Division Budget for Rate Filing FY 2017 HJS Schedule D-9 Rebu Expense Detail - Adminis 15-500-2200 50210 Membership				* * * * * * * * * * * * *	408 266 266 266 418 344 266 266	\$ 2,500	\$ 4,447	\$ (1,947)	\$	2,500 \$	2,500
50212 Conferences	s & Training			\$	4,000	\$ 4,000	\$ 868	\$ 3,132	\$	4,000 \$	4,000
50214 Tuition Reim	nbursement			\$	2,000	\$ 2,000	\$ -	\$ 2,000	\$	2,000 \$	2,000
50216 Water Mana	agement Study										
50220 Consultant F	Fees Legal Fees Financial Consultant Bank Trustee Fees Wimborne property tax advisor other Committed in 2015 Total	K& S Raftelis	2015 \$9,435 \$11,070 \$9,000 \$1,160 \$179,745 \$210,410	\$ \$ \$ \$	125,000 75,000 10,000 40,000 250,000	\$ 233,033	\$ 210,410	\$ 39,590	Rebuttal Adju		250,000 (45,000)
										Amount \$	205,000
50238 Postage				\$	1,000	\$ 1,000	\$ 360	\$ 640	•	1,000 \$	1,000
50239 Fire & Liabili	ity Insurance 2% increase per year	see workpap	er	\$	67,000	\$ 76,468	\$ 16,853	\$ 50,147	\$	77,000 \$	67,000
50251 Telephone 8	& Communication	see workpap see workpap		\$ \$ \$	5,685 330 6,015	\$ 5,500	\$ 5,569	\$ 446	Rebuttal Adju	5,500 \$ ustment \$ Amount \$	6,015 (415) 5,600
occor water	Gallons water rate Fixed Charge total			\$ \$ \$	46,363 11.2200 1,495 2,015.19	\$ 1,942.00	\$ 1,275	\$ 740	\$	1,942 \$	2,015

Newport Water Division Budget for Rate Filing FY 2017 HJS Schedule D-9 Rebuttal Expense Detail - Administration 15-500-2200

50306 Electricity												
70 Halsey S		2 yr av	⁄g									
	Kwh Annual usage				35,246							_
	total cost			\$	7,956	\$	5,805	\$ 10,121	\$ (2,165)	\$	5,805 \$ 7,956	1
50307 Natural Gas	:	4 yr av	-		4 400							
	T. 1.10	therms	8	_	4,400	_			(222)	•	- o o	7
50308 Property Ta	Total Cost xes			\$	5,226	\$	7,252	\$ 5,918	\$ (692)	\$	7,252 \$ 5,226	1
	Portsmouth			\$	482,851							
	Tiverton			\$	42,133							
	Little Compton			\$	54,146							
	Middletown			\$	13,287							
	Total			\$	592,417	\$	226,774	\$ 464,200	\$ 104,843	\$	411,200 \$ 569,043	I
50266 Legal & Adr	ninistrative			\$	309,657	\$	309,657	\$ 309,699	\$ 59,829	\$	309,669 \$ 369,528	I
50267 Data Proces	ssing (MIS)			\$	143,888	\$	143,888	\$ 143,888	\$ 28,336	\$	143,888 \$ 172,224	I
50268 Mileage Allo	owance			\$	2,000	\$	2,000	\$ 875	\$ 1,125	\$	2,000 \$ 2,000	I
50271 Gasoline &	Vehicle Allowance											
	See workpaper	1 vehic	cle									
		\$	5,389									
	Total			\$	5,389	\$	7,508	\$ 9,354	\$ (3,965)	\$	8,276 \$ 5,389	I
50275 Repairs & M	faintenance											
•	Halsey St smoke Detector Service			\$	450							
	Other			\$	400							
	Heater Maintenance			\$	350							
	total			\$	1,200	\$	1,200		\$ 1,200		\$ 1,200	I
50280 Regulatory	Expense (now electronic COR notices to custom	ers)		\$	5,000	\$	10,000	\$ 590	\$ 4,410	\$	10,000 \$ 5,000	I
50281 Regulatory	Assessment											
55251 Regulatory	RIWWA - Assessment			\$	1,000							
	RI Div of PUC - Assessment			\$	57,000							
	RI Dept of Health - License misc			\$	22,000							
	Total			\$	80,000	\$	48,096	\$ 79,698	\$ 302	\$	63,000 \$ 80,000	I

Newport Water Division Budget for Rate Filing FY 2017 HJS Schedule D-9 Rebuttal Expense Detail - Administration 15-500-2200

50361 Office Supplies

2013 2014 2015	\$11,371 \$13,525 \$14,469	:	15,000	\$ 20,000	\$ 14,469	\$ 531	\$ 20,00	0 \$	15,000
50505 Self Insurance		;	10,000	\$ 10,000	\$ 118	\$ 9,882	\$ 10,00 Rebuttal Adjustme Rebuttal Amou	nt \$	10,000 (5,000) 5,000
50515 Unemployment C	claims	;	-	\$ 12,000	\$ -	\$ -	\$	- \$	-
50464 Water Revenue r	eserve "not included in budget"	\$ 254,733				\$ -			
Total				\$ 2,330,614	\$ 2,097,690	\$ 404,066	\$ 2,418,25	2 \$	2,451,341

Newport Water Division Budget for Rate Filing FY 2016 HJS Schedule D-10 Rebuttal Expense Detail - Customer Service 15-500-2209

