

**STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS  
PUBLIC UTILITIES COMMISSION**

**IN RE: CITY OF WOONSOCKET WATER DIVISION'S  
APPLICATION TO IMPLEMENT MULTI-YEAR  
RATE PLAN**

**DOCKET NO. 4879**

**REPORT AND ORDER**

**I. Introduction**

On September 11, 2018, the City of Woonsocket's Water Division (WWD) filed an application with the Public Utilities Commission (PUC or Commission) for a multi-year, five-step rate increase pursuant to R.I. Gen. Laws § 39-15.1-4.<sup>1</sup> The first increase, proposed for implementation on January 1, 2019, sought additional operating revenues of \$799,205 to satisfy a revenue requirement of \$8,916,284. The rate impact differed by customer class, but for a Woonsocket residential account with an average consumption of 8,000 cubic feet of water per year, the increase was 9.73%. The increase for non-resident, residential customers was 13.34%. The impact of the proposed rate increase on other retail customers ranged between 9.73% and 13.34%, and the impact to wholesale customers was 12.85%. For private fire service, the impact was a decrease ranging from 1.43% to 14.84%; and for the municipal fire service, the impact was a decrease of 17.21% per hydrant.<sup>2</sup>

The second increase of \$445,221, with a proposed effective date of January 1, 2020, was to support a total operating revenue requirement of \$9,361,505.<sup>3</sup> The impact of this second step

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<sup>1</sup> All filings in this docket are available at the PUC offices located at 89 Jefferson Boulevard, Warwick, R.I. or at <http://www.ripuc.org/eventsactions/docket/4879page.html>.

<sup>2</sup> Notice of Proposed Rate Increase; [http://www.ripuc.org/eventsactions/docket/4879-WWD-RateFiling\(9-11-18\).pdf](http://www.ripuc.org/eventsactions/docket/4879-WWD-RateFiling(9-11-18).pdf).

<sup>3</sup> *Id.*

was an increase to all customer classes of 4.99%. For a typical residential customer, using 8,000 cubic feet of water per year, the impact would have been an increase of \$25.00 per year.

The third increase, with a proposed effective date of January 1, 2021, sought additional operating revenues of \$633,928 to support a total operating revenue requirement of \$9,995,433.<sup>4</sup> The impact of the third step would have resulted in an increase of 6.77% to all customer classes.<sup>5</sup> For a typical residential customer, using 8,000 cubic feet of water per year, the impact would have been an increase of \$36.00 per year.

The fourth increase, with a proposed effective date of January 1, 2022, sought an increase in operating revenue of \$1,363,132 to support a total operating revenue requirement of \$11,358,565. The impact of the fourth step would have resulted in an across-the-board increase of 13.64%.<sup>6</sup> For a typical residential customer, using 8,000 cubic feet of water per year, the impact would have been an increase of \$77.00 per year.

The fifth increase, with a proposed effective date of January 1, 2023, sought an increase in operating revenue of \$1,341,568 to support a total operating revenue requirement of \$12,700,133. The impact of the fifth step would have resulted in an increase of 11.81% to all customer classes.<sup>7</sup> For a typical residential customer, using 8,000 cubic feet of water per year, the impact would have been an increase of \$76.00 per year.<sup>8</sup>

On October 5, 2018, the PUC exercised its statutory right to suspend the effective date of WWD's application for eight months, to conduct a full hearing.<sup>9</sup> By virtue of the suspension, the PUC delayed the effective date of the first step increase to May 17, 2019. The Division of Public

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<sup>4</sup> *Id.*

<sup>5</sup> *Id.*

<sup>6</sup> *Id.*

<sup>7</sup> *Id.*

<sup>8</sup> *Id.*

<sup>9</sup> R.I. Gen. Laws §39-3-11.

Utilities and Carriers (DPUC or Division) engaged in discovery and negotiations which ultimately resulted in a Settlement Agreement (Settlement) between WWD and the DPUC, filed with the PUC on May 2, 2019.<sup>10</sup> The Settlement reduced the rate and step increases originally proposed by WWD.

At an Open Meeting on May 17, 2019, following an evidentiary hearing held on May 16, 2019, the PUC approved the Settlement, finding it to be just and reasonable.

## **II. City of Woonsocket's Water Division's Filing**

This rate filing is the first rate case WWD has filed since March 15, 2012, Docket No. 4320.<sup>11</sup> WWD's test year was January 1, 2017 through December 31, 2017. The proposed first-step rate year is Fiscal Year ending December 31, 2019. The proposed second-step rate year is Fiscal Year ending December 31, 2020. The proposed third-step rate year is Fiscal Year ending December 31, 2021. The proposed fourth-step rate year is Fiscal Year ending December 31, 2022. The proposed fifth-step rate year is Fiscal Year ending December 31, 2023.

In support of its application, WWD presented prefiled testimony from four witnesses: (1) Jonathan R. Pratt, P.E., City Engineer; (2) David G. Bebyn, CPA, a rate consultant; (3) Maureen Gurghigian, its Financial Consultant; and (4) Robert Otoski, P.E.

Mr. Pratt's testimony centered on the status of the existing water treatment facility, as well as the City's need to develop and construct a new water treatment facility. He explained that the current facility, at fifty-five years old, was seriously deteriorated and at risk of failure. Moreover, Rhode Island environmental regulations govern the discharge of filter backwash into the Blackstone River and WWD cannot comply with the regulations without substantial funding of

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<sup>10</sup> Settlement Agreement (May 2, 2019); [http://www.ripuc.org/eventsactions/docket/4879-WWD-Settlement%20Agreement%20and%20Schedules\\_5-2-19.pdf](http://www.ripuc.org/eventsactions/docket/4879-WWD-Settlement%20Agreement%20and%20Schedules_5-2-19.pdf).

<sup>11</sup> Direct Test. of David G. Bebyn at 2 (Sept. 11, 2018); Tab 7 of the Rate Filing, [http://www.ripuc.org/eventsactions/docket/4879-WWD-RateFiling\(9-11-18\).pdf](http://www.ripuc.org/eventsactions/docket/4879-WWD-RateFiling(9-11-18).pdf).

infrastructure for pretreatment and attenuation. WWD had been looking for a site for a new water treatment plant for several years and, in 2017, entered into an agreement to purchase a site on Jillson Avenue in Woonsocket. Construction commenced in 2018 and was expected to take eighteen to twenty-four months. The new plant was designed for a capacity of seven million gallons per day, expandable to ten and a half million gallons per day.<sup>12</sup>

Mr. Bebyn discussed the specific elements of the rate case with detailed testimony and extensive supporting schedules. He explained that the major reason for this rate filing was to adjust base rates to reflect the costs to implement a design-build-operate (DBO) contract for the water treatment plant. As of January 1, 2019, pursuant to a twenty-year contract executed with the City of Woonsocket, the DBO contractor took over the operation of the existing water treatment plant which will result in increased overall expenses. Mr. Bebyn noted that in Docket No. 4320, in 2012, projected revenue was set at \$7,997,009, but was not reached, except in FY 2016 and FY 2017.<sup>13</sup> Notwithstanding the failure to generate the projected revenue, WWD was able to pay its bills and fully fund all restricted accounts, except for the infrastructure replacement fund (IFR) and the operating reserve account.<sup>14</sup>

Mr. Bebyn described the procedure he used to determine the test year and rate year figures and his testimony referenced a series of schedules he prepared. For rate design, Mr. Bebyn proposed minor changes to the general structure of the rates; cost allocations were largely in conformance with those approved in Docket No. 4320.<sup>15</sup> Mr. Bebyn noted that the City of Woonsocket is now required to collect hydrant revenues from City ratepayers with a separate

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<sup>12</sup> Direct Test. of Jonathan R. Pratt (Sept. 11, 2018); [http://www.ripuc.org/eventsactions/docket/4879-WWD-RateFiling\(9-11-18\).pdf](http://www.ripuc.org/eventsactions/docket/4879-WWD-RateFiling(9-11-18).pdf).

<sup>13</sup> Bebyn Test. at 3

<sup>14</sup> *Id.* at 3-4.

<sup>15</sup> Sch. DGB-3 and DGB-4.

customer service charge, while ratepayers outside the City do not pay a separate charge. He stated that the results of the funding of the new water treatment facility have driven more of the cost allocation to base and retail water, while lowering the costs for fire protection.<sup>16</sup>

For the first rate year, Mr. Bebyn proposed level revenue funding in all categories: water sales, customer service charges, and fire protection charges. He projected rate year revenues at present rates of \$8,117,079.<sup>17</sup> Mr. Bebyn explained each proposed step increase in detail. For the first rate year expenses, Mr. Bebyn proposed downward adjustments for a series of expenses that were being transferred to the DBO contractor. These included: personnel expenses (payroll, pensions, FICA, worker's compensation insurance, and fringe benefits); fifty percent of educational training expenses; general maintenance and upkeep expenses for the plant; sewer assessment; chemicals; lab and other supplies; and clothing allowances.<sup>18</sup> Increases for the first rate year included: light and power; property taxes; regulatory assessments; health insurance; dental insurance; group life insurance; and two restricted accounts- operating reserve and debt service reimbursement.

In the second rate year, 2020, Mr. Bebyn proposed increases totaling \$445,221, comprised of: new debt service funding, \$170,000; plant operations for the existing water treatment plant, \$50,854; property and fire tax, \$5,402; labor inflation at 2%, \$22,049; non-labor inflation at 2.5%, \$47,132; and operating reserve at 1.5%, \$4,067.<sup>19</sup> In the third rate year, 2021, he recommended increases totaling \$633,928, including: new debt service reserve funding, \$335,000, plant

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<sup>16</sup> Bebyn Test. at 21.

<sup>17</sup> Sch. DGB RY-2.

<sup>18</sup> Sch. DGB-RY-3.

<sup>19</sup> Sch. DGB-COS-11.

operations contract for the new plant, \$218,146; property and fire tax, \$5,564; labor inflation at 2%, \$22,490; non-labor inflation at 2.5%, \$48,310; and operating reserve at 1.5%, \$4,418.<sup>20</sup>

For the fourth rate year, 2022, Mr. Bebyn planned total increases of \$1,363,132, to cover: new debt reserve funding, \$1,225,000; plant operations contract for the new plant, \$57,902; property and fire tax, \$5,731; labor inflation at 2%, \$22,940; non-labor inflation at 2.5%, \$49,518; and operating reserve at 1.5%, \$2,041. For the fifth and final year of the multi-year filing, 2023, Mr. Bebyn proffered upward adjustments of \$1,341,568 comprised of: new debt reserve funding, \$1,200,000; plant operations contract for the new plant, \$59,419; property and fire tax, \$5,903; labor inflation at 2%, \$23,399; non-labor inflation at 2.5%, \$50,756; and operating reserve at 1.5%, \$2,092.

Ms. Gurghigian advised the City on the financing for the water treatment facility. She explained that the financing plan utilized a combination of capital funding from the Rhode Island Infrastructure Bank (Infrastructure Bank) and funding from the Infrastructure Renewal funds (IFR) on a pay-as-you-go basis.<sup>21</sup> WWD will take three loans from the Infrastructure Bank which will be structured such that interest will not be due until payments are made based on invoices presented by project vendors. Principal repayment will begin within one year after completion of the construction period. The City and WWD borrowed \$12.5 million in the spring of 2018 and approximately \$17 million in the fall of 2018. The final loan balance of \$27.7 million is expected to be borrowed in the spring of 2019. These loans will finance \$53.25 million in project costs for the facility as well as interest during the construction project and the costs of issuance.<sup>22</sup> The

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<sup>20</sup> Sch. DGB-COS-12.

<sup>21</sup> Direct Test. of Maureen Gurghigan at 2 (Sept. 11, 2018).

<sup>22</sup> *Id.* at 3.

subsidized interest rate for the loans will be 25% below the public capital markets and are estimated to be at 3% to 3.75%.

The \$12.5 million loan was utilized as follows: \$11,776,958 for project funds; \$49,547 for bond insurance; \$25,397 to be set aside to purchase a debt service fund surety; \$464,098 for capitalized interest; and approximately \$184,000 was allocated for the costs of issuance on the local level, including rating agency fees, bond counsel, financial advisor and trustee fees and the Infrastructure Bank origination fee.<sup>23</sup>

The \$17.0 million phase II loan was utilized as follows: \$16,634,916 for project funds; \$66,885 for bond insurance; \$34,489 to be set aside to purchase a debt service fund surety; and approximately \$234,710 was allocated for the costs of issuance on the local level, including rating agency fees, bond counsel, financial advisor and trustee fees, and the Infrastructure Bank origination fee.<sup>24</sup> The \$27.75 million loan shall be utilized as follows: \$24,898,737 for project funds; \$120,473 for bond insurance; \$65,409 to be set aside to purchase a debt service fund surety; \$2,246,642 for capitalized interest; and approximately \$341,730 is allocated for the costs of issuance on the local level, including rating agency fees, bond counsel, financial advisor and trustee fees, and the Infrastructure Bank origination fee.<sup>25</sup> WWD will also draw from its from its IFR reserve account a total of approximately \$5.5 million; approximately \$3.5 million for project costs, and \$2.0 million for engineering costs<sup>26</sup>

Mr. Otoski provided an overview of the existing water treatment plant and the City's structural regulatory compliance issues which necessitated the plant's replacement with a modern

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<sup>23</sup> *Id.* at 5.

<sup>24</sup> *Id.* at 6.

<sup>25</sup> *Id.* at 6.

<sup>26</sup> Bebyn Test. at 15; Gurghigan Test. at 3 (Sept. 11, 2018).

water treatment plant.<sup>27</sup> He explained that the current plant was built in 1962 and suffers from corrosion issues. There are also cross-contamination concerns with raw and finished water, as well as concerns in meeting chlorine contact time requirements and problems with turbidity. Therefore, the treatment plant's replacement is required by a Consent Agreement with both the Rhode Island Department of Environmental Management and the Rhode Island Department of Health.<sup>28</sup>

After a bidding process, the City executed a DBO contract with Woonsocket Water Services, LLC on July 31, 2017.<sup>29</sup> The contract provides for design, permitting, construction, start-up and acceptance testing of a new raw water pump station; a new raw water transmission main; a new redundant water transmission main; and a new water treatment plant with associated utility connections and pavement and drainage improvements on Jillson Avenue, Woonsocket. In addition, the contract also provided for management services for the existing water treatment plant, commencing on January 1, 2019. These services included operations, maintenance, repair, and replacement and asset management for both the existing water treatment plant and the new water treatment plant.<sup>30</sup>

### **III. Division of Public Utilities and Carriers**

The DPUC submitted prefiled direct testimony from: (1) Lafayette Morgan, a Public Utilities Consultant, on revenue requirement; and (2) Jerome Mierzwa, Utilities Consultant, on rate design. The Division conducted an extensive review of the application, utilizing the assistance of both DPUC staff and these two outside consultants, and issued five sets of data requests to WWD. Mr. Mierzwa reviewed the filing's cost-of-service study and rate design proposal. He

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<sup>27</sup> Test. of Robert Otoski at 1 (Sept. 11, 2018).

<sup>28</sup> *Id.* at 2-3.

<sup>29</sup> *Id.* at 6; Exh. 1-2.

