

Public Utility Commission

201 High St SE Suite 100

Salem, OR 97301

Mailing Address: PO Box 1088

Salem, OR 97308-1088

Consumer Services

1-800-522-2404

Local: 503-378-6600

Administrative Services

503-373-7394

May 3, 2018

Via Electronic Filing

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

RE: <u>Docket No. UW 174</u> – In the Matter of GOVERNMENT CAMP WATER COMPANY, INC., Request for a General Rate Revision.

Attached for filing are the following exhibits: UW 174 Exhibit 100_105 Brock and UW 174 Exhibit 200_207 Muldoon

Included with this filing are six exhibits/work papers.

/s/ Kay Barnes
Kay Barnes
PUC- Utility Program
(503) 378-5763
kay.barnes@state.or.us

CASE: UW 174 WITNESS: MALIA BROCK

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 100

Direct Testimony

May 3, 2017

1 **INTRODUCTION** 2 Q. PLEASE STATE YOUR NAME, OCCUPATION, AND BUSINESS 3 ADDRESS. 4 A. My name is Malia Brock. I am a Utility Analyst in the Telecommunications and Water Division of the Utility Program for the Public Utility Commission of 5 6 Oregon (Commission). My business address is 201 High Street SE, Suite 100, 7 Salem, Oregon 97301. 8 Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND WORK 9 EXPERIENCE. 10 A. My Witness Qualification Statement is found in Exhibit Staff/101. Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY? 11 12 A. The purpose of my testimony is to describe the Public Utility Commission of 13 Oregon Staff's (Staff) recommendations regarding Government Camp Water 14 Company, Inc. (GCW or Company) request for a general rate revision in 15 Docket UW 174. In my testimony I will address the following issues: 16 Issue 1 ---- Staff's Summary Recommendation...... 3 17 Issue 2 ---- GCW's Description and Regulatory History...... 3 18 19 20 21 22 23 24 25 26 27 28

1	Table 7 GCW's Proposed Fire Protection Rate
2 3	Table 8 GCW's Proposed Average Bills, Consumption, and Revenue19 Table 9 Billing Records Excerpted from DR 12
4	Table 9 Billing Records Excerpted from DR 12 Table 10 - Billing Records Excerpted from DR 12
5	Table 11 - Billing Records Excerpted from DR 58
6	Table 12 - Recommended Cost of Capital
7	Table 13 - Rate Spread4
8	Table 14 - Staff Proposed Metered Rates4
9	Table 15 - Staff Proposed Flat Rates 4
10	Table 16 - Staff Proposed Commodity Rate4
1	Table 17 - Staff Proposed Water Hauler Rate 49
12	Table 18 - Staff Proposed Fire Hydrant Rate 49
13	Table 19 - Staff Proposed Average Bills and Consumption 5
4	Exhibit 101 Witness QualificationBrock/1-
15	Exhibit 102 Revenue RequirementBrock/
16	Exhibit 103 Adjustment SummaryBrock/
7	Exhibit 104 PlantBrock/1-:
18	Exhibit 105 Data Responses & Supporting Documentation Brock/1-7
19	Q. WHO IS TESTIFYING IN THIS DOCKET?
20	A. I am testifying as the primary and summary Staff witness in UW 174. Mr. Matt
21	Muldoon will provide additional testimony in Staff/200 regarding cost of capital
22	issues.
23	Q. DID YOU PREPARE EXHIBITS FOR THIS DOCKET?
24	A. Yes. I prepared Exhibit Staff/101, consisting of two pages, Exhibit Staff/102,
25	consisting of one page, Exhibit Staff/103, consisting of one page, Exhibit
26	Staff/104, consisting of two pages, and Exhibit/Staff 105, consisting of
7	72 pages

ISSUE 1: STAFF'S SUMMARY RECOMMENDATION

Q. What is Staff's summary recommendation?

A. Staff recommends a revenue requirement of \$173,386, as compared to GCW's request of \$306,290, resulting in an annual revenue decrease of \$3,008 or 1.71 percent below the Company's 2016 Test Year revenues, with an 8.52 percent rate of return on a rate base of \$492,186. The calculation of Staff's revenue requirement is shown in Exhibit Staff/102.

Q. What are the major issues affecting Staff's summary recommendation?

A. The major reasons for the differences in the positions taken by Staff and the Company include: several unapproved affiliated interest agreements, issues with the Company's accounting and consumption records, substantial changes to salaries and other costs proposed by the Company that have not been established to be reasonable or necessary for providing service. As discussed in more detail below, Staff anticipates that its recommendations may change if the affiliated interest agreements that have yet to be approved are later approved for amounts that are reasonable and consistent with Commission policy.

ISSUE 2: GCW'S DESCRIPTION AND REGULATORY HISTORY

Q. Please describe Government Camp Water Company, Inc.

A. GCW is a rate and service regulated investor-owned water utility located in Government Camp, Oregon. Government Camp is a small, unincorporated winter resort community located near Mt. Hood. As there is no municipal water system serving this area, GCW is the major water provider and currently

serves 660 water customers.¹ GCW provides water service to local resorts, Skibowl and Mt. Hood Lodge and Resort, as well as local hotels, restaurants and businesses supporting this resort community. GCW also provides water service to a seasonal residential population and a permanent local population that is estimated to be between 190 and 260 people.

GCW's water source is a captured artesian spring located on federal land supplying an abundance of gravity fed water.² GCW possesses a water right dating back to September of 1908, which allows 4.5 cubic feet per second (cfs) of water appropriation.³

GCW has two storage tanks: one is a 100,000 gallon tank, which was constructed in 1980, and the second is a 250,000 gallon tank, which was installed in 2004 for fire protection.⁴ Neither storage capacity nor pumping capacity has changed since Staff's review in the Company's 2011 rate case.

According to the Company's Testimony in support of its Application,
GCW was organized in 1907.⁵ The Utility is an S Corporation.⁶ Maryanne Hill
purchased GCW in 1961. On May 12, 2014, Ms. Hill gifted the entire
Company to Lesli Ann Bekins by transferring 100 percent of the Company's
stock to Ms. Bekins.⁷ Ms. Bekins now identifies herself as the Owner and

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

¹ Government Camp Water Company, Inc. Initial Testimony (GCW Testimony) at 4.

² GCW Testimony at 16.

³ GCW Testimony at 15.

⁴ GCW Testimony at 16.

⁵ GCW Testimony at 4.

⁶ GCW Testimony at 4.

⁷ GCW Testimony at 4.

Corporate Secretary of GCW.⁸ Ms. Hill and the Company did not seek Commission approval for this 2014 transaction.

Q. Should Commission approval have been sought for the 2014 transfer of the Company?

A. Yes. The transaction required Commission approval under ORS 757.480.

As the individual that owned, operated, and managed GCW, which includes plant and equipment that is used for the transmission, delivery and furnishing of water to the public, Ms. Hill falls under the definition of "public utility" under ORS 757.005(1)(a). She is therefore subject to ORS 757.480(1), which requires Commission approval before the disposal of any of the following: a public utility's property in excess of \$100,000 that is necessary and useful, the right to maintain and operate the utility or its property, or the right to perform any service as a public utility. Ms. Hill should have sought Commission approval to dispose of any of the following to Ms. Bekins: Ms. Hill's ownership interest in the Company, her right to maintain and operate the Company and its property, and the right to provide service as a public utility.

Q. Will Commission approval be sought for the 2014 transfer of the Company?

A. At this time, it is not clear whether the Company plans to submit an application.

Staff's counsel notified GCW that Commission approval was required for this transaction and Staff now awaits an application for approval of the transfer. If GCW does not decide to file an application, Staff will assess its position on the

.

⁸ GCW Testimony at 2.

legal effect, if any, of the purported disposal the Company, the right to maintain and operate the utility and the Company's property, and the right to provide utility service.

Q. Please provide a summary of GCW's regulatory history.

A. GCW first filed an application with the Commission on May 12, 2000, for an allocation of exclusive territory that was granted in Order No. 02-287.9

The Commission asserted rate and service regulation over GCW in Order No. 09-313 on August 12, 2009, and directed the Company to file the appropriate tariffs within 60 days of that order, or no later than October 12, 2009. The Commission granted the Company nine subsequent extensions to allow the Company to file either the tariffs or a rate case application with supporting documentation. On July 14, 2010, GCW filed tariff sheets to become effective October 1, 2010. At its August 24, 2010 public meeting, the Commission found good and sufficient cause to investigate the propriety and reasonableness of the tariffs and suspended the tariffs pending investigation, opening Docket No. UW 145 in Order No. 10-347.

The rate suspension schedule in UW 145 was extended twice at the request of the parties. The parties to UW 145 (Staff, GCW, and two Interveners) entered into a stipulation settling all of the issues in UW 145 in

⁹ In re Government Camp Water Company, Inc., OPUC Docket No. WA 67, Order No. 02-287 (April 22, 2002).

¹⁰ In re Government Camp Water Company, Inc., OPUC Docket No. WJ 24, Order No. 09-313 (August 12, 2009).

¹¹ In re Government Camp Water Company, Inc., OPUC Docket No. UW 145, Order No. 10-347 (September 2, 2010).

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

July 2011. The Commission adopted that stipulation in Order No. 11-278, issued July 29, 2011. The Stipulation included a 10 percent rate increase over adjusted test year revenues, with a rate effective date of September 1, 2011. It also allowed GCW the opportunity to earn a 7.41 percent rate of return on a rate base of \$568,068. The Stipulation allowed GCW to read meters on a yearly basis due to seasonal issues with snow and to bill its customers on a quarterly basis.

The UW 145 Stipulation also included several conditions and requirements for GCW, including the following:

- a. Paragraph 12 of the Stipulation required the Company to make a rate filing on or prior to January 2014.
- b. Paragraph 9 of the Stipulation required the Company to enter into a three-year meter installation program. The program was "designed to convert all non-metered customers with greater than 3/4 inch service to metered service." In conjunction with this requirement, a plant allowance of \$49,500 was entered into Plant in UW 145, which effectively allowed the recovery of costs for the metering program in advance.
- c. Paragraph 6 of the Stipulation required the Company to charge
 Miscellaneous Services Charges according to Schedule 6 as set

¹² In re Government Camp Water Company, Inc., OPUC Docket No. UW 145, Order No. 11-278 (July 29, 2011).

forth in the tariff sheet designated PUC Oregon No. 1, Original Sheet No. 8.

Additionally, Paragraph 11 of the Stipulation memorialized the fact that during the proceedings in UW 145, the parties to that case became aware of several "metered customer accounts mistakenly identified by their line sizes instead of the meter sizes." In that Paragraph, the parties to the Stipulation acknowledged that these accounts "were inaccurately reported, but agreed to move forward for ratemaking purposes" with the affected customers being "continue[d] to be charged as classified" in the proposal recommended in the Stipulation, with one exception, and with the additional expectation that the "Company will make customer line and meter size corrections in the next rate case."

- Q. Did GCW comply with the requirements of the Stipulation that resolved the Company's last rate case?
- A. No. The Company did not fulfill the requirements contained in Paragraphs 12,9, and 6 to the Stipulation that resolved UW 145. Each of these are discussed in more detail below.
- Q. Please summarize how certain metered customers are identified by their line sizes, as noted in the UW 145 Stipulation.
- A. Staff investigated the Company's billing practices in order to better understand the account inaccuracies referred to in the UW 145 Stipulation and line-versus-meter-size issues with the Company's approach to billing and rate design. To summarize GCW's current practices, the Company indicated in its response to

Data Request (DR) 68¹³ that there are 304 individual units on the system that are served by master meter accounts. For master meter accounts, the Company explained that it bills the master meter customer (for instance, a homeowner's association) a monthly base rate based on the size of the line going to each individual unit (as opposed to the size of the master meter) and for total consumption, which is measured through the master meter. GCW does not bill the individual units served by master meters; the master meter customer is its customer. As discussed below in conjunction with Staff's recommended rate design, this results in a billing practice that departs from the application of what Staff has referred to as the standard AWWA factors, which calculates bills for metered customers in relation to the amount of water delivered by the meter size.

ISSUE 3: SUMMARY OF GCW'S GENERAL RATE FILING

- Q. Please describe GCW's request for a general rate revision.
- A. The Company filed its request for a general rate increase on December 29, 2017. GCW proposed an annual revenue increase of \$129,896 to the Company's 2016 annual revenues, or a 73.64 percent increase, resulting in total annual revenues of \$306,290. After deducting for operating expenses, the Company's proposed projected revenues would produce a 10 percent rate of return on a rate base of \$558,127. The Company also proposes changes to its rate structure to move residential and commercial services into the same

¹³ See Exhibit Staff/105, Brock /1-2.

customer class, leaving one customer class for those receiving metered service or and one for those receiving flat-rate service. The Company additionally proposes a water hauler rate based on metered service and a new fire prevention rate to cover the cost of fire hydrants.

Q. Why is the Company requesting the general rate increase?

A. GCW asserts that it requires a rate increase to cover cost increases because current rates do not generate enough revenue to cover the cost of operating the system and give the Company an opportunity to earn a reasonable return on its investment and because capital improvement expenditures need to be updated and included in rate base. Specific examples of such increased costs highlighted in GCW's application are increases to officer wages, affiliated interest costs, contractor expenses, and to add Construction Work in Progress (CWIP) in plant to replace a service line. GCW proposes to pay \$24,000 annually to Ms. Hill upon her retirement at the conclusion of this rate case and to increase the \$12,000 salary for Ms. Bekins as she will assume duties of full-time CEO following Ms. Hill's retirement. GCW also proposes a 214 percent increase in amount paid under two affiliated interest leases.

Q. Is Commision approval of these affiliated interest leases necessary?

A. Yes. As discussed later in this testimony, these leases have not yet been approved by the Commission and are now the subject of Docket Nos. UI 398 and UI 399.

¹⁴ GCW Testimony at 3.

¹⁵ GCW Testimony at 5.

Q. What test year period did the Company use in its filing?

A. The Company used the Test Year period January 1, 2016 through December 31, 2016.

Q. Please describe why a Test Year is necessary.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

- A. The Commission is charged with setting rates at a level which will allow the utility a reasonable opportunity to earn its authorized rate of return during the period the rates will be in effect. Therefore, Staff's recommendation for rates must estimate both the costs and revenues that will be in effect during that period in order to determine an appropriate revenue requirement for the utility. In determining the revenue requirement appropriate for the rate period, a test year must be utilized as a basis for establishing rates. A historic test year typically involves the use of a past 12-month period (usually the 12-month period immediately preceding the rate case filing) with adjustments for items that are one-time events and those that are known and measurable in the future. A future test year is for a 12-month period that begins after the rate case is filed, and uses utility forecasting and budgeting to derive forwardlooking revenues and expenses over a future 12-month period. In Oregon, water utilities have typically chosen to use an historic test year in Commission proceedings, as GCW has done in this case.
- Q. Does the Company propose any adjustments to the Company's Test Year expenses?
- A. Yes, the Company made several adjustments to its calendar year 2016 information to reflect changes in costs occurring outside of the Test Year.

The Company proposed increases to Salaries and Wages-Officers, Employee Pension and Benefits, Rental of Building Real Property; and Contract Services.

Q. What are GCW's current rates and what rate increase has GCW proposed in this case?

A. Tables 1, 2, and 3 below illustrate GCW's current rates provided in its Application.¹⁶

Table 1. Current Rates for Metered Service

CURRENT RATES FOR RESIDENTIAL/COMMERCIAL METERED SERVICE

Line or Meter Size	Metered or Flat	<u>Current</u> Residential Monthly Base or Flat Rate	Residential Consumption Included in Base Rate		Consumption Rate per Unit of Measurement
3/4" or 5/8"	Metered	\$15.86	none	Cubic ft	\$1.12 Per 100 cf of water used
1"	Metered	\$19.82	none	Cubic ft	\$1.12 Per 100 cf of water used
1 1/2"	Metered	\$24.10	none	Cubic ft	\$1.12 Per 100 cf of water used
2"	Metered	\$29.81	none	Cubic ft	\$1.12 Per 100 cf of water used
4"	Metered	\$34.88	none	Cubic ft	\$1.12 Per 100 cf of water used
6"	Metered	\$40.43	none	Cubic ft	\$1.12 Per 100 cf of water used

Table 2. Current Rates for Flat Rate Service

CURRENT FLAT RATES FOR RESIDENTIAL/COMMERCIAL SERVICE

	THE RUITED I O	REDEET TELEFOOT	WINDERCHIE BERVICE
Line or Meter Size	Metered or Flat	<u>Current</u> Monthly Flat Rate	Consumption Rate per Unit of Measurement
3/4" or 5/8"	Flat	\$20.75	None
1"	Flat	\$24.17	None
1 1/2"	Flat	\$28.72	None
2"	Flat	\$34.53	None
4"	Flat	\$40.07	None
6"	Flat	\$45.65	None

8

1

2

3

4

5

6

¹⁶ GCW Testimony at 10-11.

Table 3. Current Rate for Water Hauling

CURRENT RATE FOR WATER HAULING					
Commodity Rate No. Of Units Unit					
\$1.12 per each	100	Cubic Feet			

2 Tables 4, 5, 6, and 7 below illustrate GCW's proposed rates provided in its

Application.¹⁷

Table 4. GCW's Proposed Rates for Metered Service

PROPOSED RATES

FOR RESIDENTIAL & COMMERCIAL METERED SERVICE

Meter Size	Metered	Proposed Residential Monthly Base Rate	•		Proposed Consumption Rate per Unit of Measurement
3/4" or 5/8"	Metered	\$27.56	none	Cubic ft	\$1.83 Per 100 cf of water used
1"	Metered	\$34.44	none	Cubic ft	\$1.83 Per 100 cf of water used
1 1/2"	Metered	\$41.88	none	Cubic ft	\$1.83 Per 100 cf of water used
2"	Metered	\$51.80	none	Cubic ft	\$1.83 Per 100 cf of water used
4"	Metered	\$60.61	none	Cubic ft	\$1.83 Per 100 cf of water used
6"	Metered	\$70.26	none	Cubic ft	\$1.83 Per 100 cf of water used

Table 5. GCW's Proposed Rates for Flat Rate Service

PROPOSED RATES FOR RESIDENTIAL & COMMERCIAL FLAT RATE SERVICE									
Line Size	Line Size Flat Rate Proposed Monthly Flat Rate Consumption Rate								
3/4" or 5/8"	Flat	\$36.07	None						
1"	Flat	\$42.01	None						
1 1/2"	Flat	\$49.92	None						
2"	Flat	\$60.02	None						
4"	Flat	\$69.65	None						
6"	Flat	\$79.34	None						

5

1

3

¹⁷ GCW Testimony at 12-13.

Table 6. GCW's Proposed Rates for Water Hauling

PROPOSED RATE FOR WATER HAULERS					
Commodity Rate No. Of Units Unit					
\$1.83 per each 100 Cubic Feet					

Table 7. GCW's Proposed Fire Protection Rate

PROPOSED RATE FOR FIRE PROTECTION			
All metered and flat rate customers	Monthly Rate		
	\$0.28		

Q. What would average customer bills be under GCW's proposed rates?

A. Table 8 below, which was included by GCW in its Application, ¹⁸ reflects the effect of the Company's proposed rate increase on customer's monthly average bills. Proposed increases by GCW result in the average customer's bill increasing by approximately 74 percent.

1

2

3

4

5

6

¹⁸ GCW Testimony at 13-14.

Table 8. GCW's Proposed Average Bills, Consumption, and Revenue¹⁹

FOR RESIDENTIAL & COMMERCIAL METERED SERVICE

Customer Class - METERED	Number of Customers	Average Monthly Bill	Average Monthly Consumption (100 cf)	Total Annual Revenue
Residential/Commercial - 5/8" or 3/4"	345	\$ 31.59	220	\$ 130,792.22
Residential/Commercial - 1"	19	\$ 52.05	962	\$ 11,867.57
Residential/Commercial - 1 1/2"	5	\$ 47.88	328	\$ 2,873.04
Residential/Commercial - 2"	21	\$ 111.03	3235	\$ 27,980.66
Residential/Commercial – 4"	2	\$ 300.72	13,114	\$ 7,217.19
Residential/Commercial – 6"	1	\$ 71.39	62	\$ 856.64
TOTAL	393			\$ 181,587.32

FOR RESIDENTIAL & COMMERCIAL FLAT RATE SERVICE

Customer Class - FLAT	Number of Customers	Average Monthly Bill	Average Monthly Consumption	Total Annual Revenue
Residential/Commercial - 5/8" or	256	\$ 36.07	none	\$ 110,792.96
Residential/Commercial - 1"	2	\$ 42.01	none	\$ 1,008.23
Residential/Commercial - 1 1/2"	0	\$ 49.92	none	\$0
Residential/Commercial - 2"	9	\$ 60.02	none	\$ 6,481.76
Residential/Commercial – 4"	0	\$ 69.65	none	\$0
Residential/Commercial – 6"	0	\$ 79.34	none	\$0
TOTAL	267			\$ 118,282.96

Q. Does Staff have observations about the Company's proposed rates?

A. Yes. Taking the Company's calculations as true for the purposes of this question, a comparison of the estimated monthly bill averages for the same size metered customers to their corresponding line sized flat rated customer's monthly average bills shows that under the Company's proposed rate

1

2

4

¹⁹ In the Table 8 provided in the Company's Application of proposed residential and commercial flat rate services estimating average monthly consumption, Staff would recommend 'unknown,' instead of 'none' in the average monthly consumption of flat rate services as consumption for flat rate service does occur but is not measured.

Docket No: UW 174

1

2

structure, customers with meter sizes of one, two, and four inches would pay more per month, on average, than customers with one, two, and four inch line sizes that receive flat rate service. For instance, a two inch metered customer would have an estimated average monthly bill of \$111.03 per month, while the flat-rated two inch customer would have a static monthly bill of \$60.02 per month. This inverse relationship between metered and flat-rated bills for the same size service is inconsistent with the cost recovery goals that rates are typically designed to accomplish. Overall rates are designed to recover a company's cost of providing service. For metered customers, those costs are recovered through both a base rate that does not vary month to month and a commodity rate that varies with usage. In total, those rates are designed to recover the company's cost of providing service to the customer. In comparison, flat-rated customers pay one charge per month that should also accomplish that same cost recovery goal. To accomplish that goal, the single flat-rate charge must be large enough to recover costs that are recovered through both the base rate and commodity charge for metered customers. Based on the average bill information provided by Government Camp for metered customers, the flat-rate customer's bill would not provide the same level of cost recovery as would the metered customer's bill, assuming there is similar consumption by both metered and flat-rate customers.

ISSUE 4: STAFF'S REVIEW OF GCWS FILING

Q. Please describe Staff's investigation into GCW's request for a general rate increase.

A. Staff's investigation and analysis of GCW's general rate case filing included a comprehensive examination of the Company's revenues, expenses, proposed adjustments, capital improvements, system capacity, utility plant, accumulated depreciation and expense, GCW's Master Plan, quality of service, consumer complaints, Contribution in Aid of Construction (CIAC), and GCW's internal billing and consumption records. Further, Staff reviewed rate base, rate design, the cost of capital, and the sources and status of GCW's debt. Staff also identified several affiliated interest issues necessitating additional filings by the Company. Staff has issued more than ninety five data requests to the Company and reviewed GCW's replies throughout the investigation. Staff appreciates the Company's cooperation in this rate case.

Q. What major specific issues did Staff investigate?

A. Specific issues included:

- Rate structure, including making progress toward use of standard factors to design rates that increase in relation to meter size;
- b) Consumption and billing data;
- c) The proposed full-time CEO salary;
- d) The proposed unfunded pension;
- e) Increased contractor expenses;

17

18

19

20

21

- f) Transportation expenses;
- g) Plant additions and adjustments;
- h) Status of proposed Construction Work in Progress
- i) Expenses associated with potential affiliated interests;
- j) Compliance with the terms of the UW 145 Stipulation;
- k) Status and maturity of the Company's debt, including the water tank loan, which has no written agreement, with a reported December 2016 balance of \$204,020;
- Customer billing and service complaints;
- m) The disposal of the Company in 2014 without
 Commission approval (discussed above);

Q. Please describe Staff's approach to developing a rate structure.

A. As GCW's customers are billed a mixture of metered and flat rates, Staff reviewed the past rate design adopted in UW 145 as well as customer billing records to assess the Company's proposal and develop a recommendation that is fair and equitable across GCW's customer base. Water rates are typically designed such that customers with larger meter sizes pay higher base rates than those with smaller meters. This is because "the safe operating flow, or capacity, of a particular size of meter is essentially the limiting factor in terms of the demand that can be exerted on the water system through the meter." Furthermore, "the potential demand or capacity requirements placed on the

²⁰ Principles of Water Rates, Fees, and Charges (M1) (6th Edition). American Water Works Association, 2012, Page 324.

water system...is generally an accepted basis for determining the level of charge applicable to the customer."²¹ As such, Staff often utilizes a standard set of factors for determining the appropriate relative differences in base rates for different meter sizes.²² For example, the standard factor for a 5/8" base rate is 1 and the standard factor for a 1" base rate is 2.5, which means that a customer with a 1" meter would typically pay a base rate that is approximately 2.5 times that of a customer with a 5/8" meter. Staff employed factors that increase based on the meter size to reduce the subsidies that may result from the current rate structure as progress is made toward applying the standard factors. I also concluded that it is advisable, as the parties agreed to do in concluding UW 145, to correct distortions in the Company's current approach to billing that stem from the Company's use of line sizes for some individual end users to calculate the bills sent to master meter customers that use meters of different sizes than the line sizes serving the end users. This practice inflated the appearance of the number of actual metered customers, which is normally determined solely by the number of meters placed in the field. It also reduced Staff's ability to gradually move toward the standard factors discussed above.