Account Description 50001 Salaries & Wag	Comments detail for 2017 es Water Meter Repair Water Meter Repair Principal Account Clerk Principal Account Clerk Water Meter Repair Maintenance Mechanic Sr. Maintenance Mechanic Water Meter Foreman Total	UT2A UT2C UC2X add UT2X UT3F UT3F UT2A UT6D		Docket 4243 \$256,335	Actual FY 2015 Test Year \$263,080	Change from Test year to Proposed	Budget FY 2016 \$285,241	Proposed FY 2017 Rate Year \$309,310
50002 Overtime								
	low OT in 2015 suspend shutoffs	hours rate	150 \$33.50					
	includes 7.65% ->	total	\$5,409	\$10,200	\$116	\$5,293	\$6,000	\$5,409
50004 Temp Salaries	PT cleerk 52 wks @12 X 2	4 hrs.	\$14,976	\$10,200	\$18,831	(\$3,855)	\$19,743	\$14,976
50056 Injury Pay				\$0	\$0	\$0	[\$0
50100 Employee Bene	efits							
, ,,,,	Water Meter Repair Water Meter Repair Principal Account Clerk Principal Account Clerk Water Meter Repair Maintenance Mechanic Sr. Maintenance Mechanic Water Meter Foreman Benefits for OT, Injury & A	UT6D	back					
	Total			\$168,793	\$149,435	\$41,370	\$178,152	\$190,805
50120 Bank Fees (lock	(box) \$1400 pe	er month \$	16,800	\$0	\$13,711	\$3,089	\$30,000	\$16,800
50175 Annual Leave E	Buyback	2 employees		\$5,000	\$4,531	(\$31)	\$5,000	\$4,500
50205 Copying & bind	ing			\$500	\$511	(\$11)	\$500	\$500

Recertification Tra Cross Connection Trainign & Certific Fundamentals of	aining on Device Inspectors ining Control Surveyor ation Cross Conection Con v Prevention Associa	ntrol	\$700 \$1,150 \$850 \$300 \$2,000 \$5,000	\$5,000	-\$263	\$5,263	\$5, <i>000</i> \$5,000
Total			\$5,000	\$5,000	-\$∠03	\$5,263	\$5,000
50225 Support Services Printing & mailing Opal Maintenance Badger/orion serv		inications)	\$16,975 \$5,700 \$3,500				
to	otal		\$26,175	\$26,002	\$32,784	(\$6,609)	\$26,000 \$26,175
50238 Postage	lailiaa Oamilaa		C74 400				
IV.	lailing Service SPS		\$74,400 \$280				
	SF S		φ200				
to	otal		\$74,680	\$31,706	\$57,265	\$17,415	\$69,530 \$74,680
50271 Gasoline & Vehicl	e Allowance	# vehicles	\$5,389 5 \$26,945	\$33,421	\$39,667	(\$12,722)	\$33,421 \$26,945
			\$10,000 \$15,000 \$3,500 \$2,000 \$2,700 \$3,850 \$2,950				
	Г	Γotal	\$40,000	\$40,000	\$33,449	\$1,551	\$30,000 \$35,000

Newport Water Division
Budget for Rate Filing
FY 2016
HJS Schedule D-10 Rebuttal
Expense Detail - Customer Service
15-500-2209

Expense Detail - Customer Service 5-500-2209					
50299 Meter Maintenance Appurtenant piping, tail pieces,ss fasteners Annual Calibration of Navy meters reducing flanges Annual Calibration of Portable Meter Tester Certification of Backflow Testing Equipment Reducing Flanges Misc. Aprts	\$3,500 \$2,500 \$750 \$250 \$2,000 \$1,000				
Total	\$10,000	\$10,000	\$7,734	\$2,266	\$10,000 \$10,000
50311 Operating Supplies Repair External meter devices new tool & misc costs gas detectors confined space entry equipment Machine & Tool Lubricant, Replace Blades, Drill Bits, etc Tools (crimping, cutting, drilling, etc.) Service and Pit Keys	\$2,500 \$2,500				
Total	\$5,000	\$5,000	\$3,658	\$1,342	\$5,000 \$5,000
50320 Uniforms & protective Gear Safety Vests Hi Viz Jackets Gloves, Safety Glasses, Respirator, etc.	\$150 \$300 \$550				
	\$1,000	\$1,000	\$957	\$43	\$1,000 \$1,000
50380 Customer Service Supplies Conservation mateerial	\$ 5,000	\$10,343	\$166	\$4,834	\$5,000 \$5,000

Newport Water Division Budget for Rate Filing FY 2016 HJS Schedule D-11 Rebuttal Expense Detail - Source of Supply - Island 15-500-2212

Account Description 50001 Salaries & Wag	ges				Do	ocket 4243		ctual FY 2015 Test Year		Change from Test year to Proposed	Budget 2015	Budget	FY 2016	20	oosed FY 17 Rate Year
position tr. Position from (I	Supervisor Water Dist/Coll 50% Distribution/Collection Foreman Distribution/Collection Mechanic Distribution/Collection Operator Distribution/Collection Operator Distribution/Collection Operator Laborer adjustment for vacancies Total	N5G UT5D UT4 UT3D UT3C UT3B UT2A			\$	258,897	\$	321,324	\$	(11,374)	########	\$	298,525 [\$	309,950
50002 Overtime		hours		1,000											
		rate total	\$ \$	33.00 33,000	\$	28,903	\$	36,123	\$	(3,123)	\$ 28,903	\$	28,903	\$	33,000
50004 Temp Salaries	2 people 19 weeks @\$16/hour plus 7.65%		¢.	20, 400	•	10.000	Φ.		•	26.400	¢ 40.000	c	42 42 5 [Φ.	26 400
			\$	26,180	·	10,000	·	-	\$	20,180	\$ 10,000	Þ	13,425	Ф	26,180
50056 Injury Pay					\$	-	\$	-					_	\$	-
 	efits Supervisor Water Dist/Coll 50% Distribution/Collection Foreman Distribution/Collection Mechanic Distribution/Collection Operator Distribution/Collection Operator Distribution/Collection Operator Laborer Benefits for OT, Temp & Annual le Adjustment for vacancies	eave Buyt	oack		\$	134,334	\$	185,081	\$	(9,431)	######################################	\$	164,187 「	\$	175.650