<sup>30</sup> Otoski Test. at 5.



explained that a cost-of-service study is conducted to assist a utility or commission in determining the level of costs properly recoverable from each of the various customer classes to which the utility provides service. Allocation of recoverable cost to each class of service is generally based on cost-causation principles.<sup>31</sup> He explained that WWD's cost-of-service study allocated test year costs to the following functional categories: supply and treatment; transmission and distribution; pumping and storage; meters and services; billing and collection; direct fire; and general and administrative.<sup>32</sup> Mr. Mierzwa found WWD's cost-of-service study and allocations reasonable and appropriate for determining cost responsibility and establishing rates. Notably, he did not propose any changes. He did recommend that in its next rate case, WWD should be required to re-examine and document the reasonableness of its historical assignment of one percent of transmission mains to fire service.<sup>33</sup>

Mr. Morgan analyzed the multiple rate year revenue requirements and proposed a series of reductions in requested funding over the multiple rate years, including: (1) pensions; (2) electric power expense; (3) property taxes; (4) property and liability insurance; (5) City services; (6) rate case expense; and (7) renewal and replacement under the DBO Contract.

### **III Challenged/ Settled Issues-Revenue Requirement**

#### **Pensions (Account 54433)**

WWD's filing calculated the projected level of necessary pension expense of \$119,479 by applying 12.20 % to the total permanent services and longevity pay.<sup>34</sup> However, in discovery, WWD produced documentation that the appropriate pension contribution rate should be 10.77 %.<sup>35</sup>

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<sup>31</sup> Morgan Test. at 3.

<sup>32</sup> Test. of Jerome D. Mierzwa at 3 (January 25, 2019).

<sup>33</sup> *Id.* at 5.

<sup>34</sup> Bebyn Direct Test. at 11; Sch DGB-RY-3.

<sup>35</sup> Div. 2-14 (Oct. 24, 2018).

Therefore, Mr. Morgan recalculated the pension expense which resulted in a rate year decrease of \$14,005. On rebuttal, Mr. Bebyn agreed with Mr. Morgan's adjustment and the reduced figure was incorporated into the Settlement.

#### **Electric Power Expense (Account 52252)**

WWD sought \$390,432 for electric light and power expense in the first rate year. WWD based this amount on the 10.21% increase requested by National Grid in its rate filing which was pending before the Commission at the time the instant docket was opened. Ultimately, however, National Grid was awarded an increase of only 4.74%. As a result, Mr. Morgan recalculated this line item and adjusted this account by decreasing the expense by \$8,519.<sup>36</sup> On rebuttal, WWD accepted this adjustment and the reduced figure was incorporated into the Settlement.<sup>37</sup>

Mr. Morgan also noted that in its initial filing, WWD had received a new proposal for a power supply contract, but that it had not yet been finalized. He recommended that WWD update its filing. On rebuttal, Mr. Bebyn did update the record and indicated that WWD had entered into a new contract with Constellation NewEnergy, Inc. at an all-in rate (both fixed and capacity charges) of \$0.0707/kWh. This represented a 21.32% reduction in energy cost, which translated to a decrease in rate year expense of \$46,644.<sup>38</sup> This updated figure was incorporated into the Settlement.<sup>39</sup>

#### **Property Taxes (Account 52255)**

WWD's filing projected \$180,055 in rate year expense for property taxes. This represented a 3% increase in property taxes, based on two six-month periods from two different fiscal years.<sup>40</sup>

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<sup>36</sup> Morgan Test. at 9; Sch LKM 3-2 (Jan. 25, 2019).

<sup>37</sup> Bebyn Rebuttal Test. at 3 (Feb. 28, 2019); Joint Settlement Sch.1.1 (May 2, 2019).

<sup>38</sup> Bebyn Rebuttal Test. at 3.

<sup>39</sup> Joint Settlement Sch.1.1.

<sup>40</sup> Sch. DBG-7 (Sept. 11, 2018).

Additionally, Mr. Bebyn used 3% as an escalator in all subsequent rate years. Mr. Morgan disagreed with this approach because two six-month periods were insufficient to determine an estimate of future expense growth. He related that when property taxes were viewed over several years, there were years in which taxes decreased. He calculated both a three-year average increase of 1.14 % and a five-year average at 1.09 %. Mr. Morgan selected the three-year average for his adjustment which resulted in a rate year increase of property tax expense of \$5,204 over the Test Year. He also used 1.14% for property tax increases in the multi-year plan in years two and three.<sup>41</sup> On rebuttal, WWD accepted this adjustment and the reduced figure was incorporated into the Settlement.

#### **Health Insurance and Dental Insurance Expense (Accounts 54471 & 54472)**

WWD calculated health insurance costs for the rate year at \$582,718 and dental insurance costs at \$29,470. To project the rate year costs, Mr. Bebyn first removed expenses that had been paid to water treatment plant employees during the test year, because those costs will be moved to the DBO contract in the rate year. He then multiplied the interim year cost by the percentage increase between the interim and rate years. Mr. Bebyn used 9% as the escalation for health insurance and 6% for dental insurance.<sup>42</sup>

Mr. Morgan found that Mr. Bebyn had intended to remove the water treatment plant employee costs in his calculations, but mistakenly had not done so for health and dental insurances costs.<sup>43</sup> Therefore, Mr. Morgan recalculated the healthcare costs, after subtracting costs for the water treatment plant employees. Then, utilizing rate information from Blue Cross, as provided in response to DIV 2-18, Mr. Morgan utilized 8.56% as the figure to increase the healthcare costs.<sup>44</sup>

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<sup>41</sup> Morgan Direct Test. at 10.

<sup>42</sup> Bebyn Direct Test. at 13.

<sup>43</sup> Water treatment employee costs were correctly subtracted from other personnel cost categories.

<sup>44</sup> Morgan Direct Test. at 11.

These adjustments yield health insurance costs in Rate Year 1 of \$441,711 and dental insurance costs of \$19,363. On rebuttal, WWD accepted these adjustments and the reduced figures were incorporated into the Settlement.<sup>45</sup>

#### **City Services (Account 54446)**

WWD projected a rate year cost of \$372,000 for City Services, a category of costs attributed to the Water Department for services provided by City employees, purchased services and supplies, and an allocation for the City's information services.<sup>46</sup> In his review of the filing, Mr. Morgan determined that this account was overstated because it contained more than twelve months of activity. He adjusted this account by \$63,167.<sup>47</sup>

On rebuttal, Mr. Bebyn acknowledged that there had been an error on his schedule DGB-TY-1, which contained more than six months of activity for the period July 2017 through December 2018. Mr. Bebyn agreed that the account should be adjusted. However, he maintained that the adjusted balance at the end of December 2017 should have been \$322,769. He argued, therefore, that the downward adjustment should only be \$49,291.<sup>48</sup> Mr. Morgan agreed with this amended adjustment and the reduced amount of \$49,291 was used to calculate the final figure for the rate year of \$322,769.<sup>49</sup>

#### **Rate Case Expense (Account 54464)**

The original filing contained a rate case expense projected at \$62,500, which was \$200,000 amortized over three years.<sup>50</sup> Upon review of an electronic version of one of Mr. Bebyn's schedules (Schedule DGB-RY-3), Mr. Morgan determined that WWD's rate year expense was

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<sup>45</sup> Bebyn Rebuttal Test. at 3, Joint Settlement Sch. 1.1 at 1 (May 2, 2019).

<sup>46</sup> DIV 2-29 (Oct. 24, 2018).

<sup>47</sup> Sch. LKM 3-5.

<sup>48</sup> Bebyn Rebuttal Test. at 4.

<sup>49</sup> Joint Settlement Sch. 1.1 at 1.

<sup>50</sup> Sch. DGB-RY-3, FN 13.

actually based upon a four-year amortization of \$250,000. Mr. Morgan opined that \$250,000 was excessive when compared to recent rate case expense claimed by the Pawtucket Water Supply Board and the Kent County Water Authority.<sup>51</sup> Mr. Morgan recommended the PUC adopt \$150,000, amortized over the five years of the multi-year rate plan, as a reasonable rate case amount, unless WWD adequately supported its claim for \$250,000.<sup>52</sup>

Mr. Bebyn agreed that there had been a typo on his paper version of Sch. DGB-RY-3. Mr. Bebyn explained further, however, that the \$250,000 addressed not only the base rate filing, but the compliance filings for the four additional step increases as well. He calculated the base filing rate case expense at \$170,000, with \$20,000 per step increase for a total of \$250,000. Mr. Bebyn indicated that if WWD agreed to a reduced base filing rate case expense of \$150,000, then it would still seek \$20,000 for each step increase, for a total of \$230,000.<sup>53</sup>

After rebuttal testimony, WWD and the Division engaged in settlement discussions. Ultimately, the parties agreed to a base rate filing expense of \$150,000, amortized over five years, with a placeholder of \$16,000 for each succeeding step increase, subject to adjustment for actual expenses in each compliance filing.<sup>54</sup>

#### **Renewal and Replacement under the DBO Contract (Account 53336- formerly Chemical Account)**

The initial proposed service fees for the DBO contract were set forth on Schedule 11 of WWD's Corrected Exhibit 1-2.<sup>55</sup> The fees were comprised of three components: (1) Fixed O&M per contract year; (2) Fixed Corrective Maintenance and Repair per contract year; and (3) Fixed

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<sup>51</sup> Morgan Test. at 12.

<sup>52</sup> *Id.*; Sch. LKM 3-6.

<sup>53</sup> Bebyn Rebuttal Test. at 4.

<sup>54</sup> Settlement at par. 21 (a).

<sup>55</sup> Sch. 5 to the DBO contract contains the escalation clause.

Renewal and Replacement per contract year. WWD's filing projected \$105,733 as a contractual amount for Fixed Renewal and Replacement.

## **V. Settlement Agreement**

Following the submission of all prefiled testimony and data requests, the Division and WWD engaged in settlement discussions and negotiations. On May 2, 2019, WWD filed a multi-step rate Settlement Agreement resolving all issues between WWD and the Division. The Settlement reduced the rate and step increases originally proposed by WWD. According to the Settlement, WWD was authorized to adjust rates in the first step to obtain additional revenues of \$482,867 to support a total cost of service of \$8,609,008. The impact of the increase on a typical City of Woonsocket residential customer would be an increase of \$23.00 per year, or 5.05%, while the impact to non-Woonsocket residential customers would be \$35.00 per year or 8.80%.<sup>56</sup> Other customer rates varied by class.

The Settlement authorized additional revenues for the second step of \$446,822, to support a total revenue requirement of \$9,055,829, resulting in an across-the-board increase to all rate classes of 5.39%. For the typical residential customer, the impact will cause an increase of \$26.00 per year.<sup>57</sup> In the third step, the Settlement authorized collection of additional revenue totaling \$391,910, to support a total revenue requirement of \$9,447,739, resulting in an across-the-board increase of \$4.49% on all rate classes. The impact of the third step increase to a typical residential customer would be an increase of \$23.00 per year.<sup>58</sup>

The Settlement authorized additional revenues for the fourth step of \$1,277,957, to support a total revenue requirement of \$10,403,844, resulting in an across-the-board increase to all rate

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<sup>56</sup> Settlement at par. 25.

<sup>57</sup> Settlement at par. 26.

<sup>58</sup> Settlement at par. 27.

classes of 14%. For the typical residential customer, the impact will cause an increase of \$75.00 per year.<sup>59</sup> In the fifth and final step, the Settlement authorized collection of additional revenue totaling \$1,252,777, to support a total revenue requirement of \$11,978,473, resulting in an across-the-board increase of \$12.04% on all rate classes. The impact of the fifth step increase to a typical residential customer would be an increase of \$73.00 per year.<sup>60</sup>

Additionally, the Settlement delineated agreed-upon annual funding for WWD's Restricted Accounts: Infrastructure Replacement, \$1,335,000; Debt Service Reimbursement, \$1,965,000; and Renewal & Replacement Fund, \$120,000.<sup>61</sup>

## **VI. Hearing and Decision**

On May 16, 2019, the PUC conducted a hearing on the proposed Settlement Agreement. WWD's and the Division's witnesses submitted to cross-examination by the PUC and its staff. In his opening statement, WWD's attorney represented that at the time of the hearing, the water treatment plant project was fully designed, permitted, and under construction. Moreover, the construction was on time and under budget by \$100,000. He further reported that WWD had secured permission from the Division in the summer of 2018 to enter into long-term debt and to issue revenue bonds not to exceed \$44,750,000 as part of a Rhode Island Drinking Water State Revolving Fund loan from the Infrastructure Bank.

Mr. Otoski explained that the water treatment plant construction was well underway, slightly ahead of schedule, with the foundation and subsurface work completed. He indicated that construction would be largely completed by the summer of 2020, to be followed by a six month or so period of testing. He confirmed that final completion of the new water treatment plant was

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<sup>59</sup> Settlement at par. 28 (May 2, 2019).

<sup>60</sup> Settlement at par. 29 (May 2, 2019).

<sup>61</sup> Settlement at par. 31 (May 2, 2019).

still estimated to be December 2020. Mr. Otoski explained that the current plan contemplated a safe abandonment of the current water treatment plant, until the City determines the facility's future. Mr. Otoski confirmed the plant's projected operating capacity was planned for the flow of 7.5 million gallons per day, which would accommodate growth from current flows. Additionally, the plant could be expanded by approximately 30% to 10.5 million gallons per day.<sup>62</sup>

Mr. Pratt confirmed that the DBO contractor did take over the operations of the current water treatment plant in January 2019, as planned. He asserted that the plant is operating without issue; no water treatment violations have been issued and that the City is very pleased with the services of the DBO contractor's operation of the current water treatment plant.<sup>63</sup>

Mr. Morgan confirmed that, in his expert opinion, the proposed settlement was fair and reasonable and in the best interest of ratepayers because it addressed his concerns about the uncertainty of future costs. The settlement contains safeguards that will ensure that costs for the DBO contract and rate case expense will be updated prior to the effective date of future step increases. Additionally, the step increases in the last two years are limited to debt service, the plant operating contract, and the operating reserves. Increases for property and fire taxes, inflation for labor, and inflation for non-labor expenses were not included in the final two step increases. He opined that providing the funds under the settlement is in the best interest of ratepayers because it will permit WWD to provide safe and reliable service.<sup>64</sup>

Ms. Gurghigian advised that the first two loans have already closed, at rates lower than projected. They had been planned and approved for up to 4.8% market rate with an effective rate, after subsidy, of 3.7%. However, rates had declined and the effective issuance rate was 2.7%.

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<sup>62</sup> Hr'g. Tr. at. \_\_\_\_\_

<sup>63</sup> *Id.* at 36-37.

<sup>64</sup> *Id.* at 42-43.