- Q. Please summarize Staff's review of GCW's current customer billings and explain issues raised by GCW's billing data.
- A. Yes. After reviewing the Company's billing and consumption records, I identified three general kinds of issues: billings that appear to be inconsistent

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

²¹ **I**O

²² See In re Crooked River Ranch Water Co., Docket No. UW 162, Exhibit Staff/100 Hari/30, lines 18-19, filed Feb. 4, 2015.

with GCW's tariffs; apparent or potential irregularities in certain accounts' consumption as reported by the Company; and miscalculations involving consumption-based billing.

- Q. Please describe the billings that appear inconsistent with GCW's tariffs.
- A. Certain charges in the Company's billing records appear to be inconsistent with the Company's current tariffs and Paragraph 6 of the Stipulation in UW 145.

 Table 9 below depicts excerpted billing records from the Company's response to DR 1 to show that it charged a \$25 New Account Setup Fee that is not listed in GCW's existing Miscellaneous Tariff, Schedule No. 6. Additionally, Connection Charges for New Service that are tariffed "at cost" in the Company's current Miscellaneous Schedule No. 6 appear instead to have been billed at a flat rate of \$450.

Table 9. Billing Records Excerpted from DR 1²³

Date 🔻	Num ▼	ltem 📭	Item Description 🔻	Account	Split 🔻	Qty 🔻	Credit 🔻
01/12/2016	12-6359	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
03/28/2016	12-6726	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
04/01/2016	12-6511	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
05/24/2016	12-6728	Connection Fee		471.3 · New Connection Fees	141 · Accounts Receivable	1.00	450.00
05/27/2016	12-6729	Connection Fee		471.3 · New Connection Fees	141 · Accounts Receivable	1.00	450.00
06/23/2016	12-6727	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
07/20/2016	12-7095	Connection Fee		471.3 · New Connection Fees	141 · Accounts Receivable	1.00	450.00
08/01/2016	12-7096	Connection Fee		471.3 · New Connection Fees	141 · Accounts Receivable	1.00	450.00
09/12/2016	12-7099	Connection Fee		471.3 · New Connection Fees	141 · Accounts Receivable	1.00	450.00
09/14/2016	12-7098	Connection Fee		471.3 · New Connection Fees	141 · Accounts Receivable	1.00	450.00
10/18/2016	12-7470	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
10/20/2016	12-5995	Connection Fee		471.3 · New Connection Fees	141 · Accounts Receivable	1.00	450.00
11/28/2016	12-5997	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
11/28/2016	12-7471	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
12/03/2016	12-5999	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
12/12/2016	12-5998	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
12/12/2016	12-7468	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
12/12/2016	12-7472	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00

Additionally, as shown in the Company's response to DR 80²⁴ and Table 10 of excerpted records from the Company's response to DR 1, the Company appears to be billing a metered hydrant rate for snow making activities that is not included in its tariffs.

Table 10. Billing Records Excerpted from DR 1²⁵

Date 🔻	Num ▼	ltem ,T	Item Description 🔻	Account	Split ▼	Qty 🔻	Credit 🔻
01/01/2016	12-6279	MH 4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00	104.64
01/01/2016	12-6306	MH 2"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00	89.43
02/08/2016 1	12-6360	MH	Quarterly base rate	461.7 · Metered Hydrant Sales	141 · Accounts Receivable	1.00	2,392.43
04/01/2016 1	12-6649	MH 4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00	104.64
04/01/2016 1	12-6676	MH 2"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00	89.43
07/01/2016 1	12-7016	MH 4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00	104.64
07/01/2016 1	12-7044	MH 2"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00	89.43
10/01/2016	12-7390	MH 4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00	104.64
10/01/2016	12-7418	MH 2"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00	89.43

²³ See Exhibit Staff/105, Brock 3-5. In response to DR 1, the Company provided an entire year's worth of customer billing, inclusion of which in this exhibit would encumber the record in this case. Staff proposes to enter the relevant excerpt into the record. All parties have the opportunity to examine the entire response in case any party wishes to offer into evidence any other portion of the response as relevant. See OAR 860-001-0480(8).

3

4

1

²⁴ See Exhibit Staff/105, Brock /6

²⁵ See Exhibit Staff/105, Brock /5. In response to DR 1, the Company provided an entire year's worth of customer billing, inclusion of which in this exhibit would encumber the record in this case. Staff proposes to enter the relevant excerpt into the record. All parties have the opportunity to examine the entire response in case any party wishes to offer into evidence any other portion of the response as relevant. See OAR 860-001-0480(8).

Q. Please describe the apparent or potential irregularities in certain accounts' consumption.

A. My review of customer billing records revealed that certain accounts' consumption was either missing or appeared unusually low, particularly when considered in relation to the size of the meter providing the service. One example is a local inn served by the largest meter size (and the only customer with a six inch meter), which was billed only \$2.46 for consumption during the entire test year. Per the Company's response to DR 82,²⁶ the six inch meter provides only fire suppression service to the local inn and usage would only occur in the event of a fire. I have been unable to find another billing record that appears to serve the inn, as the six inch meter appears to be the only meter serving this customer in the records provided by the Company. In a data request that was outstanding at the time this testimony was finalized, Staff asked the Company to clarify whether it provides water service to the inn. If it does provide such service, I will recommend in a later round of testimony that the consumption figures in the rate model that I recommend to the Commission be updated to reflect the inn's total annual consumption; this may change the recommended rates.

In another example, in the Company's response to DR 91²⁷ regarding missing consumption for a resort, the Company responded that the resort did not pay for 2016 consumption until 2017. As the Company's response did not

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

²⁶ See Exhibit Staff/105, Brock /7.

²⁷ See Exhibit Staff/105, Brock /8.

indicate the amount of revenues that was not collected in 2016 for consumption, the effect on revenues in the test year is not known at this time.

Once that consumption amount is known, I will recommend that the consumption figures in the rate model that I recommend to the Commission be updated to reflect the correct consumption; this may change the recommended rates.

Additionally, the Company's response to a similar question for another resort in DR 87²⁸ indicated the Company found a billing error due to a change of billing that resulted in the resort not having been billed for two quarters of consumption in 2016. It appears this consumption information was also missing from the billing records provided in DR's 1 and 58.

Q. Did Staff identify issues with GCW's overall consumption figures?

A. Yes. Staff was unable to match the total annual consumption provided by the Company page 11 of the Application of 2,281,122 cf with the billing record data provided in response to DR 1 and DR 58. When Staff sorted the billing records by meter size, the data provided for several metered customers were missing either the corresponding billing record for the base rate or consumption. These inconsistencies made it difficult to rely on the Company's data when designing rates. In order to develop and recommend a rate structure going forward, I therefore used information provided in response to DR 93,²⁹ which provided the actual number of meters, the actual meter sizes, and the corresponding

²⁸ See Exhibit Staff/105, Brock /9.

²⁹ See Exhibit Staff/105, Brock /10-14.

consumption record in the meter readings, which totaled 2,507,585 cf in annual consumption.

Q. Please describe the apparent miscalculations in consumption-based billing.

A. Staff noted several apparent mistakes in the amount billed in relation to the amount of consumption measured. Table 11 below, excerpted from the billing records provided in response to DR 58, shows several anomalies in the amounts billed to customers when considered in light of the consumption amounts indicated. The Company's excerpted responses are shown in the seven columns on the left; the results of my analysis are shown in the two columns on the right, highlighted in yellow. The first column in yellow shows my computations of the consumption by converting cf into billing units (100 cf equals one billing unit) by dividing by 100, then multiplying by the rate of \$1.12. The second column in yellow provides the comparison to the dollar figure billed to Staff's computation of what the billed amount have been.

Table 11. Billing Records Excerpted from DR 58³⁰

Date 🔻	Num ▼	Item ,	Item Description	Qty 🔻	Debit 🔻	Credit 🔻
01/01/2016	12-6294	R. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	157.00		6.94
04/01/2016	12-6664	R. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	157.00		6.94
07/01/2016	12-7032	R. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	157.00		6.94
10/01/2016	12-7406	R. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	203.50		9.00
01/01/2016	12-6298	R. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	620.00		3.84
04/01/2016	12-6668	R. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	620.00		3.84
07/01/2016	12-7036	R. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	620.00		3.84
01/01/2016	12-6113	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	1,485.25		35.47
04/01/2016	12-6481	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	1,485.25		35.47
07/01/2016	12-6848	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	1,485.25		35.47
10/01/2016	12-7221	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	487.00		11.63
01/01/2016	12-6165	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	856.75		15.98
04/01/2016	12-6534	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	856.75		15.98
07/01/2016	12-6901	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	856.75		15.98
10/01/2016	12-7274	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	769.00		14.34

Staff Check	Difference
\$1.76	-\$5.18
\$1.76	-\$5.18
\$1.76	-\$5.18
\$2.28	-\$6.72
\$6.94	\$3.10
\$6.94	\$3.10
\$6.94	\$3.10
\$16.63	-\$18.84
\$16.63	-\$18.84
\$16.63	-\$18.84
\$5.45	-\$6.18
\$9.60	-\$6.38
\$9.60	-\$6.38
\$9.60	-\$6.38
\$8.61	-\$5.73

Q. Please discuss Staff's proposed adjustments to GCW's expenses.

A. Staff adjusted several expense accounts by eliminating the expense, normalizing the expense, transferring expenses from one account to another, or amortizing expenses over the appropriate periods. All of Staff's adjustments are shown in Exhibit Staff /103. The following is a brief explanation of the adjustments that I recommend.

Account 603, Salaries and Wages

Staff reviewed the proposed salary increase and new retirement payment for the Company's officers. Ms. Bekins will assume Ms. Hill's duties in addition to her own upon the retirement of Ms. Hill at the end of this rate case. GCW proposes to pay Ms. Bekins an annual CEO's salary of \$56,782 plus the associated payroll taxes as full-time, 40 hour week, employment.

1

2

3

4

5

6

7

8

9

10

11

12

_

³⁰ See Exhibit Staff/105, Brock /15-16. In response to DR 58, the Company provided an entire year's worth of customer billing, inclusion of which in this exhibit would encumber the record in this case. Staff proposes to enter the relevant excerpt into the record. All parties have the opportunity to examine the entire response in case any party wishes to offer into evidence any other portion of the response as relevant. See OAR 860-001-0480(8).

As an initial matter, the Company has not applied for Commission approval of an affiliated interest (AI) agreement for Ms. Bekins. Commission precedent requires AI agreements to be filed for owner salaries.³¹ The Company conceded this requirement in its response to DR 9,³² but has not yet filed an AI agreement for Ms. Bekin's salary. Staff encourages GCW to file an affiliated interest application related to Ms. Bekins' salary as soon as possible. Failure to do so may result in Staff recommending disallowance of Ms. Bekins' entire salary in subsequent rounds of testimony.

Staff notes that the amount approved in UW 145 for Ms. Bekins' salary was \$9,600. Correspondingly, for the purposes of the rates recommended today, Staff has removed any proposed increase to Ms. Bekins' salary above that amount due to the lack of filing or approval of affiliated interest, resulting in a downward adjustment of \$47,182 in this salary expense. In a future round of testimony, Staff would expect to support an adjustment to this amount if the Company files, and the Commission approves, an AI agreement reflecting a different and reasonable amount for this salary expense.

³¹ See In re Pete's Mountain Water Company, Inc., OPUC Docket No. UW 117, Order No. 06-657 (Dec. 4, 2006) ("[W]e agree with the Intervenors that PMWC must file affiliated interest contracts under ORS 757.495 for the wages and salaries paid to [owner-operators] before we can complete our review of the requested rate increase."); see also In re Pete's Mountain Water Company, Inc., OPUC Docket No. UW 117, Order No. 07-219 (June 4, 2007) (noting that a water company must file affiliated interest contracts for the wages and salaries paid to its owner-operators); In re Pete's Mountain Water Company, Inc., OPUC Docket No. UI 261, Order No. 07-106 (March 15, 2007) (approving an affiliated interest contract for an owner-operator, subject to conditions); In re Pete's Mountain Water Company, Inc., OPUC Docket No. UI 262, Order No. 07-107 (March 15, 2007) (same).

³² See Exhibit Staff/105, Brock /17.

Account 604, Employee Pension & Benefits

GCW proposes to convert Ms. Hill's current salary to form an unfunded annual retirement payment to Ms. Hill. Staff removed the proposed unfunded retirement payment to Ms. Hill citing it as an imprudent expense that is not a reasonable expense for current customers to pay for. This resulted in a downward adjustment of \$24,000. Also, while it does not appear to be the best reading of the Company's application, to the extent that the Company intended to convey that this is a past obligation incurred by the Company, including this amount in current rates may additionally be illegal as retroactive ratemaking.

Account 611, Telephone/Communications

In the Company's response to DR 14,³³ the Company indicated that \$420 had inadvertently been entered twice into expenses. Accordingly, Staff proposes a downward adjustment of \$420 from this account.

Account 639, Contract Services-Other

This account registered a large increase in comparison to the amount approved in UW 145 due primarily to the Company entering into a new water operator contract on April 20, 2015. In the Company's response to DR 31,³⁴ the Company supplied a copy of the contract that itemizes the increased amount of duties the water operator performs. Staff adjusted this account, after considering the Company's response to DR 42,³⁵ by applying a three year average for capitalized labor charges, which is reflected in Staff's downward

³³ See Exhibit Staff/105, Brock /18-19.

³⁴ See Exhibit Staff/105, Brock /20-28.

³⁵ See Exhibit Staff/105, Brock /29-34.

adjustment of \$25,869, reducing this account to \$24,090. The adjusted amount of \$24,090 (which does not include an additional \$814 in Contract Services-Labor) represents a 1,032 percent increase over the \$2,128 contracted labor expense that was recognized in rates in UW 145. Staff's proposal of no adjustment to this account at this stage of the proceeding reflects the offsetting effect of the proposed change to Ms. Bekins' proposed salary. If the Commission approves a significant change to Ms. Bekins' salary in conjunction with an approval of any forthcoming AI contract that may be filed, Staff may revisit the decision to not recommend an adjustment here, in light of the fact that the water operator contract reflects overlapping duties with Ms. Bekins.

Account 641, Rental of Building/Real Property

GCW proposed an increase in this affiliated interest costs from the \$7,000 approved in UW 145 to \$22,000, citing lease increases for office space located in Ms. Hill's residence and increases for a separate affiliated interest lease to reimburse Ms. Bekins for the Company's use of a storage barn and lot. In the Company's response to DR 9,³⁶ the Company conceded that that Commission approval of new AI Contracts are necessary for these leases. As of March 30, 2018, the Company has now filed these agreements in Docket Nos. UI 398 and UI 399. Pending the Commission's review and approval of these new AI agreements, Staff has removed the proposed increases in affiliated interest costs, resulting in a downward adjustment of \$15,000. In a future round of testimony, Staff would expect to support an adjustment to this amount if the

³⁶ See Exhibit Staff/105, Brock /17.

Commission approves AI agreements reflecting a different and reasonable amount for these expenses.

Account 650, Transportation

GCW included expenses for contractor's mileage as well as gas credit card and repair expenses for a 2004 Buick Rainier. In the Company's DR responses to Staff in DR 28, 29 and 70,³⁷ the Company indicates that the Buick is 100 percent used by the Company but is owned by Charlomont Hill, LLC. After reviewing accounting records, Staff estimates approximately 84 gallons of gas were used in the test year. Due to its limited use and Charlomont Hill LLC's ownership of the Buick Rainier, a mileage reimbursement is a more reasonable and accurate way to account for the costs of the Company's use of the Buick. Applying estimated mileage at the \$0.545 per mile federal mileage rate results in a mileage reimbursement of \$736 for the Buick. Including the additional contractor mileage expense of \$1043, the combined mileage reimbursements total \$1,779, resulting in a downward adjustment of \$873 to this account.

Account 656, Vehicle Insurance

Due to its limited use and Charlomont Hill ownership of the Buick Rainier, Staff proposes to treat Company reimbursement expense for use of the Buick as mileage in Account 650, Transportation, as discussed above. As insurance is included in the mileage reimbursement in Account 650, Staff removed this proposed insurance expense resulting in a downward adjustment of \$1,322.

³⁷ See Exhibit Staff/105, Brock /35, Brock /36. and Brock /37...

Account 675, Miscellaneous Expense

Staff reviewed GCW's miscellaneous expense and removed finance charges from creditors bills resulting in a downward adjustment of \$190. Late payment charges incurred by the Company should not be borne by customers.

Account 408.11 Property Tax

Pending approval of the AI contract that is now the subject of UI Docket No. 399, Staff removed the property tax expense included for the leased barn and storage lot belonging to trust/Lesli Ann Bekins. Taxes for the barn and lot lease are proposed to be included in the AI Agreement; absent approval of this term of the Agreement, Staff removed this expense resulting in a downward adjustment of \$1,201 pending approval of the AI Agreement.

Account 403, Depreciation Expense

Depreciation Expense As Filed	\$23,498
Removal of Tyrolean Meadows True-up	(\$288)
Removal of Meter Allowance from UW 145	(\$2,475)
Removal of CWIP line replacement	(\$109)
Increase Adjustment for Water Tank Cost	\$215
Error Correction	\$395
Depreciation Expense—As Adjusted	\$21,236

Staff's proposed downward adjustment of \$2,262 reflects the difference in the accumulated depreciation expense filed of \$23,498 and the adjusted depreciation amount of \$21,236.

Q. Does Staff propose any adjustments to the Company's Test Year revenues?

A. Yes. In its initial filing, in response to question 27 in the Application, GCW listed test year Miscellaneous Revenues of \$4,562, but adjusted those

revenues to a proposed amount of zero revenues for the test year. Staff issued DR 25³⁸ requesting an explanation of why the Company removed these revenues. The Company responded that these revenues were removed as they were considered pass through costs. It is not clear what the Company means by "pass through" in this context. Customer billing data and the Company's application³⁹ show that the miscellaneous charges billed to customers took the form of late payment charges, account setup fees, and service connection charges. Staff appropriately included these revenues, adding the \$4,562 of Miscellaneous Revenues back into the Revenue Requirement.

Additionally, the Company's response to DR 87⁴⁰ indicated the Company found a billing error due to a change of billing that resulted in the resort not having been billed for two quarters of consumption in 2016. This mistake lowered the revenues for the affected account in the test year by \$2844.46.

Q. Please discuss Staff's review of GCW's proposed net plant.

A. Staff made a number of adjustments to GCW's Utility Plant in Service,

Accumulated Depreciation of Plant, Contributions in Aid of Construction (CIAC),

and Accumulated Amortization of CIAC as described below.

³⁸ See Exhibit Staff/105, Brock /38.

³⁹ GCW Testimony at 8.

⁴⁰ See Exhibit Staff/105, Brock /9.

Account 101, Utility Plant in Service

Staff removed a duplicate entry for Tyrolean Meadows Overrun True Up of \$14,419. Per DR 38,⁴¹ the true-up for the Tyrolean plant investment was inadvertently included twice.

Staff removed an allowance for meter installations that was added in UW 145. The Company has already included and individually listed all meters installed in its plant since UW 145. This allowance artificially inflates the Company investments in plant. Per confirmation in the Company's response in DR 40,⁴² Staff removed this allowance, resulting in the removal of the \$49,500 meter allowance from UW 145.

In DR 37⁴³ Staff requested an explanation for a corrected entry made in UW 145 in recorded plant costs for the 100,000 gallon wood tank. The Company indicated in its response that the costs for the wooden tank were not previously recorded at the correct amount and provided documentation to support that the entry of \$48,475 made in UW 145 should actually have been recorded as \$59,249.22. After reviewing these records, Staff recommends updating this figure to include the full documented costs of \$59,249.22, resulting in an increase to plant of \$10,774.22.

Staff moved a proposed Construction Work In Progress (CWIP) service line replacement it to the appropriate CWIP Account 105, which resulted in a downward adjustment to this account of \$5,441.

⁴¹ See Exhibit Staff/105, Brock /39.

⁴² See Exhibit Staff/105, Brock /40-44.

⁴³ See Exhibit Staff/105, Brock /45-47.

Account 271 Contributions in Aid of Construction / Accumulated

Amortization of CIAC

In DR 16,⁴⁴ Staff requested the Company provide the Contributions in Aid of Construction (CIAC) plant assets, which were not provided in the Company's original Application. CIAC represents the Company's plant assets that have been paid for by non-Company resources, such as developers or customers. Staff added the CIAC plant records and related Accumulated Amortization of CIAC per the Company's response to DR 16.

Account 105, CWIP

In the Company's response to DR 75,⁴⁵ the Company explained that a temporary repair on a service line serving four customers was completed last fall and a permanent line replacement project was identified and approved by the Company on November 10, 2017. However, given the Company's timeline provided in its DR response, construction on the subsequent line replacement appears not to have started yet. Three days after the Company decided to replace the lines, the project was put on hold due to snowfall that began on November 13, 2017.

Pursuant to ORS 757.355(2) the Commission has allowed CWIP in rate base in water rate cases on a case by case basis. OAR 860-036-2390 sets forth the requirements for inclusion in water rates:

The Commission may approve the cost of a specific capital improvement project into rates if: (a) The capital improvement project is under construction; (b) The water utility uses the additional revenues

⁴⁴ See Exhibit Staff/105, Brock /48.

⁴⁵ See Exhibit Staff/105, Brock /49-51.

solely for the purpose of completing the capital improvement project; (c) The water utility demonstrates that it is in the public interest to provide funding for the capital improvements through rates; and (d) The costs are approved by the Commission.

In light of the Company's response to DR 75, the Company has not established that the line replacement project is under construction at this point in time. Removing the CWIP amount proposed for the line replacement results in a downward adjustment of \$5,441.

Q. Please summarize the adjustments made to GCW's Plant.

A. Adjustments made by Staff are as follows:

Gross Plant

Gross Plant—As Filed	\$1,051,997
CIAC	\$1,077,641
Tyrolean Meadows Adjustment	(\$14,419)
Meter Allowance Adjustment	(\$49,500)
CWIP Line Adjustment	(\$5,441)
100,000 Gallon Wood Tank Adjustment	\$10,774
Rounding Correction	\$5
Gross Plant—As Adjusted	\$2,071,057

Accumulated Depreciation

Accumulated Depreciation—As Filed	\$520,939
Accumulated Depreciation—As Adjusted	\$518,694
CIAC Depreciation	\$195,867
Accumulated Depreciation of Plant with CIAC	\$714,561

- Q. Please summarize all the Staff's adjustments to the Company's request in this case.
- A. All the adjustments proposed by Staff can be found on the Adjustment Summary contained in my Exhibit 103.

Q. Please discuss the pending Affiliated Interest contracts that were recently filed by GCW.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

A. The Company filed two affiliated interest contracts on March 30, 2018. In UI Docket No. 398, GCW proposes to enter into a lease agreement with Maryanne Hill to lease shared office space in her home. In UI Docket No. 399, CGW proposes to enter into a lease agreement with Lesli Ann Bekins for a barn and lot used for storage of equipment and supplies necessary for the operation of the water system such as pipes, fittings, tools, equipment and inventory. Staff is in the process of examining the financial aspects of the AI contracts, including the comparable property information submitted by the Company, provisions that escalate the lease prices on an annual basis, and the contractual inclusion of tax payments for the barn lot. As these contracts were only very recently filed, Staff has not yet been able to complete its review of them or recommend that the Commission take a particular action on them. As the agreements have not been approved by the Commission, Staff has included only the prior dollar amounts that were approved for corresponding lease agreements in UW 145. This aspect of Staff's recommendation may change if the Commission approves the new agreements and the amounts reflect reasonable costs that are consistent with Commission rules and policies.

Q. Does Staff have concerns regarding the Company's metering practices?

A. Yes. As the artesian spring source does not have a meter that measures the demand placed on the system and not all customers are metered, the Company's ability to determine whether it can serve additional customers

(discussed below) may be limited. Potential customer growth from any potential new development, coupled with customer concerns that the system's infrastructure may be inadequate to serve more customers without substantial capital investment, raises concerns that the Company may not be well equipped to accurately assess its ability to serve an increased customer base. Additionally, as 147 of the Company's current customers are not metered, it is difficult to determine the demand on the source as well as compliance with its water right. Finally, the Company unilaterally decided not to meet the condition in the UW 145 Stipulation to meter certain customers, and did not seek the Commission's approval of its decision to depart from the terms of that settlement, which does not instill confidence in Staff.

