

Public Utility Commission

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March 5, 2015

Via Electronic Filing

OREGON PUBLIC UTILITY COMMISSION ATTENTION: FILING CENTER PO BOX 1088 SALEM OR 97308-1088

RE: <u>Docket No. UW 161</u> –In the Matter of WILLAMETTE WATER COMPANY, INC. Request for a General Rate Revision.

Enclosed for electronic filing in the above-captioned docket is the Public Utility Commission Staff's Direct Testimony in Support of The Stipulation.

/s/ Kay Barnes
Kay Barnes
Filing on Behalf of Public Utility Commission Staff (503) 378-5763
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c: UW 161 Service List (parties)

PUBLIC UTILITY COMMISSION OF OREGON

UW 161

STAFF TESTIMONY OF

GREG MILLER

In the Matter of WILLAMETTE WATER COMPANY, INC. Request for a General Rate Revision.

CASE: UW 161 WITNESS: GREG MILLER

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 100

Direct Testimony In Support of The Stipulation

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Stipulated Rate Impact

Witness Qualification Statement

Q. PLEASE STATE YOUR NAME, OCCUPATION, AND BUSINESS ADDRESS. A. My name is Greg Miller. I am a Water Utility Analyst in the Telecommunications and Water Division of the Utility Program for the Public Utility Commission of Oregon (Commission). My business address is 3930 Fairview Industrial Dr. SE, Salem, Oregon 97302. Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND WORK EXPERIENCE. A. Please see my Witness Qualification Statement attached as Exhibit Staff/102, Miller/1. Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY? A. The purpose of my testimony is to describe and support the stipulation agreed to by the Parties in Docket UW 161 (the Stipulation). Q. WHO ARE THE PARTIES TO THE STIPULATION? A. The Parties are Willamette Water Company, Inc. (Willamette or Company), appearing by and through its Secretary and Director of Operations, Jeff Demers; and Staff, appearing by and through its attorney Jason Jones; collectively referred to as the "Parties." Q. DID YOU PREPARE ANY EXHIBITS FOR THIS DOCKET? Yes. I prepared Exhibit Staff/101 and Exhibit Staff/102: Α. Revenue Requirement Staff/101, Miller/1 Staff Adjustment Summary Staff/101, Miller/2 Cost of Capital Staff/101, Miller/3 Plant and Depreciation Staff/101, Miller/4-6 Stipulated Rates Staff/101, Miller/7-11 Staff/101, Miller/12-18

Staff/102, Miller/1

Q. HOW IS YOUR TESTIMONY ORGANIZED?

A. My testimony is organized as follows:

Issue 1, Staff's Summary Recommendation	2
Issue 2, Willamette's Description and Regulatory History	
Issue 3, Willamette's Application for a General Rate Increase	
Issue 4, Staff's Analysis of Willamette's Application & Staff Adjustments.	7
Issue 5, Automatic Adjustment Clause for Purchased Water	. 10
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ISSUE 1, STAFF'S SUMMARY RECOMMENDATION

Q. BRIEFLY SUMMARIZE YOUR RECOMMENDATION.

A. I recommend that the Commission adopt the Stipulation agreed to by the Parties in Docket UW 161. The Parties stipulated to a revenue requirement of \$270,564. The stipulated revenue requirement results in a 15.7 percent increase, or \$36,683 above 2013 test year revenues, with a nine percent rate of return on a rate base of \$89,947. The table below shows test year revenue as filed in Willamette's application, the Company's proposed revenue, and the stipulated revenue.

<u>Table 1 – Revenue Requirement Details</u>

	Willamette Test Year As Filed	Willamette Proposed	Stipulated Amounts
Revenues	\$233,881	\$272,307	\$270,564

ISSUE 2, WILLAMETTE'S DESCRIPTION AND REGULATORY HISTORY

Q. PLEASE DESCRIBE WILLAMETTE.

A. Willamette is a small investor-owned water company located in Goshen,
Oregon, near Eugene. The Company currently provides water service to

approximately 50 commercial customers, nine industrial customers, nine private fire protection customers, one public fire protection customer, and about 97 residential customers. According to Willamette, the utility was legally organized in 1964, originally constructed in 1972, and began providing service in 1972. The utility was purchased by the current owners in 2006.

Q. PLEASE DESCRIBE WILLAMETTE'S REGULATORY HISTORY.

A. Willamette became rate regulated by customer petition and filed its first rate case, UW 81, in 2001. After the Company was purchased in August 2006, a subsequent rate case, docketed as UW 125, was filed by the new owners in 2007. The Commission's final order in UW 125, Order No. 08-256, issued May 15, 2008, approved an annual revenue requirement of \$209,047 resulting in a 17.7 percent overall increase.

Q. DOES THE COMPANY HAVE ANY AFFILIATED INTEREST AGREEMENTS?

A. Yes. On October 11, 2007, the Commission issued Order No. 07-436 in UI 272 approving an Affiliated Interest Agreement between Willamette Water Company and Frontier Resources LLC (Frontier). Greg Demers, President of Willamette, is a principal shareholder of both Willamette and Frontier. Frontier provides various services to Willamette including financial management; management, administration, operations; and facilities (office space with utilities included, equipment, transportation to conduct business, and cell phone usage). The costs of the agreement were reviewed and approved by the Commission on October 11, 2007 in Order No. 07-436. In its current rate case, UW 161, Willamette did not propose any increases or changes to the Affiliated Interest Agreement.

ISSUE 3, WILLAMETTE'S APPLICATION FOR A GENERAL RATE
INCREASE

Q. PLEASE DESCRIBE WILLAMETTE'S CURRENT APPLICATION FOR A GENERAL RATE INCREASE, DOCKET UW 161.

A. Willamette filed an application for a general rate increase on August 8, 2014, using a 2013 historical test-year period. The Company proposed an overall increase of 16.4 percent or a \$38,426 increase over test period revenues of \$233,881, resulting in a proposed annual revenue requirement of \$272,307. The Company proposed a total rate base of \$89,589 with a 10 percent rate of return.

Q. WHAT REASONS DID THE COMPANY GIVE FOR SEEKING A RATE INCREASE?

A. Willamette stated in its application that it is seeking the change in rates due to increased operating costs particularly for purchased water expense. The Company also stated that it would like to include new utility plant put into service since the last rate case.

Q. PLEASE DESCRIBE WILLAMETTE'S CURRENT AND PROPOSED RATES?

A. Under tariffs approved in UW 125, Willamette charges different base rates according to meter size. Willamette's variable rate is \$3.378 per 100 cubic feet (cf) for all customer classes. Table 2 shows the Company's current base rates by meter size, the current variable rate, and Willamette's proposed base and variable rates as stated in the application.

Table 2 – Current and Proposed Rates

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CUSTOMER CLASS	METER SIZE	CURRENT BASE RATES	CURRENT COMMODITY RATE Per 100 cf	PROPOSED BASE RATES	PROPOSED COMMODITY RATE Per 100 cf
RESIDENTAL	5/8-3/4	\$28.64	\$3.378	\$34.45	\$3.04
RESIDENTIAL	1"	\$54.25	\$3.378	\$86.13	\$3.04
RESIDENTIAL	1 ½"	\$82.48	\$3.378	\$131.95	\$3.04
RESIDENTIAL	DM1 ¹	28.64	\$3.378	\$34.45	\$3.04
COMMERCIAL	5/8-3/4	\$28.64	\$3.378	\$34.45	\$3.04
COMMERCIAL	1"	\$54.25	\$3.378	\$86.13	\$3.04
COMMERCIAL	1 ½"	\$82.48	\$3.378	\$131.95	\$3.04
COMMERCIAL	2"	\$144.34	\$3.378	\$230.83	\$3.04
COMMERCIAL	DM1	\$28.64	\$3.378	\$34.45	\$3.04
COMMERCIAL	DM2	\$57.28	\$3.378	\$68.90	\$3.04
INDUSTRIAL	5/8-3/4	\$28.64	\$3.378	\$34.45	\$3.04
INDUSTRIAL	1"	\$54.25	\$3.378	\$86.13	\$3.04
INDUSTRIAL	1 ½"	\$82.48	\$3.378	\$131.95	\$3.04
INDUSTRIAL	3"	\$312.00	\$3.378	\$516.79	\$3.04
INDUSTRIAL	6"	\$687.31	\$3.378	\$1099.73	\$3.04
FIRE PROTECTION – PRIVATE	4"	\$20.30	\$3.378	\$30.45	\$3.04
FIRE PROTECTION - PRIVATE	6"	\$43.56	\$3.378	\$60.90	\$3.04
FIRE PROTECTION - PUBLIC	N/A	N/A	\$3.378	N/A	\$3.04

Q. DID ANY CUSTOMERS VOICE CONCERNS REGARDING WILLAMETTE'S PROPOSED RATE INCREASE?

A. Yes. A Willamette residential customer with a 1-inch meter providing service to only two adults believed that his service should be reduced to a 5/8 x 3/4-inch

¹ The DM class designates two or more users served by a single meter.

meter. Staff reviewed the customer's annual consumption for 2013, which was less than the average residential $5/8 \times 3/4$ -inch customer. Willamette proposed that 1-inch metered customers average bills would increase by 21 percent; however, customers with $5/8 \times 3/4$ -inch meters would only increase by five percent.

It appears reasonable that this customer's water service needs can be met by a $5/8 \times 3/4$ -inch meter, thus reducing the customer's base rate. Willamette reached out to the customer and agreed to change out the one-inch meter to a $5/8 \times 3/4$ -inch meter at cost.

Q. WHAT PROCEDURAL ACTIONS HAVE TAKEN PLACE IN THIS DOCKET SINCE WILLAMETTE FILED ITS APPLICATION?

- A. Since Willamette filed its application on August 8, 2014, the following procedural actions have taken place:
 - The proposed rates were suspended by the Commission for nine months in Order No. 14-291 on August 18, 2014.
 - A Public Comment Meeting and Prehearing Conference were held on October 16, 2014, in Eugene, Oregon. No customers attended.
 - A Settlement Conference was held at the Commission office in Salem,
 Oregon, on December 18, 2014. No customers attended.
 - 4. No petitions to intervene were filed in this docket.

Q. WHAT WAS THE RESULT OF THE SETTLEMENT CONFERENCE?

A. The Parties reached a settlement of all issues in the case. The Stipulation is discussed in Issue 7, The Stipulation, of this testimony.

ISSUE 4, STAFF'S ANALYSIS OF WILLAMETTE'S APPLICATION AND STAFF ADJUSTMENTS

Q. WHAT IS YOUR ANALYSIS OF WILLAMETTE'S APPLICATION?

A. My analysis of Willamette's application indicates that Willamette should be granted a revenue requirement of \$270,564. This results in a 15.7 percent or \$36,683 increase over test year revenues, with a nine percent rate of return on a rate base of \$89,947.

Q. WHAT IS DRIVING THE RATE INCREASE IN THIS CASE?

A. Purchased water expense is the primary driver of the increase in Willamette's revenue requirement, which results in higher proposed rates.

Q. PLEASE DESCRIBE YOUR MAJOR ADJUSTMENTS TO WILLAMETTE'S PROPOSED EXPENSES.

A. My adjustments to Willamette's proposed expenses are reflected in Staff/101, Miller/2, Staff's Adjustment Summary. To determine annual expenses, I reviewed actual documentation, such as invoices, receipts, checks, and ledger entries. I removed non-utility items, normalized and amortized expenses, moved expenses to correct accounts, capitalized costs where necessary, and made other appropriate adjustments. Table 3 below shows Willamette's major test year expenses, Willamette's proposed annual expenses, Staff's adjustments to Willamette's proposed annual expenses, and Staff's proposed annual expenses.

Table 3 – Major Expense Adjustment Summary

Account	Willamette Test Year	Willamette Proposed	Staff Adjustments	Staff Proposed
Purchased Water	\$107,671	\$118,378	\$7,695	\$126,073
Contract Services - Legal	\$3,873	\$7,162	(\$777)	\$6,385
Contract Services - Labor	\$18,275	\$19,662	(\$978)	\$18,684
Amortization of Rate Case	\$5,174	\$5,174	(\$3,676)	\$1,498

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1. Purchased Water: The Company proposed an annual expense of \$118,378 for purchased water. I made an upward adjustment of \$7,695 to reflect Eugene Water and Electric Board's (EWEB) most recent price increase of 6.5 percent, effective February 1, 2015. This results in an annual Purchased Water Expense of \$126,073. Including EWEB's most recent price increase in Staff's proposed annual Purchased Water Expense means that it will not be reflected in the next Automatic Adjustment Clause (AAC), which is discussed later in my testimony.

- 2. Contract Services-Legal: The Company proposed an annual expense of \$7,162. Since Willamette's legal costs vary from year to year, Staff averaged all legal expenses relating to the Company's regulated water operations over a three-year period. Staff made a downward adjustment to Contract Services-Legal of (\$777). This resulted in an annual Contract Services-Legal Expense of \$6,385.
- Contract Services-Labor: The Company proposed an annual expense of \$19,662. Shortly after the rate case was filed, Willamette started contract negotiations with their current water operator. Prior to the settlement

conference in UW 161, Willamette entered into a new contract that lowers the overall labor costs. Staff supports the new annual labor contract cost of \$18,684. Therefore, Staff made a downward adjustment to Contract Services-Labor Expense of (\$978).

5. Amortization of Rate Case: The Company proposed an annual expense of \$5,174. Since only a single year of the previously-approved seven-year amortization period remains, Staff made a downward adjustment of \$3,676 to reflect the remaining one year of amortization spread over a period of three years. This results in an annual Amortization Expense of \$1,498.