The upcoming loan had been approved for a not-to-exceed market rate of 5.3%, with a subsidized rate of 4.5%, but is now expected to have a market rate of approximately 4%, with a subsidized rate of approximately 3%.<sup>65</sup>

Mr. Bebyn confirmed that despite the request in the filing for the rate years to begin on January 1 in each year, due to the suspension of the filing, WWD would seek to commence the first rate year immediately upon the PUC's decision, with each rate year comprising a full calendar year, rather than beginning with an abbreviated first rate year. Therefore, the step increases will be effective in May of each succeeding year, with the compliance filings being made no later than sixty days prior to the effective date.<sup>66</sup>

Mr. Bebyn explained that although the DBO contract provides an anticipated schedule of expenses for renewal and replacement that has varying costs from year-to-year over the twenty years, the collection of those expenses will occur on a level-funded basis over the course of the twenty years, not on an actual replacement basis.<sup>67</sup> Approaching the funding in this manner avoids step increases in later years. Mr. Otoski contended that the type of expenses expected under renewal and replacement included mechanical type items such as pumps, propellers, bearings, and other moving parts that have a pre-determined life span.<sup>68</sup>

Mr. Bebyn asserted that when the City of Woonsocket negotiated the DBO contract, WWD's team was very careful to assure that the DBO contract contained a full scope of costs, so that there would not be a great deal of pass-through costs. The one item that was negotiated as a pass-through cost was electricity.<sup>69</sup> Mr. Bebyn and Mr. Otoski confirmed that the negotiated DBO

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<sup>65</sup> *Id.* at 63.

<sup>66</sup> *Id.* at 48-49.

<sup>67</sup> *Id.* at 51.

<sup>68</sup> *Id.* at 53.

<sup>69</sup> *Id.* at 55.

service fee did not include any costs for extra personnel that the Rhode Island Department of Health might require in the future for twenty-four/seven staffing. At present, there is no indication that such staffing will be required, but the notation was included to acknowledge that such an expense would be beyond the scope of the DBO contract.<sup>70</sup> Mr. Bebyn concluded his testimony with his assertion that the proposed Settlement was, in his opinion, in the best interest of ratepayers.<sup>71</sup>

At an Open Meeting held on May 17, 2019, the PUC found the Settlement Agreement to be just, fair, and reasonable and in the public interest. The PUC determined the proposed rates to be adequate, equitable and otherwise consistent with R.I. General Laws §§39-15.1-3 and 39-15.1-4. Based on these findings, the PUC voted to approve the Settlement Agreement dated May 2, 2019.

Accordingly, it is hereby

(23605) ORDERED:

1. The Settlement Agreement executed by the City of Woonsocket's Water Division and the Division of Public Utilities and Carriers on May 2, 2019, is hereby approved, and the same shall be incorporated by reference as Appendix A and made a part of this Order.
2. The City of Woonsocket Water Division's Unopposed Motion for Protective Treatment for its answer to PUC 1-2 is hereby granted.

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<sup>70</sup> *Id.* at 57.

<sup>71</sup> *Id.* at 119.

EFFECTIVE AT WARWICK, RHODE ISLAND ON MAY 17, 2019 PURSUANT TO AN  
OPEN MEETING HELD MAY 17, 2019. WRITTEN ORDER ISSUED MAY 31, 2019.

PUBLIC UTILITIES COMMISSION



*Margaret E. Curran*

Margaret E. Curran, Chairperson

*Marion Gold*

Marion Gold, Commissioner

*Abigail Anthony*

Abigail Anthony, Commissioner

**NOTICE OF RIGHT OF APPEAL:** Pursuant to R.I. Gen. Laws §39-5-1, any person aggrieved by a decision or order of the PUC may, within seven days from the date of the order, petition the Supreme Court for a Writ of Certiorari to review the legality and reasonableness of the decision or order.

**STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS  
PUBLIC UTILITIES COMMISSION**

IN RE: CITY OF WOONSOCKET, )  
WATER DIVISION ) DOCKET NO. 4879  
APPLICATION TO IMPLEMENT )  
MULTI-YEAR RATE PLAN )

## I. INTRODUCTION

## II. RECITALS

- 1

communities served by the WWD who uses 8,000 cubic feet of water per year (165 gallons per day) will result in an increase of \$52 per year, or 13.34%. The impact of the proposed rate increase on other retail customer classes is between 9.73% and 13.34%, wholesale customers 12.85% and Private Fire Service is a decrease of 1.43% to 14.84%. Municipal Fire Service is a decrease of 17.21% per hydrant.

5. In the second step of the increase, the WWD's proposed rates are designed to collect additional operating revenue in the amount of \$445,221 to support total operating revenue requirements of \$9,361,505.

6. The impact of this second step request would have resulted in an across-the board rate increase of approximately 4.99% on all rate classes. For a typical residential customer who uses 8,000 cubic feet of water per year (165 gallons per day), the impact of this request will result in an increase of \$25 per year.

7. In the third step of the increase, the WWD's proposed rates are designed to collect additional operating revenue in the amount of \$633,928 to support total operating revenue requirements of \$9,995,433.

8. The impact of this third step request would have resulted in an across-the board rate increase of approximately 6.77% on all rate classes. For a typical residential customer who uses 8,000 cubic feet of water per year (165 gallons per day), the impact of this request will result in an increase of \$36 per year.

9. In the fourth step of the increase, the WWD's proposed rates are designed to collect additional operating revenue in the amount of \$1,363,132 to support total operating revenue requirements of \$11,358,565.

10. The impact of this fourth step request would have resulted in an across-the board rate increase of approximately 13.64% on all rate classes. For a typical residential customer who uses 8,000 cubic feet of water per year (165 gallons per day), the impact of this request will result in an increase of \$77 per year.

11. In the fifth step of the increase, the WWD's proposed rates are designed to collect additional operating revenue in the amount of \$1,341,568 to support total operating revenue requirements of \$12,700,133.

12. The impact of this fifth step request would have resulted in an across-the board rate increase of approximately 11.81% on all rate classes. For a typical residential customer who uses 8,000 cubic feet of water per year (165 gallons per day), the impact of this request will result in an increase of \$76 per year.

13. In support of its Application, the WWD filed the direct testimony and schedules of David Bebyn, C.P.A. of B & E Consulting, LLC; Maureen E. Gurghigian of Hilltop Securities Inc.; Robert M. Otoski, P.E. of CDM Smith; and Jonathan Pratt, Chief Engineer of the WWD.

14. In response to the WWD's filing, the Division conducted an investigation and review of the Application with assistance of its staff and two outside expert consultants. The Division also issued data requests to assist in its investigation and review.

15. On January 25, 2019, the Division submitted direct testimony from its consultants Lafayette K. Morgan, Jr. and Jerome D. Mierzwa of Exeter Associates, Inc.

16. The Division, through the testimony of Mr. Morgan, sought to limit the multi-year plan to a three-year plan, instead of a five-year plan. However, Mr. Morgan indicated that the five-year plan could be used if the WWD limited the additional expenditures for the fourth and fifth year to increases to the DBO contract and debt service. Mr. Morgan suggested reducing the

amount the WWD requested by \$812,213 over the next five years. For the rate year, Mr. Morgan suggested a change in revenue that would be \$283,570 less than the amount the WWD requested.

17. Mr. Morgan also adjusted the WWD's original request in the following categories: (a) other operating revenues; (b) pension expense; (c) property taxes; (d) health and dental insurance; (e) city service charges; (f) rate case expense; (g) DBO contract; (h) inflation escalation; and (i) step increases.

18. Mr. Mierzwa did not propose any changes to the WWD's cost of service study, but provided recommendations regarding the WWD's future cost of service studies. Mr. Mierzwa did not propose any changes regarding the WWD's general rate structure.

19. On February 28, 2019, the WWD filed rebuttal testimony and schedules from David G. Bebyn, C.P.A. In the rebuttal testimony, the WWD accepted many of the Division's requested revisions, but still disagreed on the following topics: (a) decreasing the service charge expense; (b) decreasing the rate case expense; and (c) decreasing the DBO contract expense for renewal and replacement.

20. Following the WWD's filing of its rebuttal testimony, the WWD and the Division engaged in settlement discussions and negotiations.

21. During these discussions and negotiations, the WWD and the Division narrowed their areas of disagreement on the WWD's revenue request to four specific expense items:

- a. Rate Case Expense – The Parties agreed to a five-year normalization of an amount of \$150,000 for rate case expense as a placeholder for the actual amount to be reflected in the initial increase. The Parties have agreed to update rate case expense to reflect actual expenses as near as possible. For the

step increases, the Parties have agreed to a placeholder amount of \$16,000, which would be subject to adjustment during the step increase compliance filing.

- b. City Services – The Parties have agreed to limit the adjustment to City Services to \$49,291 per the response to the Division’s Data Request, No. 2-29.
- c. The third area of disagreement deals with the renewal and replacement costs in the DBO service fee. At issue was when the WWD would be obligated to make payments to fund renewals and replacements. For purposes of determining the step increases, the Parties have agreed to use the \$105,733 presented by the WWD as the initial payment to fund the renewals and replacement, recognizing that the actual amount, if different, will be known before the step increase would become effective.

22. As a result of these settlement discussions and after due consideration of the testimony, exhibits, schedules, data requests, data responses, and other documentation included in the filings of the Parties in this Docket, the WWD and the Division have agreed to a settlement which resolves all issues relating to the WWD’s Application.

23. The WWD and the Division, by and through their respective representatives, believe that this settlement, as a whole, constitutes a just and reasonable resolution of the issues in this proceeding, and jointly request its approval by the Commission.

### **III. TERMS OF SETTLEMENT**

24. Incorporated herein and attached hereto as Exhibit 1 are Joint Settlement Schedules 1.0 thru 12.2, which memorialize the settlement. The Parties agree with these schedules as presented.



25. As set forth in these Schedules, in the first step of the increase, the WWD's rates are designed to allow for the collection of additional operating revenue in the amount of \$482,867, to support total cost of service of \$8,609,008. The impact of this first step request will result in a 5.94% increase in total revenues. The impact of the proposed rate increase on a typical residential customer who uses 8,000 cubic feet of water per year (165 gallons per day) will result in an increase of \$23 per year, or 5.05%. The impact of this first step request for a typical residential customer in other communities served by the WWD who uses 8,000 cubic feet of water per year (165 gallons per day) will result in an increase of \$35 per year, or 8.80%. The impact of the proposed rate increase on other retail customer classes is between 4.71% and 8.82%, wholesale customers 9.92%. The impact of the first step is a decrease of 9.28% to 20.33% on private fire service and a decrease of 23.30% per hydrant for municipal fire service.

26. In the second step of the increase, the WWD's proposed rates are designed to collect additional operating revenue in the amount of \$446,822, to support total operating revenue requirements of \$9,055,829. The impact of this second step request will result in an across-the board rate increase of approximately 5.39% on all rate classes. For a typical residential customer who uses 8,000 cubic feet of water per year (165 gallons per day), the impact of this second step request will result in an increase of \$26 per year.

27. In the third step of the increase, the WWD's proposed rates are designed to collect additional operating revenue in the amount of \$391,910 to support total operating revenue requirements of \$9,447,739. The impact of this third step request will result in an across-the board rate increase of approximately 4.49% on all rate classes. For a typical residential customer who uses 8,000 cubic feet of water per year (165 gallons per day), the impact of this third step request will result in an increase of \$23 per year.

28. In the fourth step of the increase, the WWD's proposed rates are designed to collect additional operating revenue in the amount of \$1,277,957 to support total operating revenue requirements of \$10,403,844. The impact of this fourth step request will result in an across-the board rate increase of approximately 14.00% on all rate classes. For a typical residential customer who uses 8,000 cubic feet of water per year (165 gallons per day), the impact of this fourth step request will result in an increase of \$75 per year.

29. In the fifth step of the increase, the WWD's proposed rates are designed to collect additional operating revenue in the amount of \$1,252,777 to support total operating revenue requirements of \$11,978,473. The impact of this fifth step request will result in an across-the board rate increase of approximately 12.04% on all rate classes. For a typical residential customer who uses 8,000 cubic feet of water per year (165 gallons per day), the impact of this fifth step request will result in an increase of \$73 per year.

30. The WWD will continue with all current reporting requirements.

31. The WWD will fund its Restricted Accounts at the following levels for the rate year:

Infrastructure Replacement:	\$1,335,00.00
Debt Service Reimbursement:	\$1,965,00.00
Renewal & Replacement Fund:	\$120,000.00

The amounts for the Infrastructure Replacement and Renewal & Replacement Accounts will remain fixed at the rate case year until the WWD's next rate case; Debt Service Account level will be \$2,135,000 in the second step of the increase, \$2,470,000 in the third step of the increase, \$3,695,000 in the fourth step of the increase, and \$4,895,000 in the fifth step of the increase. All of these Debt Service levels will be adjusted in accordance with the Commission's decision regarding the WWD's compliance filing for each step increase.

#### **IV. EFFECT OF SETTLEMENT**

32. This Settlement Agreement is the result of a negotiated settlement. The discussions which have produced this Settlement Agreement have been conducted with the explicit understanding that all offers of settlement and discussion relating thereto are and shall be privileged, shall be without prejudice to the position of any party or participant presenting such offer or participating in any such discussion, and are not to be used in any manner in connection with these or other proceedings.


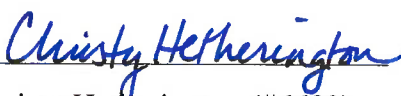
33. This Settlement Agreement is the product of negotiation and compromise. The making of this agreement establishes no principal or precedent. This agreement shall not be deemed to foreclose any party from making any contention in any future proceeding or investigation.

34. The agreement by any party to the terms of this Settlement Agreement shall not be construed as an agreement as to any matter of fact or law beyond the terms thereof. By entering into this Settlement Agreement, matters or issues other than those explicitly identified in this agreement have not been settled upon or conceded by any party to this Settlement Agreement, and nothing in this agreement shall preclude any party from taking any position in any future proceeding regarding such unsettled matters.

35. In the event that the Commission rejects this Settlement Agreement, or modifies this agreement or any provision therein, then this agreement shall be deemed withdrawn and shall be null and void in all respects.

IN WITNESS WHEREOF, the Parties agree that this Settlement Agreement is reasonable, in the public interest and in accordance with law and regulatory policy, and have caused this agreement to be executed by their respective representatives, each being authorized to do so.

Dated this 2nd day of May, 2019.