Q. Does Staff have any recommendations to address concerns regarding the Company's metering practices?

A. Yes. Staff recommends a condition that a meter be placed on the spring source to ensure that the water use for the overall system is accurately recorded and known, to allow for accurate planning of future expansion and growth, and to aid in identifying leaks or pressure issues within the water system, especially in light of the potential new development. Staff also recommends that the meter condition contained in the Stipulation resolving UW 145 be re-imposed, with an annual reporting requirement to ensure that the Company is making progress to meter its customers. Staff also recommends that the rate structure be developed in a way that does not distort the Company's actual number of meters in the field. I discuss this further below in the context of rate design.

Q. Did the Company meet the requirements imposed on it under the Stipulation that resolved its last rate case?

A. No. As noted previously, GCW's agreed in Paragraph 12 of the Stipulation in UW 145 that it would make a rate filing on or before January 2014. In the Company's response to DR 20⁴⁶ it stated that as a small water system, filing a rate case is time consuming and costs money. The Company advised that in January of 2014, the Company requested PUC Staff stipulate to an 18 month extension as it was the Company's perception that a rate case was not yet advisable. Staff has not located any record of that extension and notes that the Commission did not approve an extension. Assuming such an extension was granted, this rate case filing was still substantially later than the extension would have permitted.

In addition, despite an allowance provided in plant in UW 145 to aid a 3 year metering plan to meet the Condition in UW 145 that all customers with greater than 3/4 inch line sizes be converted to meters, there are 11 customers with greater than 3/4 inch line sizes in the proposed rates; 2 one inch customers and 9 two inch customers. The Company advises in response to DR 18⁴⁷ and 67⁴⁸ that the Company made a management decision to meter only those commercial customers who use a large volume of water. The Company expanded on this response to indicate it believes that full implementation of that condition is not in the Company's best interest given the

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

⁴⁶ See Exhibit Staff/105, Brock 52.

⁴⁷ See Exhibit Staff/105, Brock /53.

⁴⁸ See Exhibit Staff/105, Brock /54.

cost and the Company's financial situation. It is troubling that the Company did not comply with the conditions or seek Commission approval to reconsider the plan at the time it made the decision not to comply. This is particularly worrying because \$49,500 was added to plant as a meter allowance in UW 145, which has allowed the Company to recover these costs and a return on them in rates over the past eight years, yet the Company's response in DR 40⁴⁹ provides documentation of capital expenditures of only \$27,959.78 for meter installations.

Q. Does Staff have any recommendations to address concerns regarding this noncompliance?

A. Yes. The Commission should add a condition to the Order in UW 174 that all customers with greater than 3/4 inch line sizes be converted to metered customers, as was expected in compliance with UW 145, and that GCW provide an annual status report as to how they are progressing on this condition beginning one year after issue date of the Order. The Commission should also require that the Company file a new rate case by January 1, 2021, or seek the Commission's approval if it believes that a rate case is not warranted by that date.

⁴⁹ See Exhibit Staff/105, Brock /40.

ISSUE 5: CUSTOMER CONCERNS

Q. Were customers notified of the proposed rate increase?

A. Yes. GCW filed a copy of the notice sent to customers with the Commission on January 16, 2018. The customer notice was dated January 11, 2018, to notify their customers of the proposed rate increase.

Q. Have GCW customers expressed any concerns to the Commission?

A. Yes, the Pre-Hearing Conference was well attended despite inclement weather conditions in Government Camp on the day the conference was held. Present were the Company, its attorneys, family members, several HOA representatives, the water operator contractor employed by the Company and other customers. One customer used a telephone bridge arranged at the last minute due to the inclement weather conditions.

Many of those in attendance expressed concerns over the amount of the proposed rate increase, the lack of a gradual rate increase, the amount of the proposed pension and wages, infrastructure updates and potential sale of the water system.

One attendee brought up a service issue relating to snow machine making activities that affected water pressure in December of 2016. The Company's responses to DR 55, DR 56 and DR 57⁵⁰ explained that the cause was due to an error of a Skibowl employee. Snow making activities are now limited to no more than 350 gallons per minute (gpm) of use. Additionally, Skibowl is required to provide phone or text notification of all snow making

⁵⁰ See Exhibit Staff/105, Brock /55, Brock/56, and Brock/57.

activities, which could be suspended during high domestic consumption periods. The Company monitors water system pressure during snow making activities hourly to ensure no pressure reduction occurs.

Another attendee brought up a concern relating to the potential effects of a proposed 480 unit condominium build. In the Company's response to DR 53.51 which requested information about the proposed condominium build, the Company advised the proposal requires approval of a land exchange that has not been finalized between the United State Department of Agriculture and Mt. Hood Meadows. The proposed build falls within GCW's exclusive service area. The Company's response indicates it will comport with OAR 860-036-1270, Refusal of Water Service, which imposes requirements for when a utility must refuse service if they do not have adequate facilities, resources, or capacity to provide the requested service to other customers. Although it is possible that the Company may have adequate water, in light of the large potential size of this development, Staff recommends above that a meter be added to the artesian spring water source to aid the Company in making an accurate determination should this development or any other come to pass.

In addition to the comments provided above, Staff, including Consumer Services, received emails and phone calls from several customers who were unable to attend the conference to relay their concerns over the Company's proposed rates. Many expressed the concern over the lack of a gradual

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

⁵¹ See Exhibit Staff/105, Brock /58.

increase, the amount of the proposed increase, the proposed salaries, and the age of the system's infrastructure. One customer relayed their concern that the water tower loan in the name of Charlomont Hill LLC, was an affiliated interest loan from Maryanne Hill and/or Lesli Ann Bekins. Another customer reported periodic past outages due to construction issues, pipes breaking, a large fire in the area having drained the water tanks resulting in no water and an eight-hour refill time, and a giardia issue resulting in the need to boil water.

ISSUE 6: COST OF CAPITAL

Q. What Cost of Capital did the Company request in this case?

A. The Company requested an 11.9 percent return on equity of \$268,442 and a 7.5 percent cost of capital for a water tank loan with an outstanding balance of \$204,020 from Charlomont Hill, LLC.⁵²

Q. Please describe Staff's investigation of the Company's debt.

A. Staff sent data requests (DR 45, 46, 47, 48, 49, 61, 62, 63, 64 and 65)⁵³ seeking information and documentation regarding the Company's debt, including the water tank loan terms and a demand loan of \$69,656 that was paid off in the interim between UW 145 and the Company filing for UW 174. According to the Company, there is no written agreement for the water tank loan, but the water tank loan had an original balance of \$225,000 at 7.5 percent interest with a term of 30 years. The Company provided a balance sheet for the water tank loan; payments of \$1,602.25 began in October of 2004. Loan

⁵² GCW Testimony at 7.

⁵³ See Exhibit Staff/105, Brock /45-72

payments changed in April of 2008 to \$1,440.70, without explanation, leaving a balance as of December 2016 of \$204,020. The Company indicates that no formal loan documents exist. In the Company's response to DR 63,⁵⁴ which requested a comparison of the current market rate and 7.5 percent loan for the \$204,020 balance, the Company objected to answering. Staff notes that per the Company's response in DR 49,⁵⁵ this loan may be with an affiliated interest and may therefore require an affiliated interest contract filing. In the Company's response to DR 65,⁵⁶ it indicates that the on demand loan was paid off with no interest attached.

Q. What capital structure did Staff recommend?

A. Staff is recommending the use of using GCW's actual capital structure in this proceeding. As described above, GCW currently has loans outstanding of \$204,000. The remainder of the capital necessary for GCW to fund its rate base comes in the form of equity.

Q. Please summarize Staff's Cost of Capital recommendation in this proceeding.

A. Based on the return on equity of 9.25 percent supported by Mr. Muldoon and the actual capital structure described above, Staff is recommending the cost of capital shown below in Table 12.

⁵⁴ See Exhibit Staff/105, Brock /70.

⁵⁵ See Exhibit Staff/105, Brock /63.

⁵⁶ See Exhibit Staff/105, Brock /72.

TABLE 12- RECOMMENDED COST OF CAPITAL

Cost of Capital					
		Cap			
	Amount	Struct	Cost	Wtd. Cost	
Charlomont Hill LLC (water tank)	204,020	41.45%	7.50%	3.11%	
		0.00%		0.00%	
		0.00%		0.00%	
Total Debt	204,020	41.45%		3.11%	
Equity	288,166	58.55%	9.25%	5.42%	
		0.00%		0.00%	
		0.00%		0.00%	
Total Equity	288,166	58.55%		5.42%	ROE
Total Debt + Equity	492,186	100.00%		8.52%	ROR

ISSUE 7: RATE SPREAD AND RATE DESIGN

Q. What are the components of Staff's recommended rates?

A. CGW's rates are comprised of a mixture of metered and flat base rates. Base rates are charged regardless of water use along with a corresponding commodity or usage rate that is charged per 100 cf of water used for metered customers. Compared to rates based on only commodity usage, metered base rate design relies less on the usage of water to maintain Company funds and ensures that there are adequate funds for the Company to operate during the winter months when there is generally less water use.

Flat rate base customers do not have meters; consumption for flat rated customers is not billed as it cannot be measured. Flat rates for water are billed to customers at a static, year round rate. While static rates provide stability for the Company, they do not encourage customers to save money in order to reduce monthly bills like their metered counterpart.

Q. What types of changes are reflected in Staff's recommended rate structure?

A. The current and proposed rate designs do not apply the standard meter factors that Commission Staff has been moving toward for other water utilities. In the rates adopted in UW 145, the factors assigned to represent the billing ratios for the larger sized meter and line sizes were only slightly higher than their physically smaller counterparts and were far lower than standard factors.

Additionally, bills for individual users served by master meter customers were not based on meter size at all.

To move the rate structure for the Company in the direction that Staff has been moving, changes to the current Company billing practice are warranted, which affects the proposed rate spread and design. The Company should bill customers based on the size of their meter and its associated consumption. While a tabular presentation of this this approach may appear to reduce the number of metered customers, it actually eliminates a distortion that results from the current rate design. Flat rate water customers will continue to be billed base on the line size of their service.

Q. Please describe Staff's recommended rate spread.

A. Staff's recommendation for rate spread and design in UW 174 changes the current billing practice to billing only for the actual size and number of meters in the field along with the corresponding consumption. As anticipated in UW 145, this stops the billing practice of billing for units based on the number and size of lines that run past the Master Meter. While this reduces the number of metered

customers that are listed in the rate spread table from 393 to 147, this results in a more equitable billing methodology that better enables use of the factors used by Staff. It also sends a clearer price signal to customers because rates are based on meter size, not line sizes that are located beyond the meter.

This shift is reflected below in the proposed rate spread table as a decreased number of metered customers. Rates are spread using a percentage of revenues expressed as a calculation between the numbers of metered customers (47.10 percent) in relation to the number of flat rated customers (52.90 percent), illustrated in Table 13.

Table 13. Rate Spread

Rate Spread		
TOTAL REVENUE REQUIREMENT	173,386	
REVENUE FROM WATER SALES	165,348	Allocation Factor
REVENUE FROM WATER SALES		
Residential and Commercial Flat Rate	87462	52.90%
Residential and Commercial Metered Rate	77887	47.10%
REVENUE FROM SOURCES OTHER THAN WATER SALES		
Miscellaneous Service Charges	4,562	
Fire Protection Sales (Hydrant Mtc)	1,490	
Commercial Water Haulers	1,986	
TOTAL REVENUE (Must equal Total Revenue Requirement)	173,386	

Q. Please describe Staff's recommended rate design.

A. As discussed previously, to ensure fair and equitable rates, the metered and flat rate allocation factors should be moved in this rate case toward what Staff has commonly referred to as standard AWWA factors. Under this proposal, factors allocating costs are moved toward the standard factors used to bill in relation to the amount of water delivered by the meter or line size. This

proposed change to increase the allocation factors of the larger meter and flat rated line size customers effectively shifts to a more appropriate allocation of the water system costs based on the demand customers place on the water system. Moving customers toward standard meter allocation factors generally helps to decrease subsidies the larger meter sizes are currently receiving. While subsidies will exist until factors can be moved to full standard allocation factors in future rate cases, it is not advisable to move the standard meter allocation factors fully in this rate case due to the likelihood of rate shock to large meter and flat rate line sizes.

Staff's recommendation makes substantial progress toward the use of standard AWWA factors is the best alternative given that it has been eight years since the Company's last rate case filing.

Staff has removed all flat rate line service sizes that do not have current customers (flat rate customers exist only the 3/4, one and two inch line services). While the same standard meter factors are often employed irrespective of whether the service is flat or metered, Staff recommends employing a different factor for the metered 2 inch and flat rated 2 inch rates in this case in order to provide balance between the 2 inch flat rate monthly average rate. Staff proposes to a add a base rate for 3 inch meters, as meter records provided in response to DR 93⁵⁷ include two 3 inch meters in the field.

In terms of designing how metered revenues are to be allocated between the base and commodity rate, Staff proposes to keep the Company's

⁵⁷ See Exhibit Staff/105, Brock /10.

current 70 percent of customer metered rates allocation to the base (or guaranteed) rate and 30 percent allocation to the consumption (or fluctuating) rate. While Staff notes this varies from the traditional 60/40 split employed for rate spread design, this was the allocation adopted in UW 145 based on the Company's assertion that 70 percent of its costs are fixed. This rate spread ensures more stability for the Company due to the fluctuation in population of this resort community.

Staff's proposal for the commodity rate for the residential/commercial customers is \$0.93 for each 100 cf of water used and \$0.30 per customer for fire hydrant maintenance. Staff's Proposed Rates are shown in Tables 14-18. Note that Staff's recommendation for these rates would be affected by any of the cost changes anticipated earlier in this Testimony, such as might occur if Al agreements are approved by the Commission for larger amounts than Staff included in the rate model that produces the below rates.

Table 14.—Staff Proposed Metered Rates

1

2

Rate Design						
Residential and Commen	cial Metered	d Service			Revenue Allocation:	77,887
					Allocated to Base Rates:	70.00%
					Allocated to Commodity Rates:	30.00%
Base Rates					Revenue Allocation:	54,521
			Customer	% of		
Meter Size	Customers	Factors	Equivalency	Total	Revenue Allocation	Base Rate
5/8" and/or 3/4"	73	1.5	110	27.76%	\$ 15,133	\$ 17.28
1"	16	2.0	32	8.11%	\$ 4,422	\$ 23.03
1 1/2"	31	3.0	93	23.57%	\$ 12,853	\$ 34.55
2"	20	5.0	100	25.35%	\$ 13,820	\$ 57.58
3"	3	7.0	21	5.32%	\$ 2,902	\$ 80.62
4"	3	8.0	24	6.08%	\$ 3,317	\$ 92.13
6"	1	15.0	15	3.80%	\$ 2,073	\$ 172.75
TOTAL	147		395	100.00%	\$ 54,521	

Table 15.---Staff Proposed Flat Rates

Rate Design						
Residential and Commer	cial Flat Rate	Service			Revenue Allocation:	87,462
					Allocated to Base Rates:	100.00%
					Allocated to Commodity Rates:	0.00%
Base Rates					Revenue Allocation:	87,462
			Customer	% of		
Line Size	Customers	Factors	Equivalency	Total	Revenue Allocation	Base Rate
5/8" and/or 3/4	256	1.5	384	86.68%	\$ 75,813	\$ 24.68
1"	2	2.5	5	1.13%	\$ 987	\$ 41.13
1 1/2"		5.0	-	0.00%	\$ -	\$ 82.26
2"	9	6.0	54	12.19%	\$ 10,661	\$ 98.72
TOTAL	267	18.0	443	100.00%	\$ 87,462	

Table 16. –Staff Proposed Commodity Rate

1

2

3

Commodity Rate				Revenue Allocation:	23,366
Annual Consumption	2,507,585	cubic feet			
Unit of Measurement	100	cubic feet			
Annual Units of Consumption	25,076	Units			
·					
Commodity Rate:	\$ 0.93181	per unit			

Table 17. Staff Proposed Water Hauler Rate

Rate Design				
Water Haulers			Revenue Allocation:	1,986
			Allocated to Base Rates:	0.00%
			Allocated to Commodity Rates:	100.00%
Commodity Rate			Revenue Allocation:	1,986
Annual Consumption	213,600	cubic feet		
Unit of Measurement	100	cubic feet		
Annual Units of Consumption	2,136	Units/cfs		
Commodity Rate:	\$ 0.92978	per unit		

Table 18. Staff Proposed Fire Hydrant Rate

D. I. D. I.						
Rate Design						
Fire Hydrants					Revenue Allocation:	1,490
					Allocated to Base Rates:	100.00%
					Allocated to Commodity Rates:	0.00%
Base Rates					Revenue Allocation:	1,490
			Customer	% of		
Meter Size	Customers	Factors	Equivalency	Total	Revenue Allocation	Base Rate
ALL	414	1.0	414	100.00%	\$ 1,490	\$ 0.30
TOTAL	414		414	100.00%	\$ 1,490	

Q. What are the effects of Staff's recommendation on the average customer bill?

1

2

3

4

A. The effects of Staff's proposed adjustments on the average customer's monthly bills are shown in Table 19 below:

Table 19. -Staff Proposed Average Bills and Consumption

			А	VER	AGE BILLS	
Line Type & Size	Test Year Customers	Test Year Consumption (cf)	Current Rate	F	Staff Proposed Rate	Difference (%)
Water - METERED Residential/Commercial						
5/8" or 3/4"	73	453,414	\$21.66	\$	22.10	2.04%
1"	16	219,267	\$32.61	\$	33.68	3.26%
1 1/2"	31	679,979	\$44.57	\$	51.58	15.73%
2"	20	839,453	\$68.98	\$	90.18	30.72%
3"	3	0	\$33.93	\$	80.62	137.60%
4"	3	314,733	\$132.80	\$	173.60	30.72%
6"	1	739	\$41.12	\$	173.33	321.52%
TOTAL	147	2,507,585				
Water - FLAT						
Residential/Commercial						
5/8" or 3/4"	256	flat	\$20.75	\$	24.68	18.93%
1"	2	flat	\$24.17	\$	41.13	70.18%
2"	9	flat	\$34.53	\$	98.72	185.88%
TOTAL	267	flat				
Water - Water Haulers						
\$1.12 each/Per 100 units	2136	213,600	\$ 199.36		\$165.50	-16.98%
TOTAL	\$ 2,392.32	2136				
Fire Hydrant Maintenance						
Per Customer \$.30	414		\$ -		0.3	100
TOTAL	414	0				

Q. Does Staff have further recommendations?

A. Yes. Staff recommends the Commission Order include Conditions that the Company file a new rate case no later than January, 2021, that a meter be placed on the artesian spring source, and that the Company be ordered to meter additional customers and report on its progress annually, all as discussed above. Staff also recommends that the Commission require the Company to provide, within 60 days of an Order in this docket, the coupon rate and maturity of all outstanding debt, in light of the uncertainties and risks presented by having a substantial part of the Company's debt tied up in a loan with no written agreement that may involve an affiliated interest. If the Company fails to comply with this condition, Staff will impute a reasonable coupon rate and maturity for any outstanding debt.

Q. Does that conclude your testimony?

A. Yes.

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 101

Witness Qualification Statement

WITNESS QUALIFICATION STATEMENT

NAME: Malia Brock

EMPLOYER: PUBLIC UTILITY COMMISSION OF OREGON

TITLE: Senior Utility Analyst, Retail Rates and Water Section

ADDRESS: 201 High Street SE. Suite 100

Salem, OR 97301

EXPERIENCE: My assignments over the last eight years while at the

Oregon Commission have included service quality issues and

monitoring, various dockets, rate cases, rulemakings, and

lead investigator in the rural call completion issue. I

provide telecommunications technical support to the

Commissioners, Consumer Services Division, and other staff

members. I possess a combined total of 40 years' experience

in telecommunications. Prior experience includes team lead

and Telecommunications Administrator in Network Operations

for Department of Corrections where I was responsible to

manage and program Avaya and Nortel systems

supporting the telecommunication networks of 21 secure

secure environment locations. I was responsible for contract

maintenance, telecommunications budget, supervision,

service orders, review and supervision of switch maintenance

and upgrades. My lead duties included responsibilities for

oversight of the data and telecommunication networks, servers and email supporting 4,300 employees in 21 locations. Past employment with PNB/US West/Qwest for 25 years add telecommunications experience as network technician, complex line assigner, assignment, carrier services, and customer service.

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 102

Exhibits in Support of Testimony

C	Name Carlo Carra					C+-# /4.02
	y Name: Gov't Camp No. UW 174					Staff/102 Brock/1
	ar: 2016					·
				Company		
				Proposed Increase		Staff Proposed Increase
Reven	nue Requirement			73.64%		-1.71%
				70.0170		217270
	REVENUES	Test Year-2016	Company Adjustments	Company Proposed Totals	Staff Adjustments to Company Totals	Staff Proposed Totals
460 461.1	Unmetered Residential Flat Rate Water Sales	51,415	38,941	\$ -	(2,894)	\$ -
461.2	Commercial Flat Rate Water Sales	16,140	11,787	\$ 27,927	(27,927)	3 67,402
	Residential Metered Water Sales	11,520	9,499	\$ 21,019	(21,019)	
460	Commercial Metered Water Sales	90,365	70,204	\$ 160,569	(82,682)	\$ 77,887
462 465	Fire Protection Sales (Hydrant Mtc.) Hydrant Water Sales (Water Hauling)	2,392	2,188 1,839	\$ 2,188 \$ 4,231	(698)	\$ 1,490 \$ 1,986
466	Water Sales for Resale			\$ -	-	\$ -
471	Miscellaneous Services	4,562	(4,562)	\$ -	4,562	\$ 4,562
475	Cross Connection Control Other			\$ -		\$ -
	Other			\$ -		\$ -
	Total Revenue	\$ 176,394	\$ 129,896	\$ 306,290	\$ (132,904)	\$ 173,386
Λ	OPERATING EXPENSES					
Acct . 601	Salaries and Wages - Employees			\$ -	\$ -	\$ -
603	Salaries and Wages - Officers	28,258	28,524	\$ 56,782	\$ (47,182)	\$ 9,600
604	Employee Pension & Benefits Purchased Water	-	24,000	\$ 24,000		\$ -
610 611	Purchased Water Telephone/Communications	3,171	(1,748)	\$ -	\$ -	\$ 1,003
615	Purchased Power	197	(2)7-10)	\$ 197	\$ -	\$ 197
616	Fuel for Power Production	-	-	\$ -	\$ -	\$ -
617 618	Other Utilities Chemical / Treatment Expense	-		\$ -	\$ -	\$ -
619	Office Supplies	767	-	\$ 767	\$ -	\$ 767
619.1	Postage	462	-	\$ 462	\$ -	\$ 462
620 621	O&M Materials/Supplies Repairs to Water Plant	6,583 6,171	-	\$ 6,583 \$ 6,171	\$ -	\$ 6,583 \$ 6,171
631	Contract Svcs - Engineering	-	-	\$ -	\$ -	\$ -
632	Contract Svcs - Accounting	3,279	-	\$ 3,279	\$ -	\$ 3,279
633 634	Contract Svcs - Legal Contract Svcs - Management Fees	-	1,782	\$ 1,782	\$ -	\$ 1,782
635	Contract Svcs - Ividing emerit rees	2,310	(1,055)	\$ 1,255	\$ -	\$ 1,255
636	Contract Svcs - Labor	10,133	(9,319)	\$ 814	\$ -	\$ 814
637 638	Contract Sycs - Billing/Collection	8,198	1,640	\$ 9,838	\$ -	\$ 9,838
639	Contract Svcs - Meter Reading Contract Svcs - Other	48,640	1,319	\$ -	\$ (25,869)	\$ 24,090
641	Rental of Building/Real Property	7,000	15,000	\$ 22,000	\$ (15,000)	\$ 7,000
642	Rental of Equipment	-	-	\$ -	\$ -	\$ -
643 648	Small Tools Computer/Electronic Expenses	107	-	\$ - \$ 107	\$ -	\$ -
650	Transportation	2,742	(90)	\$ 2,652	\$ (873)	\$ 1,779
656	Vehicle Insurance	1,322	- (0.70)	\$ 1,322	\$ (1,322)	\$ -
657 658	General Liability Insurance Workers' Comp Insurance	4,044	(978)	\$ 3,066	\$ -	\$ 3,066
659	Insurance - Other			\$ -	\$ -	\$ -
666	Amortz. of Rate Case		6,333	\$ 6,333	\$ -	\$ 6,333
667 670	Gross Revenue Fee (PUC) Bad Debt Expense	479	40	\$ 519 \$ -	\$ 1	\$ 520 \$ -
671	Cross Connection Control Program	150	(75)	\$ 75	\$ -	\$ 75
673	Training and Certification	-	-	\$ -	\$ -	\$ -
674 675	Consumer Confidence Report Miscellaneous Expense	2,759	(215)	\$ 157 \$ 2,544	\$ -	\$ 157 \$ 2,354
OE1	Other Expense 1	2,739	(213)	\$ 2,544	\$ (190)	\$ 2,354
OE2	Other Expense 2			\$ -	\$ -	\$ -
OE3 OE4	Other Expense 3 Other Expense 4			\$ -	\$ -	\$ -
OE5	Other Expense 5			\$ -	\$ -	\$ -
	TOTAL OPERATING EXPENSE	\$ 136,929	\$ 65,158	\$ 202,087	\$ (114,855)	\$ 87,232
	OTHER REVENUE DEDUCTIONS					
403	Depreciation Expense	23,498		\$ 23,498	\$ (2,262)	\$ 21,236
406	Amort of Plant Acquisition Adjustment			\$ -	\$ -	\$ -
407	Amortization Expense Property Tax	9,334	78	\$ - \$ 9,412	\$ -	\$ -
	Payroll Tax	7,742	(2,462)	\$ 9,412		\$ 8,211
408.13	Other		(-,.32)	\$ -	\$ -	\$ -
	Federal Income Tax			\$ -	\$ 7,086 \$ 2,384	\$ 7,086 \$ 2,384
	Oregon Income Tax Extraordinary Items Income Tax			\$ -	\$ 2,384	\$ 2,384
	TOTAL REVENUE DEDUCTIONS Net Operating Income	\$ 177,503 \$ (1,109)	\$ 62,774 \$ 67,122	\$ 240,277 \$ 66,013	\$ (108,847)	\$ 131,430
	UTILITY RATE BASE					
101 105	Utility Plant in Service	1,051,997		\$ 1,051,997 \$ -	\$ 1,019,060	\$ 2,071,057
105	Construction Work in Progress - Accumulated Depreciation of Plant	520,939		\$ 520,939	\$ 193,622	\$ 714,561
271	- Contributions in Aid of Construction	230,500		\$ -	\$ 1,077,641	\$ 1,077,641
272	+ Accumulated Amortization of CIAC			\$ -	\$ 195,867	\$ 195,867
281	- Accumulated Deferred Income Tax - Excess Capacity			\$ -	\$ -	\$ -
	= NET RATE BASE INVESTMENT	\$ 531,058	\$ -	\$ 531,058		
	Plus: (working capital)			A 2 - 2 - 2		
151	Materials and Supplies Inventory	10,195 11.411	5.430	\$ 10,195 \$ 16,841		\$ 10,195 \$ 7,269
151		10,195 11,411 \$ 552,664	5,430 \$ 5,430	\$ 10,195 \$ 16,841 \$ 558,094	\$ (9,572)	\$ 7,269