Newport Water Division **Budget for Rate Filing** FY 2016 HJS Schedule D-11 Rebuttal Expense Detail - Source of Supply - Island 15-500-2212 50175 Annual Leave Buyback 4 employees 6,300 \$ 3,783 \$ 17 \$ 6,300 \$ 6,300 \$ 3,800 50306 Contribution to Electricity Restricted Account St Mary's & Paradise Pumping Stations 2yr Avg Annual KWH Usage 350,295 total cost \$ 49,880 \$ 42,109 \$ 38,527 \$ 11,353 \$ 42,108 \$ 42,108 \$ 49,880 50271 Gas/Vehicle Maintenance 5.389 \$ vehicles 11 64,648 \$ 59,279 \$ 63,620 \$ 59,279 total 58,648 \$ (4,341) \$ 64,648 \$ 50275 Repairs & Maintenance Misc Pump & minor repairs Aluminum boat & boat engine supplies Trimmers, blowers, chain saw, supplies, repairs & replace Aeration system misc supplies R & R Pump Station service agreement total \$ 10,000 \$ 7,425 \$ 11,633 \$ (1,633) \$ 4,717 \$ 5,000 \$ 10,000 50277 Reservoir Maintenance Tree Removal Dam repairs (gravel, riprap, gabions, etc.) sign installation & Maintenance dam inspections Fence, gates, doors lock, windows repair & maintenance total \$ 16,000 \$ 16,000 \$ 16.236 \$ (236) \$ 16,000 \$ 15,000 \$ 16,000

Newport Water Division Budget for Rate Filing FY 2016 HJS Schedule D-11 Rebuttal Expense Detail - Source of Supply - Island 15-500-2212

50311 Operating Supplies

machine & tool lubricant grease guns Brush cutter/mower parts for trackless small mower replacement

coppering bags

other

Total

replacement blades/brush cutting

50320 Uniforms & protective Gear \$ 1,510 \$

Eye,ear & hand protection Tyvek protective suits N95 repirator

50335 Chemicals (CuSO4)

 usage in lbs
 40,000

 cost/lb (in fy 20160
 \$ 1.6700

 total copper sulfate
 \$ 66,800

total cost \$ 66,800 \$

total \$ 643,800 \$ 752,735 \$ 6,814 ###### \$ 717,526 \$ 759,549

72,735 \$

7,750 \$

700 \$

2,802 \$

72,671 \$

935 \$

4,698 \$ 7,750 \$

(5,871) \$ 72,735 \$

700 \$

575 \$

7,250 \$

1,200 \$

70,980 \$

7,500

1,510

66,800

Newport Water Division Budget for Rate Filing FY 2016 HJS Schedule D-12 Rebuttal Expense Detail - Source of Supply - Mainland 15-500-2213

Account	Description	Comments 2017			D	ocket 4243	,	Actual FY 2015 Test Year	Change from Test year to Proposed	В	ludget 2015	В	Proposed FY 2017 Rate 3udget FY 2016 Year
50002	2 Overtime												
50004	3 months (4.3 weeks) one d per week 24 hour day Temp Salaries	lahours rate total	\$ \$	310 37.50 11,610	\$	4,617	\$	13,513	\$ (1,903)	\$	4,617	\$	4,617 \$ 11,610
	for 3 months 3 people at 48 per week at \$15 per hour hourly increase plus FICA	hours rate total	\$ \$	1,858 15 29,996	\$	15,264	\$	18,784	\$ 11,212	\$	15,264	\$	15,264 \$ 29,996
50005	5 Permanent Part time	12 @ \$1,075	\$	12,900	\$	13,000	\$	14,200	\$ (1,300)	\$	13,000	\$	13,000 \$ 12,900
50100	Employee Benefits	Benefits for OT, Temp & part time			\$	2,525	\$	6,453	\$ (3,928)	\$	7,282	\$	7,282 \$ 2,525
50306	Contribution to Electricity Re Sakonnet pumping Station	estricted Account Annual KWH Usage total cost	2 yr \$	average 1,157,850 154,424	\$	120,189	\$	122,917	\$ 31,507	\$	120,189	\$	120,189 \$ 154,424
50275	Repairs & Maintenance												
		Annual Contract pumps Emergency Repairs - interion/exte Excavator & heavy Equip Rental Misc. total	\$ \$ \$ \$	1,500 2,000 3,000 500 7,000		7200	\$	13,908	\$ (6,908)	\$	13,908	\$	7,200 \$ 7,000
50277	Reservoir Maintenance												<u> </u>
30277	Tree Removal Dam improvement repairs (dam inspections total	gravel, riprap, gabions, etc.)	\$ \$ \$	500 2,000 2,000 4,500		4500	\$	-	\$ 4,500	\$	500	\$	4,500 \$ 4,500
50311	Operating Supplies												
	machine & tool lubricant, green Pest Control Misc Supplies(egpapergood		\$ \$ \$	600 200 200 1,000		630	\$	236	\$ 764	\$	630	\$	630 \$ 1,000
	total				\$	167,925	\$	190,011	\$ 33,944	\$	175,390	\$	172,682 \$ 223,955