<p>CITY OF WOONSOCKET, WATER DIVISION</p> <p>By its Attorney,</p>  <hr/> <p>Alan M. Shoer (#3248)</p> <p>ADLER POLLOCK &amp; SHEEHAN P.C.</p> <p>One Citizens Plaza, 8<sup>th</sup> Fl.</p> <p>Pawtucket, RI 02903</p> <p>Tel: (401)-274-7200</p> <p>ashoer@apslaw.com</p>	<p>DIVISION OF PUBLIC UTILITIES AND CARRIERS,</p> <p>By its Attorney,</p>  <hr/> <p>Christy Hetherington (#6693)</p> <p>Special Assistant Attorney General</p> <p>150 South Main Street</p> <p>Providence, RI 02903</p> <p>Tel: (401)-274-4400, ext. 2425</p> <p>chetherington@riag.ri.gov</p>
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# **EXHIBIT 1**

**TEST YEAR & RATE YEAR EXPENSES**  
**WOONSOCKET WATER DIVISION**

**Joint Settlement Schedule-1.0**  
**Page 1 of 2**

ACCT. #	BUDGET ACCOUNT DESCRIPTION	ADJUSTED TEST YEAR	SUMMARY OF ADJUSTMENTS	RATE YEAR 12/31/19	Adjustment as percent of Test Year	Adujustment Supporting Schedule
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**EXPENSES**

*Personnel Expense*

51110	Permanent Services	\$ 1,388,854	\$ (446,259)	\$ 942,595	-32%	DGB-RY-3
51122	Temporary Labor	20,173	-	20,173		
51141	Overtime Pay	200,286	(125,179)	75,107	-63%	DGB-RY-3
51144	Out of Class	367	-	367		
51145	Longevity Pay	53,989	(17,246)	36,743	-32%	DGB-RY-3
51146	Medical Buy Back	15,756	(6,756)	9,000	-43%	DGB-RY-3
51147	Sick Leave Reimbursement	1,920	-	1,920		
51149	Shift Differential	9,262	(4,631)	4,631	-50%	DGB-RY-3
51153	Non-sick/Injury Bonus	1,080	-	1,080		
51155	Bonus for Course	17,439	(7,124)	10,315	-41%	DGB-RY-3
51160	Retirement	535	-	535		
<i>Total Personnel Expenses</i>		1,709,661	(607,195)	1,102,465		

*Maintenance & Servicing Expenses*

52211	Postage	16,135	-	16,135		
52212	Telephone	30,734	-	30,734		
52213	Dues & Subscriptions	2,726	-	2,726		
52214	Advertising	3,631	-	3,631		
52216	Travel Out of City	184	-	184		
52219	Educational Training	8,585	(4,292)	4,292	-50%	DGB-RY-3
52221	Printing & Reproducing	20,937	-	20,937		
52231	General Maint. & Upkeep	40,496	(40,496)	(0)	-100%	DGB-RY-3
52234	Vehicle & Outside Equip. Upkeep	34,489	-	34,489		
52236	Maintenance - Office Equipment	116	-	116		
52238	Maintenance - Roads & Walks	42,982	-	42,982		
52239	Computer Software	4,653	-	4,653		
52244	Land Rental Charges	2,862	-	2,862		
52249	Other Rentals	17,926	-	17,926		
52251	Heating	7,061	-	7,061		
52252	Light & Power	374,530	(39,261)	335,269	-10%	Joint Settlement Schedule-1.1
52255	Property & Fire Taxes	169,237	5,614	174,851	3%	LKM-3
52256	Sewer Assessment	83,899	(83,899)	0	-100%	DGB-RY-3
52258	State Pollution Monitoring Program	21,477	-	21,477		
52260	Regulatory Assessments	59,724	5,526	65,250	9%	DGB-RY-3
52261	Conservation Services	-	-	-		
52266	Police Details	1,263	-	1,263		
52281	Other Independent Service	51,656	-	51,656		
52282	Audit Service	3,750	-	3,750		
52283	Legal Service	6,148	-	6,148		
52289	Medical Examinations	-	-	-		
52290	Engineering Service	825	-	825		
<i>Total Maintenance &amp; Servicing Expenses</i>		1,006,026	(156,808)	849,218		

*Operating Supplies & Expenses*

53311	Office Supplies	2,699	-	2,699		
53321	Gas & Diesel	22,611	-	22,611		
53322	Tires & Batteries	2,506	-	2,506		
53336	Chemicals - Water Supply	-	-	-		
	Plant Operating Contract existing		1,941,000	1,941,000	100%	DGB-RY-3
	Plant Operating Contract (Chem Crdt)		(145,717)	(145,717)	100%	DGB-RY-3
53344	Tools & Implements	2,484	-	2,484		
53346	Cleaning & Housekeeping Supplies	1,563	-	1,563		
53349	Other Supplies	39,261	(19,631)	19,631	-50%	DGB-RY-3
53351	Lab Supplies	30,129	(30,129)	(0)	-100%	DGB-RY-3
53363	Clothing & Footware	6,082	(3,041)	3,041	-50%	DGB-RY-3
53366	Drug & Medical Supplies	402	-	402		
53369	Clothing Allowance	4,091	(2,046)	2,046	-50%	DGB-RY-3
<i>Total Operating Supplies &amp; Expenses</i>		111,828	1,740,437	1,852,265		

**TEST YEAR & RATE YEAR EXPENSES**  
**WOONSOCKET WATER DIVISION**

**Joint Settlement Schedule-1.0**  
**Page 2 of 2**

ACCT. #	BUDGET ACCOUNT DESCRIPTION	ADJUSTED TEST YEAR	SUMMARY OF ADJUSTMENTS	RATE YEAR 12/31/19	Adjustment as percent of Test Year	Adujustment Supporting Schedule
<i>General Expenses</i>						
54413	Fiscal Certification	7,750	-	7,750		
54433	Pensions	178,142	(72,668)	105,474	-41%	LKM-3
54434	FICA Employer Cost	130,789	(46,450)	84,339	-36%	DGB-RY-3
54446	City Service Charges	372,060	(49,291)	322,769	-13%	Joint Settlement Schedule-1.1
54451	Insurance - Vehicles & Equipment	75,501	-	75,501		
54452	Insurance - Workmen's Comp	131,800	(50,084)	81,716	-38%	DGB-RY-3
54453	Insurance - Liability	122,819	(998)	121,821	-1%	DGB-RY-3
54456	Insurance - Group Life	13,787	549	14,336	4%	DGB-RY-3
54471	Health Insurance	533,637	(91,926)	441,711	-17%	LKM-3
54472	Dental Insurance	27,860	(8,497)	19,363	-30%	LKM-3
54493	Bad Debt Exp	-	-	-		
<i>Total General Expenses</i>		1,594,145	(319,365)	1,274,780		
<i>Restricted Account Expenses</i>						
53336	Chemicals - Water Supply	396,000	(396,000)	-	-100%	DGB-RY-3
54417	Operating Resrve	63,180	17,100	80,280	27%	DGB-RY-3
54463	Infrastructure Replacement	1,700,000	(365,000)	1,335,000	-21%	DGB-RY-3
54464	Rate Case Expense (Unrestricted)	65,864	(35,864)	30,000	-54%	LKM-3
54467	Debt Service Reimbursement	1,600,000	365,000	1,965,000	23%	DGB-RY-3
54473	Renewal & Replace Fund	120,000	-	120,000		DGB-RY-3
<i>Total Other Miscellaneous Expenses</i>		3,945,044	(414,764)	3,530,280		
TOTAL EXPENSES		\$ 8,366,703	\$ 242,305	\$ 8,609,008		
<i>Miscellaneous Revenue</i>						
41030	Service & Extentions	121,513	1,610	123,123	1%	LKM-3
41035	Repairs	-	-	-		
41040	Miscellaneous Income	34,625	4,031	38,656	12%	LKM-3
41070	Water Surcharge	21,170	-	21,170		
42310	Interest on Bills	106,652	3,421	110,073	3%	LKM-3
42320	Interest on Investments	28,830	-	28,830		
	Interest on Restricted Accounts	-	-	-		
		312,790	9,062	321,852		
Revenue Requirement		\$ 8,053,913	\$ 233,243	\$ 8,287,155		

**EXPENSE SUMMARY - RATE YEAR**  
**WOONSOCKET WATER DIVISION**

**Joint Settlement Schedule-1.1**  
**Page 1 of 2**

ACCT. #	DESCRIPTION	WWD Adjusted Test Year	WWD Rate Year Adjustments	WWD Adjusted Rate Year	Division Adjusted Rate Year	Division Adjusted Rate Year	Settlement Adjusted Rate Year	Settlement Adjusted Rate Year
<b>EXPENSES</b>								
<i>Personnel Expense</i>								
51110	Permanent Services	\$ 1,388,854	\$ (446,259)	\$ 942,595	\$ -	\$ 942,595	\$ -	\$ 942,595
51122	Temporary Labor	20,173	-	20,173	-	20,173	-	20,173
51141	Overtime Pay	200,286	(125,179)	75,107	-	75,107	-	75,107
51144	Out of Class	367	-	367	-	367	-	367
51145	Longevity Pay	53,989	(17,246)	36,743	-	36,743	-	36,743
51146	Medical Buy Back	15,756	(6,756)	9,000	-	9,000	-	9,000
51147	Sick Leave Reimbursement	1,920	-	1,920	-	1,920	-	1,920
51149	Shift Differential	9,262	(4,631)	4,631	-	4,631	-	4,631
51153	Non-sick/Injury Bonus	1,080	-	1,080	-	1,080	-	1,080
51155	Bonus for Course	17,439	(7,124)	10,315	-	10,315	-	10,315
51160	Retirement	535	-	535	-	535	-	535
<i>Total Personnel Expenses</i>		1,709,661	(607,195)	1,102,465	-	1,102,465	-	1,102,465
<i>Maintenance &amp; Servicing Expenses</i>								
52211	Postage	16,135	-	16,135	-	16,135	-	16,135
52212	Telephone	30,734	-	30,734	-	30,734	-	30,734
52213	Dues & Subscriptions	2,726	-	2,726	-	2,726	-	2,726
52214	Advertising	3,631	-	3,631	-	3,631	-	3,631
52216	Travel Out of City	184	-	184	-	184	-	184
52219	Educational Training	8,585	(4,292)	4,292	-	4,292	-	4,292
52221	Printing & Reproducing	20,937	-	20,937	-	20,937	-	20,937
52231	General Maint. & Upkeep	40,496	(40,496)	(0)	-	(0)	-	(0)
52234	Vehicle & Outside Equip. Upkeep	34,489	-	34,489	-	34,489	-	34,489
52236	Maintenance - Office Equipment	116	-	116	-	116	-	116
52238	Maintenance - Roads & Walks	42,982	-	42,982	-	42,982	-	42,982
52239	Computer Software	4,653	-	4,653	-	4,653	-	4,653
52244	Land Rental Charges	2,862	-	2,862	-	2,862	-	2,862
52249	Other Rentals	17,926	-	17,926	-	17,926	-	17,926
52251	Heating	7,061	-	7,061	-	7,061	-	7,061
52252	Light & Power	374,530	15,902	390,432	(8,519)	381,913	(46,644)	335,269 (A)
52255	Property & Fire Taxes	169,237	10,818	180,055	(5,204)	174,851	-	174,851
52256	Sewer Assessment	83,899	(83,899)	0	-	0	-	0
52258	State Pollution Monitoring Program	21,477	-	21,477	-	21,477	-	21,477
52260	Regulatory Assessments	59,724	5,526	65,250	-	65,250	-	65,250
52261	Conservation Services	-	-	-	-	-	-	-
52266	Police Details	1,263	-	1,263	-	1,263	-	1,263
52281	Other Independent Service	51,656	-	51,656	-	51,656	-	51,656
52282	Audit Service	3,750	-	3,750	-	3,750	-	3,750
52283	Legal Service	6,148	-	6,148	-	6,148	-	6,148
52289	Medical Examinations	-	-	-	-	-	-	-
52290	Engineering Service	825	-	825	-	825	-	825
<i>Total Maintenance &amp; Servicing Expenses</i>		1,006,026	(96,442)	909,584	(13,723)	895,861	(46,644)	849,217
<i>Operating Supplies &amp; Expenses</i>								
53311	Office Supplies	2,699	-	2,699	-	2,699	-	2,699
53321	Gas & Diesel	22,611	-	22,611	-	22,611	-	22,611
53322	Tires & Batteries	2,506	-	2,506	-	2,506	-	2,506
53336	Chemicals - Water Supply	-	-	-	-	-	-	-
	Plant Operating Contract existing	-	1,941,000	1,941,000	-	1,941,000	-	1,941,000
	Plant Operating Contract (Chem Crdt)	-	(145,717)	(145,717)	-	(145,717)	-	(145,717)
53344	Tools & Implements	2,484	-	2,484	-	2,484	-	2,484
53346	Cleaning & Housekeeping Supplies	1,563	-	1,563	-	1,563	-	1,563
53349	Other Supplies	39,261	(19,631)	19,631	-	19,631	-	19,631
53351	Lab Supplies	30,129	(30,129)	(0)	-	(0)	-	(0)
53363	Clothing & Footware	6,082	(3,041)	3,041	-	3,041	-	3,041
53366	Drug & Medical Supplies	402	-	402	-	402	-	402
53369	Clothing Allowance	4,091	(2,046)	2,046	-	2,046	-	2,046
<i>Total Operating Supplies &amp; Expenses</i>		111,828	1,740,437	1,852,265	-	1,852,265	-	1,852,265
<i>General Expenses</i>								
54413	Fiscal Certification	7,750	-	7,750	-	7,750	-	7,750
54433	Pensions	178,142	(58,663)	119,479	(14,005)	105,474	-	105,474
54434	FICA Employer Cost	130,789	(46,450)	84,339	-	84,339	-	84,339
54446	City Service Charges	372,060	1	372,060	(63,167)	308,893	13,876	322,769 (B)
54451	Insurance - Vehicles & Equipment	75,501	-	75,501	-	75,501	-	75,501
54452	Insurance - Workmen's Comp	131,800	(50,084)	81,716	-	81,716	-	81,716
54453	Insurance - Liability	122,819	(998)	121,821	-	121,821	-	121,821
54456	Insurance - Group Life	13,787	549	14,336	-	14,336	-	14,336
54471	Health Insurance	533,637	49,081	582,718	(141,007)	441,711	-	441,711
54472	Dental Insurance	27,860	1,610	29,470	(10,107)	19,363	-	19,363
54493	Bad Debt Exp	-	-	-	-	-	-	-
<i>Total General Expenses</i>		1,594,145	(104,955)	1,489,190	(228,286)	1,260,904	13,876	1,274,780



EXPENSE SUMMARY - RATE YEAR  
WOONSOCKET WATER DIVISION

Joint Settlement Schedule-1.1  
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ACCT. #	DESCRIPTION	Test Year	Adjustments	Rate Year	Adjustments	Rate Year	Adjustments	Rate Year
<i>Restricted Account Expenses</i>								
53336	Chemicals - Water Supply	396,000	(396,000)	-	-	-	-	-
54417	Operating Resrve	63,180	17,100	80,280	-	80,280	-	80,280
54463	Infrastructure Replacement	1,700,000	(365,000)	1,335,000	-	1,335,000	-	1,335,000
54464	Rate Case Expense (Unrestricted)	65,864	(3,364)	62,500	(32,500)	30,000	-	30,000
54467	Debt Service Reimbursement	1,600,000	365,000	1,965,000	-	1,965,000	-	1,965,000
54473	Renewal & Replace Fund	120,000	-	120,000	-	120,000	-	120,000
<i>Total Other Miscellaneous Expenses</i>		<u>3,945,044</u>	<u>(382,264)</u>	<u>3,562,780</u>	<u>(32,500)</u>	<u>3,530,280</u>	<u>-</u>	<u>3,530,280</u>
TOTAL EXPENSES		<u>\$ 8,366,703</u>	<u>\$ 549,581</u>	<u>\$ 8,916,284</u>	<u>\$ (274,509)</u>	<u>\$ 8,641,775</u>	<u>\$ (32,768)</u>	<u>\$ 8,609,007</u>

(A) Test Year Adjustment	15,902	Calculation presented on Schedule DGB-RY-6
Division Adjustment	(8,519)	Calculation presented on Schedule LKM-3-2
Settlement Adjustment	(46,644)	Calculation presented on page 3 of Bebyn Rebuttal Testimony
Test Year to Settlement Adjustment	<u>(39,261)</u>	
(B) Test Year Adjustment	1	Calculation presented on Schedule DGB-RY-3
Division Adjustment	(63,167)	Calculation presented on Schedule LKM-3-5
Settlement Adjustment	13,876	
Test Year to Settlement Adjustment	<u>(49,291)</u>	Calculation presented on page 4 of Bebyn Rebuttal Testimony