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 103

Exhibits in Support of Testimony

	Name: Gov't Camp . UW 174						Staff, Bro
est Year:	2016						
Adjustn	nent Summary						
	REVENUES		Company posed Totals		Staff stments to	Staff Proposed Totals	Explanation of Adjustment
	Jnmetered	\$	-	\$	-	\$ -	Explanation of Adjustment
R	Residential Flat Rate Water Sales	\$	90,356	\$	(2,894)	\$ 87,462	revenue sensitive adjustment-residential and commercial flat rate combined
C	Commercial Flat Rate Water Sales	\$	27,927	\$	(27,927)	\$ -	revenue sensitive adjustment-residential and commercial flat rate combined
R	Residential Metered Water Sales	\$	21,019	\$	(21,019)	\$ -	revenue sensitive adjustment-combining res and commercial metered rate
	Commercial Metered Water Sales	\$	160,569	\$	(82,682)	\$ 77,887	revenue sensitive adjustment-combining res and commercial metered rate
	Fire Protection Sales (Hydrant Mtc.)	\$	2,188	\$	(658)	\$ 1,490	DR 36-3 year avg of expenses is \$1263 per year/2016 test yr expense was \$1,530
	Hydrant Water Sales (Water Hauling)	\$	4,231			\$ 1,986	Adjusted to Staff proposed consumption rate
	Nater Sales for Resale Miscellaneous Services	\$	-	\$	4,562	\$ - \$ 4,562	Revenues added for inclusion in rate case as revenue source.
	Cross Connection Control	\$		\$		\$ -	nevenues audeu for inclusion in face case as revenue source.
	Other	\$	-	\$	-	\$ -	
		0 \$	-	\$	-	\$ -	
Т	Total Revenue	\$	306,290	\$	(132,904)	\$ 173,386	
Acct . C	OPERATING EXPENSES						
601 S	Salaries and Wages - Employees	\$	-	\$	-	\$ -	
	Salaries and Wages - Officers	\$	56,782	\$	(47,182)	\$ 9,600	Adj. to same salary as UW 145 due to no Al contracts filed or approved
	Employee Pension & Benefits	\$	24,000	-	(24,000)	\$ -	Remove as no current benefit to customers; imprudent expense.
	Purchased Water Felephone/Communications	\$	1 // 22	\$	(420)	\$ -	DP 14 Pouble entry per Company
	Purchased Power	\$	1,423 197	\$	(420)	\$ 1,003 \$ 197	DR 14Double entry per Company
	uel for Power Production	\$	-	\$	-	\$ -	
	Other Utilities	\$	-	\$	-	\$ -	
	Chemical / Treatment Expense	\$	-	\$	-	\$ -	
	Office Supplies	\$	767	\$	-	\$ 767	
	Postage	\$	462	\$	-	\$ 462	
	D&M Materials/Supplies	\$	6,583	\$	-	\$ 6,583	
	Repairs to Water Plant Contract Svcs - Engineering	\$	6,171	\$	-	\$ 6,171	
	Contract Svcs - Accounting	\$	3,279	Ś	-	\$ 3,279	
	Contract Svcs - Legal	\$	1,782	_	-	\$ 1,782	
	Contract Svcs - Management Fees	\$	-	\$	-	\$ -	
	Contract Svcs - Testing	\$	1,255	\$	-	\$ 1,255	
	Contract Svcs - Labor	\$	814	\$	-	\$ 814	
	Contract Svcs - Billing/Collection	\$	9,838	\$	-	\$ 9,838	
	Contract Svcs - Meter Reading Contract Svcs - Other	\$	49,959	\$	(25,869)	\$ -	DR 42Removed 3 year avg. (2014-2016) of Capitalized Labor
	Rental of Building/Real Property	\$	22,000	\$	(15,000)	\$ 7,000	Remved addntl Al costs pending review of newly filed Al contracts by Staff.
	Rental of Equipment	\$	-	\$	-	\$ -	,,
	Small Tools	\$	-	\$	-	\$ -	
	Computer/Electronic Expenses	\$	107	\$	-	\$ 107	
	Fransportation	\$	2,652	\$	(873)	\$ 1,779	Adj Buick to mileage using credit card receipts for gas; cost out of porportion to
	/ehicle Insurance General Liability Insurance	\$	1,322 3,066	\$	(1,322)	\$ -	DR 28, 29, 69, 70, 71Buick reimbursed as mileage, rmv insurance, not in UW 14
	Workers' Comp Insurance	\$	3,000	\$	-	\$ -	
	nsurance - Other	\$	-	\$	-	\$ -	
666 A	Amortz. of Rate Case	\$	6,333	\$	-	\$ 6,333	
	Gross Revenue Fee (PUC)	\$	519	\$	1	\$ 520	
	Bad Debt Expense	\$		\$	-	\$ -	
	Cross Connection Control Program	\$	75	\$	-	\$ 75 \$ -	
	Fraining and Certification Consumer Confidence Report	\$	157	\$	-	\$ - \$ 157	
	Miscellaneous Expense	\$	2,544		(190)	\$ 2,354	Removed finance charges on bills.
	Other Expense 1	\$	-	\$	-	\$ -	
OE2 C	Other Expense 2	\$	-	\$	-	\$ -	
	Other Expense 3	\$	-	\$	-	\$ -	
	Other Expense 4	\$	-	\$	-	\$ -	
	Other Expense 5 TOTAL OPERATING EXPENSE	\$	202,087	\$ \$	(114,855)	*	
			, -		. , -,	,	
	OTHER REVENUE DEDUCTIONS Depreciation Expense	\$	23,498	\$	(2,262)	\$ 21,236	Reflects Plant adj; ratemodel re-calculation
	Amort of Plant Acquisition Adjustment	\$	-	\$	-	\$ -	neneces rune auf, ratemoderre carculation
	Amortization Expense	\$		\$	-	\$ -	
	Property Tax	\$	9,412	\$	(1,201)	\$ 8,211	Rmvd Property Tax for property belonging to trustee/Lesli Ann Bekins pending A
	Payroll Tax	\$	5,280	\$	-	\$ 5,280	
08.13 C	Other Federal Income Tax	\$	-	\$	7,086	\$ - \$ 7,086	
	ederal Income Tax Oregon Income Tax	\$	-	\$	2,384	\$ 7,086	
	Extraordinary Items Income Tax	\$	-	\$	-	\$ -	
Т	TOTAL REVENUE DEDUCTIONS	\$	240,277	\$	(108,847)	\$ 131,430	
ı	Net Operating Income	\$	66,013	Ş	(24,056)	\$ 41,957	
	JTILITY RATE BASE	4			. 0.6	A 0	
	Utility Plant in Service	\$	1,051,997	\$	1,019,060		Rmvd meter allwnc, dble Tyrolean Meadows entry/CWIP/corrected Tank expens
	Construction Work in Progress Accumulated Depreciation of Plant	\$	520,939	\$	193,622	\$ - \$ 714,561	Automatic Rate Model adj. per other Plant adjustments.
	Contributions in Aid of Construction	\$	J2U,939 -	\$	1,077,641	\$ 1,077,641	Automatic Nate Woder auj. per Other Frant aujustifients.
	- Accumulated Amortization of CIAC	\$	-	\$	195,867	\$ 195,867	
	Accumulated Deferred Income Tax	\$	-	\$	-	\$ -	
-	Excess Capacity	\$	-	\$	-	\$ -	
	NET RATE BASE INVESTMENT	\$	531,058	\$	(56,336)	\$ 474,722	
451	Plus: (working capital)		***				
	Materials and Supplies Inventory	\$	10,195		(9,572)	\$ 10,195	
	Working Cash (Total Op Exp /12) TOTAL RATE BASE	\$ \$	16,841 558,094		(9,572) (65,908)	\$ 7,269 \$ 492,186	
	Rate of Return	7	11.83%		0.00%	8.52%	

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 104

Exhibits in Support of Testimony

	Invested Plant										
			Utility	Less Excess Capacity		NARUC		Final		Accum. Deprec.	
Acct		Date	Plant Orig	Adj to	Total Adj	Asset	Annual	Month of		Ending	Remaining
No.	Account Description	Acquired	Cost	Plant	Plant	Life	Deprec	Deprec	2016	2016	Plant
301	Organization	Various	-	-	-	-		Various	-	-	-
302	Franchises	Various	-	-	-	-	•	Various	-	•	-
303	Land and Land Rights	Various	-	-	•	-	•	Various	-	-	•
304	Structures and Improvements	Various	15,038	-	15,038	35	430	Various	418	6,311	8,727
305	Collecting and Impounding Reservoirs	Various	-	-	-	50	-	Various	-	-	-
306	Lake, River and Other Intakes	Various	-	-	-	35	•	Various	-	-	-
307	Wells and Springs	Various	-	-	-	25	-	Various	-	-	-
308	Infiltration Galleries and Tunnels	Various	-	-	-	25	-	Various	-	-	-
309	Supply Main	Various	330,691	-	330,691	50	6,614	Various	6,215	232,740	97,951
310	Power Generation Equipment	Various	-	-		30		Various	-		-
311	Pumping Equipment	Various	-	-	•	20	•	Various	-		-
320	Water Treatment Equipment	Various	582	-	582	20	29	Various	-	582	-
330	Distribution Reservoir and Standpipes	Various	367,164	-	367,164	50	7,343	Various	7,340	128,388	238,776
331	Transmission and Distribution Mains	Various	116,230	-	116,230	50	2,325	Various	2,311	44,814	71,416
333	Services	Various	61,105	-	61,105	30	2,037	Various	1,763	29,465	31,640
334	Meters and Meter Installations	Various	39,892	-	39,892	20	1,995	Various	1,942	23,122	16,770
335	Hydrants	Various	13,559	-	13,559	40	339	Various	268	7,575	5,984
336	Cross Connection Control	Various	-	-	-	15	-	Various	-		-
339	Other Plant	Various	-	-	-	30	-	Various	-	-	-
340	Office Furniture and Equipment	Various	2,850	-	2,850	20	143	Various	27	2,570	280
341	Transportation Equipment	Various	12,021	-	12,021	7	1,676	Various	-	12,021	-
343	Tools, Shop, and Garage Equipment	Various	7,347	-	7,347	15	490	Various	361	5,893	1,454
344	Laboratory Equipment	Various	-	-	-	15		Various	-	-	-
345	Power Operated Equipment	Various	174	-	174	10	17	Various	-	174	-
346	Communication Equipment	Various	-	-	-	10	-	Various	-		-
347	Electronic/Computer Equipment	Various	1,246	-	1,246	5	249	Various	-	1,246	-
348	Miscellaneous Equipment	Various	25,517	-	25,517	10	2,552	Various	591	23,792	1,725
	TOTALS	Various	993,416	_	993,416	Various	26,237	Various	21,236	518,694	474,722

Original Plant In Service Cost	993,416
Less: Excess Capacity	-
"Used & Useful" Plant	993,416
Less Accum Depreciation	518,694
NET PLANT	474,722

Depreciation Expense	21,236

Plant Deleted:

Tiant Deletea.						
Tyrolean Meadows Overruns True Up	Dec 2017	14,419	14,419	50	288	Dec 2067
ADD: Allowance for Instaling Meters	Oct 2011	49,500	49,500	20	2,475	Sep 2031
CWIP-Line Replacement	Jan 2018	5,441	5,441	50	109	Dec 2067

Plant Added:

	Original					
DR 37100,000-GAL WOOD TANK corrected original entry of	Amount June		Corrected			
\$48,475 to \$59,249.22; original install date unchanged 6-1-1980	1980	\$48,475	Amount	59,249	Difference	10,774

	CIAC Plant											
Acct		Date	Utility Plant Orig	Less Excess Capacity Adj to	Total Adj	NARUC Asset	Annual	Final Month of	Befor		Accum. Deprec. Ending	Remainin
No.	Account Description	Acquired	Cost	Plant	Plant	Life	Deprec	Deprec	e 1985	2016	2016	Plant
301	Organization	Various	-	-	-	-	-	Various	-	-		-
302	Franchises	Various	-	-	-	-	-	Various	-	-		-
303	Land and Land Rights	Various	-	-	-	-	-	Various	-	-	-	-
304	Structures and Improvements	Various	-	-	-	35	-	Various	-	-	-	-
305	Collecting and Impounding Reservoirs	Various	-	-	-	50	-	Various	-	-		-
306	Lake, River and Other Intakes	Various	-	-	-	35	-	Various	-	-	-	-
307	Wells and Springs	Various	-	-	-	25	-	Various	-	-		-
308	Infiltration Galleries and Tunnels	Various	-	-	-	25	-	Various	-	-	-	-
309	Supply Main	Various	-	-	-	50	-	Various	-	-	-	-
310	Power Generation Equipment	Various	-	-	-	30	-	Various	-	-	-	-
311	Pumping Equipment	Various	-	-	-	20	-	Various	-	-	-	-
320	Water Treatment Equipment	Various	-	-	-	20	-	Various	-	-	-	-
330	Distribution Reservoir and Standpipes	Various	-	-	-	50	-	Various	-	-	-	-
331	Transmission and Distribution Mains	Various	1,077,641	-	1,077,641	50	21,553	Various	-	21,553	195,867	881,77
333	Services	Various	-	-	-	30	-	Various	-	-	-	-
334	Meters and Meter Installations	Various	-	-	-	20	-	Various	-	-	-	-
335	Hydrants	Various	-	-	-	40	-	Various	-	-	-	-
336	Cross Connection Control	Various		-	-	15	-	Various	-	-		-
339	Other Plant	Various	-	-	-	30	-	Various	-	-	-	-
340	Office Furniture and Equipment	Various		-	-	20	-	Various	-	-		-
341	Transportation Equipment	Various	-	-	-	7	-	Various	-	-	-	-
343	Tools, Shop, and Garage Equipment	Various	-	-	-	15	-	Various	-	-	-	-
344	Laboratory Equipment	Various	-	-	-	15	-	Various	-	-		-
345	Power Operated Equipment	Various	-	-	-	10	-	Various	-	-		-
346	Communication Equipment	Various	-	-	-	10	-	Various	-	-	-	-
347	Electronic/Computer Equipment	Various	-	-	-	5	-	Various	-	-	-	-
348	Miscellaneous Equipment	Various	-	-	-	10	-	Various	-	-	-	-
	TOTALS	Various	1.077.641		1,077,641		21.553	Various		21.553	195.867	881.77

Original Plant In Service Cost	1,077,641
Less: Excess Capacity	-
"Used & Useful" Plant	1,077,641
Less Accum Amort of CIAC	195,867
NET PLANT	881,774

Depreciation Expense	21,553
----------------------	--------

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 105

Exhibits in Support of Testimony

DR 19 requested whether the issue regarding customers identified in Condition 11 of the Stipulated Agreement in UW 145 that were billed for a smaller than actual sized meters had been corrected. The Company's response indicates that the Master Meter is sized at 1.5 inches and the customers that are behind the Master Meter are billed a 3/4 inch meter size due to their each having a 3/4 inch line size. In supplemental DR 67:

a. Please identify all customers by name that are currently being billed rates as a 3/4 inch meter size that do not have individual meters.

RESPONSE:

Objection. DR 68 is ambiguous and vague as Staff appears to be confusing individual units under a master meter with customers. The master meter customer is the customer of record. Not waiving the foregoing objection, the Company responds that the master meter customer does not provide the Company with names for the individual units, nor is that information necessary to provide water service.

b. Please provide the number of customers currently billed for a meter and metered usage that do not have their own individual meters, including all customers who are served by a Master meter that also serves other customers.

RESPONSE:

Objection. Sub-part (b) of DR 68 is vague and indicates a lack of understanding as to how master meter accounts function. Not waiving this objection, the Company responds that there are 304 individual units served under master meter accounts. The individual units do not have individual meters and are not billed for individual metered usage. The Company charges the master meter customer a base rate for the size of the line going to each individual unit under the master meter account. The total consumption is also billed to the master meter customer. Consumption is measured through the master meter.

c. Please comprehensively explain the methodology employed to bill the customers referred to above in DR 67(a) and DR 67(b), including the methodology used to calculate their usage.

RESPONSE:

Objection. Sub-part (c) is vague and confusing. Staff's DR 67(a) sought information about the Company's intentions to complete its metering program and Staff's DR 67(b) requests information about how Hoodland Fire Station, Stockton, and Smith were determined to be low volume customers. Not waiving this objection and for the purpose of efficiency the Company assumes this sub-part contains a typographical error and intended to request information about DR 68(a) and DR 68(b).

If staff is asking about DR 68(a) and (b), each master meter customer is billed at the tariffed rate for the size of line to each individual unit under the master meter account. Usage is calculated off of the master meter.

If staff is asking about customers referenced in DR 67(a) and DR 67(b), they are billed as flat-rate customers at the tariffed rate for the size of the line serving the customer. Flat rate customers' usage is not calculated.

d. Please explain whether and why the customers referred to above in DR 67(b) are billed individually as flat-rate customers.

RESPONSE:

Objection. Sub-part (d) is vague and confusing. Staff's DR 67(b) requests information about how Hoodland Fire Station, Stockton, and Smith were determined to be low volume customers. Not waiving this objection and for the purpose of efficiency the Company assumes this sub-part contains a typographical error and intended to request information about DR 68(b).

If staff is asking about DR 68(b), the units under a master meter, then the answer is that they are not billed individually as flat rate customers.

If staff is asking about customers referenced in 67(b), they are flat rate customers because they were classified as flat-rate customers in UW 145, and they are not metered.

e. Please explain whether and why the Master Meter that is in service for the customers referred to above in DR 67(b) is charged for the entire water service at the rate for 1.5 inch metered service.

RESPONSE:

Objection. Sub-part (e) is vague and confusing. Staff's DR 67(b) requests information about how Hoodland Fire Station, Stockton, and Smith were determined to be low volume customers. Not waiving this objection and for the purpose of efficiency the Company assumes this sub-part contains a typographical error and intended to request information about DR 68(b). None of the individual units referred to in DR 68(b) are individually billed or deemed the master meter customer. The Company charges the master meter customer a base rate for the size of the line going to each individual unit under the master meter account. How the master meter customer charges the individual unit served is outside the Company's purview.

Please provide billing data to support Government Camp Water Company Inc.'s (Government Camp) sales operating revenue for the 2016 test year. In that billing data, please provide 1) the customer names, 2) the line or meter size, 3) the usage for metered customers, 4) the amount billed for usage, 5) the amount billed for the base charge and 6) the amount billed for other charges for each of the amounts billed to each customer account for each of the four quarters billed in 2016.

RESPONSE:

Billing data provided in separate attachment as Data Response 1 Attachment.

Table 9 Excerpted from DR 1

Date 🕶	Num ▼	ltem 🚜	Item Description	▼ Account	Split _	• Qty •	Credit ▼
01/12/2016 12-	-6359	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
03/28/2016 12-	-6726	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
04/01/2016 12-	-6511	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
05/24/2016 12-	-6728	Connection Fee		471.3 · New Connection Fees	141 · Accounts Receivable	1.00	450.00
05/27/2016 12-	6729	Connection Fee		471.3 · New Connection Fees	141 · Accounts Receivable	1.00	450.00
06/23/2016 12-	-6727	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
07/20/2016 12-	-7095	Connection Fee		471.3 · New Connection Fees	141 · Accounts Receivable	1.00	450.00
08/01/2016 12-	-7096	Connection Fee		471.3 · New Connection Fees	141 · Accounts Receivable	1.00	450.00
09/12/2016 12-	-7099	Connection Fee		471.3 · New Connection Fees	141 · Accounts Receivable	1.00	450.00
09/14/2016 12-	-7098	Connection Fee		471.3 · New Connection Fees	141 · Accounts Receivable	1.00	450.00
10/18/2016 12-	-7470	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
10/20/2016 12-	-5995	Connection Fee		471.3 · New Connection Fees	141 · Accounts Receivable	1.00	450.00
11/28/2016 12-	-5997	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
11/28/2016 12-	-7471	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
12/03/2016 12-	-5999	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
12/12/2016 12-	-5998	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
12/12/2016 12-	-7468	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00
12/12/2016 12-	7472	Administrative Fee	New account set-up	471.2 · Application Fees	141 · Accounts Receivable	1.00	25.00

Table 10, Excerpted from DR 1

Date ▼	Num ₹	Item 🗷 Item Description 🔽	Account	▼ Split	-	Qty ▼	Credit 🕶
01/01/2016 12	2-6279 MH 4"		461.2 · Commercial Metered	141 · Accounts Receivable		1.00	104.64
01/01/2016 12	2-6306 MH 2"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable		1.00	89.43
02/08/2016 12	2-6360 MH	Quarterly base rate	461.7 · Metered Hydrant Sales	141 · Accounts Receivable		1.00	2,392.43
04/01/2016 12	2-6649 MH 4"	Quarterly base rate	461,2 · Commercial Metered	141 · Accounts Receivable		1.00	104.64
04/01/2016 12	2-6676 MH 2"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable		1.00	89.43
07/01/2016 12	2-7016 MH 4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable		1.00	104.64
07/01/2016 12	2-7044 MH 2"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable		1.00	89,43
10/01/2016 12	2-7390 MH 4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable		1.00	104.64
10/01/2016 12	2-7418 MH 2"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable		1.00	89.43

With respect to the billing data provided in response to DR 1, in supplemental DR 80, please explain the difference between a MH 4" metered customer, a MH 2" metered customer, a CM 2" metered customer and a CM 4" metered customer. (In this and the following DRs, please see the below billing data excerpted from the Company's response to DR 1 for an example of the data referred to in this data request).

02/08/2016 12-6360	K & E Excavating, Inc MH	Quarterly 461.7 · Metered Hydrant Sales	1,00	2,392.43
01/01/2016 12-6279	Skibowl E 361 MH 4"	Quarterly 461.2 · Commercial Metered	1.00	104.64
04/01/2016 12-6649	Skibowl E 361 MH 4"	Quarterly 461.2 · Commercial Metered	1.00	104.64
07/01/2016 12-7016	Skibowl E 361 MH 4"	Quarterly 461.2 · Commercial Metered	1.00	104.64
10/01/2016 12-7390	Skibowl E 361 MH 4"	Quarterly 461.2 · Commercial Metered	1.00	104.64
01/01/2016 12-6306	Summit Ski Area 36MH 2"	Quarterly 461.2 · Commercial Metered	1.00	89.43
04/01/2016 12-6676	Summit Ski Area 36 MH 2"	Quarterly 461.2 - Commercial Metered	1.00	89.43
07/01/2016 12-7044	Summit Ski Area 36 MH 2"	Quarterly 461.2 - Commercial Metered	1.00	89.43
10/01/2016 12-7418	Summit Ski Area 36 MH 2"	Quarterly 461.2 - Commercial Metered	1.00	89.43

RESPONSE:

MH means metered hydrant. Therefore, a MH 4" is a 4" metered hydrant. A MH 2" is a 2" metered hydrant. All MH customers are billed when the Ski Area shuts down following winter season.