Q. DID STAFF MAKE ANY ADJUSTMENTS TO WILLAMETTE'S UTILITY PLANT?

A. Yes. The Company proposed plant of \$159,523 and a Depreciation Expense of \$3,315. I added \$3,629 to plant by capitalizing costs related to hydrant parts and labor that were originally placed in Repairs to Water Plant Expense account in 2012. This resulted in an upward adjustment to plant of \$3,629 resulting in total plant of \$163,152. I also updated the depreciation schedule to its current level and calculated accumulated depreciation of \$94,453, resulting in a net plant of \$68,699. Willamette's plant and depreciation schedule is included as Staff/101, Miller/4-6.

Q. WHAT RATE OF RETURN DO YOU PROPOSE IN THIS DOCKET?

A. I propose a nine percent rate of return in UW 161. That rate of return is calculated based on Willamette's weighted cost of debt and equity as shown in Exhibit Staff/101, Miller/21.

ISSUE 5, AUTOMATIC ADJUSTMENT CLAUSE FOR PURCHASED WATER

Q. WHAT ROLE DOES EWEB PLAY IN DETERMINING PURCHASED WATER COSTS?

A. Willamette currently purchases all of its water supply from EWEB. The

Purchased Water Expense is affected each time EWEB increases its rates.

EWEB has increased water rates anywhere from 5 to 20 percent annually over
the previous nine years. According to Willamette's Water Service Agreement
with EWEB, rates and charges are to be amended annually in accordance with
EWEB's Cost of Service Analysis (COSA).

EWEB's primary cost drivers are labor and non-labor CPI increases, operations and maintenance, and additional pumping and elevation costs associated with serving Willamette. After instituting a 6.5 percent increase for 2015, as discussed earlier in my testimony and reflected in my adjustments, EWEB is also considering an annual 4.92 percent increase through 2018, with annual increases of 3.9 percent thereafter.

Q. HOW DO YOU PROPOSE TO HANDLE EWEB'S PROPOSED ANNUAL RATE INCREASES?

A. I propose Willamette's automatic adjustment clause tariff continue allowing the Company to increase rates in accordance with EWEB's rate increases. The

tariff was originally established with the Company's Advice No. 08-29 in 2008 and allows purchased water cost adjustments to be effective annually upon the date that EWEB implements rate changes. These adjustments are filed with and subject to annual approval by the Commission.

Q. DOES STAFF BELIEVE THAT CONTINUATION OF THE AUTOMATIC ADJUSTMENT CLAUSE IS NECESSARY FOR THE FINANCIAL INTEGRITY OF THE COMPANY?

A. Yes. Staff believes that the automatic adjustment clause is necessary to enable the Company to smoothly transition in accordance with EWEB's price increases. EWEB is proposing to increase its rates annually for at least the next three years as the cost of providing water continues to increase.

As previously stated, these adjustments require Commission approval and have historically appeared to work effectively. As long as Willamette continues to purchase its water supply from EWEB, the automatic adjustment clause is necessary. I do not foresee any future issues in allowing the automatic adjustment clause to continue.

Q. CONSIDERING THE HIGH COST FOR PURCHASED WATER WILLAMETTE PAYS TO EWEB, HAS THE COMPANY INVESTIGATED OTHER SOURCES OF WATER?

A. Yes. According to Willamette, it has expended considerable resources and time assessing how it can effectively utilize its current water permit. ² The permit allows Willamette to take water from the McKenzie River. However,

² Willamette's Water Permit, S-50877, was issued by the Oregon Water Resources Department on February 9, 1990. The permit is issued for 4.0 cubic feet per second.

diverting, treating and distributing this water right to Willamette's current small customer base is not economically viable. A groundwater option such as drilling a well is not practical due to contaminants in the area.

On November 5, 2008, Willamette applied for a new 34 CFS expanded water right (S-87330) on the McKenzie River. This could supply safe drinking water to an expanded service area in the Goshen and Pleasant Hill regions as well as serve the cities of Creswell and Cottage Grove. With a larger customer base, it would be more economically feasible for Willamette to make the capital investments needed to divert, treat and pipe this water to the Company's service area. While Willamette would like to accommodate this demand in these areas, its current 4 CFS water right does not allow the use of enough water to serve the existing residents and businesses.

Q. WHAT LEGAL ACTIONS HAVE TAKEN PLACE IN REGARDS TO THE EXPANDED WATER RIGHT?

A. On January 26, 2010, the Oregon Water Resources Department (OWRD) issued a Proposed Final Order (PFO) approving Willamette's application. On March 12, 2010, Water Watch of Oregon protested the PFO, and following a contested-case hearing held in November 2011, the Oregon Administrative Hearings (OAH) administrative law judge recommended that Willamette's application be denied. OWRD issued a Final Order on May 29, 2014, denying the application. Willamette filed a notice of appeal with the Oregon Court of Appeals in October 2014, and the case is pending.

ISSUE 6, RATES, RATE SPREAD, AND RATE DESIGN

Q. WHAT RATES DO YOU PROPOSE IN UW 161?

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A. Table 4 below shows Willamette's proposed rates and Staff's proposed rates.

Table 4 – Willamette and Staff Proposed Rates

CUSTOMER CLASS	METE R SIZE	WILLAMETTE'S PROPOSED BASE RATES	WILLAMETTE'S PROPOSED COMMODITY RATE Per 100 cf	STAFF'S PROPOSED BASE RATES	STAFF'S PROPOSED COMMODITY RATE Per 100 cf
RESIDENTAL	5/8-3/4	\$34.45	\$3.04	\$41.03	\$2.86
RESIDENTIAL	1"	\$86.13	\$3.04	\$82.07	\$2.86
RESIDENTIAL	1 ½"	\$131.95	\$3.04	\$143.62	\$2.86
RESIDENTIAL	DM1	\$34.45	\$3.04	\$41.03	\$2.86
COMMERCIAL	5/8-3/4	\$34.45	\$3.04	\$29.24	\$2.90
COMMERCIAL	1"	\$86.13	\$3.04	\$73.10	\$2.90
COMMERCIAL	1 ½"	\$131.95	\$3.04	\$146.20	\$2.90
COMMERCIAL	2"	\$230.83	\$3.04	\$233.93	\$2.90
COMMERCIAL	DM1	\$34.45	\$3.04	\$29.24	\$2.90
COMMERCIAL	DM2	\$68.90	\$3.04	\$58.48	\$2.90
INDUSTRIAL	5/8-3/4	\$34.45	\$3.04	\$23.23	\$2.71
INDUSTRIAL	1"	\$86.13	\$3.04	\$58.07	\$2.71
INDUSTRIAL	1 ½"	\$131.95	\$3.04	\$116.13	\$2.71
INDUSTRIAL	3"	\$516.79	\$3.04	\$348.40	\$2.71
INDUSTRIAL	6"	\$1099.73	\$3.04	\$1161.32	\$2.71
FIRE PROTECTION – PRIVATE	4"	\$30.45	\$3.04	\$30.39	\$2.90
FIRE PROTECTION - PRIVATE	6"	\$60.90	\$3.04	\$60.78	\$2.90
FIRE PROTECTION - PUBLIC	N/A	N/A	\$3.04	N/A	\$3.00

Q. PLEASE DESCRIBE HOW YOU SPREAD THE PROPOSED REVENUE REQUIREMENT TO THE CUSTOMER CLASSES?

A. I proposed that \$89,041 of the revenue requirement be allocated to Residential, \$72,810 to Commercial, \$104,286 to Industrial, \$4,012 to Private Fire Protection, \$171 to Public Fire Protection, and \$244 to Temporary Hydrant Rental users. The allocations are based on similar spreads used in the previous rate case, UW125, as well as what Willamette proposed in its application.

Q. PLEASE DESCRIBE HOW YOU SPLIT THE REVENUE BETWEEN THE BASE RATES AND THE COMMODITY RATES.

- A. The standard target split for water utilities for fixed and variable expenses is 60 percent and 40 percent, respectively. I used that 60/40 split in UW 161. It closely mirrors the split used in Willamette's previous UW 125 rate case. The proposed rates will provide Willamette with sufficient revenues in the winter months to pay expenses.
- Q. DID STAFF USE THE AMERICAN WATER WORKS ASSOCIATION

 (AWWA) STANDARD ALLOCATION FACTORS BASED ON METER SIZE

 TO DETERMINE THE BASE RATE FOR THE RESIDENTIAL,

 COMMERCIAL, AND INDUSTRIAL CUSTOMERS?
- A. Yes. The Stipulation in Willamette's previous rate case, UW 125, recommended that in the next case, the customer classes' AWWA factors be moved at least one third towards full AWWA-factor based rates.

I found that factors used in the last case were too heavily weighted on small meter residential, commercial, and industrial customers. My proposed rate

design results in all classes being moved to full AWWA factors with the exception of residential customers with 1 inch and 1.5 inch lines.

Q. PLEASE EXPLAIN WHY CERTAIN RESIDENTIAL CUSTOMERS WERE EXCLUDED FROM MOVING TOWARDS FULL AWWA FACTORS?

A. I exempted the residential customers with 1-inch lines because of large variations in usage. Approximately 45 percent of the 1-inch line residential customers use three to five times more water than the remaining 55 percent residential customers. If full AWWA factors were applied, under Staff's rate design, the base rates for 1-inch residential customers would have increased over 80 percent. I also exempted the one 1.5-inch residential customer because the base rate would have gone up approximately 145 percent, leading to severe rate shock. I moved both the 1-inch and 1.5-inch residential customers closer to actual AWWA factors in this case. This process should be continued in subsequent rate cases until standard AWWA factors can be achieved.

ISSUE 7, THE STIPULATION

- Q. DID ALL PARTIES AGREE TO AND SUPPORT THE STIPULATION IN RESOLUTION OF ALL ISSUES.
- A. Yes.

- Q. WHAT REVENUE REQUIREMENT DID ALL PARTIES AGREE TO AND SUPPORT IN THE STIPULATION.
- A. The Parties agreed to and support a revenue requirement of \$270,564.

Q. DID THE PARTIES AGREE TO AND SUPPORT THE RATES IN THE STIPULATION?

A. Yes. The Parties agreed to and support the rates as shown in the Stipulation and in this testimony. The stipulated rates are shown below in Table 5 –
 Stipulated Rates:

<u>Table 5 – Stipulated Rates</u>

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CUSTOMER CLASS	METER SIZE	STIPULATED BASE RATES	STIPULATED COMMODITY RATES
RESIDENTAL	5/8-3/4"	\$41.03	\$2.86 per 100 cf
RESIDENTIAL	1"	\$82.07	\$2.86 per 100 cf
RESIDENTIAL	1 ½"	\$143.62	\$2.86 per 100 cf
RESIDENTIAL	DM1	\$41.03	\$2.86 per 100 cf
COMMERCIAL	5/8-3/4"	\$29.24	\$2.90 per 100 cf
COMMERCIAL	1"	\$73.10	\$2.90 per 100 cf
COMMERCIAL	1 ½"	\$146.20	\$2.90 per 100 cf
COMMERCIAL	2"	\$233.93	\$2.90 per 100 cf
COMMERCIAL	DM1	\$29.24	\$2.90 per 100 cf
COMMERCIAL	DM2	\$58.48	\$2.90 per 100 cf
INDUSTRIAL	5/8-3/4"	\$23.23	\$2.71 per 100 cf
INDUSTRIAL	1"	\$58.07	\$2.71 per 100 cf
INDUSTRIAL	1 ½"	\$116.13	\$2.71 per 100 cf
INDUSTRIAL	3"	\$348.40	\$2.71 per 100 cf
INDUSTRIAL	6"	\$1161.32	\$2.71 per 100 cf
FIRE PROTECTION – PRIVATE	4"	\$30.39	\$2.90 per 100 cf
FIRE PROTECTION - PRIVATE	6"	\$60.78	\$2.90 per 100 cf
FIRE PROTECTION -		_	
PUBLIC	N/A	N/A	\$3.00 per 100 cf

A. Yes.

Q. HOW DID THE PARTIES AGREE TO HANDLE EWEB'S PROPOSED
ANNUAL RATE INCREASES?
A. The Parties agreed with Staff's recommendation that Willamette's Automatic
Adjustment Clause tariff continue in effect allowing the Company to increase
rates in accordance with EWEB's rate increases.
Q. ARE THE RESULTING RATES FAIR AND REASONABLE?
A. Yes.
Q. WHAT IS STAFF'S RECOMMENDATION?
A. Staff recommends the Commission receive the Stipulation into the UW 161
record and adopt the Stipulation in its entirety.
Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

CASE: UW 161 WITNESS: GREG MILLER

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 101

Exhibits in Support Of Direct Testimony

Company Proposed 16.4% Increase:

Staff Proposed Increase: 15.7%

Revenue Requirement В С D F G н Ε Company Company Staff Staff Staff Staff Total Company A+B=C C+D=E D+F=G C+G=H Proposed Revenue-Balance per Sensitive Total PUC PUC Proposed Acct Company Proposed No. REVENUES Staff Adjustments Adjusted Results Application Adjustments Company Totals Adjustments Adjustments Results 460 Unmetered Water Sales 461.1 Residential Water Sales 12.713 \$ (655)(655 76.983 89,696 89.696 89.041 Commercial Water Sales 62,950 461.2 10,395 73,345 73,345 (535)(535)72,810 461.3 Industrial Water Sales 90,164 14,889 105,053 105,053 (767) (767 104,286 462.1 Public Fire Protection 69 103 172 172 (1) (1) 171 462.2 Private Fire Protection 2,580 1,461 4,041 4,041 (29 4,012 466 Irrigation -Sales for Resale 467 468 Special Contracts 463 (463)Miscellaneous Services 1 471 672 (672)472 Rent from Util. Property ** 244 244 244 244 475 Cross Connection Control Revenue TOTAL REVENUE 233,881 \$ 38,426 \$ 272,307 \$ 244 272,551 (1,987) \$ (1,743) \$ 270,564 **OPERATING EXPENSES** 601 Salaries and Wages - Employees Salaries and Wages - Officers 603 604 Employee Pension & Benefits 610 Purchased Water 107,671 10,707 118,378 7,695 126,073 7,695 126,073 611 Telephone/Communications 1.801 (356) 1.445 (356) 1,445 1,801 Purchased Power 615 Fuel for Power Production 617 Other Utilities Chemical / Treatment Expense 618 619 Office Supplies 230 230 (12) 218 (12 218 Postage O&M Materials/Supplies 619 1 803 803 (0) 803 (0) 803 620 356 59 415 356 59 415 621 Repairs to Water Plant 3,497 1,961 5,458 (648)4,810 (648)4,810 631 Contract Sycs - Engineering 632 Contract Svcs - Accounting 656 1,094 1,750 1,750 1,750 633 Contract Svcs - Legal 3 873 3,289 7,162 (777)6,385 (777) 6,385 634 Contract Sycs - Management Fees 86.313 86.313 86,313 86,313 635 Contract Svcs - Testing (76) (76) 830 636 Contract Svcs - Labor 18 275 1,387 19.662 (978)18.684 (978)18.684 Contract Svcs - Billing/Collection 637 \$ 149 149 0 149 0 \$ 149 638 Contract Svcs - Meter Reading 780 780 780 780 639 Contract Sycs - Other 65 65 (65) (65) 641 Rental of Building/Real Property 642 Rental of Equipment 643 Small Tools Computer/Electronic Expenses 835 835 835 835 648 Transportation 650 Vehicle Insurance 656 General Liability Insurance 2,025 657 2,025 2,025 2,025 658 Workers' Comp Insurance Insurance - Other 659 666 Amortz. of Rate Case 5,174 5,174 (3,676)1,498 (3,676 1,498 Gross Revenue Fee (PUC) 563 21 584 92 92 676 670 Bad Debt Expense 187 80 \$ 107 107 80 187 671 Cross Connection Control Program 75 673 Training and Certification 160 160 160 160 Consumer Confidence Report 150 100 250 25 275 25 275 Miscellaneous Expense 664 664 (0) 664 (0) 664 OE1 Other Expense 1 Other Expense 2 OE2 OF3 Other Expense 3 Other Expense 4 OE4 OE₅ TOTAL OPERATING EXPENSE 234.308 \$ 1,597 92 \$ 254,976 18.979 \$ 253.287 254.300 1.689 \$ OTHER REVENUE DEDUCTIONS Depreciation Expense 3,028 287 3,315 87 3,402 87 3,402 406 Amort of Plant Acquisition Adjustment 407 Amortization Expense 22.611 (22.611) 2.005 1.989 (16 1.989 408.11 (16) Property Tax 2,005 408.12 Payroll Tax 408.13 Other Federal Income Tax 409.1 (7.152)10.636 3.484 (2.055 (2.055 1.429 Oregon Income Tax (558)(558)673 409.13 Extraordinary Items Income Tax TOTAL REVENUE DEDUCTIONS 252,273 11,048 263,321 1,668 259,691 (2,520)(852) 262,469 **NET OPERATING INCOME** 27,378 533 (18,392)8,986 (1,424)12,860 8,095 (891) UTILITY RATE BASE Utility Plant Invested by Company 613.813 \$ (454,290) \$ 159.523 \$ 457.919 617,442 457.919 \$ 617,442 271 + Contributions in Aid of Construction - Excess Capacity 454.290 454.290 454.290 454.290 Equals: Total Utility Plant 613,813 (454,290) \$ 159,523 163,152 3,629 3,629 163,152 Accum. Depreciation--Invested Plant 91,042 94,453 91,042 3,411 94,453 - Accum. Depreciation--CIAC 271 - Contributions in Aid of Construction - Accumulated Deferred Income Tax 272 + Accum. Amortization of CIAC Equals: Net Invested Utility Plant 522,771 (454,290) 68,481 218 68,699 218 68,699 Plus: (working capital) Materials and Supplies Inventory Working Cash (Total Op Exp /12) 151 140 \$ 140 \$ WrkCash 19,526 1,582 \$ 21,108 21,248 21,248 89,947 TOTAL RATE BASE 542,297 (452,708) 89,589 358 89,947 358 Rate of Return 10.03% 14 30% 9.00%

^{*} Account 468 & 471 - Special Contracts/Misc Services Revenue: Company inadvertently transposed these two numbers/Staff corrected

^{**} Account 472 - Rent from Util Property: Staff average 5 years of Hydrant Rent \$244

Adjustment Summary

Acct			mpany	Total PUC	PUC Proposed	
No.	REVENUES	\$	pposed -	Adjustments \$ -	Results	Reason for Adjustment
461.1 461.2	Unmetered Water Sales Residential Water Sales	\$	89,696	•	\$ - \$ 89,041	No Adjustment
462.1	Commercial Water Sales	\$	73,345		\$ 72,810	
464	Public Fire Protection	\$	105,053	\$ (767)	\$ 104,286	
465	Water Sales to Public Authorities	\$		\$ (1)	\$ 171	
466	Irrigation -	\$		\$ (29) \$ -	\$ 4,012	No. Advisors and
467 468	Sales for Resale Golf Course	\$		\$ - \$ -	\$ - \$ -	No Adjustment No Adjustment
471	Special Contracts	\$		\$ -	\$ -	No Adjustment
472	Rent from Util. Property Revenue	\$	-	\$ -	\$ -	No Adjustment
475	Cross Connection Control Revenue	\$		\$ 244		5 year average for hydrant rent
471	Misc. Revenues	\$		<u> - </u>	\$ -	No Adjustment
	Other - Specify TOTAL REVENUE	\$		\$ - \$ (1,743)	\$ - \$ 270,564	No Adjustment Overall Test Yr Revenues consistent with the filed 2013 - 1120S Corp Tax Return
	TOTAL REVENUE	Ψ	212,501	ψ (1,743)	Ψ 270,304	Overall 1631 11 Nevertues Consistent with the filed 2013 - 11200 Corp Tax Neturn
	OPERATING EXPENSES					
601	Salaries and Wages - Employees	\$		\$ -	\$ -	No Adjustment
603	Salaries and Wages - Officers	\$		\$ -	\$ -	No Adjustment
604 610	Employee Pension & Benefits Purchased Water	\$		\$ - \$ 7,695	\$ - \$ 126,073	No Adjustment Current Base Rate + Commod. Rate. 6.5% increase for 2015 included per EWEB
611	Telephone/Communications	\$		\$ (356)		Moved Locates to O&M
615	Purchased Power	\$		\$ -	\$ -	No Adjustment
616	Fuel for Power Production	\$	-	\$ -	\$ -	No Adjustment
617	Other Utilities	\$		\$ -	\$ -	No Adjustment
618	Chemical / Treatment Expense	\$		\$ - \$ (12)	\$ - \$ 218	No Adjustment
619 619.1	Office Supplies Postage	\$		\$ (12)	\$ 803	Actual Invoices Actual Invoices
620	O&M Materials/Supplies	\$		\$ 356		Locates included
621	Repairs to Water Plant	\$	5,458	\$ (648)	\$ 4,810	Actual Invoice + Leek Detection Audit / 2012 Fire Hydrant replacement moved to Plant
631	Contract Svcs - Engineering	\$		\$ -	\$ -	No Adjustment
632	Contract Svcs - Accounting	\$		\$ -	\$ 1,750	
633 634	Contract Svcs - Legal Contract Svcs - Management Fees	\$	7,162 86,313	\$ (777) \$ -		EWEB related legal only - Average 2012/2013/2014 at new legal hourly rate No Adjustment/PUC Approved/Reviewed
635	Contract Svcs - Management Fees Contract Svcs - Testing	\$	830			3 year average
636	Contract Svcs - Labor	\$		\$ (978)		Current Charges - per contract
637	Contract Svcs - Billing/Collection	\$	149			No Adjustment
638	Contract Svcs - Meter Reading	\$		\$ -	\$ 780	No Adjustment
639	Contract Svcs - Other	\$		\$ (65)	\$ -	Moved to Repairs to Water Plant
641 642	Rental of Building/Real Property Rental of Equipment	\$		\$ - \$ -	\$ - \$ -	No Adjustment No Adjustment
643	Small Tools	\$		\$ -	\$ -	No Adjustment
648	Computer/Electronic Expenses	\$		\$ -	\$ 835	No Adjustment
650	Transportation	\$		\$ -	\$ -	No Adjustment
656	Vehicle Insurance	\$		\$ -	\$ -	No Adjustment
657 658	General Liability Insurance	\$		\$ - \$ -	\$ 2,025 \$ -	Per Insurace Renewal Invoice No Adjustment
659	Workers' Comp Insurance Insurance - Other	\$		\$ - \$ -	\$ -	No Adjustment
666	Amortz. of Rate Case	\$		\$ (3,676)	\$ 1,498	
667	Gross Revenue Fee (PUC)	\$		\$ 92	\$ 676	Calculation
670	Bad Debt Expense	\$		\$ 107		4 year average
671 673	Cross Connection Control Program	\$	75 160	<u>\$ -</u> \$ -		No Adjustment No Adjustment
674	Training and Certification Consumer Confidence Report	\$		\$ - \$ 25		Per Delta Environmental Svcs.
675	Miscellaneous Expense	\$		\$ (0)		Bank fees, OAWU & AWWA renewals
OE1	Other Expense 1	\$	-	\$ -		No Adjustment
OE2	Other Expense 2	\$		\$ -	\$ -	No Adjustment
OE3	Other Expense 3	\$		\$ - \$ -	\$ - \$ -	No Adjustment
OE4 OE5	Other Expense 4 Other Expense 5	\$		\$ - \$ -	\$ - \$ -	No Adjustment No Adjustment
020	TOTAL OPERATING EXPENSE	\$		\$ 1,689	\$ 254,976	r
				,		
	OTHER REVENUE DEDUCTIONS					T
403	Depreciation Expense	\$		\$ 87 \$		Bring to current level
406 407	Amort of Plant Acquisition Adjustment Amortization Expense	\$		\$ - \$ -	\$ - \$ -	No Adjustment No Adjustment
408.11	Property Tax	\$		\$ (16)	\$ 1,989	2014-2015 Lane Co. tax statement
408.12	Payroll Tax	\$	-	\$ -	\$ -	No Adjustment
408.13	Other	\$		\$ -	\$ -	
409.1	Federal Income Tax	\$		\$ (2,055)	\$ 1,429	Used Federal Tax rate of 15% vs. 28% listed on Application
409.11 409.13	Oregon Income Tax Extraordinary Items Income Tax	\$		\$ (558) \$ -	\$ 673 \$ -	Used Oregon Tax rate of 6.60% vs. 9% listed on Application No Adjustment
403.13	TOTAL REVENUE DEDUCTIONS	\$	263,321		\$ 262,469	INO Adjustinent
	NET OPERATING INCOME	\$	8,986			
401	UTILITY RATE BASE	•	450 5		a	In the second se
101	Utility Plant in Service	\$		\$ 457,919	\$ 617,442	
272	Amortization of CIAC Less:	Φ	-	\$ -	\$ -	No Adjustment
108.1	Depreciation Reserve	\$	91,042	\$ 3,411	\$ 94,453	Bring to current level
	Excess Capacity	\$		\$ 454,290	\$ 454,290	
281	Accumulated Deferred Income Tax	\$		\$ -	\$ -	No Adjustment
	Net Utility Plant	\$	68,481	\$ 218	\$ 68,699	Bring to current level
151	Plus: (working capital) Materials and Supplies Inventory	\$	- 1	\$ -	\$ -	No Adjustment
WrkCash	Working Cash (Total Op Exp /12)	\$	21,108		\$ 21,248	
	TOTAL RATE BASE	\$	89,589			

Cost of Capital

Utility Proposed Rate of Return 10.03%

Test Year Rate of Return -3.39%

Staff Proposed Rate of Return 9.00%

Cost of Debt

			Outstanding			
	Debt	Original Balance	Balance	Capital Structure	Cost	Weighted Cost
1				0.00%		
2				0.00%		
3				0.00%		
4				0.00%		
5				0.00%		
6				0.00%		
7				0.00%		
8				0.00%		
9				0.00%		
10				0.00%		
11				0.00%		
12				0.00%		
13				0.00%		
14				0.00%		
15				0.00%		
16				0.00%		
17				0.00%		
	TOTAL DEBT	\$0	\$0			0.00%

Equity

			Outstanding			
	Equity	Original Balance	Balance	Capital Structure	Cost	Weighted Cost
1	Total Rate Base		\$89,947	100.00%	9.00%	9.00%
2				0.00%		
3				0.00%		
4				0.00%		
5				0.00%		
6				0.00%		
7				0.00%		
8				0.00%		
9				0.00%		
10				0.00%		
11				0.00%		
12				0.00%		
13				0.00%		
14				0.00%		
15				0.00%		
16				0.00%		
17				0.00%		
	TOTAL EQUITY	\$0	\$89,947			9.00%
	TOTAL DEBT + EQUITY		\$89,947			9.00%