**STATEMENT OF REVENUE - RATE YEAR**  
**WOONSOCKET WATER DIVISION**

Joint Settlement Schedule-1.2

ACCT. #	DESCRIPTION	WWD Adjusted Test Year	WWD Rate Year Adjustments	WWD Adjusted Rate Year	Division Adjustments	Division Adjusted Rate Year	Settlement Adjustments	Settlement Adjusted Rate Year
<b>REVENUE</b>								
<i>Revenue from Rates and Charges</i>								
41010	Water Sales	\$ 5,915,529	\$ -	\$ 5,915,529	-	\$ 5,915,529	-	\$ 5,915,529
	Wholesale Sales	419,565	-	419,565	-	419,565	-	419,565
	Customer Service Revenue	668,064	-	668,064	-	668,064	-	668,064
	Customer Service Woon. Fire Prot.	662,026	-	662,026	-	662,026	-	662,026
	Public Fire Service Revenue	26,746	-	26,746	-	26,746	-	26,746
	Private Fire Service Revenue	112,358	-	112,358	-	112,358	-	112,358
		7,804,289	-	7,804,289	-	7,804,289	-	7,804,289
<i>Miscellaneous Revenue</i>								
41030	Service & Extensions	121,513	-	121,513	1,610	123,123	-	123,123 A
41035	Repairs	-	-	-	-	-	-	-
41040	Miscellaneous Income	34,625	-	34,625	4,031	38,656	-	38,656 B
41070	Water Surcharge	21,170	-	21,170	-	21,170	-	21,170
42310	Interest on Bills	106,652	-	106,652	3,421	110,073	-	110,073 C
42320	Interest on Investments	28,830	-	28,830	-	28,830	-	28,830
	Interest on Restricted Accounts	-	-	-	-	-	-	-
		312,790	-	312,790	9,062	321,852	-	321,852
<b>TOTAL REVENUE</b>		<b>\$ 8,117,079</b>	<b>\$ -</b>	<b>\$ 8,117,079</b>	<b>\$ 9,062</b>	<b>\$ 8,126,141</b>	<b>\$ -</b>	<b>\$ 8,126,141</b>

A Schedule LKM-2-1  
B Schedule LKM-2-2  
C Schedule LKM-2-3

	Allocator	Rate Year	\$	942,595	\$	17,420	\$	257,101	\$	-	Pumping/ Storage	Meter/ Service	Billing Collection	Direct Fire	General/ Administration
<i>Personnel Expense</i>															
51110	Permanent Services	L				17,420		257,101		-		176,857	\$	130,743	243,631
	UPGRADE	L		-	-	-	-	-	-	-	-	-	-	-	-
51122	Temporary Labor	K		20,173	-	-	-	10,087	-	-	-	5,043	-	5,043	-
51141	Overtime Pay	L		75,107	1,388	1,388	-	20,486	-	-	-	14,092	10,418	9,310	19,413
51144	Out of Class	L		367	7	7	-	100	-	-	-	69	51	46	95
51145	Longevity Pay	L		36,743	679	679	-	10,022	-	-	-	6,894	5,096	4,555	9,497
51146	Medical Buy Back	L		9,000	166	166	-	2,455	-	-	-	1,689	1,248	1,116	2,326
51147	Sick Leave Reimbursement	L		1,920	35	35	-	524	-	-	-	360	266	238	496
51148	Comp Time Reimbursement	L		4,631	86	86	-	1,263	-	-	-	869	642	574	1,197
51149	Shift Differential	L		1,080	20	20	-	294	-	-	-	203	150	134	279
51153	Non-sick/Injury Bonus	L		10,315	191	191	-	2,814	-	-	-	1,935	1,431	1,279	2,666
51155	Bonus for Course	L		535	10	10	-	146	-	-	-	100	74	66	138
<i>Total Personnel Expenses</i>				1,102,465	20,001	20,001	-	305,291	-	-	-	208,111	150,119	139,205	279,738
<i>Maintenance &amp; Servicing Expenses</i>															
52211	Postage	B		16,135	-	-	-	-	-	-	-	-	16,135	-	-
52212	Telephone	G		30,734	-	-	-	-	-	-	-	-	-	-	30,734
52213	Dues & Subscriptions	G		2,726	-	-	-	-	-	-	-	-	-	-	2,726
52214	Advertising	G		3,631	-	-	-	-	-	-	-	-	-	-	3,631
52216	Travel Out of City	G		184	-	-	-	-	-	-	-	-	-	-	184
52219	Educational Training	G		4,292	-	-	-	-	-	-	-	-	-	-	4,292
52221	Printing & Reproducing	G		20,937	-	-	-	-	-	-	-	-	-	-	20,937
52231	General Maint. & Upkeep	E		-	-	-	-	-	-	-	-	-	-	-	-
52234	Vehicle & Outside Equip. Upke	G		34,489	-	-	-	-	-	-	-	-	-	-	34,489
52236	Maintenance - Office Equipment	G		116	-	-	-	-	-	-	-	-	-	-	116
52238	Maintenance - Roads & Walks	K		42,982	-	-	-	21,491	-	-	-	10,746	-	10,746	-
52239	Computer Software	G		4,653	-	-	-	-	-	-	-	-	-	-	4,653
52244	Land Rental Charges	S		2,862	2,862	2,862	-	-	-	-	-	-	-	-	-
52249	Other Rentals	S		17,926	17,926	17,926	-	-	-	-	-	-	-	-	-
52251	Heating	HE		7,061	3,531	3,531	-	-	-	-	-	-	-	-	3,531
52252	Light & Power	F		335,269	327,893	327,893	-	-	-	7,376	-	-	-	-	-
52255	Property & Fire Taxes	S		174,851	174,851	174,851	-	-	-	-	-	-	-	-	-
52256	Sewer Assessment	S		0	0	0	-	-	-	-	-	-	-	-	-
52258	State Pollution Monitoring Prog	S		21,477	21,477	21,477	-	-	-	-	-	-	-	-	-
52260	Regulatory Assessments	G		65,250	-	-	-	-	-	-	-	-	-	-	65,250
52261	Conservation Services	S		-	-	-	-	-	-	-	-	-	-	-	-
52266	Police Details	D		1,263	-	-	-	1,263	-	-	-	-	-	-	-
52281	Other Independent Service	G		51,656	-	-	-	-	-	-	-	-	-	-	51,656
52282	Audit Service	G		3,750	-	-	-	-	-	-	-	-	-	-	3,750
52283	Legal Service	G		6,148	-	-	-	-	-	-	-	-	-	-	6,148
52289	Medical Examinations	L		-	-	-	-	-	-	-	-	-	-	-	-
52290	Engineering Service	R		823	558	558	-	212	-	41	-	9	-	2	-

# Allocation of Net Revenue Requirement to Functional Categories

Joint Settlement Schedule-2.0  
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## Woonsocket Water Division

Allocator	Rate Year	Supply/ Treatment	Trans & Distribution	Pumping/ Storage	Meter/ Service	Billing Collection	Direct Fire	General/ Administration
<i>Total Maintenance &amp; Servicing Expenses</i>	849,217	549,099	22,966	7,417	10,755	16,135	10,748	232,097
<i>Operating Supplies &amp; Expenses</i>								
53311 Office Supplies	G	2,699	-	-	-	-	-	2,699
53321 Gas & Diesel	G	22,611	-	-	-	-	-	22,611
53322 Tires & Batteries	G	2,506	-	-	-	-	-	2,506
53336 Chemicals - Water Supply	S	-	-	-	-	-	-	-
Plant Operating Contract existin	S	1,941,000	-	-	-	-	-	-
Plant Operating Contract (Chenr	S	(145,717)	-	-	-	-	-	-
53344 Tools & Implements	G	2,484	-	-	-	-	-	2,484
53346 Cleaning & Housekeeping Supp	G	1,563	-	-	-	-	-	1,563
53349 Other Supplies	G	19,631	-	-	-	-	-	19,631
53351 Lab Supplies	S	(0)	-	-	-	-	-	-
53363 Clothing & Footware	L	3,041	56	829	571	422	377	786
53366 Drug & Medical Supplies	L	402	7	110	75	56	50	104
53369 Clothing Allowance	L	2,046	38	558	384	284	254	529
<i>Total Operating Supplies &amp; Expenses</i>		1,852,265	1,795,384	1,497	1,030	761	680	52,912
<i>General Expenses</i>								
54413 Fiscal Certification	R	7,750	5,258	1,997	85	-	20	-
54415 Depreciation	R	-	-	-	-	-	-	-
54433 Pensions	L	105,474	1,949	28,769	19,790	14,630	13,075	27,262
54434 FICA Employer Cost	L	84,339	1,559	23,004	15,824	11,698	10,455	21,799
54446 City Service Charges	I	322,769	6,133	18,075	2,905	38,410	646	255,956
54451 Insurance - Vehicles & Equipme	G	75,501	-	-	-	-	-	75,501
54452 Insurance - Workmen's Comp	L	81,716	1,510	22,289	15,332	11,334	10,130	21,121
54453 Insurance - Liability	G	121,821	-	-	-	-	-	121,821
54456 Insurance - Group Life	L	14,336	265	3,910	2,690	1,988	1,777	3,705
54471 Health Insurance	L	441,711	8,163	120,480	82,877	61,268	54,755	114,168
54472 Dental Insurance	L	19,363	358	5,281	3,633	2,686	2,400	5,005
54999 Misc Exp Audit Adj	L	-	-	-	-	-	-	-
<i>Total General Expenses</i>		1,274,780	25,195	223,805	143,136	142,014	93,257	646,338
<i>Restricted Account Expenses</i>								
53336 Chemicals - Water Supply	S	-	-	-	-	-	-	-
54412 Interest on Notes		-	-	-	-	-	-	-
54421 Transfer Out		-	-	-	-	-	-	-
54463 Infrastructure Replacement	R	1,335,000	905,775	343,918	14,683	-	3,531	-
54464 Rate Case Expense	G	30,000	-	-	-	-	-	30,000
54467 Debt Service (Non-IFR)	R	1,965,000	1,333,219	506,217	21,613	-	5,197	-
54467 Debt Service (IFR)	R	-	-	-	-	-	-	-
54473 Renewal & Replace Fund	R	120,000	81,418	30,914	1,320	-	317	-
<i>Total Other Miscellaneous Expenses</i>		3,450,000	2,320,412	881,049	37,616	-	9,045	30,000

# Allocation of Net Revenue Requirement to Functional Categories

Joint Settlement Schedule-2.0  
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## Woonsocket Water Division

Allocator	Rate Year	Supply/ Treatment	Trans & Distribution	Pumping/ Storage	Meter/ Service	Billing Collection	Direct Fire	General/ Administration
<i>TOTAL EXPENSES</i>	8,528,727	4,710,091	1,434,608	180,331	400,648	309,030	252,935	1,241,085
54417 Operating Rsrve	80,280	44,336	13,504	1,697	3,771	2,909	2,381	11,682
<i>Less:</i>								
Service & Extensions	(123,123)	-	(61,561)	-	(61,561)	-	-	-
Misc Income	(38,656)	(21,348)	(6,502)	(817)	(1,816)	(1,401)	(1,146)	(5,625)
Interest on Bills	(110,073)	(60,789)	(18,515)	(2,327)	(5,171)	(3,988)	(3,264)	(16,018)
Interest on Investments	(28,830)	(19,561)	(7,427)	(1,449)	(317)	-	(76)	-
Water Surcharge	(21,170)	(11,691)	(3,561)	(448)	(994)	(767)	(628)	(3,081)
Repairs	-	-	-	-	-	-	-	-
<i>TOTAL NET REVENUE REQUIREMENT</i>	8,287,155	4,641,037	1,350,545	176,987	334,559	305,783	250,201	1,228,044
<i>PERCENTAGE</i>		56.0%	16.3%	2.1%	4.0%	3.7%	3.0%	14.8%

# Explanation of Symbols Used to Allocate to Functions

## Woonsocket Water Division

Explanation	Allocator	Supply/ Treatment	Trans & Distribution	Pumping/ Storage	Meter/ Service	Billing Collection	Direct Fire	General/ Administration	Total
50% Services & Meters, 50% Distribution	A	0.00%	50.00%	0.00%	50.00%	0.00%	0.00%	0.00%	100.00%
100% Billing & Collection	B	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%
Meter Readers involved in billing (75%) and repairs (25%)	C	0.00%	0.00%	0.00%	25.00%	75.00%	0.00%	0.00%	100.00%
100% Transmission & Distribution	D	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
90% applicable to supply & treatment 10% applicable to pumping	E	90.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Expenses associated with electric light & power costs based details from Docket 2099	F	97.80%	0.00%	2.20%	0.00%	0.00%	0.00%	0.00%	100.00%
100% Direct Fire	FP	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
100% General & Administrative	G	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
City Service Charges from detail in docket 2099	I	1.90%	5.60%	0.20%	0.90%	11.90%	0.20%	79.30%	100.00%
IFR Expenses - Are allocated based on Allocator R since IFR subsequent to the last filing can not be recovered by fixed rates	IFR								
Applied to Operating Revenue in proportion to all other expenses ---SEE SCHEDULE DGB-COS-1B	J	55.23%	16.82%	2.11%	4.70%	3.62%	2.97%	14.55%	100.00%
Applied to Maint. Of Roads & Walks - per Docket No. 2099 and related costs and labor	K	0.00%	50.00%	0.00%	25.00%	0.00%	25.00%	0.00%	100.00%
Applicable to Labor Items based on breakdown of labor costs ---SEE SCHEDULE DGB-COS-1C	L	1.85%	27.28%	0.00%	18.76%	13.87%	12.40%	25.85%	100.00%
100% Meters & Services	M	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
50% Trans./Dist and 50% Direct Fire	N	0.00%	50.00%	0.00%	0.00%	0.00%	50.00%	0.00%	100.00%
100% Pumping & Storage	P	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
50% Supply/Treatment and 50% General & Admin.	HE	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	50.00%	100.00%
75% Meters & Services and 25% Direct Fire	Q	0.00%	0.00%	0.00%	75.00%	0.00%	25.00%	0.00%	100.00%
Debt and R & R items ---SEE SCHEDULE DGB-COS-1D	R	67.85%	25.76%	5.03%	1.10%	0.00%	0.26%	0.00%	100.00%
100% Supply and/or treatment related costs plus	S	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Applicable to Plant Equip. Operator & Plant Master Maint Mech. allocated 30% to pumping, 70% supply/treatment	T	70.00%	0.00%	30.00%	0.00%	0.00%	0.00%	0.00%	100.00%
50% Billing and 50% General & Administrative	U	0.00%	0.00%	0.00%	0.00%	50.00%	0.00%	50.00%	100.00%
Water Supply Inspector - 50% Trans./Dist and 50% Direct Fire	W	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%

*TOTAL EXPENSES - Obtained from schedule DGB-COS-1 page 2 of 3*

Supply/ Treatment	\$ 4,710,091	55.23%
Transmission & Distribution	1,434,608	16.82%
Pumping/ Storage	180,331	2.11%
Meter/ Service	400,648	4.70%
Billing Collection	309,030	3.62%
Direct Fire	252,935	2.97%
General/ Administration	1,241,085	14.55%
Total	<u>\$ 8,528,727</u>	<u>100.00%</u>