- 1) K & E is a water hauler that draws water from a metered hydrant.
- 2) Summit Ski Area draws its water from a metered hydrant.
- 3) Skibowl East originally was classified like Summit Ski Area as a Metered Hydrant customer. A 4" meter was installed, and it has been reclassified as a commercial metered customer.

CM 2" and CM 4" are commercial metered customers with 2" and 4" meters, respectively.

With respect to the billing data provided in DR 1, in supplemental DR 82, please explain the consumption billed in the 2016 test year to customer Best Western Mt Hood Inn, 006. In your response, please confirm whether this customer was billed \$2.46 for consumption for the entire year in the 2016 test year.

				the second of th		
01/01/2016 12-6016	Best Western Mt Hood Inn 006	CM 6"	Quarterly 461.2 · Cor 141	· Accounts Receivable	1.00	121.29
04/01/2016 12-6384	Best Western Mt Hood Inn 006	CM 6"	Quarterly 461.2 · Cor 141	· Accounts Receivable	1.00	121.29
07/01/2016 12-6751	Best Western Mt Hood Inn 006	CM 6"	Quarterly 461.2 · Cor 141	· Accounts Receivable	1.00	121.29
10/01/2016 12-7122	Best Western Mt Hood Inn 006	CM 6 ⁿ	Quarterly 461.2 · Coi 141	· Accounts Receivable	1.00	121.29
10/01/2016 12-7122	Best Western Mt Hood Inn 006	C. Cf's u	se Water con 461.2 · Coi 141	· Accounts Receivable	219.25	2.46

RESPONSE:

Yes, \$2.46 is the correct amount for 2016 consumption for the quarter. The Company provides the Best Western Mt Hood Inn a connection to the water system for fire suppression purposes only. Consumption would increase only in event of a fire.

With respect to the billing data provided in DR 1, in supplemental DR 91, please explain why Summit Ski Area 367.1 is billed for a MH 2 inch meter base rate but has not been billed for consumption.

01/01/2015 12-6306	Summit Ski Area 367.1	MH 2"	Quarterly base rate	461.2 · Commercial Metered	1.00	89,43
04/01/2016 12-6676	Summit Ski Area 357.1	MH 2"	Quarterly base rate	461.2 · Commercial Metered	: 1.00	89.43
04/18/2016 FC 1579	Summit Ski Area 367.1	Late Pmt Penalty	1,8% on Overdue Balance	471.1 · Finance Charges	1.00	3.22
07/01/2016 12-7044	Summit Ski Area 367.1	MH 2"	Quarterly base rate	461.2 · Commercial Metered	1.00	89.43
07/18/2016 FC 1581	Summit Ski Area 367.1	Late Pmt Penalty	1.8% on Overdue Balance	471.1 · Finance Charges	1.00	4.89
07/18/2016 FC 1642	Summit Ski Area 367.1	Late Pmt Penalty	1.8% on Overdue Balance	471.1 · Finance Charges	1.00	4.98
10/01/2016 12-7418	Summit Ski Area 367.1	MH 2"	Quarterly base rate	461.2 · Commercial Metered	1.00	89.43
10/18/2016 FC 1717	Summit Ski Area 367.1	Late Pmt Penalty	1.8% on Overdue Balance	471.1 • Finance Charges	1.00	6.67
04/18/2016 FC 1566	Summit Ski Area 367	Late Pmt Penalty	1.8% on Overdue Balance	471,1 • Finance Charges	1,00	22.00
07/18/2016 FC 1643	Summit Ski Area 367	Late Pmt Penalty	1.8% on Overdue Balance	471.1 · Finance Charges	1.00	22,40
10/18/2016 FC 1718	Summit Ski Area 367	Late Pmt Penalty	1.8% on Overdue Balance	471.1 · Finance Charges	1.00	0.40

RESPONSE:

Charlie Wessinger is the "customer of record." In 2014, Mr. Wessinger turned over the management of Summit Ski Area to Mt. Hood Management. Mt. Hood Management ("MHM") paid the water bills.

The Summit Ski Area consumption bill was sent to the MHM in 2016. When payment was not received, Mr. Wessinger was rebilled for the 2016 consumption. The Company received payment from Mr. Wessinger in 2017. Since the Company bills at the end of the ski season (depending on the snow pack), a rebilled charge can be received in the next year.

In the billing data provided in DR 1, in supplemental DR 87, Skibowl E 361 is billed for a MH 4 inch meter at \$104.64 for each of the four quarters in 2016. Consumption for this account was billed twice on the same day, 3-12-2016, using the same dollar amount and consumption; \$1,422.23 for 1270 cubic feet. In your response, please explain why this same amount was billed twice on the same day and explain why this consumption was not billed for each quarter in the same manner as other customer billing data.

03/12/2016 12-6361	Skibowi E 361	C. Cf's used	Water consumption for the qu	arte 461.2 · Commercial Metered	126,985.00	1,422.23
03/12/2016 12-6361	Skibowl E 361	C. Cf's used	Water consumption for the qu	arte 461.2 · Commercial Metered	126,985.00	1,422.23
01/01/2016 12-6279	Skibowl E 361	MH 4"	Quarterly base rate	461,2 · Commercial Metered	1,00	104.64
01/18/2016 FC 1485	Skibowl E 361	Late Pmt Penalty	1.8% on Overdue Balance	471.1 · Finance Charges	1.00	3,84
04/01/2016 12-6649	Skibowl E 361	MH 4"	Quarterly base rate	461.2 · Commercial Metered	1.00	104,54
04/18/2016 FC 1556	Skibowi E 361	Late Pmt Penalty	1.8% on Overdue Balance	471.1 - Finance Charges	1.00	1.95
07/01/2015 12-7016	Skibowl E 361	MH 4"	Quarterly base rate	461.2 · Commercial Metered	1.00	104.64
10/01/2016 12-7390	Skibowl E 361	MH 4"	Quarterly base rate	461,2 · Commercial Metered	1.00	104.64
10/18/2016 FC 1708	Skibowi E 361	Late Pmt Penalty	1.8% on Overdue Balance	471.1 · Finance Charges	1.00	1.92

RESPONSE:

Originally, Skibowl E was a winter only customer. Winter only customers were billed consumption at the end of the ski season to ensure that they had funds to pay for their water consumption. During this time period in question, Skibowl E started irrigating in the summer as well; thus, Skibowl E was reclassified as a year-round consumption customer. As a year-round consumption customer, Skibowl E's meter would be read each July and consumption would be billed quarterly.

There were two billing errors on Skibowl E's account on the part of the bookkeeper/billing company. They are both related to the transition of Skibowl E from a winter consumption only customer to a year-round consumption customer. The first error was caught by Ms. Bekins in March 2016. She discovered that Skibowl E had not been billed quarterly (on 10/1/2015 and 1/1/2016) as it should have. To correct this oversite, on March 12, 2016, the Company billed Skibowl E two charges of \$1,422.23 (the two missing billings). Skibowl E paid the two bills on April 9, 2016 with a payment of \$2,844.46. This corrected the first error.

The second billing error was due to a mix up in the billing by the bookkeeper for the last two quarterly billings. The bookkeeper missed billing Skibowl E for consumption for the last two quarters, which should have been billed on 4/1/2016 and 7/1/2016. This error was discovered by Ms. Bekins as she researched staff's DR 87. It serves as a good example of why Ms. Bekins full-time management and oversight of the Company is critical.

n	D	a	2
3 2	п	~	

Please provide the actual meter reading records to support the billing data provided in DR 1.

RESPONSE:

See DR 93 Response Attachment.

Attachment, Page 1

COLLINS LAKE CHALET PROJECT Accts 311 & 311.1

			Meters Read	Meters Read	2016 Total
TYPE	Bldg #	CF/Gal	July 15 2015	July 15 2016	Cons in CF
CM	Α	CF	264910	302250	37,340
СМ	В	CF	164070	174670	10,600
CM	С	CF .	284220	311580	27,360
CM	D	CF	121460	127910	6,450
CM	E	CF	216420	235580	19,160
CM	F	CF	328720	353120	24,400
СМ	G	CF	203240	219130	15,890
CM	Н	CF .	171430	199470	28,040
CM	I	CF	85790	96790	11,000
CM	J	CF	191690	209280	17,590
CM	К	CF	178050	206490	28,440
СМ	L	CF	133160	147300	14,140
CM	M	CF	100980	130230	29,250
CM	N	CF	173510	190050	16,540
CM	0	CF	179670	199590	19,920
CM	Р	CF	136740	152820	16,080
CM	Q	CF	85990	104350	18,360
CM	R	CF	16250	20830	4,580
CM	S	CF	110530	120910	10,380
CM	Т	CF	81750	87900	6,150
CM	U	CF	25710	26280	570
CM	V	CF	85340	94130	8,790
CM	W	CF	26531	29790	3,259
CM	Х	CF	268250	301120	32,870

407,159.00 Total Cons CF 2016 101,789.75 Cons/Qtr beginning Q4 2016

COLLINS LAKE CHALET PROJECT POOL ACCT 311.2

 CM
 ClbHse
 CF
 152890
 198200
 201,870
 Total

Total Cons CF 2016 Cons/Qtr Billed

Qct 1, 2016

50467.5

DR 93 Continued, Attachment page 2

Alpine Crest

	1		1		2015	2016	2016
Act#	Name/Address	Meter Size	CF/Gal	Meter Number	Jul-15	Jul-15	TOT CONS
320	Beighley 89989 Morrison Ln	3/4"	CF	48932629	41586	45487	3,901
358	Bersaas 89722 Morrison Ln	3/4"	CF	49054712	15105	16323	1,218
161	Godon 89685 Morrison Ln	3/4"	CF	19228472	6802	8761	1,959
339	margreaves og / gu iviomson	3/4"	CF	49054708	21167	28462	7,295
317	Harris 89988 Morrison Ln	3/4"	CF	82058161	30279	32227	1,948
318	Johnson 89731 Morrison Ln	3/4"	CF	18238629	13185	19305	6,120
324	Kamikawa 30900 Marie St	3/4"	CF	49054709	50876	55769	4,893
332	Leitgeb 89848 Morrison Ln	3/4"	CF	48932627	42215	45291	3,076
314	Pruder 90014 Morrison Ln	3/4"	CF	80674124	7332	8205	873
kam	Reardon 89598 Morrison Ln	3/4"	CF	76632487	8100	10996	2,896
349	Stanton 89676 Morrison Ln	3/4"	CF	81340319	9138	9952	814
328	Stirek 90070 Morrison Ln	3/4"	GAL	89253683	22760	27070	576
368	Tietz 89966 E Morrison	3/4"	CF	92696900	2702	3177	475
321	Troyer 89799 Morrison Ln	3/4"	CF	79534658	35236	40142	4,906
251	Walsh 89614 Morrison Ln	3/4"	CF	48932630	12991	13343	352
319	Wong 30916 Marie St	3/4"	CF	79534654	10314	11176	862

Man Town 2016

C/R	ACCT#	Name/Address	MTR#	Size	C/G	Jul-15	July 201 6	TOT CONS 2016	TOT CF 2016
CM	152	Abde, Collette 30165 Blossom	48932632	1"	CF	36774	38276	1,502	1,502
RM	263	Abel 31126 E Multorpor Dr	652	3/4"	CF			0	0
CM	331	Ackerson 30765 E Meldrum	80674125	3/4"	CF	83473	114167	30,694	30,694
RM	184	Alexander 30392 E WyEast	81458998	3/4"				0	0
RM	341	Allred 31096 Muly Dr (SW #4 fnt)	60402820	2" .	CF	8370	9660	1,290	1,290
CM	302	ASB Vent/Berke 89355 E Steel Ln	52213221	1"	CF	43648	44381	733	733
СМ	5	Barlow Pass West Condos 30395 E WyEast	60820249	1 1/2"	CF	9650	21380	11,730	11,730
CM	177	Barton 30770 E Meldrum	no # avail	3/4"	CF	8019	8831	812	812
RM	356	Berman 87317 E McCartney Ct	52826338	3/4"	CF	355	364	9	9
CM	17	Bermudez E Darr Rd	81459001	3/4"	CF			0	0
CM	6	Best Western Mt. Hood Inп -ByPass	no # avail	3/4"	CF	2	140	138	138
CM	6	Best Western Mt. Hood Inn -Main	no # avail	6"	CF	99998506	99999245	739	7 39
CM	313	Big Blue Capital Falcon 87287 GCLp	76632485	3/4"	CF	148924	166425	17,501	17,501
CM	assign #		81340318	3/4"	CF	2203	2453	250	250
CM	8	Boy Scouts	60638388	2"	CF	5020	10990	5,970	5,970
CM	32	Branson 88446 Mult. Dr	48398510	3/4"	CF	207922	212080	4,158	4,158
CM	9	Bridge Duplex Steel St	77874323	1"	CF	207	1537	1,330	1,330
CM	160	Campbell 80703 E Lige	93490860	3/4"	CF	13590	17704	4,114	4,114
100	100	Carrier 30467 E. Blossom	93490861	3/4"	CF	27833	34278	6,445	6,445
CM	10	Cascade Ski Club	60209133	2"	Gal	2969800	3096700	126,900	16,965
CM	12	Charlie's Mt. View 88462 G C Lp	52864429	1"	CF	22490	57212	34,722	34,722

DR 93 Continued, Attachment page 3: Man Town, 2016

C/R	ACCT#	Name/Address	MTR#	Size	C/G	Jul-15	July 2016	TOT CONS 2016	TOT CF 2016
RM	19	Cordan 87324 E McCartney Ct	92696899	3/4"	CF	1722	2570	848	848
CM	3 accts	Dean Jondahl Patterson Yodel	17581626	1"	Gal	7175600	7279900	104,300	13,944
CM	258	Edelweiss HOA	no#avail	1 1/2"	Gal	4483900	4746900	263,000	35,160
RM	22	Fritch - 30505 E Blossom Trail	21459000	3/4"	CF			0	0
RM	172.1	Gaither 89845 E Little Trail	92696901	3/4"	CF	3876	5291	1,415	1,415
RM	329	Glass 30930 E Tyrolean Drive	no # avail	1 1/2"	CF	6150	7780	1,630	1,630
CM	tbd	Golden Poles CONST MTR	81244247	2"	CF		1741,.	1,741	1,741
CM	338	Govy General 30521 Meldrum Need Key	60390740	2"	CF	261030	306720	45,690	45,690
СМ	347.1	Grand Lodge Club house	no number	1"	CF	87015	100237	13,222	13,222
CM	347	Grand Lodge North (N) MTR 1 (low)	181208	3/4"	CF	369871	456772	86,901	86,901
CM	347	Grand Lodge North (S) MTR 2 (high flow)	70181208	3"	CF	160	160	0	0
CM ·	347.2	Grand Lodge South (E) MTR 2 (high flow)	70168553	3"	CF	940	940	0	0
CM	347.2	Grand Lodge South (W) MTR 1 (low)	168553	3/4"	CF	360159	432648	72,489	72,489
CM	97	Guettler/Zuber 89116 E G.C.Loop	87691790	3/4"	CF	64408	75834	11,426	11,426
CM	NA	Hill Trails Mix 30410 Blossom	96118260	3/4"	Gal	1299780	1330660	4,128	552
CF CF	147	Hougen 30464 E Blossom Tr	none yet	3/4"	CF			0	0
		Hucks Motel High	no number	4"	CF	3490	5230	1,740	1,740
CM	279	U	82978763	4"	CF	551944	589827	37,883	37,883
CM	279	Hucks Motel Low (big number) Huck's Restaurant 88611 G.C. Lp	60660998	2"	CF	587580	700540	112,960	112,960
CM	98		48702433	1"	CF	89603	113817	24,214	24,214
RM	308	Jacobsen/Fuller 89150 Yodel Jenson- 89808 E Lige Ln	48113633	1"	Gal	738590	769440	30,850	4,124
RM	286		7906242	3/4"	CF	100000	1095	1,095	1,095
CM	46	Johnson 89623 E Little Trail		2"	CF	43820	44120	300	300
RM	335	Kelly 31094 Mult Dr (NE #2 rear) Kleeblev 30750 E Meldrum (pamish)	60418696 10076061	3/4"	CF	3715	4674	959	959
RM	150		52519762	1"	CF	43247	57626	14,379	14,379
CM	59 362	Kropacek Glaciers Bistro Lampi 88405 Mult. Dr.	18349067	1 1/2"	CF	71500	83230	11,730	11,730
RM CM	242	Landauer 30397 E Blossom Tr	93490859	3/4"	CF	14356	19887	5,531	5,531
CM	280	Lettunich, Michael 30395 Blossom Tr	84197173	3/4"	CF	49261	56492	7,231	7,231
	24	Little Trail Lodge 89015 E Little Trail	60228874	2"	Gal	1135000	1301000	166,000	22,193
CM CM	326	Logais/Tipi Mato 89685 E Little Tr	80674130	3/4"	CF	33448	36659	3,211	3,211
CM	307	Lynott/Parsons North 30100 Blossom	81340325	3/4"	CF	64645	81969	17,324	17,324
CM	307	Lynott/Parsons South 30100 Blossom	48578976	1"	CF	142857	147896	5,039	5,039
CM	164	Mazama Lodge	49291936	1"	CF	216988	247692	30,704	30,704
CM	7	McLean 89110 Govt Cp Lp	87567002	3/4"	Gal	187130	242030	54,900	7,340
CM	170	Mills 89012 Yodel	90433042	3/4"	CF	20428	25112	4,684	4,684
CM	114	Morse, C & D 30225 E Blossom Trail	92946540	3/4"	CF	3655	5044	1,389	1,389
CM	250	Mt Hood Resort Lodging- Ingersoll - 89048 E Little Trl (4plex)	60820245	1 1/2"		21320	31800	10,480	10,480
CM	250.1	Mt Hood Resort Lodging Ingersoll 30544 E. Olive	98818291	2"	Gal	3981700	4234900	253,200	33,850
CM	183	Mt. Hood Academy 88153 GC Lp	60228877	2"	Gal	1984900	2039000	54,100	7,233
CM	86	Mt. Hood Holding Mult.Drive (Old Saxe)	660365079	2"	CF	251720	301430	49,710	49,710
CM	306	Mt. Hood Museum 88900 E G.C. Loop	48994670	1"	CF	20665	29858	9,193	9,193
RM	312	Mt. Hood Ventures 30032 Blossom	48994672	1"	CF	177726	178210	484	484
CM	363	Multorpor Lodge at Skibowl E	60725916	2"	CF	238980	312760	73,780	73,780
RM	344	Nantz 31098 Mult Dr (SE#3 rear)	18359647	2"	CF	7960	9180	1,220	1,220
CM	34	Neth - 89055 E G.C. Loop (duplex)	60820247	1 1/2"	CF	17440	17660	220	220
CM	71	Nogarie Round Mtn Loop	92696902	3/4"	CF	9749	14619	4,870	4,870

DR 93 Continued, Attachment page 4: Man Town, 2016

	Ι'						July		i i	
C/R	ACCT#	Name/Address	MTR#	Size	C/G	Jul-15	2016	TOT CONS 2016	TOT CF 2016	
CM	249	ODOT Maint, Bldg US 26	60202914	2"	Gal	2162400	2308700	146,300	19,559	
CM	35	OTE Rest Stop US 26	60368824	2"	CF	2090510	2288590	198,080	198,080	
CM	37	Palmer Lodge 88786 G.C. Loop	60194726	2"	Gal	3833910	4132900	298,990	39,972	
CM	214	Pamelee 30700 E MELDRUM ST	67222037	3/4"	CF	9514	13194	3,680	3,680	
RM	23	Parrish - 30280 E Camp Creek Trail	81294937	3/4"	CF			0	0	
CM	25	Payne (Left) 30493 Blossom	45666322	3/4"	Gai	845550	884340	38,790	5,186	
CM	126	Perrodin 88875 E Rnd Mtn Lp	67222042	3/4"	CF	4447	9998	5,551	5,551	
RM	tbd	Quarum - McCartney Ct New Const		3"	CF			0	0	
RM	348	Rathe/Moeschler 90053 Little Trail	84197174	3/4"	CF	20717	25228	4,511	4,511	
CM	38	Ratskeller G.C. Lp	19019939	1"	CF	789885	845840	55,955	55,955	
CM	162	Ravi/Putnam - 30960 E Multorpor Dr	93581174	3/4"	CF	39640	53411	13,771	13,771	
СМ	60	Ravi/Putnam - 88567 E Frontage Rd	93581182	3/4"	CF	18906	26381	7,475	7,475	
CM	39	Reed College - 30545 E Mucoy St	935811175	3/4"	CF	12939	20171	7,232	7,232	
RM	16	Rice 30546 E Darr Rd	79847303	3/4"	CF		0	0	0	
СМ	265	Rudi - Casa Cuevo 30380 E WyEast	79847305	3/4"	CF		3	3	3	
RM	351	Ryan 30690 Montgomery New HS	85451879	3/40	CF	16400	18348	1,948	1,948	
CM	232	Sandler - 89200 E Little Trail	81340320	3/4"	CF	29893	35311	5,418	5,418	-
RM	156	Scroogins 87300 E McCartney	67222039	3/4"	CF	729	744	15	15	
CM	57	Ski Patrol - Govt. Camp Loop	3.272E+09	1"	GAL	70420	107810	37,390	4,999	
CM	361	Skibowl East Snow Making	70249091	4"	CF	1305720	1580830	275,110	275,110	
CM	157	Skowhede 30460 E Blossom Tr	93490862	3/4"	CF	16959	26098	9,139	9,139	
RM	tbd	Slavin WyEast Trl	67357190	3/4"	CF		35	35	35	
RM	355	Soot - 8790 E Round Mtn Loop	81458887	3/4"	CF			0	0	
RM	336	Sprunk 31092 Mult Dr (NW #1 fnt)	60418700	2"	CF	18630	23500	4,870	4,870	
RM	330	Strub, M & S 30293 Wy'East	78252142	3/4"	CF	47171	47171	0	0	
CM	129	Summit Apts., G.C.Loop E	95621736	2"	CF	2736580	2818900	82,320	82,320	
		Summit Chevron G.C. Loop N of Station	76632488							
CM	245	, , , , , , , , , , , , , , , , , , ,		3/4"	CF	83445	88979	5,534	5,534	
CM	55	Summit Inn North G.C. Loop (BLDG)	60390743	2"	CF	145440	159820	14,380	14,380	
CM	55	Summit Inn West G.C. Loop (BLDG.)	49291937	1"	CF	32449	37172	4,723	4,723	*************
CM	340	Thompson - 90158 E Lige Ln	81340324	3/4"	CF	31474	38067	6,593	6,593	 - ·
CM	304	Tichy(Martin) 89481 E Steel Ln	81458999	3/4"	CF	52532	66730	14,198	14,198	
CM	4	Tom Arp - 30372 E WyEast	67357189	3/4"	CF	249	2895	2,646	2,646	
CM	56	Trails Club	18359645	2"	CF	29920	137290	107,370	107,370	
CM	3	True/ O'Brien 30515 Blossom	49054722	3/4"	CF	108359	113634	5,275	5,275	
CM	125	Turpack 30481 Blossom Tr. (Right)	45666327	3/4"	Gal	799910	864250	64,340	8,602	App Ministra Applica Article Printer
CM	366	Valls 30128 Biossom	84197176	3/4"	CF	11894	13727	1,833	1,833	
RM	20	Wayne Allen 89272 E Lige Ln	93874686	3/4"	CF	2413	4578	2,165	2,165	
RM	360	White-Bar 89201 E. Little Trail	90257736	3/4"	CF	23564	30166	6,602	6,602	numeri milanon m
CM	237	Wilcox - 89107 E Little Tr	93581183	3/4"	CF	13965	16418	2,453	2,453	
		·	!		1				1.856.392	Total Cons CF 2016

DR 1 requested Government Camp Water Company Inc. (Government Camp or Company) provide the following information:

"Please provide billing data to support Government Camp's sales operating revenue for the 2016 test year. In that billing data, please provide 1) the customer names, 2) the line or meter size, 3) the usage for metered customers, 4) the amount billed for usage, 5) the amount billed for the base charge and 6) the amount billed for other charges for each of the amounts billed to each customer account for each of the four quarters billed in 2016."

In supplemental DR 58 to DR 1, please provide a separate sortable excel spreadsheet that contains all the billing information for all metered customers for all quarters in 2016. The data in this spreadsheet should be sortable and broken out by 1) the customer names, 2) the meter size for each customer, and the 3) usage billed to same-sized metered customers. Separate worksheets should be provided for a) the 5/8" & 3/4" combined meter customers, b) the 1" meter customers, c) the 1.5" inch meter customers, d) the 2" meter customers, e) the 4" inch meter customers, and f) the 6" meter customers; each spreadsheet is to include the usage broken out for each of the meter sizes. If a customer has multiple meters, please include a separate entry for each meter on each corresponding spreadsheet.