Rate of Return

Invested Plant	С	D	E	F	G	н	ı	J	К	L	М	N C) P	Q	R	s	Т	U	V	W	Х	Υ	Z	AA A	B AC	C AD) AE	AF	AG	АН	AI	AJ	AK	AL	AM	AN	AO	AP	AQ
Not No.	Date	Utility Plant	Less Excess Capacity	Total Adj	NARUC	Annual	Final Month of	Before 1985																						_							Accumu- lated Deprec. Ending 2014	Remain Plant Beg	Deprec Expense for 2015
Account Description Organization	Acquired	Orig Cost	Adj to Plant		Asset Life	Deprec	Deprec		1985	1986	1987	1988		1990	1991 1	992 1	1993 19	94 19	95 199	96 199					2002	2003 2	2004 20	005 2	006 200										
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302 Franchises		1		0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0 0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0 0	1	0 (
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Land and Land Rights		454,000	454.000																														0	0		0	مام		
Water Rights Part of McDougal Loan		454,290	454,290	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0		0 (
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304 Structures and Improvements			1																									-1									-		
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Collecting and Impounding Reservoirs																																							_
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806 Lake, River and Other Intakes																																							
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807 Wells and Springs																		_																					
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Power Generation Equipment				0	30	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0		0 (
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Pumping Equipment Pumping Equipment	Jan 1984	150	0	150	20	8	Dec 2003	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8 8	8	8	-2	0	0	0	0	0	0	0	0	0	0	0 150		0
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331 Transmission and Distribution Mains																											
Water Mains Water Mains	Jun 1972 Jun 1974	27,300 C 1,230 C	27,300 5 1,230 5	60 546 May 2022 60 25 May 2024	6,871	546 546 25 25	546 25	546 546 25 25	546 25	546 546	546 54 25 2	546 5	35 35	546 546	546 5 25	46 546 25 25	546 5 25	546 546	546	546 546 25 25	5 546	546 25	546 54	46 546	546 25	23,251 4,0 1,015	49 546 15 25
Water Mains	Jun 1975	566 0	566 5	io 11 May 2025	105	11 11	11	11 11	11	11 11	11 1		11 11	11 11	11	11 11	11	11 11	11	11 11	1 11	11	11 1	11 11	11	435	31 11
Water Mains	Jun 1976	463 0	463 5		77	9 9	9	9 9	9	9 9	9	9	9 9	9 9	9	9 9	9	9 9	9	9 9	9	9	9	9 9	9		16 9
Water Mains Water Mains	Jun 1977 Jun 1978	1,987 0 16,077 0	1,987 5 16,077 5	60 40 May 2027 60 322 May 2028	2,120	40 40 322 322	322	322 322	40 322	40 40 322 322	40 4 322 32	322 3	40 40 122 322	40 40 322 322	40 322 3	40 40 22 322	40 322 3	40 40 322 322	40 322	322 323	322	40 322	40 4 322 32	40 40	40 322	1,503 4,2 11,780 4,2	84 40 97 322
Water Mains	Jun 1980	1,511 0	1,511 5	i0 30 May 2030	138	30 30	30	30 30	30	30 30	30 3	30	30 30	30 30	30	30 30	30	30 30	30	30 30	30	30	322 32 30 3	30 30	30	1,038	73 30
Water Mains Water Mains	Jun 1983 Jun 1984	1,013 C	1,013 5 9,009 5	i0 20 May 2033 i0 180 May 2034	105	20 20 180 180	20 180	20 20 180 180	20 180	20 20 180 180	20 2 180 18	20 180 1	20 20 80 180	20 20 180 180	20 180 1	20 20 80 180	20 180 1	20 20 180 180	20 180	20 20 180 180	20	20 180	20 2 180 18	20 20 30 180	20 180	5,505 3,5	81 20 04 180
Water Mains	Jun 1985	842 0	842 5	io 17 May 2035	0	10 17	17	17 17	17	17 17	17 1		17 17	17 17	17	17 17	17	17 17	17	17 17	7 17	17	17 1		17	503	39 17
Water Mains	Jun 1986	4,053	4,053 5	60 81 May 2036	0	0 47	81	81 81	81	81 81	81 8		81 81	81 81	81	81 81	81	81 81	81	81 81	81	81	81 8		81	2,315 1,3	38 81
Water Mains Water Mains	Jun 1987 Jun 2000	17,065 C		i0 341 May 2037 i0 260 May 2050	0	0 0	199	341 341	341	341 341	341 34	341 3	0 341	341 341	341 3 152 2	41 341 60 260	341 3 260 2	341 341 260 260	341 260	341 341 260 260	341	341 260	341 34 260 26	41 341 60 260	341 260	9,406 7,6 3,792 9,2	59 341 02 260
Water Mains - C St to D St Extension	Jun 2001		13,212 5	i0 264 May 2051		0 0	0	0 0	0	0 0	0	0	0 0	0 0	0 1	54 264	264 2	264 264		264 264		264	264 26	64 264	264	3,586 9,6	
Water Mains, McDougal	Nov 2002	2,569 0		0 51 Oct 2052	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 9	51	51 51 52 52	51	51 51		51	51 5	51 51	51	621 1,9	48 51
Water Mains Water Mains, Weyco Line Replacement Hwy 99	Jun 2003 May 2007	2,589 C 8,148 C		60 52 May 2053 60 163 Apr 2057	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	30 0	52 52	52 0	52 52 109 163	52 3 163	52 163	52 5 163 16	52 52 63 163	52 163	602 1,5 1,250 6,8	87 52 98 163
Water Mains-34524 Mathews	Jan 2010	1,104 0	1,104 5	i0 22 Dec 2059	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0	0	0 (0 0		22 2		22	110	94 22
Water Mains-36507 Collegeview	Sep 2011	350 0		60 7 Aug 2061 60 0	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0	0	0 0	0 0	0	2	7 7	7	23 3	27 7
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333 Services																al al											
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334 Meters and Meter Installations																											
Meters	Jun 1985	240 0		10 12 May 2005	0	7 12	12	12 12	12	12 12	12 1:	12	12 12	12 12	12	12 12	12	12 5	0	0 (0 0	0	0	0 0	0	240	0 0
Meters Meters	Jun 1986 Jun 1987	480 0 3,600 0	480 2 3,600 2	24 May 2006 10 180 May 2007	0	0 0	105	180 180	180	180 180	180 18	180 1	80 180	180 180	180 1	80 180	180 1	180 180	180	75 (0 0	0	0	0 0	0	480 3,600	0 0
Meters	Jun 1996	875 C		180 May 2007 10 44 May 2016	0	0 0	0	0 0	0	0 0	0	0	26 44	44 44		44 44		180 180 44 44	44	44 44	1 44	44	44 4	44 44	44	818	57 44
Meters Meters - Staton	Jun 2000 Jun 2003	875 C		0 44 May 2020 10 11 May 2023	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	26	0 0	6	44 44 11 11	44 11	11 11		44 11	44 4 11 1	14 44 11 11	44 11	642 1 127	33 44 91 11
Meters	Jul 2003	1,051 0	1,051 2	n 52 lun 2023	0	0 0	0	0 0	0	0 0	0	ő	0 0	0 0	0	0 0	27	53 53	53	53 53			53 5		53	610	41 53
Meters Replacement - Staton Construction	Dec 2003	1,750 0	1,750 2	88 Nov 2023	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	7	88 88	88	88 88	88	88	88 8	88 88	88	975	75 88
Meters Replacement - South Eugene Storage Meters - Portable Hydrant for temporary Hydrant	Dec 2006 Jun 2007	250 C	250 2	10 13 Nov 2026 10 40 May 2027	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0	0	23 40	0 40	40	40 4	40 40	40	303	45 13 00 40
Meter-Rplcd 85709 Hwy99	Jul 2008	170 0	170 2	9 Jun 2028		0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0	0	0 5	5 9	9	9	9 9	9	59	11 9
Meter-Rplcd 34324Deerwood Meter-Rplcd 34560Deerwood	Aug 2008 Aug 2008	95 C	95 2 333 2	5 Jul 2028 10 17 Jul 2028	0	0 0	0	0 0 0 n	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0 0 n	0	0 2	7 17	5 17	5 17 1	5 5	5 17	32 109	63 5 24 17
Meter-Rplcd 34324Deerwood	Jul 2009	115 0	115 2	0 6 Jun 2029	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0	0	0 0	3	6	6	6 6	6	33	82 6
Meter-Rplcd 85833 Hwy 99	Jan 2010 Mar 2010	257	257 2	10 13 Dec 2029	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0	0	0 (0 0	13	13 1	13 13	13	65	92 13
Meter-Rpicd 86325CollegeV Meter-Rpicd 33969 B St	May 2010	110 0 112 0	110 2		0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0	0	0 (0 0	4	6	6 6	6		81 6 84 6
Meter-Rplcd 33579 Blmbrg	May 2010	112 0	112 2	0 6 Apr 2030	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0	0	0 (0 0	4	6	6 6	6	28	84 6
Meter-Rplcd 33556 Blmbrg Meter-Rplcd 85807 2nd St	May 2010 Sep 2010	112 0 112 0	112 2 1 112 2	0 6 Apr 2030 0 6 Aug 2030	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0	0	0 0	0 0	4	6	6 6	6	28 26	84 6 86 6
Meter-Rplcd 34365Deerwood	Sep 2010	145	145 2	0 7 Aug 2030	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0	0	0 0	0 0	2	7	7 7	7	30	15 7
Meter-Rplcd 86415 Franklin	Sep 2010 Oct 2010	112 0	112 2	0 6 Aug 2030	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0	0	0 (0 0	2	6	6 6	6		86 6
Meter-Rpicd 33510 Blmbrg Meter-Rpicd 34494Deerwood	Nov 2010	112 0 112 0	112 2	6 Sep 2030 0 6 Oct 2030	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0	0	0 0	0 0	1	6	6 6	6	26 25	86 6 87 6
Meter-Rplcd 85826 1st St	Sep 2011	112 0	112 2	0 6 Aug 2031	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0	0	0 (0 0	0	2	6 6	6	20	92 6
Meter-Rplcd 864151/2Franklin Meter-Rplcd 86495 Collgview	Sep 2011 Jun 2012	112 C		0 6 Aug 2031 0 6 May 2032	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0	0	0 0	0 0	0	2	6 6	6		92 6 96 6
Meter-Rpicd Hampton Rd(GFP)	Apr 2013 May 2013	1,717	1,717 2	90 86 Mar 2033	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0	0	0 0	0 0	0	0	0 65	86	151 1,5	66 86
Meter-Rpicd 34543 Deerwood	May 2013	112 0	112 2	0 6 Apr 2033	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0	0	0 (0 0	0	0	0 4	6		02 6
Meter-Rplcd 34074 E Peebls Meter-Rplcd 86623 Franklin	Sep 2013 Oct 2013	112 C		0 6 Aug 2033 10 12 Sep 2033	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0	0	0 0	0 0	0	0	0 3	12	15 2	04 6 26 12
Meter-rplcd 33977 Hampton	Dec 2013	112 0	112 2	0 6 Nov 2033	0	0 0	0	0 0	0	0 0	0	0	0 0	0 0	0	0 0	0	0 0	0	0 (0 0	0	0	0 1	6		05 6
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335 Hydrants				7 14																							
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Hydrants Hydrants Hydrants	Jun 1979 Jun 1981	139 C	139 4 398 4	0 3 May 2019 0 10 May 2021	17	7 7 3 3 10 10	7 3 10	7 7 3 3 10 10	7 3 10	7 7 3 3 10 10	7 3 10 1	7 3 10	7 7 3 3 10 10	7 7 3 3 10 10	7 3 10	7 7 3 3 10 10	7 3 10	7 7 3 3 10 10	7 3 10	3 3	7 7 3 3 0 10	7 3 10	7 3 10 1	7 7 3 3 10 10	7 3 10	107 336	32 3 62 10
Hydrants Hydrants Hydrants Hydrants	Jun 1979 Jun 1981 Jun 1982	139 0 398 0 315 0	139 4 398 4 315 4	0 3 May 2019 0 10 May 2021 0 8 May 2022	17 36 21	7 7 3 3 10 10 8 8 0 0	7 3 10 8	7 7 3 3 10 10 8 8 0 0	7 3 10 8	7 7 3 3 10 10 8 8 0 0	7 3 10 1 8	7 3 10 8	7 7 3 3 10 10 8 8	7 7 3 3 10 10 8 8 0 0	7 3 10 8 40	7 7 3 3 10 10 8 8 68 68	7 3 10 8 68	7 7 3 3 10 10 8 8 68 68	7 3 10 8 68	8 8	7 7 3 3 0 10 3 8 3 68	7 3 10 8 68	7 3 10 1 8 68 6	7 7 3 3 10 10 8 8 68 68	8	107 336 261	32 3 62 10 54 8
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Hydrants Hydrant Replacement 336 Cross Connection Control (utility owned) 339 Other Plant Water Loss - Weyco (EWEB charges) 340 Office Furniture and Equipment Office Furniture and Equipment Office Furniture and Equipment Billing Software 341 Transportation Equipment Shop Equipment	Jun 1979 Jun 1981 Jun 1981 Jun 1982 Jun 2000 Jul 2003 May 2012 Apr 2007 Jun 2007 Jun 2007	139 C 398 C 398 C 315 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C	139 4 398 4 315 398 4 315 398 4 315 398 4 315 398 4 315 398	00 3 May 2010 0 10 10 May 2021 00 8 May 2020 00 68 May 2020 00 91 Apr 2052 5 0 0 5 0 0 5 0 0 00 0 0 00 0 0 00 0 0 00 0 0 00 0 0 00 0 0 00 0 0 00 0 0 0 00 0 0 0 00 0 0 0 00 0 0 0 00 0 0 0 00 0 0 0 0 00 0 0 0 0 00 0 0 0 0 00 0 0 0 0 0 00 0 0 0 0 0 00 0 0 0 0 0 0 00 0 0 0 0 0 0 00 0 0 0 0 0 0 0 00 0 0 0 0 0 0 0 00 0 0 0 0 0 0 0 0 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 36 36 36 36 36 36 36 3	7	8 0 0 0 0	8 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 0 0 0 0	7 7 7 3 3 3 3 10 10 10 10 10 10 10 10 10 10 10 10 10	8 0 0 0 0	7 3 10 10 10 10 10 10 10 10 10 10 10 10 10	7 7 7 3 3 3 10 10 10 10 10 10 10 10 10 10 10 10 10	7 7 3 3 3 3 10 10 10 10 10 10 10 10 10 10 10 10 10	8 8 40 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9	8 8 6 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 7 7 3 3 3 10 10 10 10 10 8 8 8 8 8 11 11 11 10 0 10 10 10 10 10 10 10 10 1	7 3 10 10 8 8 68 11 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 68 68 68 68 68 68 68 68 68 68 68 68 68	1 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 68 11 0 0 0 0 0 0 0	0 0 0 277 0 0 0 0 0	8 8 8 8 8 8 8 8 8 8 8 6 6 8 6 6 6 6 6 6	8 8 68 11 1 91 91 91 91 91 91 91 91 91 91 91 9	107 336 261 992 1.7 127 243 3.: 0 0 0 0 1,400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	32 3 3 62 10 10 10 10 10 10 10 10 10 10 10 10 10
Hydrants 336 Cross Connection Control (utility owned) 337 Other Plant Water Loss - Weyco (EWEB charges) 340 Office Furniture and Equipment Office Furniture and Equipment Dilling Software 341 Transportation Equipment Shop Equipment Shop Equipment 343 Tools, Shop, and Garage Equipment Shop Equipment Testing Kit	Jun 1979 Jun 1981 Jun 1981 Jun 1982 Jun 2000 Jul 2003 May 2012 Apr 2007 Apr 2007 Jun 1983 Jan 2007	139 C 398 C 398 C 315 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C	139 4 398 4 316 4 316 4 4 4 316 4 4 4 3.022 6 1 6 6 6 6 6 6 6 6	0	17 36 36 36 36 36 36 36 3	7	8 0 0 0 0	8 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 0 0 0 0	7 7 7 3 3 3 3 10 10 10 10 10 10 10 10 10 10 10 10 10	8 0 0 0 0	7 7 3 10 10 10 10 10 10 10 10 10 10 10 10 10	7 7 7 3 3 3 3 100 100 100 100 100 100 100 100	7 7 7 3 3 3 3 10 10 10 10 10 10 10 10 10 10 10 10 10	8 8 40 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9	8 8 6 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 7 7 3 3 3 1 10 10 10 10 10 10 10 10 10 10 10 10 1	7 3 100 8 8 8 8 8 8 11 1 0 0 0 0 0 0 0 0 0	8 68 68 68 68 68 68 68 68 68 68 68 68 68	1 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 68 11 0 0 0 0 0 0 0	0 0 1 277 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 8 8 8 8 8 8 6 6 8 6 6 6 6 6 6	8 8 68 11 1 91 91 91 91 91 91 91 91 91 91 91 9	107 336 261 992 1.7 127 243 3.: 0 0 0 0 1,400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	32 3 3 62 10 10 10 10 10 10 10 10 10 10 10 10 10
Hydrants Hydrant Replacement 336 Cross Connection Control (utility owned) 339 Other Plant Water Loss - Weyco (EWEB charges) 340 Office Furniture and Equipment Office Furniture and Equipment Billing Software 341 Transportation Equipment Shop Equipment Shop Equipment 344 Laboratory Equipment Testing Kit Chlorine Analyzer	Jun 1979 Jun 1981 Jun 1981 Jun 1982 Jun 2000 Jul 2003 May 2012 Apr 2007 Apr 2007 Jun 1983 Jan 2007	139 C 398 C 398 C 315 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C	139 4 398 4 316 4 316 4 4 4 316 4 4 4 3.022 6 1 6 6 6 6 6 6 6 6	00 3 May 2010 0 10 10 May 2021 00 8 May 2020 00 68 May 2020 00 91 Apr 2052 5 0 0 5 0 0 5 0 0 00 0 0 00 0 0 00 0 0 00 0 0 00 0 0 00 0 0 00 0 0 00 0 0 0 00 0 0 0 00 0 0 0 00 0 0 0 00 0 0 0 00 0 0 0 0 00 0 0 0 0 00 0 0 0 0 00 0 0 0 0 0 00 0 0 0 0 0 00 0 0 0 0 0 0 00 0 0 0 0 0 0 00 0 0 0 0 0 0 0 00 0 0 0 0 0 0 0 00 0 0 0 0 0 0 0 0 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 36 36 36 36 36 36 36 3	7	8 0 0 0 0	8 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 0 0 0 0	7 7 7 7 3 3 3 3 3 10 10 10 10 10 10 10 10 10 10 10 10 10	8 0 0 0 0	7 7 3 1 10 10 10 10 10 10 10 10 10 10 10 10 1	7	7 7 7 3 3 3 3 3 10 10 10 10 10 10 10 10 10 10 10 10 10	8 8 40 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9	8 8 6 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 7 7 3 3 3 10 10 10 10 10 10 10 10 10 10 10 10 10	7 3 10 10 10 10 10 10 10 10 10 10 10 10 10	8 68 68 68 68 68 68 68 68 68 68 68 68 68	1 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 68 11 0 0 0 0 0 0 0	0 0 1 277 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 8 8 8 8 8 8 6 6 8 6 6 6 6 6 6	8 8 68 11 1 91 91 91 91 91 91 91 91 91 91 91 9	107 336 261 992 1.7 127 243 3.: 0 0 0 0 1,400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	32 3 3 62 10 10 10 10 10 10 10 10 10 10 10 10 10
Hydrants Hydrant Replacement 336 Cross Connection Control (utility owned) 339 Other Plant Water Loss - Weyco (EWEB charges) 340 Office Furniture and Equipment Office Furniture and Equipment Billing Software 341 Transportation Equipment Shop Equipment Shop Equipment Shop Equipment Laboratory Equipment Shop Equipment Shop Equipment Laboratory Equipment Testing Kit	Jun 1979 Jun 1981 Jun 1981 Jun 1982 Jun 2000 Jul 2003 May 2012 Apr 2007 Apr 2007 Jun 1983 Jan 2007	139 C 398 C 398 C 315 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C	139 4 398 4 315 398 4 315 398 4 315 398 4 315 398 4 315 398	00 3 May 2019 01 10 May 2021 00 8 May 2020 01 68 May 2020 01 68 May 2020 01 91 Apr 2052 05 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 36 36 36 36 36 36 36 3	7	8 0 0 0 0	8 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 0 0 0 0	7 7 7 3 3 3 3 10 10 10 10 10 10 10 10 10 10 10 10 10	8 0 0 0 0	7 3 1 10 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 7 7 3 3 3 10 10 10 10 10 10 10 10 10 10 10 10 10	7 7 3 3 3 3 3 10 10 10 10 10 10 10 10 10 10 10 10 10	8 8 40 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9	8 8 6 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 7 7 3 3 3 10 10 10 10 10 10 10 10 10 10 10 10 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 68 68 68 68 68 68 68 68 68 68 68 68 68	1 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 68 11 0 0 0 0 0 0 0	0 0 1 277 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 8 8 8 8 8 8 6 6 8 6 6 6 6 6 6	8 8 68 11 1 91 91 91 91 91 91 91 91 91 91 91 9	107 336 261 992 1.7 127 243 3.: 0 0 0 0 1,400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	32 3 3 62 10 10 10 10 10 10 10 10 10 10 10 10 10
Hydrants Hydrant Replacement Hydrant Replacement Hydrant Replacement Water Connection Control (utility owned) 336 Cross Connection Control (utility owned) 340 Office Furniture and Equipment Office Furniture and Equipment Billing Software 341 Transportation Equipment Shop Equipment Shop Equipment Shop Equipment 344 Laboratory Equipment Testing Kit Chlorine Analyzer	Jun 1979 Jun 1981 Jun 1981 Jun 1982 Jun 2000 Jul 2003 May 2012 Apr 2007 Apr 2007 Jun 1983 Jan 2007	139 C 398 C 398 C 315 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C	139 4 398 4 316 4 316 4 4 4 4 4 4 4 4 4	0	17 36 36 36 36 36 36 36 3	7	8 0 0 0 0	8 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 0 0 0 0	7 7 7 3 3 3 3 10 10 10 10 10 10 10 10 10 10 10 10 10	8 0 0 0 0	7 7 3 10 10 10 10 10 10 10 10 10 10 10 10 10	7 7 7 3 3 3 3 10 10 10 10 10 8 8 8 8 0 0 0 0 0 0 0 0	7 7 7 3 3 3 3 3 10 10 10 10 10 10 10 10 10 10 10 10 10	8 8 40 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9	8 8 6 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 7 7 3 3 3 1 10 10 10 10 10 10 10 10 10 10 10 10 1	7 3 10 10 10 10 10 10 10 10 10 10 10 10 10	8 68 68 68 68 68 68 68 68 68 68 68 68 68	1 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 68 11 0 0 0 0 0 0 0	0 0 1 277 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 8 8 8 8 8 8 6 6 8 6 6 6 6 6 6	8 8 68 11 1 91 91 91 91 91 91 91 91 91 91 91 9	107 336 261 992 1 127 0 0 0 0 1,400 0 0 1,400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	32 3 3 62 10 10 10 10 10 10 10 10 10 10 10 10 10
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Miscellaneous Equipment																																				
General Equipment	Jan 1994	70	0	70	10	7 Dec 2003	0	0	0	0	0	0	0 0	0	0	7	7	7 7	7	7	7	7	7	7	0	0	0	0	0	0	0	0	0	0 7	0 (0
Tapping Machine	Jan 1994	493	0	493	10	49 Dec 2003		0	0	0	0	0	0 0	0	0	49	49 49	49	49	49	49	49	49	52	0	0	0	0	0	0	0	0	0	0 49	3	0
Miscellaneous Equipment General Equipment Tapping Machine Moving Equipment	Jan 1994	10,008	0	10,008	10	1,001 Dec 2003	0	0	0	0	0	0	0 0	0	0	1,001 1,	001 1,00	1,001	1,001	1,001	1,001	1,001 1,	001	999	0	0	0	0	0	0	0	0	0	0 10,00	/8	0
Pitot Guage w)Case	Jun 2008	106	0	106	15	7 Jun 2023	0	0	0	0	0	0	0 0	0	0	0	0 () 0	0	0	0	0	0	0	0	0	0	4	7	7	7	7	7	7 4	6 6	.0
·	TOTALS	617,442	454,290	163,152		0	10,215	1.281	1.354 1	.702 1.9	1.9	19 1.91	1.919	1.919	1.919	3.009 3.0	09 3.035	3.053	3.053	3.053	3.271	3.579 3.6	98 3.7	76 2.84	5 2.838	2.820	3.358	3.451	3.436	3.500		3,307 3,	361 3,402	2 94.45	53 68,700	0