# Allocation of Labor Costs to Functional Categories

Joint Settlement Schedule-2.3  
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## Woonsocket Water Division

Allocator	Rate Year	Supply/ Treatment	Trans & Distribution	Pumping/ Storage	Meter/ Service	Billing Collection	Direct Fire	General/ Administration
	\$	\$	\$	\$	\$	\$	\$	\$
PUBLIC WORKS DIRECTOR	G	23,542	-	-	-	-	-	23,542
PUB WORKS ADMIN CLERK	B	8,316	-	-	-	8,316	-	-
WATER DIV. & OUTSIDE CREW SUP	G	81,097	-	-	-	-	-	81,097
WATER SUPPLY INSPECTOR	W	34,839	17,420	-	-	-	-	-
CITY ENGINEER	G	28,625	-	-	-	-	-	28,625
WATER DIV ENGINEER	K	47,036	-	-	11,759	-	11,759	-
WATER DIV ENGINEER AIDE	A	45,009	-	-	22,505	-	-	-
WATER T/D SUP	K	60,501	-	-	15,125	-	15,125	-
SR WATER FOREPERSON	K	46,671	-	-	11,668	-	11,668	-
WATER FOREPERSON	K	39,671	-	-	9,918	-	9,918	-
WATER DIV EQUIP OPERATOR	K	39,335	-	-	9,834	-	9,834	-
HEAVY EQUIPMENT OPERATORS	K	71,945	-	-	17,986	-	17,986	-
UTILITY PERSON	K	129,194	-	-	32,299	-	32,299	-
METER FOREPERSON	Q	33,026	-	-	24,770	-	8,257	-
METER READERS	C	83,977	-	-	20,994	62,983	-	-
MANAGERIAL ACCOUNTANT	G	51,644	-	-	-	-	-	51,644
PRINCIPAL CLERK TYPIST	G	30,727	-	-	-	-	-	30,727
SR WATER DIV ACCT CLERK	B	29,881	-	-	-	29,881	-	-
WATER ACCOUNTS CLERK	B	29,563	-	-	-	29,563	-	-
WATER WORKS CLERK	G	27,996	-	-	-	-	-	27,996
CHEMIST/BACTERIOLOGIST	S	-	-	-	-	-	-	-
PLANT MASTER MAINT MECHANIC	S	-	-	-	-	-	-	-
WATER TREAT PLANT OPERATOR	S	-	-	-	-	-	-	-
TOTAL SALARIES		942,595	17,420	-	176,857	130,743	116,845	243,631
	L		1.85%	0.00%	18.76%	13.87%	12.40%	25.85%



# Allocation of Assets to Functional Categories

## Woonsocket Water Division

Allocator	Rate Year	Supply/ Treatment	Trans & Distribution	Pumping/ Storage	Meter/ Service	Billing Collection	Direct Fire	General/ Administration
Intangible Plant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Source of Supply	698,912	698,912	-	-	-	-	-	-
Pumping Plant	585,511	-	-	585,511	-	-	-	-
Water Treatment Plant	74,005,379	74,005,379	-	-	-	-	-	-
Transmission & Distribution Plant	-	-	-	-	-	-	-	-
Transmission/Supply Mains	1,646,493	1,646,493	-	-	-	-	-	-
Distribution Mains	28,541,843	-	28,541,843	-	-	-	-	-
Storage	4,965,777	-	-	4,965,777	-	-	-	-
Meters	1,234,699	-	-	-	1,234,699	-	-	-
Hydrants	292,793	-	-	-	-	-	292,793	-
Subtotal T&D	36,681,604	1,646,493	28,541,843	4,965,777	1,234,699	-	292,793	-
General Plant	902,432	612,285	232,481	45,353	9,926	-	2,387	-
TOTAL	112,873,839	76,963,069	28,774,324	5,596,641	1,244,625	-	295,180	-
		68.19%	25.49%	4.96%	1.10%	0.00%	0.26%	0.00%

FY 2017 per Annual Report filed with RIPUC	June 2017 thru December 2017 Additions	Interim Year Additions	Rate Year Additions	Rate Year Balance
\$ -	\$ -	\$ -	\$ -	\$ -
698,912				698,912
585,511				585,511
17,839,487	1,615,467	35,245,425	19,305,000	74,005,379
1,646,493				1,646,493
26,270,937	770,905		1,500,000	28,541,843
4,965,777				4,965,777
1,234,699				1,234,699
292,793				292,793
34,410,699	770,905	-	1,500,000	36,681,604
902,432				902,432
54,437,041	2,386,373	35,245,425	20,805,000	112,873,839
Total				

	Allocator	Rate Year	Wholesale/ Base	Retail Only	Fire Protection	Meter/ Service	Billing
Supply/ Treatment	WB	\$ 4,641,037	\$ 4,594,627	\$ -	\$ 46,410	\$ -	\$ -
Transmission & Distribution	TD	1,350,545	631,288	460,572	258,686	-	-
Pumping/ Storage	PS	176,987	176,759	147	81	-	-
Meter/ Service	MS	334,559	-	-	-	334,559	-
Billing Collection	BC	305,783	-	-	-	-	305,783
Direct Fire	FP	250,201	-	-	250,201	-	-
<i>Sub-total</i>		7,059,112	5,402,674	460,719	555,377	334,559	305,783
General/ Administration	GA	1,228,044	939,880	80,149	96,617	58,202	53,196
<i>Total</i>		8,287,156	6,342,554	540,868	651,994	392,761	358,979

Woonsocket Water Division

Explanation	Allocator	Wholesale/ Base	Retail Only	Fire Protection	Meter/ Service	Billing	Total
99% To Wholesale/Base element and 1% to Fire Protection	WB	99.00%	0.00%	1.00%	0.00%	0.00%	100.00%
Allocation based on service mains- - <b>See Joint Settlement Schedule-3.2</b>	TD	46.74%	34.10%	19.15%	0.00%	0.00%	100.00%
Allocation based on Pumping Stations- - <b>See Joint Settlement Schedule-3.3</b>	PS	99.87%	0.08%	0.05%	0.00%	0.00%	100.00%
100% Metering and Customer service Pipes	MS	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
100% Billing and collection	BC	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
100% Direct Fire	FP	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%
Applied to Operating Revenue in proportion to all other expenses - - - <b>See Joint Settlement Schedule-3.4</b>	GA	76.53%	6.53%	7.87%	4.74%	4.33%	100.00%

Inch-Feet of Pipe	In-Ft	%	Allocator	Wholesale/ Base	Retail Only	Fire Protection	Meter/ Service	Billing
Transmission	3,186,696	47.22%	WB	46.74%	0.00%	0.47%	0.00%	0.00%
Distribution	3,562,586	52.78%	*	0.00%	34.10%	18.68%	0.00%	0.00%
TOTAL	6,749,282.3	100.00%		46.74%	34.10%	19.15%	0.00%	0.00%
			TD	46.74%	34.10%	19.15%	0.00%	0.00%

\* Diamond Hill and Highland provides service to Retail only.

	GPM	Percent
Max Day (Retail)	6389	64.61%
Fire Demand	3500	35.39%
Max Day Plus Fire	9889	100.00%

\*\* Non-Wholesale costs assigned all to retail in order to recover IFR costs

Inch-Feet of Pipe

Distribution			Transmission		
Size (Inches)	Feet	In-Feet	Size (Inches)	Feet	In-Feet
1	1,086	1,086	12	119,541	1,434,492
1.25	239	299	14	647	9,058
1.5	568	852	16	12,003	192,048
2	3,926	7,852	18	18,526	333,468
2.5	533	1,333	20	17,581	351,620
3	93	279	24	14,460	347,040
4	11,320	45,280	30	17,299	518,970
6	132,667	796,002			
8	323,803	2,590,424			
10	11,918	119,180			
		3,562,586			3,186,696

Pump Station	MG	%	Allocator	Wholesale/ Base	Retail Only	Fire Protection	Meter/ Service	Billing
Rhodes Ave	29.5	0.04%	*	0.04%	0.00%	0.00%	0.00%	0.00%
Mt. St. Charles	75,200.0	99.83%	*	99.83%	0.00%	0.00%	0.00%	0.00%
Diamond Hill	81.2	0.11%	**	0.00%	0.07%	0.04%	0.00%	0.00%
Highland Indust. Park	15.7	0.02%	**	0.00%	0.01%	0.01%	0.00%	0.00%
TOTAL	75,326.4	100.00%		99.87%	0.08%	0.05%	0.00%	0.00%
			PS	99.87%	0.08%	0.05%	0.00%	0.00%

\* Rhodes Ave. and Mount St. Charles provides service to wholesale/base. 100.00% 0.00% 0.00% 0.00% 0.00%

\*\* Diamond Hill and Highland provides service to Retail only. 0.00% 64.61% 35.39% 0.00% 0.00%

	GPM	Percent
Max Day (Retail)	6389	64.61%
Fire Demand	3500	35.39%
Max Day Plus Fire	9889	100.00%

*TOTAL NON-GENERAL & ADMIN COSTS - Obtained from schedule DGB-COS-2*

Wholesale/ Base	\$	5,402,674	76.53%
Retail		460,719	6.53%
Fire Protection		555,377	7.87%
Meter/ Service		334,559	4.74%
Billing		<u>305,783</u>	4.33%
Total	\$	<u><u>7,059,112</u></u>	<u><u>100.00%</u></u>

Units of Service  
Woonsocket Water Division

Joint Settlement Schedule-4.0

Page 1 of 2

**Water Use Data**

	Million Gallons	100 Cu Ft
Total Production (mg)	1,269.700	1,697,460
Wholesale Sales (mg)	92.325	123,429
Retal Sales		
Test Year	1,089.856	1,457,027
Adjustments	-	-
Rate Year	<u>1,089.856</u>	<u>1,457,027</u>

**Number of Bills**

	Total
Retal Sales	
Quarterly Bills	37,304
Semiannual Bills	-
Private Fire	700
Public Fire	9
Total Billing	<u>38,013</u>

**Fire Service Data**

**Public Fire Hydrants**

Size	Total Accounts
4	29
6	1,541
	<u>1,570</u>

**Private Sprinklers**

Size	Total Accounts	Equivalency Ratio	* Equivalency
2	14	4.58	64
3	7	6.30	44
4	64	9.58	613
6	102	16.88	1,722
8	32	29.56	946
10	5	42.40	212
	<u>224</u>		<u>3,601</u>

\* Equivalentents based on meter equivalentents

Units of Service  
Woonsocket Water Division

Joint Settlement Schedule-4.0

Page 2 of 2

Meters By Size

Meter Size	Total Accounts	Equivalency Ratio	Meter Equivalency
5/8	8,480	1.00	8,480
3/4	245	1.42	348
1	384	1.76	675
1 1/2	61	3.26	199
2	130	4.58	595
3	6	6.30	38
4	9	9.58	86
6	6	16.90	101
8	5	29.56	148
10	-	42.40	-
	<u>9,326</u>		<u>10,670</u>

Meter Size	Woonsocket Accounts	Equivalency Ratio	Meter Equivalency
5/8	7,892	1.00	7,892
3/4	218	1.42	310
1	360	1.76	633
1 1/2	53	3.26	173
2	118	4.58	540
3	5	6.30	32
4	7	9.58	67
6	5	16.90	85
8	-	29.56	-
10	-	42.40	-
	<u>8,658</u>		<u>9,730</u>

Meter Size	Outside Woonsocket Accounts	Equivalency Ratio	Meter Equivalency
5/8	588	1.00	588
3/4	27	1.42	38
1	24	1.76	42
1 1/2	8	3.26	26
2	12	4.58	55
3	1	6.30	6
4	2	9.58	19
6	1	16.90	17
8	5	29.56	148
10	-	42.40	-
	<u>668</u>		<u>940</u>



Determination of Water Rates  
Woonsocket Water Division

Joint Settlement Schedule-5.0

RY 2019

**Wholesale Water Rate**

Retail Sales	1,090
Wholesale Sales	92
Total Sales	<u>1,182</u>
Plus Unbilled&unacctd for	88
Total Production *	<u>1,270</u>
Wholesale Sales	92
<b>Wholesale Percentage</b>	<b>7.27%</b>

\* reduced by 6.89% for estimated loss

Wholesale/ Base Costs	\$ 6,342,554
Wholesale Percentage	x 7.27%
Net Required Wholesale	<u><u>461,191</u></u>

Net Required Wholesale	\$ 461,191
Wholesale Sales	92
Rate per 1000 gallons	<u><u>\$ 5.00</u></u>

\$ 4,995.32 Rate per 1,000,000 gallons

**Retail Water Rate**

Wholesale/ Base Costs	\$ 6,342,554
Retail Costs	540,868
Subtotal	<u>6,883,422</u>
Less:	
Net Required Wholesale	<u>461,191</u>
Net Required Retail	<u><u>\$ 6,422,231</u></u>

Net Required Retail	\$ 6,422,231
Retail Sales	1,090
Rate per 1000 gallons	<u><u>\$ 5.89</u></u>

1,457,027  
\$ 4.41 Rate per 100 Cubic Feet

**Determination of Fire Protection Charges** Joint Settlement Schedule-6.0  
**Woonsocket Water Division**

**RY 2019**

Fire Protection Costs      \$    651,994

**Public Fire Hydrants**

Size	Total Accounts	Demand Factor	Number of Equivalents	Percentage of Demand	Allocated Rev. Require.
4	29	38.32	1,111		
6	1,541	111.31	171,529		
	1,570		172,640	87.9%	\$ 573,169

**Private Sprinklers**

Size	Total Accounts	Demand Factor	Number of Equivalents	Percentage of Demand	Allocated Rev. Require.
2	14	6.19	87		
3	7	17.98	126		
4	64	38.32	2,452		
6	102	111.31	11,354		
8	32	237.21	7,591		
10	5	426.58	2,133		
	224		23,742	12.1%	\$ 78,825

Grand Total	1,794		196,382	100%	\$ 651,994
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**Public Fire Charges**

Allocated Costs	\$ 573,169
No. of Equivalents	172,640
Rate per Equivalent	\$ 3.32

Size	Rate per Equivalent	Demand Factor	Charge per Hydrant
4	\$ 3.32	38.32	\$ 127.22
6	\$ 3.32	111.31	\$ 369.55

Plus: \$ 9.44 Per Bill (See Schedule DGB-8)

**Private Fire Charges**

Allocated Costs	\$ 78,825
No. of Equivalents	23,742
Rate per Equivalent	\$ 3.32

Size	Rate per Equivalent	Demand Factor	Charge per Service	Billing Charge	Service Charge	Total Charge
2	\$ 3.32	6.19	\$ 20.55	\$ 9.44	\$ 12.59	\$ 42.59
3	\$ 3.32	17.98	59.69	9.44	17.34	86.48
4	\$ 3.32	38.32	127.22	9.44	26.36	163.02
6	\$ 3.32	111.31	369.55	9.44	46.51	425.51
8	\$ 3.32	237.21	787.54	9.44	81.36	878.34
10	\$ 3.32	426.58	1,416.26	9.44	116.70	1,542.40

Determination of Customer Service Charges Joint Settlement Schedule-7.0

Woonsocket Water Division

RY 2019

***Billing Charges***

Billing Charges	\$ 358,979	
No. of Bills	38,013	See Schedule DGB-5
Rate per Bill	<u>\$ 9.44</u>	