RESPONSE:

See Attachment – DR 58 Response Attachment.

Table 11 Excerpted from DR 58

Date 🕶	Num 🕶	Item -	Item Description		Split	*	Qty	*	Credit -
01/01/2016	12-6294	R. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	14	1 · Accounts Receivable		15	7.00	6.94
04/01/2016	12-6664	R. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	14	1 · Accounts Receivable		15	7.00	6.94
07/01/2016	12-7032	R. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	14:	1 · Accounts Receivable		15	7.00	6.94
10/01/2016	12-7406	R. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	14	1 · Accounts Receivable		20:	3,50	9.00
01/01/2016	12-6298	R. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	14	1 · Accounts Receivable		620	0.00	3,84
04/01/2016	12-6668	R. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	14	1 · Accounts Receivable		620	0.00	3.84
07/01/2016		R. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	14	1 · Accounts Receivable		620	0.00	3.84
01/01/2016	12-6113	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	14	1 · Accounts Receivable		1,48	5,25	35.47
04/01/2016		C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	14	1 · Accounts Receivable		1,48	5.25	35.47
07/01/2016	12-6848	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	14	1 · Accounts Receivable		1,48	5.25	35.47
10/01/2016	12-7221	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	14	1 · Accounts Receivable		48	7.00	11.63
01/01/2016		C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	14	1 · Accounts Receivable		85	6.75	15.98
04/01/2016		C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	14	1 · Accounts Receivable		85	6.75	15.98
07/01/2016	12-6901	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	14	1 · Accounts Receivable		85	6.75	15.98
10/01/2016		C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	14	1 · Accounts Receivable		76	9.00	14.34

Staff Check	Difference
\$1.76	-\$5.18
\$1.76	-\$5.18
\$1.76	-\$5.18
\$2.28	-\$6.72
\$6.94	\$3.10
\$6.94	\$3.10
\$6.94	\$3.10
\$16.63	-\$18.84
\$16.63	-\$18.84
\$16.63	-\$18.84
\$5.45	-\$6.18
\$9.60	-\$6.38
\$9.60	-\$6.38
\$9.60	-\$6.38
\$8.61	-\$5.73

Please explain why the OPUC has not received an application regarding affiliated interest transactions, for instance, for Ms. Bekins salary, the rental of Ms. Bekins' barn, and the rental of Ms. Hill's office space.

RESPONSE: Since the Commission's determination of jurisdiction in August of 2009 (Order 09-313) (WJ 24), the Company has completed a single rate case (UW 145). Therein, PUC staff reviewed compensation expenses to Maryanne Hill and Lesli Bekins, as well as the lease of Ms. Hill's office space and the Ms. Bekins' barn. PUC Staff did not request an affiliated interest filing or indicate that affiliated interest filings were necessary for these transactions. The Company had the impression that affiliated interest filings were not requested given the expenses were already rigorously reviewed in the course of UW 145.

The Company is now aware that these types of affiliated interest transactions must be approved by the Commission, and that the Commission clarified its position with respect to affiliate interest filings in cases where owners of water utilities are also employed by the utility (Order 06-657 (UW 117)).

- 1) The Company will submit an affiliated interest agreement for the rental of Ms. Bekins' barn (indoor and outdoor storage).
- 2) The Company will submit an affiliated interest agreement for the rental of office space from Ms. Hill as she is within the successive chain of ownership for more 5% of the voting securities of the Company (ORS 757.495(2).
- 3) The Company will submit an affiliated interest agreement for Ms. Bekins' proposed salary in UW 174.

Please provide the bills for Account 611, Telephone/Communications and include in your response an explanation of how costs are allocated for this expense.

RESPONSE:

CenturyLink is the communications (non-cellular) provider for the Company and includes the following:

- Package (base plan) includes one land line phone that is for personal use, so \$24.95 is deducted each month. The remaining cost of the Package (for business fax line 503-272-3490 and WIFI) is used for both the Company and Charlomont Hill, LLC ("Charlomont"). As such, the Company pays 50% of this cost.
- Broadband includes modem router rental and internet that are used for both the Company and Charlomont. As such, the Company pays 50% of this cost.
- Voice is a business land line (503-272-3281) which is used for both the Company and Charlomont. As such, the Company pays 50% of this cost.
- Entertainment is for TV, which is for personal use, so 100% of this cost is deducted from the bill.

The Monthly Billing Allocation:

Century Link Water Co %	Total Due	Less	Less Ent/TV	Due		Notes:
Jan 11 Bill Check Cleared 12-28-18	207.36	-24.95	-77,99	52.21		Bill due Jan. cleared Dec 2015 & not included in Application
Feb	207.73	-24.95	-77.99	52.395	46.47	Water co % was miscalculated and unerpaid in error
Mar	220,83	-24.95	-82.99	56.445	56.45	Payment included \$21.81 bal forwd + 7.50 late fee
April	213.72	-24.95	-82.99	52.89	52.99	Pmt due should have been \$52.90 not \$52.9901 over pmt
May	215,66	-24.95	-82.99	53.86	51.30	Underpayment miscalculation
June	227.8	-24,95	-82.99	59.93	.57.37	Late payment was not allocated to companys payment
July	224.48	-24.95	-82.99	58.27	64.24	Calculation errors - used -12.75 not \$24.95 & \$8.80 late fee
Aug	215.73	-24.95	-82.99	53.895	53.99	Calc error -24.75 not -24.95
Sept	208.78	-24.95	-82.99	50.42	53.89	Amt pd was calculated from \$215.73 to al charges rather than amt due
ост	208.73	-24.95	-82.99	50,395	52.82	Pmt mis calculated from 215.73 current charge rather than amt due
NOV	208.79	-24.95	~82.99	50.425	52.82	Miscalculation over pmt
DEC	201.79	-24.95	-82.99	46.925	40.99	Miscalculation under print
<u> </u>	1			638.06	635.54	UNDERPAYMENT of \$2.52 for year

VERIZON Wireless

The Verizon plan includes four cell phones. One of these is the Company cell phone (503-260-7142). Therefore, $1/4^{th}$ of the monthly <u>base</u> plan is allocated to the Company. Plus, the monthly cost of the Company cell.

See allocation below:

V	F	R	17	O	٨

DATE	SUPPLIER	AMOUNT	BASE PLAN COST (4-ENTITY PLAN)	1/4th Base Plan alloc to Wtr Co	WATER CO CELL	WTR CO TOTAL
1/20/2016	VERIZON	240.84	\$70.00	\$17.50	22,92	\$40.42
2/20/2016	VERIZON	217.6	\$70.00	\$17.50	22.96	\$40.46
3/20/2016	VERIZON	164.69	\$45.00	\$11.25	22.88	\$34.13
4/20/2016	VERIZON	170.79	\$45.00	\$11.25	22.88	\$34.13
5/20/2016	VERIZON	175.76	\$45.00	\$11.25	22.87	\$34.12
6/20/2016	VERIZON	170.76	\$45.00	\$11.25	22.87	\$34.12
7/20/2016	VERIZON	170.76	\$45.00	\$11.25	22.87	\$34.12
8/20/2016	VERIZON	170.79	\$45.00	\$11.25	22.88	\$34.13
9/20/2016	VERIZON	170.79	\$45.00	\$11.25	22.88	\$34.13
10/20/2016	VERIZON	170.79	\$45.00	\$11.25	22.88	\$34.13
11/20/2016	VERIZON	172.63	\$40.05	\$10.01	22.84	\$32.85
12/20/2016	VERIZON	170.73	\$40.05	\$10.01	22.84_	\$32.85
		2166.93				\$419.60

Verizon and Century Link 2016 bills are attached as Data Response 14 Attachment A & B.

While double checking the telephone expense file in the application, the Company discovered that the reimbursement of \$419.57 is a double entry for the telephone charges and should be removed.

Please provide a copy of the Water Operator contract for Account 639, Contract Services Other that includes the amount charged for service and duties of the contractor.

RESPONSE:

The Company's Contract for Operation and Maintenance Services as Direct Responsible Charge (with addendum) is attached separately as Data Response 31 Attachment.

Contract for Operation and Maintenance Services as Direct Responsible Charge

RECITALS

WHEREAS, the Government Camp Water Co. Inc. (Owner) owns and operates a domestic water system in Clackamas County, Oregon (Public Water System ID # OR4100336); and

WHEREAS, Owner intends to supply ample domestic water to all its customers within the service area, both residential and commercial for normal uses of such water; and

WHEREAS, Owner desires that the water system be operated by a State of Oregon Certified Water Operator to provide safe drinking water as well as desirable drinking water to all users within its service area; and

WHEREAS, Andrew R. Tagliafico (Operator) has proposed to provide Contract Water System Operator services to Owner and serve as the Direct Responsible Charge (DRC) of the Government Camp Water Company Inc. Water System (System); and

WHEREAS, it is the intention of the Operator and the Owner to enter an agreement wherein the Operator will serve as DRC for the System and provide complete licensed operations, maintenance, monitoring, repair and reporting services of the water source and distribution; and

WHEREAS, it is the intention of the parties that all services performed by the Operator be in compliance with all state and federal laws, regulations and guidelines at all times.

WITNESSETH,

Incorporating the recitals provided herein, the parties agree as follows:

- 1. Parties. This third party Agreement is made this 20 day of April, 2015 by and between Government Camp Water Co. Inc. in Clackamas County, hereinafter referred to as Owner, and Andrew Tagliafico, operator Cert # (Operator ID# D-6592) of Who Ltd. PO Box 522 Govt. Camp, OR 97028, hereinafter referred to as Operator.
- 2. <u>Direct Responsible Charge</u>. Subject to the terms and conditions expressly provided within this Agreement and any addendum hereafter executed by the parties, Operator agrees to oversee the general maintenance, daily operation of the System, and assume the position of Direct Responsible Charge (DRC) of the System. Operator agrees to operate and manage the System in accordance with state and federal law, and regulations

- promulgated thereto, including those adopted by the Oregon Health Authority under Chapter 333, Division 061 of the Oregon Administrative Rules (OAR).
- 3. <u>Services.</u> In accordance with the terms of this Agreement and any addendums attached hereto, Operator agrees to furnish Owner with all labor, equipment, transportation, supervision, technical, professional, and other services for the purpose of treating water and performing duties of distribution for the System; and perform all operations and maintenance necessary and required to properly provide services for the service area.
 - a. Operator shall make all decisions that directly impact the quality or quantity of drinking water, manage the day to day operations of the System, maintain the System and perform all tasks necessary within the scope of Operator's obligations under this contract for the operation and maintenance of the System to assure that the water delivered to water users does not exceed maximum contaminant levels, to assure that water system facilities are free of public health hazards, and to assure that water system operation and maintenance are performed as required under state and federal law.
 - b. Operator is solely responsible for safely conducting all operation in order to avoid the risk of endangerment to health, bodily harm to persons, and damage to property. Operator will inspect all equipment, materials, and services to discover any condition that might involve risks and for correcting any of those conditions. Operator will immediately notify owner of any known activity, problem or circumstance that threatens or affects the drinking water supply or health, safety or welfare of the users of the drinking water.
 - c. Operator will undertake remediation in accordance with governmental requirements and make its best reasonable efforts to mitigate problems, and implement any applicable emergency plan.
- 4. <u>Availability</u>. Operator agrees to be available on call 24 hours a day and able to respond within 1 hour of an emergency. When it is anticipated that Operator will not be available on call, Operator shall arrange for a qualified representative, other operator personnel, subcontractor/ sub-consultant or other person to act on behalf of Operator.
- 5. Maintenance of Certification. At Operator's expense, Operator will maintain at all times the requisite Oregon drinking water operator certification, including all continuing education requirements. Operator will pay for all permits, licenses, certification and other applicable government requirements or governing authority requirements and inspections, as well as furnish any documentation, bonds, security or deposits required to permit Operators performance of services. Operator will assure that the water system is in compliance with OAR 333-061-0210 through 333-061-0272 relating to certification of water system operators;

- 6. <u>Security</u>. Operator will cooperate with owner security requirements, and must promptly comply with any security arrangements.
- 7. Records. Operator shall maintain and provide to Owner records and accounts concerning the operation, maintenance, repair, and equipping of the facility under this Agreement. Owner will have reasonable and legally permissible access to all documents, records, and reports from the Operator to the State drinking water program. All records must be maintained as specified by Oregon State retention schedules. Operator will have all signatory authority for said reports and other documents, as required under Oregon State drinking water rules. Maintaining monitoring and operating records and making these records available for review when the system is inspected;
- 8. Water Samples. Operator will arrange and supervise routine collecting and submitting water samples for laboratory analyses at the frequencies prescribed by OAR 333-061-0036. All sampling will be performed by Pixis Labs, or other suitable vendor, who shall send results to the company for monthly reporting to the State of Oregon Drinking Water Program. Operator will take immediate corrective action when the results of analyses or measurements indicate that maximum contaminant levels have been exceeded and report the results of these analyses as prescribed by OAR 333-061-0040. Operator shall work in conjunction with the Owner to notify all customers of the water system and the general public in the service area, as prescribed by OAR 333-061-0042, when the maximum contaminant levels have been exceeded;
- 9. <u>Professional Services.</u> Where technical, professional or other services not usual or ordinary to that of a Level 1 Operator are necessary, Operator shall arrange for such services at the expense of Owner.

10. Additional Terms:

- a. **Addendum.** This Agreement shall become effective upon the parties' execution of an addendum further describing Operator's compensation or other valuable consideration to be received. Such addendum may include additional terms or conditions deemed advisable by the parties.
- b. **Termination**. This Agreement and the provisions of any addendum attached hereto may be terminated:
 - i. By either party at any time for any reason with sixty days (60) written notice to 1) the other party, and 2) the Oregon Health Authority Drinking Water Program;
 - ii. Immediately by the mutual consent of the Owner and the Operator;

- iii. Immediately by Owner upon entry of any final order by the Oregon Health Authority, or its equivalent, determining that all or a portion of this Agreement, or any addendum hereto, fails to satisfy the laws or regulations of the State of Oregon for the purpose of designating a Direct Responsible Charge over the System;
- iv. By Owner, no less than 60 days following a final decision the Oregon Public Utility Commission that all or a portion of the labor and O&M expenses attributed to Operator's compensation under this Agreement should be disallowed in determining Owner's annual revenue requirements, rate schedule and/or tariff. Prior to terminating the Agreement under this provision, Owner shall provide Operator with a reasonable opportunity to amend the terms of Operator's rates, propose additional terms, or perform in accordance with the Commission's final decision.
- c. Additional Instruments. The parties shall deliver or cause to be delivered at the Closing and at such other times and place as shall be reasonably agreed on, such additional instruments as may reasonably be requested for the purpose of carrying out this Agreement.
- d. Not Assignable. This Agreement is not assignable by Operator to a third party, without Owner's written consent.

Agreement acknowledged by signature:

ay(infor Date: 4/20/2015

Addendum to Contract for Operation and Maintenance Services between

Andrew R. Tagliafico & Government Camp Water Co. Inc.

A
This Addendum is executed this 20 day of APRIL, 2015 by and between the
Government Camp Water Company, Inc. (Owner) and Andrew Tagliafico (Operator) for the
purpose of augmenting and clarifying terms of the contract agreed upon and executed between
the parties on 20 APRIL 2015 for Operation and Maintenance Services as Direct
Responsible Charge (the Agreement).

The parties hereto further agree as follows:

Services to be provided by Operator to Owner as Direct Responsible Charge (DRC) shall include:

- 1. Represent the Owner in all meetings with the Oregon Health Authority (OHA) and/or other regulatory agencies where DRC attendance is necessary or as otherwise deemed advisable by Owner. This shall include meetings with the public when required and any and all compliance inspections by the OHA, or other regulatory agencies, as necessary.
- 2. Attend all regularly scheduled monthly business meetings, including presentation of monthly progress reports. Attend workshops and/or special meetings as may be required of the Government Camp Water Company, Inc., Water System's (System) DRC, or as otherwise deemed advisable by Owner.
- 3. Provide service and availability as the System's DRC, 24 hours per day, 7 days a week, including weekends and holidays. DRC supervision and service shall include on-site attendance by a licensed operator(s) and sufficient staff to adequately perform services as required to maintain System compliance under state and federal law. Operator, or Operator's agent, shall at all times be available and capable of immediately responding within one hour to any emergency (weekend and holidays included). For purposes of this section, any agent providing service and availability on Operator's behalf shall be duly licensed and will comply with OHA regulations in the event of emergency service with the company's distribution system. All services provided by any agent of the Operator, and any liability arising therefrom shall be deemed to be the service and liability of the Operator.
- 4. Conduct all routine and periodic services related to the operation and maintenance of the System including, but not limited to, the following:
 - a) Routine fire hydrant inspection, repairs and maintenance;

- b) On-site supervision and instruction of company-contracted labor as may be required as the System DRC, or as otherwise reasonably requested by Owner;
- c) Manage and complete two (2) flushings per year based on water conditions with a written report for each of the flushings for all water distribution systems;
- d) Establish and perform a water valve exercise program;
- e) In the event of System breaks or other emergency, conduct all necessary water sampling and testing should the Company's contracted laboratory not be available;
- f) Respond to any customer complaints as may be required of the System's DRC or as otherwise reasonably requested by Owner;
- g) Respond to and investigate potential leaks;
- h) Conduct a monthly inspection of the entire System with reports provided to the Owner (weather dependent). Update inspection and maintenance logs within the System, with all preventative and routine maintenance to be entered in the System log books and made available to Owner;
- i) Oversee and provide supervision for new connections to the System;
- j) Develop and provide all reports required by the Oregon Health Authority or other regulatory agencies as reasonably requested by Owner;
- k) Consult with the company's engineer on System recommendations;
- 1) Assist with the development of Owner's operating and capital budgets up to three times per fiscal year;
- m) Advise and coordinate with Owner in purchasing supplies, equipment and/or outside repair services. *Provided*, Owner will be responsible for purchasing chemicals, equipment and parts. Minor and major repair items such as but not limited to maintenance items, expendable supplies, rebuild kits, light bulbs, etc. will be the responsibility of Owner;
- n) To the extent practical, conduct services in conformity with the recommendations and obligations identified within the United States Environmental Protection Agency's Best Practices Guide Water System Operator Roles and Responsibilities, EPA Publication No. 816-F-06-037, dated September 2006.

Insurance and Indemnity

5. Operator agrees to maintain insurance coverage for all services rendered by Operator or Operator's agents. Operator will provide certificates of Liability and Worker's

Compensation insurance and provide coverage in accordance with Owner's & the State of Oregon's insurance requirements. Insurance coverage shall indemnify and hold harmless Owner from any and all liability arising from services rendered by the Operator, or any agent thereof. Operator shall defend any suit that may be brought against the Owner, its shareholders or officers in connection with, or arising out of the services furnished by Operator under the Agreement and this Addendum.

- a) Operator will provide comprehensive general liability, worker's compensation and automobile liability insurance coverage with Owner named as additionally insured. Limits of liability for both coverages shall be a minimum of:
 - (1) \$500,000.00 per person and \$500,000.00 per occurrence for bodily injury and
 - (2) \$500,000.00 property damage;
 - (3) Copies of all insurance policies shall be provided to the Owner prior to commencement of services.

Compensation

- 6. Owner agrees to pay compensation to Operator in the amount of four thousand dollars (\$4,000) per month with an annual 2% cost of living adjustment (hereinafter Base Payment). In exchange for Base Payment, the Operator shall assume the position of DRC for the System as provided in the Agreement, subject to the following provisions:
 - a) Services included within the Base Payment shall also include:
 - (1) Operator's obligations as expressed within Paragraphs 1 through 3 of this Addendum, inclusive;
 - (2) Operator's reading of customer water meters & master meter in the summer months every June 15, July 15 & August 15, provided Owner will provide Field Sheets to Operator in each of the 3 months meters are to be read. And provided further, Owner will be responsible for data entry and providing data to Owner's bookkeeper & the sanitary district;
 - (3) Transportation hours to pick up materials and supplies, *provided* Owner shall reimburse Operator for mileage at the current deductible rate as determined by the United States Internal Revenue Service;
 - (4) Supervision, technical & professional services rendered in the course of managing operation & maintenance of the System in the capacity of DRC and as provided in the Agreement and this Addendum. *Provided*, services of other billable professionals such as engineers, surveyors, plumbers etc. shall be paid directly by Owner.
 - b) All other activities and services provided under this proposal will be billed as follows:

- (1) \$45.00 per hour for labor;
- (2) \$95.00 per hour for back hoe with operator;
- (3) All other non-specified rented, subcontracted or non-inventory items cost plus thirty percent.
- c) Subject to the terms of this Addendum and the underlying Agreement, the compensation terms of this Section 6 shall be binding upon the parties for a period of three (3) years unless otherwise agreed upon in writing.
- d) For the period of one year following the execution of this Agreement if total compensation to Operator exceeds the sum of \$65,000:
 - (1) The parties shall participate in a budget conference to address revenue, costs and continued performance under the Agreement and this Addendum;
 - (2) Owner shall be entitled to invite public bidding for all or a portion of the services contemplated under the Agreement and this Addendum.

Agreement acknowledged by signature:

Operator: 1

For the following six years, 2011-2016, for each year, please provide the amount of labor costs associated with employee or contract labor that Government Camp has capitalized as part of its capital projects.

RESPONSE:

Labor costs associated with capitalized plant are attached in five DR 42 Attachments.

	Type	Date	Num	Adj	Name	Memo	Cir	Split	Debit	Credit	Balance
331 · Transmission & Dist. Mains											0.00
331.1 · Wyeast											0.00
•	Check	05/05/2015	5577		WHO, Ltd	Wyeast Cain		131.1 · Checking 4899	1,179.87		1,179.87
	Check	06/21/2015	5600		WHO, Ltd	Arp to 8" Main - Wyeast - New Meter		131.1 · Checking 4899	1,445.00		2,624.87
	Check	07/18/2015	5611		WHO, Ltd			131.1 · Checking 4899	2,145.00		4,769.87
	Check	10/18/2015	5648		-MULTIPLE-	-MULTIPLE-		131.1 · Checking 4899	631.66		5,401.53
	Check	05/24/2016	1064		WHO, Ltd	Rudi		131.4 · Checking 0170	1,107.00		6,508.53
	Check	08/18/2016	1119		-MULTIPLE-	-MULTIPLE-		131.4 · Checking 0170	905.00		7,413.53
Total 331.1 · Wyeast								•	7,413.53	0.00	7,413.53
Total 331 · Transmission & Dist. Mains								•	7,413.53	0.00	7,413.53
TOTAL									7,413.53	0.00	7,413.53

9:43 AM 03/08/18 Accrual Basis

	Туре	Date	Num	Adj	Name	Memo	Çlr	Split	Debit	Credit	Balance
335 · Hydrants					<u></u>						0.00
333 (I) diana	Check	08/18/2016	1119		-MULTIPLE-	Grand Lodge		131.4 · Checking 0170	495.00		495.00
Total 335 · Hydrants		,,						'	495.00	0.00	495.00
TOTAL									495.00	0.00	495.00

9:41 AM 03/08/18 Accrual Basis

	Type	Date	Num	Adĵ	Name	Memo	Clr	Split	Debit	Credit	Balance
334 - Meters & Installation						:					0.00
334.1 - Metering Plan											0.00
554,1 · Wetering Fran	Check	10/18/2012	[1]		Andrew Tagliafico	Labor & Backhoe new connections -:	Nogeiire	131.1 · Checking 4899	67.50		67.50
	Check	06/10/2013			-MULTIPLE-	-MULTIPLE-	=	131.1 · Checking 4899	2,846.00		2,913.50
	Check	07/03/2013			-MULTIPLE-	-MULTIPLE-		131.1 · Checking 4899	2,700.00		5,613.50
	Check	07/26/2013			-MULTIPLE-	-MULTIPLE-		131.1 · Checking 4899	3,150.00		8,763.50
	Check	10/06/2014			Andrew Tagliafico			131.1 - Checking 4899	3,777.50		12,541.00
	Check	12/27/2014			Andrew Tagliafico			131.1 · Checking 4899	1,020.00		13,561.00
Til 100 s a statution Plan	CHELK	12/2//2014	JJ11		Milatott Tagination			*	13,561.00	0.00	13,561.00
Total 334.1 · Metering Plan									13.561.00	0.00	13,561.00
Total 334 · Meters & Installation									13,561.00	0.00	13,561,00
TOTAL									10,000,000	0.00	,

9:38 AM 03/08/18 Accrual Basis

	Type	Date	Num	Adj	Name	Memo	Clr	Split	Debit	Credit	Balance
334 · Meters & Installation	1,700										0.00
554 / Meters of Mistaliation	Check	03/16/2011	4796		Andrew Tagliafico	Meldrum Mills		131,1 - Checking 4899	303.75		303.75
•	Check	06/10/2011				Yodel Ln/Lige Ln Mills		131.1 · Checking 4899	225.00		528.75
	Check	09/29/2011			Andrew Tagliafico	Morrison Ln/ Mills		131.1 · Checking 4899	315.00		843,75
	Check	11/04/2011			-MULTIPLE-	-MULTIPLE-		131.1 · Checking 4899	1,125.00		1,968.75
	Check	12/12/2011			Andrew Tagliafico	Little Trail / Mills		131.1 - Checking 4899	225.00		2,193.75
	Check	10/18/2012			-MULTIPLE-	-MULTIPLE-		131.1 - Checking 4899	202.50		2,396.25
	Check	06/10/2013			Andrew Tagliafico	New service install, street patch in little t	rail - Ga	131.1 · Checking 4899	165.00		2,561.25
	Check	12/20/2013			Andrew Tagliafico	Meter install Wayne Allen 89272 E Lige L	n.	131.1 · Checking 4899	450.00		3,011.25
	Check	10/06/2014			Andrew Tagliafico			131.1 · Checking 4899	135.00		3,146.25
	Check	11/21/2014			Andrew Tagliafico	Scroggins		131.1 · Checking 4899	327.00		3,473.25
Total 334 - Meters & Installation		,							3,473.25	0.00	3,473.25
TOTAL									3,473.25	0.00	3,473.25

9:35 AM 03/08/18 Accrual Basis

	Туре	Date	Num	Adj	Name	Memo	Clr	Split	Debit	Credit	Balance
333 · Services - New Connections											0.00
	Check	05/05/2015	5577		WHO, Ltd	Perry		131.1 · Checking 4899	345.13		345.13
	Check	10/18/2015	5648		-MULTIPLE-	-MULTIPLE-		131.1 - Checking 4899	1,218.34		1,563.47
	Check	07/18/2016	1110		WHO, Ltd	Rice		131.4 · Checking 0170	90.00		1,653.47
	Check	08/18/2016	1119		-MULTIPLE-	-MULTIPLE-		131.4 · Checking 0170	675.00		2,328.47
	Check	09/19/2016	1130		-MULTIPLE-	-MULTIPLE-		131.4 · Checking 0170	918.15		3,246.62
	Check	10/23/2016	1143		WHO, Ltd	Parrish		131.4 · Checking 0170	270.00		3,516.62
	Check	11/21/2016	1159		WHO, Ltd	Soot		131.4 · Checking 0170	322.50		3,839.12
Total 333 - Services - New Connections								•	3,839.12	0.00	3,839.12
TOTAL								•	3,839.12	0.00	3,839.12
(0.7.=								=			

Please list all vehicles that are covered under the insurance paid by Account 656, Vehicle Insurance, and include in your response how each vehicle is used and the purpose of the vehicle.