Newport Water Division Budget for Rate Filing FY 2016 HJS Schedule D-13 Rebuttal Expense Detail - Station One 15-500-2222

Account Description	Comments			Do	cket 4243	Actual FY 015 Test Year	Chang from Te year to Propose	st)	Budget 2015	Budget FY 2016	Proposed FY 2017 Rate Year
50001 Salaries & Wage											
	Water Plant Foreman Operator(50%)	6) SO6D 6)									
Acting Foreman	Water Plant Operator - Grade 3 Water Plant Operator - Grade 3 Water Plant Operator - Grade 3	UT4F UT4F UT4B									
	Water Plant Operator - Grade 3	UT4F									
	Water Plant Operator - Grade 3	UT4C									
	Water Plant Operator - Grade 3	UT4D									
	Water Plant Operator - Grade 3	UT3B									
	Water Plant Operator - Grade 2	UT2A									
	Water Plant Operator - Grade 1	UT2									
AFCSMEContract ad	j to Shift Diff to \$.70 from \$.36 \$3,53	6									
	Total			\$	451,191	\$ 519,694			Adjustment fo	\$ 491,984 or Vacancies uttal Amount	
50002 Overtime											
	average hourly rate =\$22.75 ot rate	=\$34.125									
2012 - \$101k	hours		2,500								
2013 - \$42k	rate(w FICA)	\$	41.18								
2014 - \$72k 2015 - \$ 110k	total	\$	102,940	\$	60,021	\$ 110,009	\$ (7,0	69) \$	\$ 60,021	\$ 60,021	\$ 102,940
50003 Holiday Pay											
	Operators Holidays Hours/Holiday		9.0 12 8								
	Average Pay Rate	\$	25.50								
	Total	\$	22,032	\$	17,045	\$ 18,936	\$ 3,0	96	\$ 18,935	\$ 17,045	\$ 22,032
50045 Lead Plant Opera	ator Stipend										
	3 staff \$80 per week 52 weeks	\$	12,480			\$ 6,627	\$ 5,8	53 \$	\$ 36,492	\$ 12,480	\$ 12,480

Newport Water Division Budget for Rate Filing FY 2016 HJS Schedule D-13 Rebuttal Expense Detail - Station One 15-500-2222 50100 Employee Benefits Water Quality Production Supv (50% SO8D Assistant WQP Supervisor (50%) SO6D Water Plant Foreman Operator(50%) Water Plant Operator - Grade 3 UT4F Water Plant Operator - Grade 3 UT4F Water Plant Operator - Grade 3 UT4B Water Plant Operator - Grade 3 UT4F Water Plant Operator - Grade 3 UT4C Water Plant Operator - Grade 3 UT4D Water Plant Operator - Grade 2 UT3B Water Plant Operator - Grade 1 UT2A Benefits for OT, Annual leave Buyback, Holidays Total 280,498 \$ 296,163 \$ (12,650) \$ 283,712 \$ 266,079 \$ 283,513 Rebuttal Adjustment for Vacancies \$ (18,597) Rebuttal Amount \$ 264,916 50175 Annual Leave Buyback 3 employees \$ 5,000 \$ 11,785 \$ 215 \$ 5,000 \$ 5,000 \$ 12,000 50212 Conferences & Training RIDOH Required Certifications for 10 employees \$ 2.200 Supv/Plant Prod - RIWWA 150 \$ Supv/Plant Prod - NEWWA \$ 550 Conferences & Training 600 \$ Training, travel \$ 1,000 \$ total 4,500 \$ 4,500 \$ 1,049 \$ 3,451 \$ 4,500 \$ 4,500 \$ 4,500 50239 Fire & Liability Insurance \$ 35.000 \$ 12,687 \$ 60,531 \$ (25,531) \$ 12,687 \$ 40,000 \$ 35,000 RI Interlocal see workpaper 50306 Contribution to Electricity Restricted Account 100 Bliss Mine Rd 2 yr average Annual KWH Usage 1,736,107 266,329 \$ 207,037 \$ 5,447 \$ 252,674 \$ 252,674 \$ 212,484 total cost 50307 Natural Gas 4 yr average **Total Cost** 33,690 24250 \$ 43,410 \$ - \$ 24,250 \$ 24,250 \$ 43,410 50260 Rental of Equipment **Dumpster Rentals** 850 \$ chemical cylinders \$ 150 total \$ 1,000 600 \$ 922 \$ 78 \$ 715 \$ 1,000 600 \$

Newport Water Division Budget for Rate Filing FY 2016 HJS Schedule D-13 Rebuttal Expense Detail - Station One 15-500-2222 50305 Sewer Charge

		total		\$ 66,787	\$ 25,000	\$ 9,738	\$ 57,049	\$ 15,000	\$ 15,000 \$ 66,787
	Fire Extinguishe	er Service		\$ 180					
	DAF Pump Rep			\$ 575					
		Raw water Pumpps 1 & 2	2	\$ 6,336					
	MCC Breaker P			\$ 2,067					
	Reservoir Rd St	orage Inspection		\$ 4,060					
	Fire Panel Main	tenance		\$ 480					
	DAF Compresso	ors		\$ 4,100					
	Building System	s & AC service contact		\$ 18,036					
	Analyzeer service	ce		\$ 9,625					
	SCADA Mainter	nance & repair		\$ 10,628					
	transfer switche			\$ 600					
	Backup Gnerato	rs-annual service		\$ 1,500					
	Gas Boilers & H	ot water Heater		\$ 5,600					
5027	5 Repairs & Maint Variable frequer			\$ 3,000					
5007	- Damaina O Maint								· <u></u>
			verlicies	\$ 5,389	\$ 7,583	\$ 9,831	\$ (4,442)	\$ 8,360	\$ 8,360 \$ 5,389
			vehicles	5,369					
5027	1 Gas/Vehicle Ma	intenance		\$ 5,389					
	Cost	\$	293,020	\$ 199,440	\$ 293,020	\$ 108,472	\$ 90,968	\$ 293,020	\$ 175,000 \$ 199,440
	\$/Gal	\$	0.0113	0.01662					
	Gallons		26,000,000	12,000,000					
		workpaper							
5030	5 Sewer Charge								