***Meter/Service Charges***

Meter/Service Charges \$ 392,761

Meter Allocated (90%) \$ 353,485  
 No. of EQ. Meters 10,670  
 Rate per Eq. Meter/Yr \$ 33.13

Service Allocated (10%) \$ 39,276  
 No. of EQ. Services 14,270  
 Rate per Eq. Service/Yr \$ 2.75

Size	Rate per Equivalent	Meter Charge	Service Charge	Total Meter/Service Charge
5/8	1.00	\$ 33.13	\$ 2.75	\$ 35.88
3/4	1.42	\$ 47.04	\$ 3.91	\$ 50.95
1	1.76	\$ 58.24	\$ 4.84	\$ 63.08
1 1/2	3.26	\$ 108.00	\$ 8.97	\$ 116.97
2	4.58	\$ 151.57	\$ 12.59	\$ 164.16
3	6.30	\$ 208.72	\$ 17.34	\$ 226.06
4	9.58	\$ 317.25	\$ 26.36	\$ 343.60
6	16.90	\$ 559.89	\$ 46.51	\$ 606.40
8	29.56	\$ 979.31	\$ 81.36	\$ 1,060.67
10	42.40	\$ 1,404.69	\$ 116.70	\$ 1,521.39

***Total Service Charges per Quarter***

Size	Meter/Service Charge	Billing Charge	Total Meter/Service Charge
5/8	\$ 8.97	\$ 9.44	\$ 18.41
3/4	\$ 12.74	\$ 9.44	\$ 22.18
1	\$ 15.77	\$ 9.44	\$ 25.21
1 1/2	\$ 29.24	\$ 9.44	\$ 38.69
2	\$ 41.04	\$ 9.44	\$ 50.48
3	\$ 56.51	\$ 9.44	\$ 65.96
4	\$ 85.90	\$ 9.44	\$ 95.34
6	\$ 151.60	\$ 9.44	\$ 161.04
8	\$ 265.17	\$ 9.44	\$ 274.61
10	\$ 380.35	\$ 9.44	\$ 389.79

RY 2019

***Projected revenue from Woonsocket Public Fire (a)***

	<u>4"</u>	<u>6"</u>	Total
Number of Hydrant billed to City of Woonsocket	20	1,488	1,508
Rate per Hydrant	\$ 127.22	\$ 369.55	
Projected revenue from Woonsocket Public Fire	<u>\$ 2,544</u>	<u>\$ 549,894</u>	<u>\$ 552,438</u>

***Public Fire Service Charges per Year***

Woonsocket Hydrant Revenue	\$ 552,438
No. of EQ. Meters Woonsocket Only	9,730
Rate per Eq. Meter/Yr	<u>\$ 56.78</u>

Size	Equivalency Ratio	Fire Protection Service Charge
5/8	1.00	\$ 56.78
3/4	1.42	\$ 80.62
1	1.76	\$ 99.81
1 1/2	3.26	\$ 185.09
2	4.58	\$ 259.75
3	6.30	\$ 357.69
4	9.58	\$ 543.69
6	16.90	\$ 959.52
8	29.56	\$ 1,678.30
10	42.40	\$ 2,407.31

***Total Customer Service Charges per Quarter***

Size	Fire Protection Service Charge
5/8	\$ 14.19
3/4	\$ 20.16
1	\$ 24.95
1 1/2	\$ 46.27
2	\$ 64.94
3	\$ 89.42
4	\$ 135.92
6	\$ 239.88
8	\$ 419.58
10	\$ 601.83

*(a) This revenue is for allocation purposes only per City Ordinance the City is exempt for paying Hydrant charges.*

Comparison of Existing and Proposed Rates & Charges - RY 2019

Woonsocket Water Division

**Joint Settlement Schedule-9.0**

			Current	Proposed	% Increase
<u><b>Public Fire Protection</b></u>					
<i>City of Woonsocket</i>					
	4	Inch	\$ -	\$ -	0.00%
	6	Inch	\$ -	\$ -	0.00%
<i>Other</i>					
	4	Inch	\$ 163.74	\$ 127.22	-22.30%
	6	Inch	\$ 475.62	\$ 369.55	-22.30%
		Per Bill	\$ 9.27	\$ 9.44	1.87%
<u><b>Private Fire Protection</b></u>					
	2	Inch	\$ 46.94	\$ 42.59	-9.28%
	3	Inch	\$ 101.54	\$ 86.48	-14.83%
	4	Inch	\$ 196.49	\$ 163.02	-17.03%
	6	Inch	\$ 526.32	\$ 425.51	-19.15%
	8	Inch	\$ 1,095.32	\$ 878.34	-19.81%
	10	Inch	\$ 1,935.97	\$ 1,542.40	-20.33%
<u><b>Minimum Service Charge</b></u>					
<i>Customer Service Charge All Ratepayers</i>					
	5/8	Inch	\$ 16.82	\$ 18.41	9.48%
	3/4	Inch	\$ 20.00	\$ 22.18	10.91%
	1	Inch	\$ 22.55	\$ 25.21	11.81%
	1 1/2	Inch	\$ 33.89	\$ 38.69	14.16%
	2	Inch	\$ 43.82	\$ 50.48	15.21%
	3	Inch	\$ 56.85	\$ 65.96	16.02%
	4	Inch	\$ 81.59	\$ 95.34	16.86%
	6	Inch	\$ 136.90	\$ 161.04	17.64%
	8	Inch	\$ 232.51	\$ 274.61	18.11%
	10	Inch	\$ 329.47	\$ 389.79	18.31%
<i>Additional Fire Protection Service Charge Only Ratepayers in Woonsocket</i>					
	5/8	Inch	\$ 17.01	\$ 14.19	-16.55%
	3/4	Inch	\$ 24.15	\$ 20.16	-16.54%
	1	Inch	\$ 29.90	\$ 24.95	-16.54%
	1 1/2	Inch	\$ 55.45	\$ 46.27	-16.55%
	2	Inch	\$ 77.82	\$ 64.94	-16.55%
	3	Inch	\$ 107.16	\$ 89.42	-16.55%
	4	Inch	\$ 162.89	\$ 135.92	-16.56%
	6	Inch	\$ 287.47	\$ 239.88	-16.55%
	8	Inch	\$ 502.81	\$ 419.58	-16.55%
	10	Inch	\$ 721.22	\$ 601.83	-16.55%
<u><b>Metered Rates</b></u>					
Wholesale	Rate per 1,000,000 gallons		\$ 4,544.45	\$ 4,995.32	9.92%
Retail	Rate per 100 Cubic Feet		\$ 4.06	\$ 4.41	8.67%

**Joint Settlement Schedule-10.0**

\$ 1,521  
0.02%

Impact of Proposed Rates - RY 2019  
Woonsocket Water Division

**Joint Settlement Schedule-11.0**

			Count or Usage	Current Revenue	Proposed Revenue	Dollar Increase	% Increase
<i><b>Ratepayers in the City of Woonsocket</b></i>							
5/8	Inch Meter	7,000 cu ft/yr	7,000	\$ 419.52	\$ 439.26	\$ 20	4.71%
5/8	Inch Meter	8,000 cu ft/yr	8,000	\$ 460.12	\$ 483.36	\$ 23	5.05%
5/8	Inch Meter	20,000 cu ft/yr	20000	\$ 947.32	\$ 1,012.81	\$ 65	6.91%
1	Inch Meter	50,000 cu ft/yr	50,000	\$ 2,239.80	\$ 2,406.61	\$ 167	7.45%
4	Inch Meter	500,000 cu ft/yr	500,000	\$ 21,277.92	\$ 22,984.52	\$ 1,707	8.02%
6	Inch Meter	1,000,000 cu ft/yr	1,000,000	\$ 42,297.48	\$ 45,722.59	\$ 3,425	8.10%
<i><b>Ratepayers in Other Communities serviced by Woonsocket</b></i>							
5/8	Inch Meter	7,000 cu ft/yr	7,000	\$ 351.48	\$ 382.49	\$ 31	8.82%
5/8	Inch Meter	8,000 cu ft/yr	8,000	\$ 392.08	\$ 426.59	\$ 35	8.80%
5/8	Inch Meter	20,000 cu ft/yr	20000	\$ 879.28	\$ 956.03	\$ 77	8.73%
1	Inch Meter	50,000 cu ft/yr	50,000	\$ 2,120.20	\$ 2,306.80	\$ 187	8.80%
4	Inch Meter	500,000 cu ft/yr	500,000	\$ 20,626.36	\$ 22,440.83	\$ 1,814	8.80%
6	Inch Meter	1,000,000 cu ft/yr	1,000,000	\$ 41,147.60	\$ 44,763.07	\$ 3,615	8.79%

**Proposed Step Increase - RY 2020**  
**Woonsocket Water Division**

**Joint Settlement Schedule-12.0**  
**Page 1 of 4**

YEAR 2 - RY 2020

Rate Year ( FYE 12/31/19) Revenue Requirement \$ 8,287,155 See Joint Settlement Schedule 2.0 page 3 of 3

Step Increases for 2020 - See Joint Settlement Schedule 12.1 page 1 of 2

New Debt Reserve Funding	170,000
Plant Op Contract (existing plant)	52,407
Remove one time Chemical Credit	145,717
Light & Power Increase	-
Property & Fire Taxes Increase	1,998
Inflation Labor @ 2%	22,049
Inflation Non-Labor @ 2.5%	34,797
Rate Case Expense to cover Step	16,000
Operating Resrve Increase 1.5%	3,854
	<u>446,822</u>

Revenue from rates	\$ 8,733,977
Misc Revenue	321,852
<b>Total Rate Year Revenue</b>	<b><u>\$ 9,055,829</u></b>

Rate Year ( FYE 12/31/20) Revenue Requirement \$ 8,733,977  
Proposed Step Increase (FYE 12/31/20) Revenue Requirement 5.39%

			Current Rate		Proposed 2019	Step Increase 2020
<b><u>Public Fire Protection</u></b>						
<b><u>Communities Outside Woonsocket</u></b>						
4	Inch	\$	163.74	# \$	127.22	\$ 134.08
6	Inch	\$	475.62	# \$	369.55	\$ 389.48
	Per Bill	\$	9.27	# \$	9.44	\$ 9.95
<b><u>Private Fire Protection</u></b>						
2	Inch	\$	46.94	# \$	42.59	\$ 44.88
3	Inch	\$	101.54	# \$	86.48	\$ 91.14
4	Inch	\$	196.49	# \$	163.02	\$ 171.81
6	Inch	\$	526.32	# \$	425.51	\$ 448.45
8	Inch	\$	1,095.32	# \$	878.34	\$ 925.70
10	Inch	\$	1,935.97	# \$	1,542.40	\$ 1,625.56
<b><u>Minimum Service Charge</u></b>						
<b><u>Customer Service Charge All Ratepayers</u></b>						
5/8	Inch	\$	16.82	# \$	18.41	\$ 19.41
3/4	Inch	\$	20.00	# \$	22.18	\$ 23.38
1	Inch	\$	22.55	# \$	25.21	\$ 26.57
1 1/2	Inch	\$	33.89	# \$	38.69	\$ 40.77
2	Inch	\$	43.82	# \$	50.48	\$ 53.21
3	Inch	\$	56.85	# \$	65.96	\$ 69.51
4	Inch	\$	81.59	# \$	95.34	\$ 100.49
6	Inch	\$	136.90	# \$	161.04	\$ 169.73
8	Inch	\$	232.51	# \$	274.61	\$ 289.42
10	Inch	\$	329.47	# \$	389.79	\$ 410.81
<b><u>Additional Fire Protection Service Charge Only Ratepayers in Woonsocket</u></b>						
5/8	Inch	\$	17.01	# \$	14.19	\$ 14.96
3/4	Inch	\$	24.15	# \$	20.16	\$ 21.24
1	Inch	\$	29.90	# \$	24.95	\$ 26.30
1 1/2	Inch	\$	55.45	# \$	46.27	\$ 48.77
2	Inch	\$	77.82	# \$	64.94	\$ 68.44
3	Inch	\$	107.16	# \$	89.42	\$ 94.24
4	Inch	\$	162.89	# \$	135.92	\$ 143.25
6	Inch	\$	287.47	# \$	239.88	\$ 252.81
8	Inch	\$	502.81	# \$	419.58	\$ 442.20
10	Inch	\$	721.22	# \$	601.83	\$ 634.28
<b><u>Metered Rates</u></b>						
Wholesale	Rate per 1,000,000 gallons	\$	4,544.45	# \$	4,995.32	\$ 5,264.65
Retail	Rate per 100 Cubic Feet	\$	4.06	# \$	4.41	\$ 4.65



**Proposed Step Increase - RY 2021**  
**Woonsocket Water Division**

**Joint Settlement Schedule-12.0**  
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YEAR 3 - RY 2021

Rate Year ( FYE 12/31/20) Revenue Requirement \$ 8,733,977 See Joint Settlement Schedule 12.0 page 1 of 4

Step Increases for 2020 - See Joint Settlement Schedule 12.1 page 1 of 2

New Debt Reserve Funding	335,000
Plant Op Contract (New plant)	(2,407)
Remove one time Chemical Credit	-
Light & Power Increase	-
Property & Fire Taxes Increase	2,020
Inflation Labor @ 2%	22,490
Inflation Non-Labor @ 2.5%	35,527
Operating Resrve Increase 1.5%	(720)
	<u>391,910</u>

Revenue from rates	9,125,887
Misc Revenue	321,852
<b>Total Rate Year Revenue</b>	<u><u>9,447,739</u></u>

Rate Year ( FYE 12/31/21) Revenue Requirement \$ 9,125,887  
Proposed Step Increase (FYE 12/31/21) Revenue Requirement 4.49%