RESPONSE:

The vehicle covered is a 2014 Buick Rainier. Uses of the vehicle include, but are not limited to, inspection of lines, performance of meter readings, travel to maintenance/repair sites and customer locations, etc. The vehicle is also used to drive to Welches or Portland for supplies and, on occasion, take samples to the lab.

Please list all vehicles that are included in the Account 650, Transportation, and include in your response an explanation of how each vehicle is used and the purpose of the vehicle.

RESPONSE:

- 1) Company's Buick Rainier See response to DR 28.
- 2) WHO Ltd Water operator's vehicle. WHO Ltd charges miles to the Company when it has to use its vehicle in the performance of work for the Company. This includes, but is not limited to, picking up materials/equipment, delivery of such to site, and taking samples to the lab.
- 3) Cunningham Consulting Bookkeeper's vehicle. Cunningham Consulting charges miles to the Company when it has to use its vehicle in the performance of work for the Company. This includes, but is not limited to, travel for banking, attendance of meetings in Government Camp, Post Office runs, etc.

In supplemental DR 70 to the Company's response to DR 28, please provide a copy of the registration for the 2014 Buick Rainier and explain in your response whether the Company owns the Buick Rainier. If this vehicle is not owned by Government Camp, please indicate what percentage of its use is for the Company versus personal or other uses.

RESPONSE:

In its response to DR 70, the Company amends, in part, its response to DR 28 by clarifying that the Buick Rainier is a 2004 model rather than 2014. The Company's description of the Buick Rainier as a 2014 model was a typographical error.

Responding to DR 70, a copy of the Buick Rainier's registration is attached as DR 70 Response Attachment. The Buick is not owned by the Company, but it used exclusively (100%) by the Company for water business.

Please explain why Account 471, Miscellaneous Services, revenues were not included in the Application's total revenue requirement for 2016.

RESPONSE:

The Company's 2016 Profit and Loss Statement show Other Income (Acct 471) of \$4,561.81. In its application, the Company included \$4,562 in Miscellaneous Revenue, which was then removed as Pass Through Costs.

In the plant worksheet submitted, Account 331, Transmission and Distribution Mains, please explain whether the Tyrolean Meadows true-up of costs in the amount of \$14,419 agreed to in the Stipulation for UW 145, Condition 10, was entered twice to Plant (it appears it was added in UW 145 and again in UW 174). If the amount was entered twice, please explain which in-service date is correct.

RESPONSE:

It appears that this item was mistakenly entered twice. The in-service date of 9/1/2007 is correct.

In the plant worksheet submitted, Account 334, Meters and Meter Installations, please provide the backup documentation of how the meter allowance provided in UW 145 of \$49,500 towards the installation of 55 additional customer meters was spent. Please include in your response, receipts for the 55 meters purchased, the dates they were installed and the names of the customers that received them.

RESPONSE:

There was an oversight on this. The Company didn't recall the metering allowance so it was inadvertently missed. The Metering Allowance of \$49,500 should have been removed from the proposed Plant, and the following meter plan detail should be included in Plant.

The 3-year meter plan included the following:

2012 Metering Plan	\$549.77	1 meter
2013 Metering Plan	\$20,521.17	13 meters
2014 Metering Plan	\$6,888.84	5 meters

\$27,959.78

The spreadsheets included in Data Response 40 Attachment show the information you have requested for each year of the metering plan. However, there are numerous entries and providing each and every receipt/invoice is burdensome. In an effort to be efficient, the Company will be happy to provide the receipt/invoice you want to review if you would please identify the item, date, and cost.

YEAR 2012 - FIRST YEAR OF METERING PLAN

Date	Vendor	Inv#	Description	Nogarie Metering Plan	Total
9/15/2012	Andrew	3424	Metering Plan	7 hrs Install meter valve can	\$315.00
9/17/2012	Andy	3424	Metering Plan	2 hrs set valve can Nogarie	\$90.00
10/10/2012	HD	5584861	Metering Plan	Nogarie Meter	\$71.32
10/19/2012	FEI	2559129	Metering Plan	Nogarie Mtr Bix	\$73.45
				TOTAL COST	\$549.77

CUSTOME	R NAME
	Nogarie

VEAR 2012 -	. SECOND Y	FAR (IF	METERING	PLAN

Date	Inv#	AR OF METERING Vendor	Category	Cost	Location	CK#
5/17/2013	3452	Andrew	Metering Plan	\$225.00	Museum Meter Install - 5 hrs labor	5141
	3452	Andrew	Metering Plan	\$112.50	Museum town for aditional mtr parts- 2.5 hrs	5141
5/20/2013	2692943	Ferguson	Metering Plan	\$0.90	Museum meter	5131
5/22/2013	3452	Andrew	Metering Plan	\$112.50	Museum Meter Install - 2.5 hrs labor	5141
5/23/2013	Museum	Chris Scott Plumbing	Metering Plan	\$340.00	Museum Meter (\$260 labor \$80 parts)	5130
5/25/2013	3452	Andrew	Metering Plan	\$540.00	Campbell/Skowhede/Landauer 12 hrs labor	5143
5/28/2013	359517	Ferguson	Metering Plan	\$299.00	Campbell/Landauer/Haugen	5153
5/28/2013 5/28/2013	2696720	Ferguson	Metering Plan	\$1.12	Campbell/Landauer/Skowhede	513
5/28/2013	B021641	HD Supply	Metering Plan	\$406.06	Campbell/Landauer/Skowhede	5135
	3452	Andrew	Metering Plan	\$405.00	Carrier/Landauer - 9 hrs labor	514
5/29/2013	67965	Mtn Bidg Supply	Metering Plan	\$18.73	Landauer	513
5/29/2013	3452	Andrew	Metering Plan	\$405.00	Skowhede & parts run for meters & CO2 9 hrs	514
5/30/2013		Mtn Bldg Supply	Metering Plan	\$28.71	Carrier/Skowhede	513
5/30/2013	68010		Metering Plan	\$585.00	Skowhede/ Carrier 13 hrs	514
5/31/2013	3452	Andrew Andrew	Metering Plan	\$90.00	Move gravel for backfill - 1 hr machine	514
5/31/2013	3452		Metering Plan	\$26,50	Museum Meter misc parts	514
5/31/2013	3452	Andrew			Mattheson CO2 Tanks refil 1 tank	514
5/31/2013	3452	Andrew	Metering Plan	\$34.00	1" minus rock stockpile for metering plan 11.5 yds	514
5/31/2013	3452	Andrew	Metering Plan	\$310.50	Campbell/Landauer/Skowhede	513
5/31/2013	2698749	Ferguson	Metering Plan	\$82.59		515
6/3/2013	360218	Ferguson	Metering Plan	\$580.26	Campbell/Landauer/Skowhede	515
6/11/2013	3534	Andrew	Metering Plan	\$225.00	Campbell Meter install 5 hrs labor	515
6/11/2013	3534	Andrew	Metering Plan	\$90,00	Campbell Meter backfill 1 hour machine	515
6/18/2013	3534	Andrew	Metering Plan	\$135,00	parts run to town	
6/18/2013	3454	Andrew	Metering Plan	\$135.00	parts run to town Morst Rave Putnam 3 hrs	51
6/18/2013	B112620	HD Supply	Metering Plan	\$515.06	Morse Ravi Putnam parts	514
6/19/2013	352663	Ferguson	Metering Plan	\$167.42	Morse Ravi Putnam parts	51
6/24/2013	3534	Andrew	Metering Plan	\$810.00	Morse dig, install meter & backfill	515
6/24/2013	3454	Andrew	Metering Plan	\$720.00	Morse dig up wtr svc & install meter 16 hrs	515
6/24/2013	3454	Andrew	Metering Plan	\$90.00	Backfill Morse 1 hr machine	515
6/25/2013	3534	Andrew	Metering Plan	\$81,0.00	Ravi Putnam dig install meters & packfill	51
6/25/2013	3454	Andrew	Metering Plan	\$720,00	Dig up & Instal meter @ both Ravi Putnam houses 16 hrs labor	519
6/25/2013	3454	Andrew	Metering Plan	\$90.00	Backfill @ both Ravi Putnam houses 1 hr machine	515
6/25/2013	68564	Mtn Bldg Supply	Metering Plan	\$3.73	Ravî Putnam	51.
7/2/2013	3534	Andrew	Metering Plan	\$630.00	Wilcox meter dig up service Install meter backfill	51
7/2/2013	3454	Andrew	Metering Plan	\$540.00	Dig up water svc at Whicox - Install meter - 12 hrs labor	51
7/2/2013	3454	Andrew	Metering Plan	\$90.00	Backfill Wilcox - 1 hr machine	51
7/2/2013	364601	Ferguson	Metering Plan	\$287.76	Wilcox metering parts	51
7/2/2013	2720727	Ferguson	Metering Plan	\$102.68	Wilcox metering parts	51
7/8/2013	3456	Andrew	Metering Plan	\$720.00	Dig up water svcs Ingersol Red Roof and Reed College	51
7/8/2013	3456	Andrew	Metering Plan	\$720.00	Dig up water svc at Ingersol & Reed College 16 hrs labor	51
7/9/2013	3456	Andrew	Metering Plan	\$720.00	Dig up water svc at Barlow Pass West	51
7/9/2013	3456	Andrew	Metering Plan	\$720.00	Dig up water svc at Barlow Pass West Condo - 16 hrs labor	51
7/9/2013	2724463	Ferguson	Metering Plan	\$150.27	Ingersol, BPW, Reed College metering parts	51
7/9/2013	B194731	HD Supply	Metering Plan	\$2,786.23	ingersol, BPW, Reed College meters & parts	51
7/10/2013	3456	Andrew	Metering Plan	\$810.00	Install meters at Ingersol and Neth duplex	51
7/10/2013	3456	Andrew	Metering Plan	\$810.00	Install meters @ Ingersol & Neth - 18 hrs labor	51
7/10/2013	365483	Ferguson	Metering Plan	\$471.98	Ingersol, BPW, Reed College meters & parts	51
		Mtn Bldg Supply	Metering Plan	\$25.38	Ingersol - Neth	51
7/10/2013	68923		Metering Plan	\$900.00	Install meters at Barlow Pass West & Reed College begin backfill	51
7/11/2013	3456	Andrew		\$720.00	Install meters at Barlow Pass West & Reed College begin backfill 16 hrs	51
7/11/2013	3456	Andrew	Metering Plan	\$180.00	Backfill meter boxes BPW & Reed College 2 hrs machine	51
7/11/2013	3456	Andrew	Metering Plan		Morse	51
7/15/2013	68546	Mtn Bldg Supply	Metering Plan	\$22.29	INDISE	

CUSTOMER NAMES
Ingersol - Mt Hood
Museum
Barlow Pass West
Reed College
Neth
Ravi Putnam
Ravi Pubnam Rental
Campbell
Skowhede
Carrier
Landauer
Wilcox
Morse