Original Plant In Service Cost	617,442
Less: Excess Capacity	454,290
"Used & Useful" Plant	163,152
Less Accum Depreciation	94,453
NET PLANT	68,699
2014 Depreciation Expense	3,402
	*

Residential Rate Design

Proposed Residential Revenues: \$89,041 Variable Rate: 40% Variable Revenues: \$35,617
Base Rate: 60% Base Revenues: \$53,425

BASE RATE

									Staff		Staff	
			Current						Proposed	Р	roposed	
	# of	Mo	onthly Base	Re	evenue at		AWWA	Mo	onthly Base	To	tal Annual	
Size of Line	Customers		Rate	Cur	rent Rates	Factors Used	Factors		Rate	R	evenues	% Increase
5/8" x 3/4"	85	\$	28.64	\$	29,213	1	1	\$	41.03	\$	41,854	43%
1"	9	\$	54.25	\$	5,859	2	2.5	\$	82.07	\$	8,863	51%
1.5"	1	\$	82.48	\$	990	3.5	5	\$	143.62	\$	1,723	74%
DM1	2	\$	28.64	\$	687	1	1	\$	41.03	\$	985	43%
TOTAL	97			\$	36,749					\$	53,425	45%

COMMODITY RATE

COMMODITINATE			
Proposed consumption per application:		1,246,800	
Divided by unit of measure:		100 cf	
Equals total consumption:	\$	12,468	
	_		
Proposed Variable Revenue:	\$	35,617	
Divided by consumption:	\$	12,468	
Equals commodity rate:	\$	2.86 per 100 ct	f

CONSUMPTION

	Annual	Annual		Annual
	Consumption	Consumption	New	Consumption
Size of Line	(Test)	per Customer	Customers	(Proposed)
5/8" x 3/4"	967,400	11,381		967,400
1"	233,900	25,989		233,900
1.5"	45,500	45,500		45,500
DM1		-		-
TOTAL	1,246,800	82,870	-	1,246,800

	Current Company Rates													
	Average													
	Average			N	lonthly				Total					
	Monthly	Commod	dity	Commodity				Α	verage					
Size of Line	Usage	Rate			Price		se Rate	Мо	nthly Bill					
5/8" x 3/4"	9.48	\$	3.38	\$	32.04	\$	28.64	\$	60.68					
1"	21.66	\$	3.38	\$	73.16	\$	54.25	\$	127.41					
1.5"	37.92	\$	3.38	\$	128.08	\$	82.48	\$	210.56					
DM1	0.00	\$	3.38	\$	-	\$	28.64	\$	28.64					

	Proposed Company Rates													
Size of Line	Average Monthly Usage	Co	ommodity Rate	١	verage Monthly mmodity Price	E	Base Rate	Α	Total verage onthly Bill					
5/8" x 3/4"	9.48	\$	3.04	\$	28.83	\$	34.45	\$	63.28					
1"	21.66	\$	3.04	\$	65.84	\$	86.13	\$	151.97					
1.5"	37.92	\$	3.04	\$	115.27	\$	131.95	\$	247.22					
DM1	0.00	\$	3.04	\$	-			\$	-					

		Proposed Staff Rates													
				F	Average										
	Average			1	Monthly				Total						
	Monthly	C	ommodity	Co	ommodity			Α	verage						
Size of Line	Usage		Rate		Price		Base Rate	Mo	onthly Bill						
5/8" x 3/4"	9.48	\$	2.86	\$	27.09	\$	41.03	\$	68.13						
1"	21.66	\$	2.86	\$	61.87	\$	82.07	\$	143.93						
1.5"	37.92	\$	2.86	\$	108.31	\$	143.62	\$	251.93						
DM1	0.00	\$	2.86	\$	-	\$	41.03	\$	41.03						

Commercial Rate Design

Proposed Commercial Revenues: \$72,810 Variable Rate: 40% Variable Revenues: \$29,124
Base Rate: 60% Base Revenues: \$43,686

BASE RATES

							Staff	
		Current				Staff Proposed	Proposed	
	# of	Monthly Base	Revenue at		AWWA	Monthly Base	Total Annual	
Size of Line	Customers	Rate	Current Rates	Factors Used	Factors	Rate	Revenues	% Increase
5/8" x 3/4"	18	\$ 28.64	\$ 6,186	1	1	\$ 29.24	\$ 6,316	2%
1"	19	\$ 54.25	\$ 12,369	2.5	2.5	\$ 73.10	\$ 16,667	35%
1 ½"	6	\$ 82.48	\$ 5,939	5	5	\$ 146.20	\$ 10,527	77%
2"	3	\$ 144.34	\$ 5,196	8	8	\$ 233.93	\$ 8,421	62%
DM1*	3	\$ 28.64	\$ 1,031	1	15	\$ 29.24	\$ 1,053	2%
DM2	1	\$ 57.28	\$ 687	2	25	\$ 58.48	\$ 702	2%
TOTAL	50		\$ 31,408				\$ 43,686	39%

^{*}DM1 is a dual meter. One meter is included in the 5/8 and this represents the other meter.