Budget for Rate Filing FY 2016 HJS Schedule D-13 Rebuttal Expense Detail - Station One 15-500-2222 50311 Operating Supplies Valves \$ 4,350 Piping \$ 500 Tools \$ 500 Mechanical Seals & Packing \$ 500 Analyical Analyzer Reagents 2,728 \$ Analyzer probe Salt bridges, Cell Solution, Grit Filters \$ 669 Fluoride Feeder Filter Pack 364 Roll towels, bathroom tissue \$ 211 17,161 \$ 475 Chemical Transfer Pumps \$ 2.050 GLO2 Generator Maintenance Kit & Filters \$ 924 **HVAC Filters** \$ 196 Generator Fuel \$ 2,814 Misc. \$ 880 \$ Total 17,161 \$ 27,800 \$ 18,895 \$ (1,734) \$ 25,210 \$ 24,157 \$ 17,161 50336 Pumping Cost \$ - \$ - \$ 22,428 50320 Uniforms & protective Gear Overboots \$ 320 Rain Gear \$ 224 Misc. Gloves, Eye pprotection \$ 361 Coveralls \$ 306 Respirator Work Lights \$ 99 Work Lights \$ 116 \$ 1,426 \$ 1,062 \$ 1,027 \$ 399 \$ 1,062 \$ 2,000 \$ 1,426

Newport Water Division

Newport Water Division Budget for Rate Filing FY 2016 HJS Schedule D-13 Rebuttal Expense Detail - Station One 15-500-2222 50335 Chemicals

PACI Quantity		73,000																	
Unit Cost Per Gal	\$	1.4500																	
PACI Total Cost	\$	105,850																	
Hypochlorite Wquantity		28,000																	
Unit Cost	\$	0.6435																	
Chlorine Total Cost	\$	18,018																	
Flouride quantity		6,000																	
Unit cost	\$	0.5000																	
Flouride Total Cost	\$	3,000																	
Sodium chlorite quantity		109,500																	
Unit Cost	\$	0.5890																	
Sodium chlorite total Cost	\$ \$	64,496																	
Socium chionte total Cost	φ	04,490																	
32% HCI Quantity		8,700																	
Unit Cost Per Gal	\$	1.1823																	
Sodium chlorite total Cost	\$	10,286																	
Coulding total Cool	•	. 0,200																	
Polymer Quantity		440																	
Unit Cost	\$	11.2727																	
Polymer Total Cost	\$	4,960																	
0 11 11 11 11		.=																	
Sodium Hydroxide quantity		37,500																	
Unit Cost	\$	0.6536																	
Sodium Hydroxide total cost	\$	24,510																	
GAC Filters (816) Quantity		1,640																	
Unit Cost Per CF	\$	29.8800																	
GAC Total Cost	\$	49,003																	
5.15 . 5101 5551	Ψ	10,000																	
GAC AWT (400) Quantity		40,596																	
Unit Cost Per Vessel	\$	2.0000																	
GAC Total Cost	\$	81,192																	
HCl Scrubber Media (Chlorosorb))																		
HCl Scrubber Media Total Cost	\$	5,000																	
to to t	•	000.04=	•	054040	•	050 450	•	40.45=	•		- 400	= 400 0	- 100 A FO	- 100 A 500 740	- 100 A F00 740	- : · · · · · · · · · · · · · · · · · ·	- 100 A 500 740 A 000 04	7 100 7 500 740 7 000 045	T 100 7 500 740 0 000 045
total	\$	366,315	\$	354,210	\$	350,158	\$	16,157	\$	44	7,189	7,189 \$	7,189 \$ 50	7,189 \$ 509,742	7,189 \$ 509,742 \$ 3	7,189 \$ 509,742 \$ 366,3	7,189 \$ 509,742 \$ 366,31	7,189 \$ 509,742 \$ 366,315	7,189 \$ 509,742 \$ 366,315

total \$ 1,830,796 \$1,774,284 \$ 163,174 \$2,030,196 \$1,909,007 \$1,878,355

Newport Water Division Budget for Rate Filing FY 2016 HJS Schedule D-14 Rebuttal Expense Detail - Lawton Valley 15-500-2223