		Current Rate	Proposed 2019	Step Increase 2020	Step Increase 2021
<b><u>Public Fire Protection</u></b>					
<i>Communities Outside Woonsocket</i>					
4	Inch	\$ 163.74	\$ 127.22	\$ 134.08	\$ 140.10
6	Inch	\$ 475.62	\$ 369.55	\$ 389.48	\$ 406.95
	Per Bill	\$ 9.27	\$ 9.44	\$ 9.95	\$ 10.40
<b><u>Private Fire Protection</u></b>					
2	Inch	\$ 46.94	\$ 42.59	\$ 44.88	\$ 46.90
3	Inch	\$ 101.54	\$ 86.48	\$ 91.14	\$ 95.23
4	Inch	\$ 196.49	\$ 163.02	\$ 171.81	\$ 179.52
6	Inch	\$ 526.32	\$ 425.51	\$ 448.45	\$ 468.57
8	Inch	\$ 1,095.32	\$ 878.34	\$ 925.70	\$ 967.24
10	Inch	\$ 1,935.97	\$ 1,542.40	\$ 1,625.56	\$ 1,698.50
<b><u>Minimum Service Charge</u></b>					
<i>Customer Service Charge All Ratepayers</i>					
5/8	Inch	\$ 16.82	\$ 18.41	\$ 19.41	\$ 20.28
3/4	Inch	\$ 20.00	\$ 22.18	\$ 23.38	\$ 24.43
1	Inch	\$ 22.55	\$ 25.21	\$ 26.57	\$ 27.77
1 1/2	Inch	\$ 33.89	\$ 38.69	\$ 40.77	\$ 42.60
2	Inch	\$ 43.82	\$ 50.48	\$ 53.21	\$ 55.59
3	Inch	\$ 56.85	\$ 65.96	\$ 69.51	\$ 72.63
4	Inch	\$ 81.59	\$ 95.34	\$ 100.49	\$ 104.99
6	Inch	\$ 136.90	\$ 161.04	\$ 169.73	\$ 177.34
8	Inch	\$ 232.51	\$ 274.61	\$ 289.42	\$ 302.40
10	Inch	\$ 329.47	\$ 389.79	\$ 410.81	\$ 429.24
<i>Additional Fire Protection Service Charge Only Ratepayers in Woonsocket</i>					
5/8	Inch	\$ 17.01	\$ 14.19	\$ 14.96	\$ 15.63
3/4	Inch	\$ 24.15	\$ 20.16	\$ 21.24	\$ 22.20
1	Inch	\$ 29.90	\$ 24.95	\$ 26.30	\$ 27.48
1 1/2	Inch	\$ 55.45	\$ 46.27	\$ 48.77	\$ 50.96
2	Inch	\$ 77.82	\$ 64.94	\$ 68.44	\$ 71.51
3	Inch	\$ 107.16	\$ 89.42	\$ 94.24	\$ 98.47
4	Inch	\$ 162.89	\$ 135.92	\$ 143.25	\$ 149.68
6	Inch	\$ 287.47	\$ 239.88	\$ 252.81	\$ 264.16
8	Inch	\$ 502.81	\$ 419.58	\$ 442.20	\$ 462.04
10	Inch	\$ 721.22	\$ 601.83	\$ 634.28	\$ 662.74
<b><u>Metered Rates</u></b>					
Wholesale	Rate per 1,000,000 gallons	\$ 4,544.45	\$ 4,995.32	\$ 5,264.65	\$ 5,500.89
Retail	Rate per 100 Cubic Feet	\$ 4.06	\$ 4.41	\$ 4.65	\$ 4.86

Joint Settlement Schedule-12.0  
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Rate Year ( FYE 12/31/21) Revenue Requirement

Step Increases for 2020 - See Joint Settlement Schedule 12.1 page 2 of 2

Revenue from rates	10,403,844
Misc Revenue	<u>321,852</u>
Total Rate Year Revenue	10,725,696

\$ 10,403,844

14.00%

Wholesale	Rate per 1,000,000 gallons	\$ 4,544.45	\$ 4,995.32	\$ 5,264.65	\$ 5,500.89	\$ 6,271.21
Retail	Rate per 100 Cubic Feet	\$ 4.06	\$ 4.41	\$ 4.65	\$ 4.86	\$ 5.54

**Proposed Step Increase - RY 2023**  
**Woonsocket Water Division**

**Joint Settlement Schedule-12.0**  
**Page 4 of 4**

YEAR 5 - RY 2023

Rate Year ( FYE 12/31/22) Revenue Requirement \$ 10,403,844 See Joint Settlement Schedule 12.0 page 3 of 4

Step Increases for 2020 - See Joint Settlement Schedule 12.1 page 2 of 2

New Debt Reserve Funding	1,200,000
Plant Op Contract (New plant)	51,896
Remove one time Chemical Credit	-
Light & Power Increase	-
Property & Fire Taxes Increase	-
Inflation Labor @ 2%	-
Inflation Non-Labor @ 2.5%	-
Operating Resrve Increase 1.5%	881
	<u>1,252,777</u>

Revenue from rates	11,656,621
Misc Revenue	321,852
<b>Total Rate Year Revenue</b>	<u><b>11,978,473</b></u>

Rate Year ( FYE 12/31/23) Revenue Requirement \$ 11,656,621  
Proposed Step Increase (FYE 12/31/23) Revenue Requirement 12.04%

		Current Rate	Proposed 2019	Step Increase 2020	Step Increase 2021	Step Increase 2022	Step Increase 2023
<b><u>Public Fire Protection</u></b>							
<b><u>Communities Outside Woonsocket</u></b>							
4	Inch	\$ 163.74	\$ 127.22	\$ 134.08	\$ 140.10	\$ 159.72	\$ 178.95
6	Inch	\$ 475.62	\$ 369.55	\$ 389.48	\$ 406.95	\$ 463.94	\$ 519.81
	Per Bill	\$ 9.27	\$ 9.44	\$ 9.95	\$ 10.40	\$ 11.86	\$ 13.28
<b><u>Private Fire Protection</u></b>							
2	Inch	\$ 46.94	\$ 42.59	\$ 44.88	\$ 46.90	\$ 53.46	\$ 59.90
3	Inch	\$ 101.54	\$ 86.48	\$ 91.14	\$ 95.23	\$ 108.56	\$ 121.64
4	Inch	\$ 196.49	\$ 163.02	\$ 171.81	\$ 179.52	\$ 204.66	\$ 229.31
6	Inch	\$ 526.32	\$ 425.51	\$ 448.45	\$ 468.57	\$ 534.19	\$ 598.52
8	Inch	\$ 1,095.32	\$ 878.34	\$ 925.70	\$ 967.24	\$ 1,102.69	\$ 1,235.47
10	Inch	\$ 1,935.97	\$ 1,542.40	\$ 1,625.56	\$ 1,698.50	\$ 1,936.35	\$ 2,169.52
<b><u>Minimum Service Charge</u></b>							
<b><u>Customer Service Charge All Ratepayers</u></b>							
5/8	Inch	\$ 16.82	\$ 18.41	\$ 19.41	\$ 20.28	\$ 23.12	\$ 25.90
3/4	Inch	\$ 20.00	\$ 22.18	\$ 23.38	\$ 24.43	\$ 27.85	\$ 31.20
1	Inch	\$ 22.55	\$ 25.21	\$ 26.57	\$ 27.77	\$ 31.65	\$ 35.47
1 1/2	Inch	\$ 33.89	\$ 38.69	\$ 40.77	\$ 42.60	\$ 48.57	\$ 54.42
2	Inch	\$ 43.82	\$ 50.48	\$ 53.21	\$ 55.59	\$ 63.38	\$ 71.01
3	Inch	\$ 56.85	\$ 65.96	\$ 69.51	\$ 72.63	\$ 82.80	\$ 92.78
4	Inch	\$ 81.59	\$ 95.34	\$ 100.49	\$ 104.99	\$ 119.70	\$ 134.11
6	Inch	\$ 136.90	\$ 161.04	\$ 169.73	\$ 177.34	\$ 202.18	\$ 226.52
8	Inch	\$ 232.51	\$ 274.61	\$ 289.42	\$ 302.40	\$ 344.75	\$ 386.26
10	Inch	\$ 329.47	\$ 389.79	\$ 410.81	\$ 429.24	\$ 489.35	\$ 548.28
<b><u>Additional Fire Protection Service Charge Only Ratepayers in Woonsocket</u></b>							
5/8	Inch	\$ 17.01	\$ 14.19	\$ 14.96	\$ 15.63	\$ 17.82	\$ 19.97
3/4	Inch	\$ 24.15	\$ 20.16	\$ 21.24	\$ 22.20	\$ 25.30	\$ 28.35
1	Inch	\$ 29.90	\$ 24.95	\$ 26.30	\$ 27.48	\$ 31.33	\$ 35.10
1 1/2	Inch	\$ 55.45	\$ 46.27	\$ 48.77	\$ 50.96	\$ 58.09	\$ 65.09
2	Inch	\$ 77.82	\$ 64.94	\$ 68.44	\$ 71.51	\$ 81.52	\$ 91.34
3	Inch	\$ 107.16	\$ 89.42	\$ 94.24	\$ 98.47	\$ 112.26	\$ 125.78
4	Inch	\$ 162.89	\$ 135.92	\$ 143.25	\$ 149.68	\$ 170.64	\$ 191.19
6	Inch	\$ 287.47	\$ 239.88	\$ 252.81	\$ 264.16	\$ 301.15	\$ 337.41
8	Inch	\$ 502.81	\$ 419.58	\$ 442.20	\$ 462.04	\$ 526.74	\$ 590.17
10	Inch	\$ 721.22	\$ 601.83	\$ 634.28	\$ 662.74	\$ 755.55	\$ 846.52
<b><u>Metered Rates</u></b>							
Wholesale	Rate per 1,000,000 gallons	\$ 4,544.45	\$ 4,995.32	\$ 5,264.65	\$ 5,500.89	\$ 6,271.21	\$ 7,026.36
Retail	Rate per 100 Cubic Feet	\$ 4.06	\$ 4.41	\$ 4.65	\$ 4.86	\$ 5.54	\$ 6.21

YEAR 2 - RY 2020

	WWD Adjusted Rate Year	Division Adjustments	Division Adjusted Rate Year	Settlement Adjustments	Settlement Adjusted Rate Year
<u>Step Increases for 2020</u>					
New Debt Reserve Funding	170,000	-	170,000	-	170,000
Plant Op Contract (existing plant)	50,854	1,553	52,407	(0)	52,407
Remove one time Chemical Credit	145,717	-	145,717	-	145,717
Rate Case Expense (Unrestricted)				16,000	16,000 A
Light & Power Increase	-	-	-	-	-
Property & Fire Taxes Increase	5,402	(3,404)	1,998	-	1,998
Inflation Labor @ 2%	22,049	-	22,049	-	22,049
Inflation Non-Labor @ 2.5%	47,132	(12,335)	34,797	-	34,797
Operating Reserve Increase 1.5%	4,067	(213)	3,854	-	3,854
	445,221	(14,399)	430,822	16,000	446,822

- A Per the settlement the parties agreed that the rate case expense for the 1st year would only include the amortization of the year 1 rate case expenses. The compliance filings of following years would be funded with an adjustment to the 2nd step year. The adjustment of 16,000 is an estimation at this time and this amount will be trued up during the compliance filing of the 2nd Year increase.

YEAR 3 - RY 2021

	WWD Adjusted Rate Year	Division Adjustments	Division Adjusted Rate Year	Settlement Adjustments	Settlement Adjusted Rate Year
<u>Step Increases for 2021</u>					
New Debt Reserve Funding	335,000	-	335,000	-	335,000
Plant Op Contract (New plant)	218,146	(326,286)	(108,140)	105,733	(2,407) B
Remove one time Chemical Credit	-	-	-	-	-
Light & Power Increase	-	-	-	-	-
Property & Fire Taxes Increase	5,564	(3,544)	2,020	-	2,020
Inflation Labor @ 2%	22,490	-	22,490	-	22,490
Inflation Non-Labor @ 2.5%	48,310	(12,783)	35,527	-	35,527
Operating Reserve Increase 1.5%	4,418	(5,138)	(720)	-	(720)
	633,928	(347,751)	286,177	105,733	391,910

- B Based upon a clarification of the response to Division 4-14. The figures on Division 4-14 represent the anticipated Renewal and Replacement (R&R) work performed by the DBO contractor. The actual budgeted expenditure of \$105,733 is part of the required funding for R&R per the DBO contract. Please See Joint Settlement Schedule 12.2 for the settlement funding of the DBO Contract

YEAR 4 - RY 2022

	WWD original Adjusted Rate Year	Division Adjustments	Division Adjusted Rate Year	WWD Rebuttal Adjusted Rate Year	WWD Rebuttal Adjusted Rate Year
<u>Step Increases for 2022</u>					
New Debt Reserve Funding	1,225,000	-	1,225,000	-	1,225,000
Plant Op Contract (New plant)	57,902	(5,008)	52,894	(730)	52,164 C
Remove one time Chemical Credit	-	-	-	-	-
Light & Power Increase	-	-	-	-	-
Property & Fire Taxes Increase	5,731	(5,731)	(0)	-	(0)
Inflation Labor @ 2%	22,940	(22,940)	0	-	0
Inflation Non-Labor @ 2.5%	49,518	(49,518)	(0)	-	(0)
Operating Reserve Increase 1.5%	2,041	(1,248)	793	-	793
	1,363,132	(84,445)	1,278,687	(730)	1,277,957

C Based upon a clarification of the response to Division 4-14. The figures on Division 4-14 represent the anticipated Renewal and Replacement (R&R) work preformed by the DBO contractor. Please See Joint Settlement Schedule 12.2 for the settlement funding of the DBO Contract

YEAR 5 - RY 2023

	WWD original Adjusted Rate Year	Division Adjustments	Division Adjusted Rate Year	WWD Rebuttal Adjusted Rate Year	WWD Rebuttal Adjusted Rate Year
<u>Step Increases for 2023</u>					
New Debt Reserve Funding	1,200,000	-	1,200,000	-	1,200,000
Plant Op Contract (New plant)	59,419	(779)	58,640	(6,744)	51,896 D
Remove one time Chemical Credit	-	-	-	-	-
Light & Power Increase	-	-	-	-	-
Property & Fire Taxes Increase	5,903	(5,903)	(0)	-	(0)
Inflation Labor @ 2%	23,399	(23,399)	(0)	-	(0)
Inflation Non-Labor @ 2.5%	50,756	(50,756)	(0)	-	(0)
Operating Reserve Increase 1.5%	2,092	(1,211)	881	-	881
	1,341,568	(82,048)	1,259,520	(6,744)	1,252,777

D Based upon a clarification of the response to Division 4-14. The figures on Division 4-14 represent the anticipated Renewal and Replacement (R&R) work preformed by the DBO contractor. Please See Joint Settlement Schedule 12.2 for the settlement funding of the DBO Contract

Settlement DBO Contract Expenditure  
WOONSOCKET WATER DIVISION

Joint Settlement Schedule-12.2

	CY 2019	CY 2020	CY 2021	CY 2022	CY 2023
<b>DBO Contract Fee</b>					
Per Schedule DGB-COS-11 thru 14					
Originally filed - value was totaled up	1,941,000	1,991,854	2,210,000	2,267,902	2,327,321
<b>Annual Increase</b>		\$ 50,854	\$ 218,146	\$ 57,902	\$ 59,419
<b>DBO Contract Fee per Division</b>					
Per Schedule LKM 3-7					
<b>Inflation rate</b>		2.70%	2.70%	2.62%	2.54%
Fixed O&M Contract-old plant	1,881,000	1,931,787			
-new plant	-	-	1,852,771	1,901,314	1,949,607
Fixed Corrective-old plant	60,000	61,620			
-new plant	-	-	32,496	33,347	34,194
Fixed renewal & replacement-old plant	-	-			
-new plant	-	-	-	3,500	13,000
<b>Total Annual Expenses</b>	1,941,000	1,993,407	1,885,267	1,938,161	1,996,801
<b>Annual Increase</b>		\$ 52,407	\$ (108,140)	\$ 52,894	\$ 58,640
<b>DBO Contract Fee per Settlement</b>					
<b>Inflation rate</b>		2.70%	2.70%	2.62%	2.54%
Fixed O&M Contract-old plant	1,881,000	1,931,787			
-new plant	-	-	1,852,771	1,901,314	1,949,607
Fixed Corrective-old plant	60,000	61,620			
-new plant	-	-	32,496	33,347	34,194
Fixed renewal & replacement-old plant	-	-			
-new plant	-	-	105,733	108,503	111,259
<b>Total Annual Expenses</b>	1,941,000	1,993,407	1,991,000	2,043,164	2,095,061
<b>Annual Increase</b>		\$ 52,407	\$ (2,407)	\$ 52,164	\$ 51,896