COMMODITY RATE

Proposed consumption per application:	1,003,100
Divided by unit of measure:	100 cf
Equals total consumption:	\$ 10,031
Proposed Variable Revenue:	\$ 29,124
Divided by consumption:	\$ 10,031
Equals commodity rate:	\$ 2.90 per 100 cf

CONSUMPTION

Size of Line	Annual Consumption (Test)	Annual Consumption per Customer	New Customers	Annual Consumption (Proposed)
5/8" x 3/4"	296,500	10,353		296,500
1"	505,800	9,324		505,800
1.5"	128,000	1,552		128,000
2"	72,800	504		72,800
DM1		-		-
DM2		-		-
TOTAL	1,003,100	21,732	-	1,003,100

NAILU	TATE CONFACISON													
	Current Company Rates													
Size of Line	Average Monthly Usage	Commodit Rate		Average Monthly commodity Price	Ba	ase Rate		al Average onthly Bill						
5/8" x 3/4"	13.73	\$ 3.3	38 \$	46.37	\$	28.64	\$	75.01						
1"	22.18	\$ 3.3	38 \$	74.94	\$	54.25	\$	129.19						
1.5"	17.78	\$ 3.3	38 \$	60.05	\$	82.48	\$	142.53						
2"	20.22	\$ 3.3	38 \$	68.31	\$	144.34	\$	212.65						
DM1	0.00	\$ 3.3	38 \$	-	\$	28.64	\$	28.64						
DM2	0.00	\$ 3.3	38 \$	-	\$	57.28	\$	57.28						

	Proposed Company Rates										
Size of	Average Monthly	С	ommodity		Average Monthly ommodity				al Average		
Line	Usage		Rate		Price	Ba	ase Rate	M	onthly Bill		
5/8" x 3/4"	13.73	\$	3.04	\$	41.73	\$	34.45	\$	76.18		
1"	22.18	\$	3.04	\$	67.44	\$	86.13	\$	153.57		
1.5"	17.78	\$	3.04	\$	54.04	\$	131.95	\$	185.99		
2"	20.22	\$	3.04	\$	61.48	\$	230.83	\$	292.31		
DM1	0.00	\$	3.04	\$	-			\$	-		
DM2	0.00	\$	3.04	\$	-			\$	-		

	Proposed Staff Rates											
				-	Average							
	Average				Monthly							
Size of	Monthly	C	ommodity	C	ommodity			Tot	al Average			
Line	Usage		Rate		Price	Ва	ase Rate	М	onthly Bill			
5/8" x 3/4"	13.73	\$	2.90	\$	39.85	\$	29.24	\$	69.10			
1"	22.18	\$	2.90	\$	64.41	\$	73.10	\$	137.51			
1.5"	17.78	\$	2.90	\$	51.62	\$	146.20	\$	197.82			
2"	20.22	\$	2.90	\$	58.71	\$	233.93	\$	292.64			
DM1	0.00	\$	2.90	\$	-	\$	29.24	\$	29.24			
DM2	0.00	\$	2.90	\$	-	\$	58.48	\$	58.48			

Industrial Rate Design

Proposed Industrial Revenues: \$104,286 Variable Rate: 40% Variable Revenues: \$41,715 Base Rate: 60% Base Revenues: \$62,572

BASE RATE

										Staff		Staff	
				Current	Re	evenue at			F	Proposed	P	roposed	1
		# of	М	onthly Base	(Current		AWWA	Mo	onthly Base	Tot	al Annual	%
Size o	f Line	Customers		Rate		Rates	Factors Used	Factors		Rate	Re	evenues	Increase
5/8" x	(3/4"	2	\$	28.64	\$	687	1	1	\$	23.23	\$	557	-19%
1	"	1	\$	54.25	\$	651	2.5	2.5	\$	58.07	\$	697	7%
1.5	5"	1	\$	82.48	\$	990	5	5	\$	116.13	\$	1,394	41%
3	"	1	\$	312.00	\$	3,744	15	15	\$	348.40	\$	4,181	12%
6	"	4	\$	687.31	\$	32,991	50	50	\$	1,161.32	\$	55,743	69%
	TOTAL	9			\$	39,063					\$	62,572	60%

COMMODITY RATE

Proposed Variable Revenue:	Φ.	41,715
Divided by consumption:	Ф \$	41,715 15,370
Equals commodity rate:	\$	2.71 per 100 cf

CONSUMPTION

	Annual	Annual		Annual
	Consumption	Consumption	New	Consumption
Size of Line	(Test)	per Customer	Customers	(Proposed)
5/8" x 3/4"	47,200	23,600		47,200
1"	128,600	128,600		128,600
1.5"	34,600	34,600		34,600
3"	282,600	282,600		282,600
6"	1,044,000	261,000		1,044,000
TOTAL	1,537,000	730,400	-	1,537,000

	Current Company Rates											
	Average Monthly	C	ommodity	Ν	verage Monthly mmodity				Total Average			
Size of Line	Usage		Rate		Price	Е	Base Rate	Mo	onthly Bill			
5/8" x 3/4"	19.67	\$	3.38	\$	66.43	\$	28.64	\$	95.07			
1"	107.17	\$	3.38	\$	362.01	\$	54.25	\$	416.26			
1.5"	28.83	\$	3.38	\$	97.40	\$	82.48	\$	179.88			
3"	235.50	\$	3.38	\$	795.52	\$	312.00	\$	1,107.52			
6"	217.50	\$	3.38	\$	734.72	\$	687.31	\$	1,422.03			

	Proposed Company Rates											
Average												
	Average			1	Monthly				Total			
	Monthly	С	commodity	Co	ommodity			1	Average			
Size of Line	Usage		Rate		Price		Base Rate	Mo	onthly Bill			
5/8" x 3/4"	19.67	\$	3.04	\$	59.79	\$	34.45	\$	94.24			
1"	107.17	\$	3.04	\$	325.79	\$	86.13	\$	411.92			
1.5"	28.83	\$	3.04	\$	87.65	\$	131.95	\$	219.60			
3"	235.50	\$	3.04	\$	715.92	\$	516.79	\$	1,232.71			
6"	217.50	\$	3.04	\$	661.20	\$	1,099.73	\$	1,760.93			

	Proposed Staff Rates											
				Α	verage							
	Average			N	Nonthly				Total			
	Monthly	С	ommodity	Co	mmodity			A	Average			
Size of Line	Usage		Rate		Price	Е	Base Rate	M	onthly Bill			
5/8" x 3/4"	19.67	\$	2.71	\$	53.38	\$	23.23	\$	76.60			
1"	107.17	\$	2.71	\$	290.85	\$	58.07	\$	348.92			
1.5"	28.83	\$	2.71	\$	78.25	\$	116.13	\$	194.39			
3"	235.50	\$	2.71	\$	639.15	\$	348.40	\$	987.55			
6"	217.50	\$	2.71	\$	590.30	\$	1,161.32	\$	1,751.62			

Public Fire Protection Rate Design

Proposed Public Fire Protection Revenues: \$171 Variable Rate: 100% Variable Revenues: \$171

Base Rate: 0% Base Revenues: \$0

BASE RATE

						Staff	Staff	
		Current	Revenue at			Proposed	Proposed	
	# of	Monthly Base	Current		AWWA	Monthly Base	Total Annual	%
Size of Line	Customers	Rate	Rates	Factors Used	Factors	Rate	Revenues	Increase
4" or smaller	1		\$0	1	1	\$0.00	\$0	0%
6"			\$0		1	\$0.00	\$0	0%
8"			\$0		2.5	\$0.00	\$0	0%
10"			\$0		5	\$0.00	\$0	0%
12"			\$0		8	\$0.00	\$0	0%
Private Fire Protection			\$0		15	\$0.00	\$0	0%
Hydrant & Maintenance			\$0		50	\$0.00	\$0	0%
TOTAL	1		\$0				\$0	0%

COMMODITY RATE

Proposed consumption per app	lication: 5,700
Divided by unit of m	easure: 100 cf
Equals total consu	mption: \$57
Proposed Variable Re	evenue: \$171
Divided by consu	mption: \$57
Equals commodi	ty rate: \$3.00 per 100 cf

CONSUMPTION

Size of Line	Annual Consumption (Test)	Annual Consumption per Customer	New Customers	Annual Consumption (Proposed)
4" or smaller	5,700	-		5,700
6"		-		-
8"		-		-
10"		-		-
12"		-		-
Private Fire Protection		-		-
Hydrant & Maintenance		-		-
TOTAL	5,700	-	-	5,700

	Current Company Rates											
Size of Line	Average Monthly Usage	Commodity Rate	Average Monthly Commodity Price	Base Rate	Total Average Monthly Bill							
4" or smaller	4.75	3,378	16.0455	\$0.00	\$16.05							
6"	0	0.010	0	\$0.00	\$0.00							
8"	0		0	\$0.00	\$0.00							
10"	0		0	\$0.00	\$0.00							
12"	0		0	\$0.00	\$0.00							
Private Fire Protection	0		0	\$0.00	\$0.00							
Hydrant & Maintenance	0		0	\$0.00	\$0.00							

	Prop	osed Compa	ny Rates		
Size of Line	Average Monthly Usage	Commodity Rate	Average Monthly Commodity Price	Base Rate	Total Average Monthly Bill
4" or smaller	4.75		0		\$0.00
6"	0		0		\$0.00
8"	0		0		\$0.00
10"	0		0		\$0.00
12"	0		0		\$0.00
Private Fire Protection	0		0		\$0.00
Hydrant & Maintenance	0		0		\$0.00

	Pr	oposed Staff	Rates								
			Average								
	Average		Monthly								
	Monthly	Commodity	Commodity		Total Average						
Size of Line	Usage	Rate	Price	Base Rate	Monthly Bill						
4" or smaller	4.75	\$3.00	14.22873839	\$0.00	\$14.23						
6"	0	\$3.00	0	\$0.00	\$0.00						
8"	0	\$3.00	0	\$0.00	\$0.00						
10"	0	\$3.00	0	\$0.00	\$0.00						
12"	0	\$3.00	0	\$0.00	\$0.00						
Private Fire Protection	0	\$3.00	0	\$0.00	\$0.00						
Hydrant & Maintenance	0	\$3.00	0	\$0.00	\$0.00						

Private Fire Protection Rate Design

Proposed Private Fire Protection Revenues: \$4,012 Variable Rate: 0% Variable Revenues: \$0 Base Rate: 100% Base Revenues: \$4,012

BASE RATE

						Staff	Staff	
		Current	Revenue at			Proposed	Proposed	
	# of	Monthly Base	Current		AWWA	Monthly Base	Total Annual	%
Size of Line	Customers	Rate	Rates	Factors Used	Factors	Rate	Revenues	Increase
4" or smaller	7	\$20.30	\$1,705	1	1	\$30.39	\$2,553	50%
6"	2	\$43.56	\$1,045	2	1	\$60.78	\$1,459	40%
8"			\$0		2.5	\$0.00	\$0	0%
10"			\$0		5	\$0.00	\$0	0%
12"			\$0		8	\$0.00	\$0	0%
Private Fire Protection			\$0		15	\$0.00	\$0	0%
Hydrant & Maintenance			\$0		50	\$0.00	\$0	0%
TOTAL	9		\$2,751				\$4,012	46%

COMMODITY RATE

Equals commodity rate:	\$2.90 per 100 cf
Divided by consumption:	\$0
Proposed Variable Revenue:	\$0
Equals total consumption:	\$0
Divided by unit of measure:	100 cf
Proposed consumption per application:	0

CONSUMPTION

	Annual	Annual		Annual
	Consumption	Consumption	New	Consumption
Size of Line	(Test)	per Customer	Customers	(Proposed)
4" or smaller		-		-
6"		-		-
8"		-		-
10"		-		-
12"		-		-
Private Fire Protection		-		-
Hydrant & Maintenance		-		-
TOTAL	-	-	-	-