	Description	Comments				Do	ocket 4243	Actual FY 5 Test Year	Te	ange from st year to roposed	Budget 2015	Budget	FY 2016	201	osed FY 7 Rate ⁄ear
50001	Salaries & Wage	s Water Quality Produ Assistant WQP Sup Water Plant Forema	ervisor (50°	SO6D											
AFCS	Acting Foreman	Water Plant Operat Water Plant Operat Shift Diff to \$.70 fro	or - 3 or - 3 or - 3 or - 3 or - 3 or - 3	UT4G UT4F UT4F UT4D UT4C UT2D UT2A UT2A											
711 00	WE CONTRACT day to	Total	π φ.σσ φ 1,2 1σ			\$	461,718	\$ 449,625	\$	48,916	\$ 444,886	\$	538,135	\$	498,541
50002	Overtime														
	2012 - \$82k 2013 \$75k 2014 - 84k	\$ \$	2,500 39.56 98,903	rate w FICA		\$	37,657	\$ 98,692	\$	211	\$ 37,657	\$	37,657	\$	98,903
	2015 - \$99k												_		_
50003	Holiday Pay														
	Operators Holidays Hours/Holiday Average Pay Rat Total	ı	\$51k per year	\$ \$	9 12 8 24.50 19,992		16,760	\$ 15,904	\$	4,088	\$ 16,760	\$	16,760	\$	- 19,992
50045	Lead Plant Oprei	rator Stipend 3 staff \$80 per wee	k 52 weeks	\$	12,480			\$ 7,830	\$	4,650	\$ 10,000	\$	12,480	\$	12,480

Newport Water Division Budget for Rate Filing FY 2016 HJS Schedule D-14 Rebuttal Expense Detail - Lawton Valley 15-500-2223 50100 Employee Benefits Water Quality Production Supv (50 SO8D Assistant WQP Supervisor (50% SO6D Water Plant Foreman Operator(50%) Water Plant Operator - 3 UT4G Water Plant Operator - 3 UT4F Water Plant Operator - 3 UT4F Water Plant Operator - 3 UT4D Water Plant Operator - 3 UT4C Water Plant Operator - 3 UT2D Water Plant Operator - 3 UT2A Water Plant Operator - 3 UT2A Benefits for OT, Holidays, & Annual leave) Total 288,210 \$ 273,138 \$ 4,864 \$ 253,693 \$ 322,872 \$ 278,002 50175 Annual Leave Buyback 3 empl \$ 7,500 \$ 3,966 \$ 7,368 \$ 32 \$ 3,966 \$ 3,966 \$ 7,400 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 3000 \$ 850 \$ 3,270 \$ 3,000 \$ 3,000 \$ 4,120 50239 Fire & Liability Insurance RI Interlocal 54.000 \$ 62,000 \$ 54,000 \$ 18,614 \$ 93,577 \$ (39,577) \$ 18,614 \$ 50306 Contribution to Electricity Restricted Account Lawton Valley Treatment plant & pumping station 1 yr average Annual KWH Usage 1,260,960 total cost 271,075 \$ 158,340 \$ 310,343 \$ 64,748 \$ 132,551 \$ 132,551 \$ 375,091 50307 Natural Gas 4 yr average **Total Cost** 20,808 \$ 29,909 \$ 34,663 \$ - \$ 29.909 34,663 \$ 29,909

Newport Water Division Budget for Rate Filing FY 2016 HJS Schedule D-14 Rebut Expense Detail - Lawton V 15-500-2223 50260 Rental of Equipn	alley		\$ \$	850 150					
	total		\$	1,000	\$ 500	\$ 722	\$ 278	\$ 500	\$ 715 \$ 1,000
50305 Sewer Charge									
Gallons \$/Gal Cost	\$ \$	32,000,000 0.0113 360,640	\$ \$ \$	30,000,000 0.0166 498,600	\$ 360,640	\$ 358,682	\$ 139,918	\$ 360,640	\$ 350,000 \$ 498,600
50271 Gas/Vehicle Mai	ntenance 1 vehicle vehicle		\$	5,389 1					
	total		\$	5,389	\$ 7,882	\$ 7,482	\$ (2,093)	\$ 8,688	\$ 8,688 \$ 5,389
50275 Repairs & Mainto	Variable frequency Gas Boilers & Hot w Backup Gnerators-a transfer switches SCADA Maintenanc Building Systems & Analyzeer service DAF Compressors Fire Panel Maintena Tank Inspection	vater Heater annual service ce & repair . A/C service contract	***	3,000 5,600 1,500 600 10,000 18,036 9,625 4,100 480 4,275 3,000 1,135					
	total		\$	61,351	\$ 35,000	\$ 19,922	\$ 41,429	\$ 15,000	\$ 15,000 \$ 61,351

Newport Water Division Budget for Rate Filing FY 2016 HJS Schedule D-14 Re Expense Detail - Lawto 15-500-2223 50311 Operating Su	buttal n Valley							
Analyical Ana Analyzer prol Fluoride Feed Roll towels, b Cleaning Sup Chemical Tra GLO2 Gener HVAC Filters Generator Fu Misc.	nsfer Pumps ator Maintenance Kit & Filters	***	500 500 500 500 2,728 669 364 211 475 2,050 924 196 2,814 880					
Total		\$	13,311	\$ 20,300	\$ 8,971	\$ 4,340	\$ 18,475	\$ 18,217 \$ 13,311
50320 Uniforms & p	orotective Gear Overboots Rain Gear Misc. Gloves, Eye pprotection Coveralls Respirator Work Lights Work Lights	\$ \$ \$ \$ \$ \$ \$	288 201 345 276 89 104 1,303	\$ 1,542	\$ 1,539	\$ (236)	\$ 1,542	\$ 1,800 \$ 1,303
50336	Pumping Cost					\$ -	\$ 31,646	