KATE COM ANICON											
Current Company Rates											
Size of Line	Average Monthly Usage	Commodity Rate	Average Monthly Commodity Price	Base Rate	Total Average Monthly Bill						
4" or smaller	0	3.378	0	\$20.30	\$20.30						
6"	0	3.378	0	\$43.56	\$43.56						
8"	0		0	\$0.00	\$0.00						
10"	0		0	\$0.00	\$0.00						
12"	0		0	\$0.00	\$0.00						
Private Fire Protection	0		0	\$0.00	\$0.00						
Hydrant & Maintenance	0		0	\$0.00	\$0.00						

	Prop	osed Compa	ny Rates		
Size of Line	Average Monthly Usage	Commodity Rate	Average Monthly Commodity Price	Base Rate	Total Average Monthly Bill
4" or smaller	0		0	\$30.45	\$30.45
6"	0		0	\$60.90	\$60.90
8"	0		0		\$0.00
10"	0		0		\$0.00
12"	0		0		\$0.00
Private Fire Protection	0		0		\$0.00
Hydrant & Maintenance	0		0		\$0.00

	Proposed Staff Rates										
			Average								
	Average		Monthly								
	Monthly	Commodity	Commodity		Total Average						
Size of Line	Usage	Rate	Price	Base Rate	Monthly Bill						
4" or smaller	0	\$2.90	0	\$30.39	\$30.39						
6"	0	\$2.90	0	\$60.78	\$60.78						
8"	0	\$2.90	0	\$0.00	\$0.00						
10"	0	\$2.90	0	\$0.00	\$0.00						
12"	0	\$2.90	0	\$0.00	\$0.00						
Private Fire Protection	0	\$2.90	0	\$0.00	\$0.00						
Hydrant & Maintenance	0	\$2.90	0	\$0.00	\$0.00						

Residential Rate Impact

Residential 5/8" x 3/4"

	Monthly Consumptions Customer Usage	Current Base Rate	Monthly Consumptions Customer Usage	Current Commodity Rate	Total Current Average Monthly Bill	Staff Proposed Customer Base Rate	Proposed Commodity Rate per 100 cf	Usage Factor	Total Proposed Monthly Bill	Difference
	0	\$28.64	0	\$3.38	\$28.64	\$41.03	\$2.86	0	\$41.03	\$12.39
Average	948	\$28.64	9.48	\$3.38	\$60.68	\$41.03	\$2.86	9.48	\$68.13	\$7.45
•	1000	\$28.64	10	\$3.38	\$62.42	\$41.03	\$2.86	10	\$69.60	\$7.18
	2000	\$28.64	20	\$3.38	\$96.20	\$41.03	\$2.86	20	\$98.17	\$1.97
	3000	\$28.64	30	\$3.38	\$129.98	\$41.03	\$2.86	30	\$126.73	(\$3.25)
	4000	\$28.64	40	\$3.38	\$163.76	\$41.03	\$2.86	40	\$155.30	(\$8.46)
	5000	\$28.64	50	\$3.38	\$197.54	\$41.03	\$2.86	50	\$183.86	(\$13.68)
	6000	\$28.64	60	\$3.38	\$231.32	\$41.03	\$2.86	60	\$212.43	(\$18.89)
	8000	\$28.64	80	\$3.38	\$298.88	\$41.03	\$2.86	80	\$269.56	(\$29.32)
	10000	\$28.64	100	\$3.38	\$366.44	\$41.03	\$2.86	100	\$326.70	(\$39.74)

Residential 1"

	Monthly		Monthly			Staff				
	Consumptions	Current	Consumptions		Total Current	Proposed	Proposed		Total	
	Customer	Base	Customer	Current	Average	Customer	Commodity Rate		Proposed	
	Usage	Rate	Usage	Commodity Rate	Monthly Bill	Base Rate	per 100 cf	Usage Factor	Monthly Bill	Difference
	0	\$54.25	0	\$3.38	\$54.25	\$82.07	\$2.86	0	\$82.07	\$27.82
	1000	\$54.25	10	\$3.38	\$88.03	\$82.07	\$2.86	10	\$110.63	\$22.60
	2000	\$54.25	20	\$3.38	\$121.81	\$82.07	\$2.86	20	\$139.20	\$17.39
Average	2166	\$54.25	21.66	\$3.38	\$127.41	\$82.07	\$2.86	21.66	\$143.93	\$16.52
,	3000	\$54.25	30	\$3.38	\$155.59	\$82.07	\$2.86	30	\$167.77	\$12.18
	4000	\$54.25	40	\$3.38	\$189.37	\$82.07	\$2.86	40	\$196.33	\$6.96
	5000	\$54.25	50	\$3.38	\$223.15	\$82.07	\$2.86	50	\$224.90	\$1.75
	6000	\$54.25	60	\$3.38	\$256.93	\$82.07	\$2.86	60	\$253.46	(\$3.47)
	8000	\$54.25	80	\$3.38	\$324.49	\$82.07	\$2.86	80	\$310.60	(\$13.89)
	10000	\$54.25	100	\$3.38	\$392.05	\$82.07	\$2.86	100	\$367.73	(\$24.32)

Residential 1.5"

Residential 1.5"										
	Monthly		Monthly			Staff				
	Consumptions	Current	Consumptions		Total Current	Propos			Total	
	Customer	Base	Customer	Current	Average	Custon	er Commodity Rate		Proposed	
	Usage	Rate	Usage	Commodity Rate	Monthly Bill	Base R	ate per 100 cf	Usage Factor	Monthly Bill	Difference
	0	\$82.48	0	\$3.38	\$82.48	\$143.6	2 \$2.86	0	\$143.62	\$61.14
	1000	\$82.48	10	\$3.38	\$116.26	\$143.6	2 \$2.86	10	\$172.18	\$55.92
	2000	\$82.48	20	\$3.38	\$150.04	\$143.6	2 \$2.86	20	\$200.75	\$50.71
	3000	\$82.48	30	\$3.38	\$183.82	\$143.6	2 \$2.86	30	\$229.31	\$45.49
Average	3792	\$82.48	37.92	\$3.38	\$210.56	\$143.6	2 \$2.86	37.92	\$251.93	\$41.37
	4000	\$82.48	40	\$3.38	\$217.60	\$143.6	2 \$2.86	40	\$257.88	\$40.28
	5000	\$82.48	50	\$3.38	\$251.38	\$143.6	2 \$2.86	50	\$286.45	\$35.07
	6000	\$82.48	60	\$3.38	\$285.16	\$143.6	2 \$2.86	60	\$315.01	\$29.85
	8000	\$82.48	80	\$3.38	\$352.72	\$143.6	2 \$2.86	80	\$372.15	\$19.43
	10000	\$82.48	100	\$3.38	\$420.28	\$143.6	2 \$2.86	100	\$429.28	\$9.00

Commercial Rate Impact

Commercial 5/8" x 3/4"

	Monthly Consumptions	Current	Monthly Consumptions		Total Current	Staff Proposed	Proposed		Total	
	Customer	Base	Customer	Current	Average	Customer	Commodity Rate	Usage	Proposed	
	Usage	Rate	Usage	Commodity Rate	Monthly Bill	Base Rate	per 100 cf	Factor	Monthly Bill	Difference
	0	\$28.64	0	\$3.38	\$28.64	\$29.24	\$2.90	0	\$29.24	\$0.60
	1000	\$28.64	10	\$3.38	\$62.42	\$29.24	\$2.90	10	\$58.27	(\$4.15)
Average	1373	\$28.64	13.73	\$3.38	\$75.01	\$29.24	\$2.90	13.73	\$69.10	(\$5.91)
	2000	\$28.64	20	\$3.38	\$96.20	\$29.24	\$2.90	20	\$87.31	(\$8.89)
	3000	\$28.64	30	\$3.38	\$129.98	\$29.24	\$2.90	30	\$116.34	(\$13.64)
	4000	\$28.64	40	\$3.38	\$163.76	\$29.24	\$2.90	40	\$145.38	(\$18.38)
	5000	\$28.64	50	\$3.38	\$197.54	\$29.24	\$2.90	50	\$174.41	(\$23.13)
	6000	\$28.64	60	\$3.38	\$231.32	\$29.24	\$2.90	60	\$203.44	(\$27.88)
	8000	\$28.64	80	\$3.38	\$298.88	\$29.24	\$2.90	80	\$261.51	(\$37.37)
	10000	\$28.64	100	\$3.38	\$366.44	\$29.24	\$2.90	100	\$319.58	(\$46.86)

Commercial 1"

r					ſ		·			1
	Monthly		Monthly			Staff				
	Consumptions	Current	Consumptions		Total Current	Proposed	Proposed		Total	
	Customer	Base	Customer	Current	Average	Customer	Commodity Rate	Usage	Proposed	
	Usage	Rate	Usage	Commodity Rate	Monthly Bill	Base Rate	per 100 cf	Factor	Monthly Bill	Difference
	0	\$54.25	0	\$3.38	\$54.25	\$73.10	\$2.90	0	\$73.10	\$18.85
	1000	\$54.25	10	\$3.38	\$88.03	\$73.10	\$2.90	10	\$102.14	\$14.11
	2000	\$54.25	20	\$3.38	\$121.81	\$73.10	\$2.90	20	\$131.17	\$9.36
Average	2218	\$54.25	22.18	\$3.38	\$129.19	\$73.10	\$2.90	22.18	\$137.51	\$8.32
	3000	\$54.25	30	\$3.38	\$155.59	\$73.10	\$2.90	30	\$160.20	\$4.61
	4000	\$54.25	40	\$3.38	\$189.37	\$73.10	\$2.90	40	\$189.24	(\$0.13)
	5000	\$54.25	50	\$3.38	\$223.15	\$73.10	\$2.90	50	\$218.27	(\$4.88)
	6000	\$54.25	60	\$3.38	\$256.93	\$73.10	\$2.90	60	\$247.31	(\$9.62)
	8000	\$54.25	80	\$3.38	\$324.49	\$73.10	\$2.90	80	\$305.37	(\$19.12)
	10000	\$54.25	100	\$3.38	\$392.05	\$73.10	\$2.90	100	\$363.44	(\$28.61)

Commercial 1.5"

	Monthly Consumptions Customer Usage	Current Base Rate	Monthly Consumptions Customer Usage	Current Commodity Rate	Total Current Average Monthly Bill	Staff Proposed Customer Base Rate		Usage Factor	Total Proposed Monthly Bill	
	0 1000	\$82.48 \$82.48	0 10	\$3.38 \$3.38	\$82.48 \$116.26	\$146.20 \$146.20	\$2.90 \$2.90	0 10	\$146.20 \$175.24	\$63.72 \$58.98
Average		\$82.48	17.78	\$3.38	\$142.53	\$146.20	\$2.90	17.78	\$197.82	\$55.29
	2000	\$82.48	20	\$3.38	\$150.04	\$146.20	\$2.90	20	\$204.27	\$54.23
	3000	\$82.48	30	\$3.38	\$183.82	\$146.20	\$2.90	30	\$233.31	\$49.49
	4000	\$82.48	40	\$3.38	\$217.60	\$146.20	\$2.90	40	\$262.34	\$44.74
	5000	\$82.48	50	\$3.38	\$251.38	\$146.20	\$2.90	50	\$291.37	\$39.99
	6000	\$82.48	60	\$3.38	\$285.16	\$146.20	\$2.90	60	\$320.41	\$35.25
	8000	\$82.48	80	\$3.38	\$352.72	\$146.20	\$2.90	80	\$378.48	\$25.76
	10000	\$82.48	100	\$3.38	\$420.28	\$146.20	\$2.90	100	\$436.54	\$16.26

Commercial 2"

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	Monthly		Monthly			Staff				
	Consumptions	Current	Consumptions		Total Current	Proposed	Proposed		Total	
	Customer	Base	Customer	Current	Average	Customer	Commodity Rate	Usage	Proposed	
	Usage	Rate	Usage	Commodity Rate	Monthly Bill	Base Rate	per 100 cf	Factor	Monthly Bill	Difference
	0	\$144.34	0	\$3.38	\$144.34	\$233.93	\$2.90	0	\$233.93	\$89.59
	1000	\$144.34	10	\$3.38	\$178.12	\$233.93	\$2.90	10	\$262.96	\$84.84
	2000	\$144.34	20	\$3.38	\$211.90	\$233.93	\$2.90	20	\$291.99	\$80.09
Average	2022	\$144.34	20.22	\$3.38	\$212.65	\$233.93	\$2.90	20.22	\$292.64	\$79.99
	3000	\$144.34	30	\$3.38	\$245.68	\$233.93	\$2.90	30	\$321.03	\$75.35
	4000	\$144.34	40	\$3.38	\$279.46	\$233.93	\$2.90	40	\$350.06	\$70.60
	5000	\$144.34	50	\$3.38	\$313.24	\$233.93	\$2.90	50	\$379.10	\$65.86
	6000	\$144.34	60	\$3.38	\$347.02	\$233.93	\$2.90	60	\$408.13	\$61.11
	8000	\$144.34	80	\$3.38	\$414.58	\$233.93	\$2.90	80	\$466.20	\$51.62
	10000	\$144.34	100	\$3.38	\$482.14	\$233.93	\$2.90	100	\$524.27	\$42.13

Industrial Rate Impact

Industrial 5/8" x 3/4"

	Monthly Consumptions Customer Usage 0 1000	Current Base Rate 28.64 28.64	Monthly Consumptions Customer Usage 0 10	Current Commodity Rate \$3.38 \$3.38	Total Current Average Monthly Bill \$28.64 \$62.42	Staff Proposed Customer Base Rate \$23.23 \$23.23	Proposed Commodity Rate per 100 cf \$2.71 \$2.71	Usage Factor 0 10	Total Proposed Monthly Bill \$23.23 \$50.37	Difference (\$5.41) (\$12.05)
Average	1967	28.64	19.67	\$3.38	\$95.07	\$23.23	2.71	19.67	\$76.60	(\$18.47)
	2000	28.64	20	\$3.38	\$96.20	\$23.23	\$2.71	20	\$77.51	(\$18.69)
	3000	28.64	30	\$3.38	\$129.98	\$23.23	\$2.71	30	\$104.65	(\$25.33)
	4000	28.64	40	\$3.38	\$163.76	\$23.23	\$2.71	40	\$131.79	(\$31.97)
	5000	28.64	50	\$3.38	\$197.54	\$23.23	\$2.71	50	\$158.93	(\$38.61)
	6000	28.64	60	\$3.38	\$231.32	\$23.23	\$2.71	60	\$186.07	(\$45.25)
	8000	28.64	80	\$3.38	\$298.88	\$23.23	\$2.71	80	\$240.35	(\$58.53)
	10000	28.64	100	\$3.38	\$366.44	\$23.23	\$2.71	100	\$294.63	(\$71.81)

Industrial 1"

	Monthly					Staff				
	Consumptions	Current	Monthly		Total Current	Proposed	Proposed		Total	
	Customer	Base	Consumptions	Current	Average	Customer	Commodity Rate		Proposed	
	Usage	Rate	Customer Usage	Commodity Rate	Monthly Bill	Base Rate	per 100 cf	Usage Factor	Monthly Bill	Difference
	0	\$54.25	0	\$3.38	\$54.25	\$58.07	\$2.71	0	\$58.07	\$3.82
	2000	\$54.25	20	\$3.38	\$121.81	\$58.07	\$2.71	20	\$112.35	(\$9.46)
	4000	\$54.25	40	\$3.38	\$189.37	\$58.07	\$2.71	40	\$166.63	(\$22.74)
	6000	\$54.25	60	\$3.38	\$256.93	\$58.07	\$2.71	60	\$220.91	(\$36.02)
	8000	\$54.25	80	\$3.38	\$324.49	\$58.07	\$2.71	80	\$275.19	(\$49.30)
	10000	\$54.25	100	\$3.38	\$392.05	\$58.07	\$2.71	100	\$329.47	(\$62.58)
Average	10717	\$54.25	107.17	\$3.38	\$416.26	\$58.07	\$2.71	107.17	\$348.92	(\$67.34)
	12000	\$54.25	120	\$3.38	\$459.61	\$58.07	\$2.71	120	\$383.75	(\$75.86)
	14000	\$54.25	140	\$3.38	\$527.17	\$58.07	\$2.71	140	\$438.03	(\$89.14)
	16000	\$54.25	160	\$3.38	\$594.73	\$58.07	\$2.71	160	\$492.31	(\$102.42)

Industrial 1.5"

	Monthly					Staff				
	Consumptions	Current	Monthly		Total Current	Proposed	Proposed		Total	
	Customer	Base	Consumptions	Current	Average	Customer	Commodity Rate		Proposed	
	Usage	Rate	Customer Usage	Commodity Rate	Monthly Bill	Base Rate	per 100 cf	Usage Factor	Monthly Bill	Difference
	0	\$82.48	0	\$3.38	\$82.48	\$116.13	\$2.71	0	\$116.13	\$33.65
	1000	\$82.48	10	\$3.38	\$116.26	\$116.13	\$2.71	10	\$143.27	\$27.01
	2000	\$82.48	20	\$3.38	\$150.04	\$116.13	\$2.71	20	\$170.41	\$20.37
Average	2883	\$82.48	28.83	\$3.38	\$179.88	\$116.13	\$2.71	28.83	\$194.39	\$14.51
	3000	\$82.48	30	\$3.38	\$183.82	\$116.13	\$2.71	30	\$197.55	\$13.73
	4000	\$82.48	40	\$3.38	\$217.60	\$116.13	\$2.71	40	\$224.69	\$7.09
	5000	\$82.48	50	\$3.38	\$251.38	\$116.13	\$2.71	50	\$251.83	\$0.45
	6000	\$82.48	60	\$3.38	\$285.16	\$116.13	\$2.71	60	\$278.97	(\$6.19)
	8000	\$82.48	80	\$3.38	\$352.72	\$116.13	\$2.71	80	\$333.25	(\$19.47)
	10000	\$82.48	100	\$3.38	\$420.28	\$116.13	\$2.71	100	\$387.53	(\$32.75)

Industrial 3"

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	Monthly					Staff				
	Consumptions	Current	Monthly		Total Current	Proposed	Proposed		Total	
	Customer	Base	Consumptions	Current	Average	Customer	Commodity Rate		Proposed	
	Usage	Rate	Customer Usage	Commodity Rate	Monthly Bill	Base Rate	per 100 cf	Usage Factor	Monthly Bill	Difference
	0	\$312.00	0	\$3.38	\$312.00	\$348.40	\$2.71	0	\$348.40	\$36.40
	4000	\$312.00	40	\$3.38	\$447.12	\$348.40	\$2.71	40	\$456.96	\$9.84
	8000	\$312.00	80	\$3.38	\$582.24	\$348.40	\$2.71	80	\$565.52	(\$16.72)
	12000	\$312.00	120	\$3.38	\$717.36	\$348.40	\$2.71	120	\$674.08	(\$43.28)
	16000	\$312.00	160	\$3.38	\$852.48	\$348.40	\$2.71	160	\$782.64	(\$69.84)
	20000	\$312.00	200	\$3.38	\$987.60	\$348.40	\$2.71	200	\$891.20	(\$96.40)
Average	23550	\$312.00	235.50	\$3.38	\$1,107.52	\$348.40	\$2.71	235.50	\$987.55	(\$119.97)
	24000	\$312.00	240	\$3.38	\$1,122.72	\$348.40	\$2.71	240	\$999.76	(\$122.96)
	28000	\$312.00	280	\$3.38	\$1,257.84	\$348.40	\$2.71	280	\$1,108.32	(\$149.52)
	32000	\$312.00	320	\$3.38	\$1,392.96	\$348.40	\$2.71	320	\$1,216.88	(\$176.08)

Industrial 6"

1	Monthly		I		T	Staff			ı	1
	Consumptions	Current	Monthly		Total Current	Proposed	Proposed		Total	
	Customer	Base	Consumptions	Current	Average	Customer	Commodity Rate		Proposed	
	Usage	Rate	Customer Usage		Monthly Bill	Base Rate	per 100 cf	Usage Factor	Monthly Bill	Difference
	0	\$687.31	0	\$3.38	\$687.31	\$1,161.32	\$2.71	0	\$1,161.32	\$474.01
	4000	\$687.31	40	\$3.38	\$822.43	\$1,161.32	\$2.71	40	\$1,269.88	\$447.45
	8000	\$687.31	80	\$3.38	\$957.55	\$1,161.32	\$2.71	80	\$1,378.44	\$420.89
	12000	\$687.31	120	\$3.38	\$1,092.67	\$1,161.32	\$2.71	120	\$1,487.00	\$394.33
	16000	\$687.31	160	\$3.38	\$1,227.79	\$1,161.32	\$2.71	160	\$1,595.56	\$367.77
	20000	\$687.31	200	\$3.38	\$1,362.91	\$1,161.32	\$2.71	200	\$1,704.12	\$341.21
Average	21750	\$687.31	217.50	\$3.38	\$1,422.03	\$1,161.32	\$2.71	217.50	\$1,751.62	\$329.59
	23550	\$687.31	235.5	\$3.38	\$1,482.83	\$1,161.32	\$2.71	235.5	\$1,800.47	\$317.64
	24000	\$687.31	240	\$3.38	\$1,498.03	\$1,161.32	\$2.71	240	\$1,812.68	\$314.65
	28000	\$687.31	280	\$3.38	\$1,633.15	\$1,161.32	\$2.71	280	\$1,921.25	\$288.10

Public Fire Protection Rate Impact

Fire 4"or smaller

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	Monthly		Monthly			Staff				
	Consumptions	Current	Consumptions		Total Current	Proposed	Proposed		Total	
	Customer	Base	Customer	Current	Average	Customer	Commodity Rate	Usage	Proposed	
	Usage	Rate	Usage	Commodity Rate	Monthly Bill	Base Rate	per 100 gal	Factor	Monthly Bill	Difference
	0	\$0.00	0	\$3.38	\$0.00	\$0.00	\$3.00	0	\$0.00	\$0.00
	100	\$0.00	1	\$3.38	\$3.38	\$0.00	\$3.00	1	\$3.00	(\$0.38)
	350	\$0.00	3.5	\$3.38	\$11.82	\$0.00	\$3.00	3.5	\$10.48	(\$1.34)
Average	475	\$0.00	4.75	\$3.38	\$16.05	\$0.00	\$3.00	4.75	\$14.23	(\$1.82)
	600	\$0.00	6	\$3.38	\$20.27	\$0.00	\$3.00	6	\$17.97	(\$2.29)
	850	\$0.00	8.5	\$3.38	\$28.71	\$0.00	\$3.00	8.5	\$25.46	(\$3.25)
	1100	\$0.00	11	\$3.38	\$37.16	\$0.00	\$3.00	11	\$32.95	(\$4.21)
	1350	\$0.00	13.5	\$3.38	\$45.60	\$0.00	\$3.00	13.5	\$40.44	(\$5.16)
	1600	\$0.00	16	\$3.38	\$54.05	\$0.00	\$3.00	16	\$47.93	(\$6.12)
	1850	\$0.00	18.5	\$3.38	\$62.49	\$0.00	\$3.00	18.5	\$55.42	(\$7.08)

Private Fire Protection Rate Impact

Fire 4"or smaller

	Monthly Consumptions	Current	Monthly Consumptions		Total Current	Staff Proposed	Proposed		Total	
	Customer Usage	Base Rate	Customer Usage	Current Commodity Rate	Average Monthly Bill	Customer Base Rate	Commodity Rate per 100 gal	Usage Factor	Proposed Monthly Bill	Difference
Average	-	20.3	0	\$3.38	\$20.30	\$30.39	\$2.90	0	\$30.39	\$10.09
	0	20.3	0	\$3.38	\$20.30	\$30.39	\$2.90	0	\$30.39	\$10.09
	1000	20.3	10	\$3.38	\$54.08	\$30.39	\$2.90	10	\$59.42	\$5.34
	2000	20.3	20	\$3.38	\$87.86	\$30.39	\$2.90	20	\$88.46	\$0.60
	3000	20.3	30	\$3.38	\$121.64	\$30.39	\$2.90	30	\$117.49	(\$4.15)
	4000	20.3	40	\$3.38	\$155.42	\$30.39	\$2.90	40	\$146.53	(\$8.89)
	5000	20.3	50	\$3.38	\$189.20	\$30.39	\$2.90	50	\$175.56	(\$13.64)
	6000	20.3	60	\$3.38	\$222.98	\$30.39	\$2.90	60	\$204.59	(\$18.39)
	8000	20.3	80	\$3.38	\$290.54	\$30.39	\$2.90	80	\$262.66	(\$27.88)
	10000	20.3	100	\$3.38	\$358.10	\$30.39	\$2.90	100	\$320.73	(\$37.37)

Fire 6"

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	Monthly Consumptions	Current	Monthly Consumptions		Total Current	Staff Proposed	Proposed		Total	
	Customer	Base	Customer	Current	Average	Customer	Commodity Rate	Usage	Proposed	
	Usage	Rate	Usage	Commodity Rate	Monthly Bill	Base Rate	per 100 gal	Factor	Monthly Bill	Difference
Average	0	43.56	0	\$3.38	\$43.56	\$60.78	\$2.90	0	\$60.78	\$17.22
	0	43.56	0	\$3.38	\$43.56	\$0.00	\$2.90	0	\$0.00	(\$43.56)
	1000	43.56	10	\$3.38	\$77.34	\$0.00	\$2.90	10	\$29.03	(\$48.31)
	2000	43.56	20	\$3.38	\$111.12	\$0.00	\$2.90	20	\$58.07	(\$53.05)
	3000	43.56	30	\$3.38	\$144.90	\$0.00	\$2.90	30	\$87.10	(\$57.80)
	4000	43.56	40	\$3.38	\$178.68	\$0.00	\$2.90	40	\$116.14	(\$62.54)
	5000	43.56	50	\$3.38	\$212.46	\$0.00	\$2.90	50	\$145.17	(\$67.29)
	6000	43.56	60	\$3.38	\$246.24	\$0.00	\$2.90	60	\$174.20	(\$72.04)
	8000	43.56	80	\$3.38	\$313.80	\$0.00	\$2.90	80	\$232.27	(\$81.53)
	10000	43.56	100	\$3.38	\$381.36	\$0.00	\$2.90	100	\$290.34	(\$91.02)

CASE: UW 161 WITNESS: GREG MILLER

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 102

Witness Qualifications Statement

WITNESS QUALIFICATION STATEMENT

NAME: GREG MILLER

EMPLOYER: PUBLIC UTILTY COMMISSION OF OREGON

TITLE: Utility Analyst, Telecommunications and Water Division.

ADDRESS: 3930 Fairview Industrial Drive SE, Salem, OR 97302

P.O. Box 1088, Salem, OR 97308-1088.

EDUCATION: Bachelor of Science, Business/Finance, Oregon State

University

EXPERIENCE: Employed with the Oregon Public Utility Commission

since 2013. I am currently a Water Utility Analyst for the

Telecommunications and Water Division Section.

Employed by Oregon Housing and Community Services

as a Program Analyst from 2012 to 2013.

Licensed Tax Preparer in the State of Oregon.