Newport Water Division Budget for Rate Filing FY 2016 HJS Schedule D-14 Rebuttal Expense Detail - Lawton Valley 15-500-2223 50335 Chemicals

total

PACI Quantity Unit Cost Per Gal PACI Total Cost	\$ \$	65,534 1.4500 95,024
Hypochlorite Wquantity Unit Cost Chlorine Total Cost	\$ \$	24,014 0.6435 15,453
Flouride quantity Unit cost Flouride Total Cost	\$ \$	6,000 0.5000 3,000
Sodium chlorite quantity Unit Cost Sodium chlorite total Cost	\$ \$	72,902 0.5890 42,939
32% HCI Quantity Unit Cost Per Gal Sodium chlorite total Cost	\$ \$	6,254 1.1823 7,394
Polymer Quantity Unit Cost Polymer Total Cost	\$ \$	440 11.2727 4,960
Sodium Hydroxide quantity Unit Cost Sodium Hydroxide total cost	\$ \$	35,000 0.6536 22,876
GAC Filters (816) Quantity Unit Cost Per CF GAC Total Cost	\$ \$	1,760 28.8800 50,829
GAC AWT (400) Quantity Unit Cost Per Vessel GAC Total Cost	\$ \$	40,596 2 81,192
HCl Scrubber Media (Chlorosorb) HCl Scrubber Media Total Cost	\$	5,000
total	\$	328,667

\$ 1,614,015 \$ 1,951,523 \$ 341,291 ######## \$ 2,063,492 \$ 2,292,814

509,742 \$

328,667

169,977 \$ 262,215 \$ 66,452 \$ *271,156* \$

Newport Water Division Budget for Rate Filing FY 2016 HJS Schedule D-15 Rebuttal Expense Detail - Laboratory 15-500-2235

Account Description 50001 Salaries & Wages	Laboratory Supervisor Microbiologist G2 Ste	р3		Docket 4243	Actual FY 015 Test Year	Change from Test year to Proposed	Bud get 2015	Propose 2017 R Budget FY 2016 Yea	Rate
	Total			\$ 104,358	\$ 114,425	\$ 6,754	###	\$ 116,878 \$ 121	,179
50100 Employee Benefits	Laboratory Supervisor Microbiologist Benefits on Annual leave buyback Total			\$ 64,208	\$ 54,984	\$ 3,724	###	\$ 58,993 \$ 58	3,708
50175 Annual Leave Buyback	1 employee			\$ 2,750	\$ 1,560	\$ (60)	###	\$ 1,000 \$ 1	1,500
50275 Repairs & Maintenance	Cleaning, Recalculation & Certification of balances, fume head, thermometers, etc. Misc repairs to Equipment Total	\$	1,200 500	\$ 1,700	\$ 256	\$ 1,444	###		1,700
50281 Regulatory Assessment	IDEXX/BACTERIA ESS LAB TTHM / HASS RIAL TOC RIAL LEAD / COPPER RIAL COPPER RIAL SODIUM ERA QC PT LAB LICENSE RIDOH EUROFINS (Chlorites) Northeast EUROFINS (Cryptosporidium)	***	5,400 4,160 8,640 700 435 280 1,507 440 12,262 1,800 4,200 7,200						
	Total	\$	47,024	\$ 32,000	\$ 47,696	\$ (672)	###	\$ 32,000 \$ 47	7,024
50339 Laboratory Supplies									
Buffers, reagents, Standa Kimwipes, Gloves, Pipets Hach Turbidimeters Hach Reagents UV 254 Meter Beau Hopkins Capital Co Swift Microscope, Countir	, Glassware, Thermometers	\$ \$ \$ \$ \$ \$	9,242 2,800 2,200 12,464 2,510 4,836 1,575						
total		\$	35,627	\$ 18,684	\$ 16,924	\$ 18,703	###	\$ 18,684 \$ 35	5,627
	total			\$ 223,700	\$ 235,845	\$ 29,893	###	\$ 229,255 \$ 265	5,738

Newport Water Division Budget for Rate Filing FY 2016 HJS Schedule D-16 Rebuttal Expense Detail - Distribution 15-500-2241

Account 50001	Description Salaries & Wag	Comments es Supervisor Water Dist/Coll 50% Distribution/Collection Foreman Distribution/Collection Mechanic Heavy Equipment Operator Distribution/Collection Operator	:	vacant	2	017	Do	ocket 4243 418,161	Т	ual FY 2015 Test Year 437,907	-	Change from Test year to Proposed 114,926 Ret	\$	\$ nent foi	get FY 2016 493,592 r Vacancies ttal Amount	\$ 55 \$ (3	
50002	Overtime																
	hours rate total	\$ \$	1,520 34.45 52,364				\$	52,364	\$	48,703	\$	3,661	\$ 52,364	\$	50,000	\$	1,520 34.45 2,364
50004	Temp Salaries	2 staff 19 weeks \$16/hr 40 hrs	νk	w/Fica	\$	26,180	\$	10,000	\$	18,106	\$	8,074	\$ 10,000	\$	10,000	\$ 2	6,180
50056	Injury Pay						\$	-								\$	-
50100	Employee Bene	fits Supervisor Water Dist/Coll 50% Distribution/Collection Mechanic Heavy Equipment Operator Distribution/Collection Mechanic Distribution/Collection Foreman Parts/InventORY Contol Tech Distribution/Collection Operator Engineering Technician Distribution/Collection Operator Distribution/Collection Operator Distribution/Collection Operator Benefits for OT, Injury & Annual	:	UT4E UT4C UT4D UT5E UC2E UT3C UT5G UT3C UT3B uyback &	AFSCN	ИЕ retro											
		Total					\$	251,514	\$	259,991	\$		252,931 tal Adjustn	nent for	281,556 Vacancies ttal Amount	\$ (1	0,074 7,768) 2,306

Newport Water Division Budget for Rate Filing													
FY 2016													
HJS Schedule D-16 Rebu	ttal												
Expense Detail - Distributi	ion												
15-500-2241				_		_		_		_		_	10 =0 1
50175 Annual Leave				\$	10,943	\$	7,484	\$	16	\$	10,943	\$	10,704 \$ 7,500
50212 Conferences &	6 employees												
50212 Contended a	Continuing Education Units	\$	3,200										
	Supervisor Water Dist/ Collect	\$	670										
	Travel	\$	130										
	Total	\$	4,000	\$	4,000	\$	1,776	\$	2,224	\$	4,000	\$	4,000 \$ 4,000
50225 Contract Service	ces												
00220 00111101 00111	Welding Services (Swabbing) as required	\$	11,000										
	WeatherData Network	\$	120										
	Infowater	\$	3,750										
	Dig safe Contract (609.15*12)	\$	6,655										
	total	\$	21,525	\$	12,430	\$	10,524	\$	11,001	\$	12,430	\$	12,430 \$ 21,525
50239 Fire & Liability	Insurance												
·	See workpaper	\$	12,000	\$	18,748	\$	20,061	\$	(8,061)	\$	18,748	\$	13,300 \$ 12,000
	Electricity Restricted Account pulart Lane, Reservoir Rd												
		2 year	average										
	Annual KWH Usage		132,739	_		_		_		_		_	10 -00 -00 -00
	total cost	\$	20,607	\$	18,762	\$	34,641	\$	(14,034)	\$	18,762	\$	18,762 \$ 20,607
50260 Heavy Equipm	ent Rental												
	Excavator, 10 wheel Dump Truck,	\$	8,260										
	light tower, etc.	_		_		_			(0.110)	_		_	
	Total	\$	8,260	\$	8,260	\$ \$	10,706	\$	(2,446)	\$	8,260	\$	8,260 \$ 8,260
50271 Gas/Vehicle M	aintenance					φ	-						
		\$	5,389										
	vehicles	\$	13										
		\$	-										<u>\$ -</u>
	total	\$	70,057	\$	110,305	\$	93,222	\$	(23,165)	\$	121,591	\$	121,591 \$ 70,057
50275 Repairs & Mair	ntenance												
•	Overhead Door Repair & Maintenance	\$	5,000										
	Fire Alarm Panel, Fire ExtinguisherServ & Repair		1,200										
	Misc. snow removal equipment & supplies	\$	2,300										
	Travel Vacuum repairs and/or replacement Raw materials roof	\$ \$	2,500 15,000										
	Naw materials 1001	φ	15,000										
	total	\$	26,000	\$	26,000	\$	28,521	\$	(2,521)	\$	26,000	\$	25,761 \$ 26,000

Newport Water Division Budget for Rate Filing FY 2016 HJS Schedule D-16 Rebuttal Expense Detail - Distribution 15-500-2241 50276 Main Maintenance

	Vatves, pipe, couplings, clampos, risers, covers, etc. Swabbing Program	\$ \$	26,000 19,500											
	Gravel, stone, cold patch, hot mix, etc.	э \$	15,000											
	Leak Detection Services	\$	12,000											
	Light Tower	\$	9,000											
	Permits & Police details	\$	5,000											
	Demolition Saw, Bylades, etc.	\$	2,000											
	Misc.	\$	2,700											
		-	,											
	total	\$	91,200	\$	70,000	\$	94,546	\$	(3,346)	\$	81,400	\$	80,000 \$	91,200
50296 Service Mainte	nance													
	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	\$	28,090	\$	1,910	\$	30,000	\$	30,000 \$	30,000
50311 Operating Supp	olies													
, 5,	machine & tool lubricant, Greese Guns	\$	1,800											
	Marking Paint Flags, etc.	\$	3,000											
	Replacement blades/cutting wheels, chains, bars	\$	1,600											
	Metal dectors	\$	1,600											
	Total	\$	8,000	\$	10,000	\$	4,964	\$	3,036	\$	10,000	\$	10,000 \$	8,000
50320 Uniforms & pro	tective Gear													
	Tyvek protective Suits													
	N 95 repirator													
	Safety Vests													
	Hi Viz Jackets													
	Gloves, safety glasses, repirator, etc.	•	4.000	•	4 704	•	4 705	•	0.075	•	4 704	•	0.000	4.000
	Total	\$	4,000	\$	1,761	\$	1,725	\$	2,275	\$	1,761	\$	2,000 \$	4,000
	total			\$	1,053,248	\$	1,100,967	\$	163,633	##	*********	\$	1,171,956 \$ 1	1,209,218

Newport Water Division
Budget for Rate Filing
FY 2016
HJS Schedule D-17 Rebuttal
Expense Detail - Fire Protection
15-500-2245

Account	Description		Docket 4355	Rate Year		Oocket 4243	ctual FY)15 Test Year	_	ge from rear to osed	dget FY 2016	F١	roposed Y 2017 ate Year
	Repair & Maintenance - Equipmo	ent	DOCKET 4000	rate rear		7273	roui	1 100	5000	2070	1 10	to rour
002.0	Permits	\$	200	\$ 500								
	Hydrant parts	\$	5,000									
	Hydrant Paint	\$	1,000	\$ 1,800								
	Misc.	\$	600	\$ 600								
	Welding of hydrant base	\$	200									
	Police Details	\$	-	\$ 1,760								
	Hydrant and/or Hydrant inserts	\$	6,500	\$ 14,140	_		\$ 11,585					
	total	\$	13,500	\$ 23,800	\$	13,500	\$ 11,585	\$	12,215	\$ 32,500	\$	23,800