YEAR 2014 - THIRD YEAR OF METERING PLAN

	Date	Inv#	Vendor	Category	Cost	Project or Locatoin	CK#	Dt of CK
9/24/2014 314168 FEI Metering Plan / Cap Improvement \$135.00 labor 3 hrs Parmelee meter install& backfill \$280 10/6/ 9/24/2014 314168 FEI Metering Plan / Cap Improvement \$79.92 Parmelee \$79.92 Parmelee \$12/31/ 9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$126.65 Perrodin \$469 9/30/ 9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$75.00 materials 3 yds @\$25/yd crushed rock for Parmelee \$280 10/6/ 9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$270.00 Labor 6 hrs dig up waterline at Trails Club \$280 10/6/ 9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$270.00 Labor 6 hrs dig up waterline at Trails Club \$280 10/6/ 9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$270.00 Labor 6 hrs dig up waterline at Boy Scouts \$280 10/6/ 9/25/2014 \$280 \$270				Metering Plan / Cap Improvement	\$180.00	labor 4 hrs parts for meter parmelee	5280	10/6/2014
9/24/2014 3114168 FEI Metering Plan / Cap Improvement S79.92 Parmelee S517 12/31/ 9/24/2014 110954 HD Supply Metering Plan / Cap Improvement S126.65 Perrodin S260 9/30/ 9/25/2014 3467 Andrew Metering Plan / Cap Improvement S75.00 materials 3 yds @\$25/yd crushed rock for Parmelee S280 10/6/ 9/25/2014 3467 Andrew Metering Plan / Cap Improvement S270.00 Labor 6 hrs dig up waterline at Trails Club S280 10/6/ 9/25/2014 3467 Andrew Metering Plan / Cap Improvement S270.00 Labor 6 hrs dig up waterline at Trails Club S280 10/6/ 9/25/2014 3467 Andrew Metering Plan / Cap Improvement S270.00 Labor 6 hrs dig up waterline at Boy Scouts S280 10/6/ 9/25/2014 D20932 HD Supply Metering Plan / Cap Improvement S470.00 Labor 6 hrs dig up waterline at Boy Scouts S280 10/6/ 9/25/2014 3467 Andrew Metering Plan / Cap Improvement S470.00 Labor 6 hrs dig up waterline at Boy Scouts S280 10/6/ 9/26/2014 3467 Andrew Metering Plan / Cap Improvement S470.00 Labor 6 hrs dig up waterline at Boy Scouts S280 10/6/ 9/27/2014 3467 Andrew Metering Plan / Cap Improvement S470.00 Labor 6 hrs dig up waterline at Boy Scouts S280 10/6/ 9/27/2014 3467 Andrew Metering Plan / Cap Improvement S450.00 Jabor 1 hrs saw cut A C and dig up service Perrodin S280 10/6/ 9/29/2014 3467 Andrew Metering Plan / Cap Improvement S405.00 Jabor 1 hrs saw cut A C and dig up service Perrodin S280 10/6/ 9/29/2014 3467 Andrew Metering Plan / Cap Improvement S405.00 Jabor 9 hrs install Perrodin meter & backfill S280 10/6/ 9/29/2014 3467 Andrew Metering Plan / Cap Improvement S405.00 Jabor 9 hrs install Perrodin meter & backfill S280 10/6/ 9/29/2014 3467 Andrew Metering Plan / Cap Improvement S405.00 Jabor 9 hrs install Perrodin meter & backfill S280 10/6/ 9/29/2014 3467 Andrew Metering Plan / Cap Improvement S675.00 Jabor 9 hrs ins			Andrew	Metering Plan / Cap Improvement	\$135.00	labor 3 hrs Parmelee meter install& backfill	5280	10/6/2014
9/24/2014 110954 HD Supply Metering Plan / Cap Improvement \$126.65 Perrodin \$469 9/30/2014 3467 Andrew Metering Plan / Cap Improvement \$142.50 backhoe 1.5 hrs backfil at Parmelee \$280 10/6/9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$75.00 materials 3 yds @\$25/yd crushed rock for Parmelee \$280 10/6/9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$270.00 Labor 6 hrs dig up waterline at Trails Club \$280 10/6/9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$270.00 Labor 6 hrs dig up waterline at Boy Scouts \$280 10/6/9/25/2014 \$28334 FEI Metering Plan / Cap Improvement \$270.00 Labor 6 hrs dig up waterline at Boy Scouts \$280 10/6/9/25/2014 \$28334 FEI Metering Plan / Cap Improvement \$470.00 Labor 6 hrs dig up waterline at Boy Scouts \$280 10/6/9/25/2014 \$28334 FEI Metering Plan / Cap Improvement \$470.00 Labor 6 hrs dig up waterline at Boy Scouts \$280 10/6/9/25/2014 \$262.014 3467 Andrew Metering Plan / Cap Improvement \$470.00 Labor 10 hrs saw cut A C and dig up service Perrodin \$470 10/1/19/26/2014 3116540 FEI Metering Plan / Cap Improvement \$450.00 Labor 10 hrs saw cut A C Saw Perrodin \$280 10/6/9/27/2014 3467 Andrew Metering Plan / Cap Improvement \$435.00 Labor 9 hrs install Perrodin meter & backfill \$280 10/6/9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$405.00 Labor 9 hrs install Perrodin meter & backfill \$280 10/6/9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$50.00 materials 2 yds crushed rock @\$25/yds Perrodin \$280 10/6/9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$50.00 Labor 3 hrs get meter boxes town Boy Scouts+Trails Club \$280 10/6/9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$675.00 Labor 15 install meter at Boy Scouts & Trails Club \$280 10/6/9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$50.00 Labor 15 install meter at Bo		3114168	FEI	Metering Plan / Cap Improvement	\$79.92	Parmelee	5517	12/31/2014
9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$142.50 backhoe 1.5 hrs backfill at Parmelee \$280 10/6/9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$75.00 materials 3 yds @\$25/yd crushed rock for Parmelee \$280 10/6/9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$270.00 Labor 6 hrs dig up waterline at Trails Club \$280 10/6/9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$270.00 Labor 6 hrs dig up waterline at Boy Scouts \$280 10/6/9/25/2014 \$28334 FEI Metering Plan / Cap Improvement \$68.41 Perrodin \$470.00 Perrodin		110954	HD Supply	Metering Plan / Cap Improvement	\$126.65	Perrodin	546 9	9/30/2014
9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$75.00 materials 3 yds @\$25/yd crushed rock for Parmelee \$280 10/6/9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$270.00 Labor 6 hrs dig up waterline at Trails Club \$5280 10/6/9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$5270.00 Labor 6 hrs dig up waterline at Boy Scouts \$5280 10/6/9/25/2014 \$428334 FEI Metering Plan / Cap Improvement \$68.41 Perrodin \$5471 10/2/9/25/2014 \$28334 FEI Metering Plan / Cap Improvement \$176.99 Perrodin \$470 10/1/9/26/2014 3467 Andrew Metering Plan / Cap Improvement \$450.00 labor 10 hrs saw cut A C and dig up service Perrodin \$5280 10/6/9/26/2014 3467 Andrew Metering Plan / Cap Improvement \$415.89 Trails Club \$5467 9/30/6/9/27/2014 3467 Andrew Metering Plan / Cap Improvement \$435.00 Bab R Rentals for A C Saw Perrodin \$5280 10/6/9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$405.00 labor 9 hrs install Perrodin meter & backfill \$5280 10/6/9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$50.00 materials 2 yds crushed rock @\$25/yds Perrodin \$5280 10/6/9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$565.00 labor 15 install meter at Boy Scouts & Trails Club \$5280 10/6/9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$565.00 labor 15 install meter at Boy Scouts & Trails Club \$5280 10/6/9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$59.48 Parmelee \$79.95 Perrodin \$5468 9/30/2014 3467 Andrew Metering Plan / Cap Improvement \$59.50 labor 15 install meter at Boy Scouts & Trails Club \$5280 10/6/9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$59.30 Bridge pipe & fittings \$5511 12/22, 12/3/2014 3472 Andrew Metering Plan / Cap Improvement \$500.00 Bridge pipe & fittings \$5511 12/22, 12/3/2014 3472 Andrew Metering Plan / Cap Improvement \$300.00 Arman - bac		3467		Metering Plan / Cap Improvement	\$142.50	backhoe 1.5 hrs backfll at Parmelee	5280	10/6/2014
9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$270.00 Labor 6 hrs dig up waterline at Trails Club \$5280 \$10/6/9/25/2014 \$42834 FEI Metering Plan / Cap Improvement \$5270.00 Labor 6 hrs dig up waterline at Boy Scouts \$5280 \$10/6/9/25/2014 \$428334 FEI Metering Plan / Cap Improvement \$68.41 Perrodin \$5471 \$10/2/9/25/2014 \$020932 HD Supply Metering Plan / Cap Improvement \$456.00 Perrodin \$470 \$10/19/9/26/2014 \$3467 Andrew Metering Plan / Cap Improvement \$450.00 labor 10 hrs saw cut A C and dig up service Perrodin \$5280 \$10/6/9/26/2014 \$3467 Andrew Metering Plan / Cap Improvement \$415.89 Trails Club \$467 9/30/9/27/2014 \$3467 Andrew Metering Plan / Cap Improvement \$435.00 Babor 10 hrs saw cut A C and dig up service Perrodin \$5280 \$10/6/9/29/2014 \$3467 Andrew Metering Plan / Cap Improvement \$435.00 Babor 10 hrs saw cut A C and dig up service Perrodin \$5280 \$10/6/9/29/2014 \$3467 Andrew Metering Plan / Cap Improvement \$405.00 Babor 9 hrs install Perrodin meter & backfill \$5280 \$10/6/9/29/2014 \$3467 Andrew Metering Plan / Cap Improvement \$50.00 materials 2 yds crushed rock @\$25/yds Perrodin \$5280 \$10/6/9/29/2014 \$3467 Andrew Metering Plan / Cap Improvement \$675.00 Babor 15 install meter at Boy Scouts & Trails Club \$5280 \$10/6/9/29/2014 \$3467 Andrew Metering Plan / Cap Improvement \$79.95 Perrodin \$5488 9/30/2014 \$3467 Andrew Metering Plan / Cap Improvement \$579.05 Perrodin \$5488 9/30/2014 \$3467 Andrew Metering Plan / Cap Improvement \$579.05 Perrodin \$5280 \$10/6/9/29/2014 \$3467 Andrew Metering Plan / Cap Improvement \$675.00 Babor 15 install meter at Boy Scouts & Trails Club \$5280 \$10/6/9/29/2014 \$3467 Andrew Metering Plan / Cap Improvement \$570.00 Babor 15 install meter at Boy Scouts & Trails Club \$5280 \$10/6/9/29/2014 \$3467 Andrew Metering Plan / Cap Improvement \$570.00 Babor 15 inst		3467	Andrew	Metering Plan / Cap Improvement	\$75.00	materials 3 yds @\$25/yd crushed rock for Parmelee	5280	10/6/2014
9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$270.00 Labor 6 hrs dig up waterline at Boy Scouts 5280 10/6/9/25/2014 428334 FEI Metering Plan / Cap Improvement \$68.41 Perrodin \$471 10/2/9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$476.90 Perrodin \$470.00 S470 10/1/9/25/2014 3467 Andrew Metering Plan / Cap Improvement \$470.00 S470.00 S470.		3467	Andrew	Metering Plan / Cap Improvement	\$270.00	Labor 6 hrs dig up waterline at Trails Club	5280	10/6/2014
9/25/2014 428334 FEI Metering Plan / Cap Improvement \$68.41 Perrodin \$5471 \$10/2/9/25/2014 D020932 HD Supply Metering Plan / Cap Improvement \$476.99 Perrodin \$176.99 Pe		3467	Andrew	Metering Plan / Cap Improvement	\$270.00	Labor 6 hrs dig up waterline at Boy Scouts	5280	10/6/2014
9/25/2014 D020932 HD Supply Metering Plan / Cap Improvement \$176.99 Perrodin \$450.00 Indicates		428334	FEI	Metering Plan / Cap Improvement	\$68.41	Perrodin	5471	10/2/2014
9/26/2014 3467 Andrew Metering Plan / Cap Improvement \$450.00 labor 10 hrs saw cut A C and dig up service Perrodin 5280 10/6/9/2014 3116540 FEI Metering Plan / Cap Improvement \$415.89 Trails Club 5467 9/30/9/2014 3467 Andrew Metering Plan / Cap Improvement \$435.00 B & R Rentals for A C Saw Perrodin 5280 10/6/9/2014 3467 Andrew Metering Plan / Cap Improvement \$405.00 labor 9 hrs install Perrodin meter & backfill 5280 10/6/9/2014 3467 Andrew Metering Plan / Cap Improvement \$50.00 materials 2 yds crushed rock @\$25/yds Perrodin 5280 10/6/9/2014 3467 Andrew Metering Plan / Cap Improvement \$405.00 labor 3 hrs get meter boxes town Boy Scouts+Trails Club 5280 10/6/9/2014 3467 Andrew Metering Plan / Cap Improvement \$675.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/9/2014 3467 Andrew Metering Plan / Cap Improvement \$79.95 Perrodin 5468 9/30/9/2014 3467 Andrew Metering Plan / Cap Improvement \$59.48 Parmelee 5471 10/2/9/2014 3467 Andrew Metering Plan / Cap Improvement \$675.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/9/2014 3467 Andrew Metering Plan / Cap Improvement \$675.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/9/2014 3467 Andrew Metering Plan / Cap Improvement \$675.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/9/2014 3467 Andrew Metering Plan / Cap Improvement \$693.03 Bridge pipe & fittings 5517 12/31/9/2014 3472 Andrew Metering Plan / Cap Improvement \$380.00 4 hrs Dig waterline Bridge duplex 5511 12/22/9/2014 3472 Andrew Metering Plan / Cap Improvement \$380.00 8 hrs Install meter at bridge plex 5511 12/22/9/2014 3472 Andrew Metering Plan / Cap Improvement \$380.00 2 hr man - backfill meter boxes Bridge plex 5511 12/22/9/2014 3472 Andrew Metering Plan / Cap Improvement \$90.00 2 hr man - backfill meter boxes Bridg		D020932	HD Supply	Metering Plan / Cap Improvement	\$176.99	Perrodin	5470	10/1/2014
9/26/2014 3116540 FEI Metering Plan / Cap Improvement \$415.89 Trails Club 5467 9/30/9/30/9/30/9/30/9/30/9/30/9 9/27/2014 3467 Andrew Metering Plan / Cap Improvement \$135.00 B & R Rentals for A C Saw Perrodin 5280 10/6/9/30/10/9/3		3467	Andrew	Metering Plan / Cap Improvement	\$450.00	labor 10 hrs saw cut A C and dig up service Perrodin	5280	10/6/2014
9/27/2014 3467 Andrew Metering Plan / Cap Improvement \$135.00 B & R Rentals for A C Saw Perrodin 5280 10/6/9 9/27/2014 3467 Andrew Metering Plan / Cap Improvement \$405.00 labor 9 hrs install Perrodin meter & backfill 5280 10/6/9 9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$50.00 materials 2 yds crushed rock @\$25/yds Perrodin 5280 10/6/9 9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$50.00 labor 3 hrs get meter boxes town Boy Scouts+Trails Club 5280 10/6/9 9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$675.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/9 9/30/2014 3467 FEI Metering Plan / Cap Improvement \$79.95 Perrodin \$468 9/30/9 9/30/2014 3467 Andrew Metering Plan / Cap Improvement \$675.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/9 10/4/2014 3467 Andrew Metering Plan / Cap Improvement \$270.00 </td <td></td> <td>3116540</td> <td>FEI</td> <td>Metering Plan / Cap Improvement</td> <td>\$415.89</td> <td>Trails Club</td> <td>5467</td> <td>9/30/2014</td>		3116540	FEI	Metering Plan / Cap Improvement	\$415.89	Trails Club	5467	9/30/2014
9/27/2014 3467 Andrew Metering Plan / Cap Improvement \$405.00 labor 9 hrs install Perrodin meter & backfill 5280 10/6/9/29/2014 9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$50.00 materials 2 yds crushed rock @\$25/yds Perrodin 5280 10/6/9/29/2014 9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$675.00 labor 3 hrs get meter boxes town Boy Scouts +Trails Club 5280 10/6/9/29/2014 9/29/2014 3118127 FEI Metering Plan / Cap Improvement \$79.95 Perrodin 5468 9/30/2014 9/30/2014 3467 FEI Metering Plan / Cap Improvement \$59.48 Parmelee 5471 10/2/2 9/30/2014 3467 Andrew Metering Plan / Cap Improvement \$675.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/2 10/4/2014 3467 Andrew Metering Plan / Cap Improvement \$270.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/2 12/2/2014 34766 FEI Metering Plan / Cap Improvement \$270.00 </td <td></td> <td>3467</td> <td>Andrew</td> <td>Metering Plan / Cap Improvement</td> <td>\$135.00</td> <td>B & R Rentals for A C Saw Perrodin</td> <td>5280</td> <td>10/6/2014</td>		3467	Andrew	Metering Plan / Cap Improvement	\$135.00	B & R Rentals for A C Saw Perrodin	5280	10/6/2014
9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$135.00 labor 3 hrs get meter boxes town Boy Scouts+Trails Club 5280 10/6/2014 9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$675.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/2014 9/29/2014 3118127 FEI Metering Plan / Cap Improvement \$79.95 Perrodin 5468 9/30/2014 9/30/2014 3467 FEI Metering Plan / Cap Improvement \$675.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/20/20/20/20/20/20/20/20/20/20/20/20/20/	<u> </u>	3467	Andrew	Metering Plan / Cap Improvement	\$405.00	labor 9 hrs install Perrodin meter & backfill	5280	10/6/2014
9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$135.00 labor 3 hrs get meter boxes town Boy Scouts + Trails Club 5280 10/6/9/29/2014 9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$675.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/9/30/2014 9/30/2014 3467 FEI Metering Plan / Cap Improvement \$59.48 Parmelee 5471 10/2/2 9/30/2014 3467 Andrew Metering Plan / Cap Improvement \$675.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/2 10/4/2014 3467 Andrew Metering Plan / Cap Improvement \$270.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/2 10/4/2014 3467 Andrew Metering Plan / Cap Improvement \$270.00 labot 6 hrs set meter boxes at Boy Scouts & Trails Club 5280 10/6/2 12/2/2014 437666 FEI Metering Plan / Cap Improvement \$693.03 Bridge pipe & fitings 5517 12/31, 12/3/2014 3472 Andrew Metering Plan / Cap Improvement	9/29/2014	3467	Andrew	Metering Plan / Cap Improvement	\$50.00	materials 2 yds crushed rock @\$25/yds Perrodin	5280	10/6/2014
9/29/2014 3467 Andrew Metering Plan / Cap Improvement \$675.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/9/20/2014 9/29/2014 3118127 FEI Metering Plan / Cap Improvement \$79.95 Perrodin 5468 9/30/2014 9/30/2014 3467 FEI Metering Plan / Cap Improvement \$59.48 Parmelee 5471 10/2/2 9/30/2014 3467 Andrew Metering Plan / Cap Improvement \$675.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/2 10/4/2014 3467 Andrew Metering Plan / Cap Improvement \$270.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/2 12/2/2014 3467 Andrew Metering Plan / Cap Improvement \$675.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/2 12/2/2014 3467 Andrew Metering Plan / Cap Improvement \$693.03 Bridge pipe & fitings 5516 12/31, 12/3/2014 3472 Andrew Metering Plan / Cap Improvement \$380.00 4 hrs Dig waterline Bri		3467	Andrew	Metering Plan / Cap Improvement	\$135.00	labor 3 hrs get meter boxes town Boy Scouts+Trails Club	5280	10/6/2014
9/30/2014 3467 FEI Metering Plan / Cap Improvement \$59.48 Parmelee 5471 10/2/2014 9/30/2014 3467 Andrew Metering Plan / Cap Improvement \$675.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/2014 10/4/2014 3467 Andrew Metering Plan / Cap Improvement \$270.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/2014 12/2/2014 437666 FEI Metering Plan / Cap Improvement \$693.03 Bridge pipe & fitings 5517 12/31/2014 12/3/2014 3177399 FEI Metering Plan / Cap Improvement \$380.00 4 hrs Dig waterline Bridge duplex 5516 12/31/2014 12/3/2014 3472 Andrew Metering Plan / Cap Improvement \$360.00 8 hrs Install meter at bridge plex 5511 12/22/2014 12/5/2014 3472 Andrew Metering Plan / Cap Improvement \$90.00 2 hr man - backfill meter boxes Bridge plex 5511 12/22/2014 12/5/2014 3472 Andrew Metering Plan / Cap Improvement \$90.00 2 hr man		3467	Andrew	Metering Plan / Cap Improvement	\$675.00	labor 15 install meter at Boy Scouts & Trails Club		10/6/2014
9/30/2014 3467 Andrew Metering Plan / Cap Improvement \$675.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/2014 10/4/2014 3467 Andrew Metering Plan / Cap Improvement \$270.00 labor 15 install meter at Boy Scouts & Trails Club 5280 10/6/2014 12/2/2014 437666 FEI Metering Plan / Cap Improvement \$693.03 Bridge pipe & fitings 5517 12/31/2014 12/3/2014 3177399 FEI Metering Plan / Cap Improvement \$301.02 Bridge meter, pipe & fitings 5516 12/31/2014 12/3/2014 3472 Andrew Metering Plan / Cap Improvement \$360.00 8 hrs Install meter at bridge duplex 5511 12/22/2014 12/5/2014 3472 Andrew Metering Plan / Cap Improvement \$90.00 2 hr man - backfill meter boxes Bridge plex 5511 12/22/2014 12/5/2014 3472 Andrew Metering Plan / Cap Improvement \$190.00 2 hr man - backfill meter boxes Bridge plex 5511 12/22/2014		3118127	FEI	Metering Plan / Cap Improvement	\$79.95	Perrodin		9/30/2014
10/4/2014 3467 Andrew Metering Plan / Cap Improvement \$270.00 labot 6 hrs set meter boxes at Boy Scounts & Trails Club 5280 10/6/31/31/31/31/31/31/31/31/31/31/31/31/31/	9/30/2014	3467	FEI	Metering Plan / Cap Improvement	\$59.48	Parmelee	5471	10/2/2014
12/2/2014 437666 FEI Metering Plan / Cap Improvement \$693.03 Bridge pipe & fitings 5517 12/31, 12	9/30/2014	3467	Andrew	Metering Plan / Cap Improvement	\$675.00		5280	10/6/2014
12/3/2014 3177399 FEI Metering Plan / Cap Improvement \$301.02 Bridge meter, pipe & fitings 5516 12/31, 12/31, 12/32, 12/31, 12/32, 1	10/4/2014	3467	Andrew	Metering Plan / Cap Improvement	\$270.00	labot 6 hrs set meter boxes at Boy Scounts & Trails Club	5280	10/6/2014
12/3/2014 3177399 FEI Metering Plan / Cap Improvement \$301.02 Bridge meter, pipe & fitings 5516 12/31, 12/32, 12	12/2/2014	437666	FEI	Metering Plan / Cap Improvement	\$693.03	Bridge pipe & fitings	5517	12/31/2014
12/3/2014 3472 Andrew Metering Plan / Cap Improvement \$360.00 8 hrs Install meter at bridge plex 5511 12/22, 12/5/2014 3472 Andrew Metering Plan / Cap Improvement \$90.00 2 hr man - backfill meter boxes Bridge plex 5511 12/22, 12/5/2014 3472 Andrew Metering Plan / Cap Improvement \$190.00 2 hr machine - backfill meter boxes Bridge plex 5511 12/22,	12/3/2014	3177399	FEI	Metering Plan / Cap Improvement	\$301.02	Bridge meter, pipe & fitings	5516	12/31/2014
12/3/2014 3472 Andrew Metering Plan / Cap Improvement \$360.00 8 hrs Install meter at bridge plex 5511 12/22, 12/5/2014 3472 Andrew Metering Plan / Cap Improvement \$90.00 2 hr man - backfill meter boxes Bridge plex 5511 12/22, 12/5/2014 3472 Andrew Metering Plan / Cap Improvement \$190.00 2 hr machine - backfill meter boxes Bridge plex 5511 12/22,		3472	Andrew	Metering Plan / Cap Improvement	\$380.00	4 hrs Dig waterline Bridge duplex		12/22/2014
12/5/20143472AndrewMetering Plan / Cap Improvement\$90.002 hr man - backfill meter boxes Bridge plex551112/22,12/5/20143472AndrewMetering Plan / Cap Improvement\$190.002 hr machine - backfill meter boxes Bridge plex551112/22,		3472	Andrew	Metering Plan / Cap Improvement	\$360.00	8 hrs Install meter at bridge plex	5511	12/22/2014
12/5/2014 3472 Andrew Metering Plan / Cap Improvement \$190.00 2 hr machine - backfill meter boxes Bridge plex 5511 12/22,		3472	Andrew	Metering Plan / Cap Improvement	\$90.00	2 hr man - backfill meter boxes Bridge plex	5511	12/22/2014
		3472	Andrew	Metering Plan / Cap Improvement	\$190.00	2 hr machine - backfill meter boxes Bridge plex	5511	12/22/2014
	*			TOTAL COST	\$6,888.84			

CUSTOMERS NAMES	
	Perrodin
	Parmelee
	Trails Club
	Boy Scouts
	Bridge duplex

SUMMARY

Count	Acct#	Customer Name	Location	Meter#	Date Install
1	71	Nogarie	8940 E Round Mtn Lp	92696902	09/15/12
2	306	Mt Hood Museum	88900 E G.C. Loop	48994670	05/23/13
3	242	Landauer	30397 E Blossom Tr	93490859	05/29/13
4	100	Carrier/OR Exp LLC	30467 Blossom	93490861	05/31/13
5	157	Skowhede	30460 E Blossom Tr	93490862	05/31/13
6	105	Campbell, Jim & Laura	80703 E Lige	93490860	06/11/13
7	114	Morse, Dorte&Greg	30225 E Blossom Tr	92946540	06/24/13
8	60	Putnam/Ravi	88567 E Frontage	93581182	06/25/13
9	162	Ravi/Putnam	30960 E Multorpor Dr	93581174	06/25/13
10	237	Wilcox	89107 E Little Tr	93581183	07/02/13
11	250	Ingersol - Mt. Hood Resort Lodging	89048 E Little Tr	60820245	07/10/13
12	34	Neth	89055 E G.C. Loop	60820247	07/10/13
13	39	Reed Inst. Ski Cabin	30545 E Mucoy St	956811175	07/11/13
14	5	Barlow Pass West	30395 E WyEast	608202249	07/11/13
15	214	M. Parmelee	30700 E Meldrum St	67222037	09/25/14
16	126	Perrodin	88875 E Round Ntn Lp	67222042	09/29/14
17	8	Boy Scouts of America	27901 E West Leg Rd	60638388	10/04/14
18	56	Trails Club	30133 E West Leg Rd	18359645	10/04/14
19	9	Bridge, Duane & Shari	88256 E Steel Ln	77874323	12/4/2014

2012 Metering Plan	\$549.77
2013 Metering Plan	\$20,521.17
2014 Metering Plan	\$6,888.84

TOTAL COST

\$27,959.78

In the plant worksheet submitted, Account 330, Distribution Reservoir and Standpipes, please explain the difference in the UW 145 stated amount for the 100,000 Gal Wood Tank of \$41,700 to the corrected amount filed in UW 174 of \$48,475. Please include in your explanation supporting documentation of the actual cost in June 1980.

RESPONSE:

Below is the plant entry in question.

UW 145 1	00,000-GAL WOOD TAN	NK (Corrected Amount)	6/1/1980	48,475

In UW 145, the total cost of the tank was not recorded at the correct amount. In researching information to respond to Data Request 37, the Company found additional information (summarized in the table below) confirming the cost of the wood tank. This summary shows that the \$48,475 (referenced above) was incorrect. Attached as Data Response 37 Attachment A, you will find Small Business Administration (SBA) documentation supporting the total cost of the wood tank project as \$139,000. Removing costs that are already included in plant in UW 145 (not including the plant entry above) leaves a total of \$100,949.22. Therefore, the cost correction to the plant entry should be \$100,949.22 minus the \$41,700 from the UW 145 original entry. This results in a corrected adjustment to the plant entry above of \$59,249.22.

The cost of the tank has been depreciating since 1980 at a service life of 50 years. Due to the error noted above, it has depreciated at the incorrect amount. The Company requests that staff amend the plant entry above to show a corrected amount of \$59,249.22. This will ensure the remaining correct cost is being depreciated.

SBA DISB DT	TOTAL AMT	SBA Disbursement Check #	AMOUNT	PAID TO	
9/16/1980	25,918.06	15230016	25,918.06	CCB	National Tank & Pipe payment for Tank
	2,130.97	15230017	2,130.97	Wtr Wks Supply	Pipe & Fittings
	347.00	15230018	347.00	Borrower	Mercer - Rebar
	13,245.74	65109453	13,245.74	Wtr Wks Supply Morrison Knudsen	Pipe & Fittings Concrete work & concrete pump
	3,080.00	65109454	3,080.00 854.20	Bruce Erickson PE	Consulting Engineer
	854.20 622.00	65109455 65109456	622.00	Borrower	Robt. Marshall /Mileage for Hauling
	022.00	03103430	022100	551151151	
10/8/1980	692.64	15499542	692.64	Water Works Supply	Pipe & Fittings
	4,819.83	15499543	4,819.83	Bruce Erickson PE	Engineering
		45705440	alora de la mianté	Govt Camp Excav	Labor, materials & machine
10/27/1980	27,609.00 533.30	15735110 15735111	already in plant*	Bitte Church & Winchell	CPA- app requirements & acctg SBA forms
	1,000.00	15735112	1,000.00	Borrower	Govt Camp Excavation / Labor, materials & machine
	1,000.00	13/33112	2,000,00		
12/9/1980	603.50	15843933	603.50	Statewide Rent-a-fence	Fencing
	1,025.37	15843934	1,025.37	Water Works Supply	Pipe & Fittings
	186.00	15843935	186.00	Bruce Erickson PE	Engineer & draftsperson
	627.20	15843936	627.20	A & A Drilling	Pipe & Fittings
	19,503.79	15843937	19,503.79	Govt Camp Excav	Labor, materials & machine
	2,433.13	15843938	2,433.13	Borrower	Casual Labor
980 TOTAL	105,231,73		77,089.43	2	
JUNE 101AL	- A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		1111111	-	
1/12/1981	1,035.00		1,035.00	Bruce Erickson PE	Engineer & draftsperson
	85.15	65858379	85.15	Water Works Supply	Pipe & Fittings
	210.00	65858380	210.00	Borrower	Casual Labor
7/13/1981	4,207.98	see SBA letter	already in plant*	Water Works Supply	Pipe & Fittings
0/24/1001	1,025.66	17337934	1,025.66	Water Works Supply	Pipe & Fittings
8/24/1981	3,500.00		3,500.00	Govt Camp Excav	Labor, materials & machine
	2,674.60		2,674.60	Govt Camp Excav	Labor, materials & machine
	2,07 1100	2,00,000			
9/21/1981	1,764.06	67357991	1,764.06	Borrower	Water Works Sup & Pacific Water Wks P & F
10/15/1981	2,000.00		2,000.00	Borrower	Govt. Camp Excav - Labor, materials & machine
	2,447.88	17561243	2,447.88	Govt Camp Excav	Labor, materials & machine
	40.000.00		14,742.35		777
1981 TOTAL	18,950.33		14,742.33		
2/11/1982	4,930.50	18182130	already in plant*	Govt Camp Excav	Labor, materials & machine
4/22/1982	1,000.00		1,000.00	Govt Camp Excav	Labor, materials & machine
	770.00	18557114	a lacardia la minasti	Borrower	Govt. Camp Excav - Labor, materials & machine
	770.00	10337111	already in plant*		
8/31/1982	2,342.31		2,342.31	Pacific Water Wks Supply	Pipe & Fittings
	2,342.31	19234803	2,342.31	Pacific Water Wks Supply	
8/31/1982 10/21/1982		19234803 20059169	2,342.31 4,183.18	Pacific Water Wks Supply Pacific Water Wks Supply	Pipe & Fittings Pipe & Fittings Govt. Camp Excay - Labor, materials & machine
	2,342.31	19234803	2,342.31	Pacific Water Wks Supply	Pipe & Fittings
10/21/1982	2,342.31 5,775.13	19234803 20059169 20059168	2,342.31 4,183.18	Pacific Water Wks Supply Pacific Water Wks Supply	Pipe & Fittings
10/21/1982	2,342.31	19234803 20059169 20059168	2,342.31 4,183.18 1,591.95	Pacific Water Wks Supply Pacific Water Wks Supply	Pipe & Fittings
10/21/1982 1982 TOTAL	2,342.31 5,775.13	19234803 20059169 20059168	2,342.31 4,183.18 1,591.95	Pacific Water Wks Supply Pacific Water Wks Supply	Pipe & Fittings
10/21/1982 1982 TOTAL GRAND TOTAL	2,342.31 5,775.13 14,817.94 139,000.00	19234803 20059169 20059168	2,342.31 4,183.18 1,591.95 9,117.44 100,949.22	Pacific Water Wks Supply Pacific Water Wks Supply	Pipe & Fittings
10/21/1982 1982 TOTAL GRAND TOTAL	2,342.31 5,775.13 14,817.94 139,000.00	19234803 20059169 20059168	2,342.31 4,183.18 1,591.95 9,117.44 100,949.22	Pacific Water Wks Supply Pacific Water Wks Supply Borrower Cost Not In Plant	Pipe & Fittings
10/21/1982 1982 TOTAL 1980 1981	2,342.31 5,775.13 14,817.94 139,000.00 77,089.43 14,742.35	19234803 20059169 20059168	2,342.31 4,183.18 1,591.95 9,117.44 100,949.22	Pacific Water Wks Supply Pacific Water Wks Supply Borrower Cost Not In Plant	Pipe & Fittings
10/21/1982 1982 TOTAL GRAND TOTAL	2,342.31 5,775.13 14,817.94 139,000.00	19234803 20059169 20059168	2,342.31 4,183.18 1,591.95 9,117.44 100,949.22 (41,700.00)	Pacific Water Wks Supply Pacific Water Wks Supply Borrower Cost Not In Plant Minus UW 145 Entry	Pipe & Fittings

Note: The pre-SBA loan engineering entries below are already included in plant. This engineering work was required as a prerequisite condition of the loan. The costs are not included in the SBA documents because they occurred prior to the loan. Data Response 37 Attachment B documents the pre-SBA loan engineering costs.

Engineering Cost Wood Tank - Pre SBA	2/29/1980 919
Engineering Cost Wood Tank - Pre SBA	3/18/1980 333
Engineering Cost Wood Tank - Pre SBA	5/12/1980 671

Please provide a separate Plant schedule for all CIAC contributions in excel format.

RESPONSE:

A copy of the Company CIAC plant and depreciation schedule is attached in excel format as Data Response 16 Attachment.

Please provide the status of the CWIP project of \$5,441 to replace lines necessary to correct a repair problem. Please explain in your response whether the project has been started and when you expect it to complete. Please include in your response all documentation in the Company's possession of the current status of and timeline for project, including any project plans or contract(s) associated with the project.

RESPONSE:

As the timeline below indicates, the capital project started in November 2017. Due to the timing of the customer complaint, identification of the problem and the area's short construction season, the Company was forced to temporarily delay physical construction. The line connects to 4 homes. This is a small project; and therefore, doesn't require engineering plans or contracts. The revenues from the CWIP will be used solely for the purpose of completing the project. Staff has already received a copy of the estimate for the line replacement in the application, Exhibit 4.

LINE REPLACEMENT TIMELINE

DATE	ACTIVITY
9/13/2017	Customer complaint re: low volume/pressure
	Company makes repair/identifies further problems
10/31/2017	including numerous leaks and tree roots
	Solution identified, replace 1940 lines and move
10/31/2017	the lines away from trees
11/10/2017	Company receives estimate for line replacement
11/10/2017	Company makes decision to replace lines
11/13/2017	Starts snowing, construction halted
	ESTIMATED TIMETABLE
	As soon as snow melts company will begin
	replacement of line.
	Cummins - Tap a line on Steel & connect home &
Phase 1	old line will be abandoned
	Robinson, Anja - Tap a line on Steel & connect
Phase 2	home & old line will be abandoned
	Lukovich & Murphy's line is in an easement which
	is the access to both cabins off of steel lane. A
	new line will tap off of Steel and run down the
Phase 3	150-175' easement.

CIAC Plent											1			1 1						- 1	1					-т-	_					
re :	Date	Utility Plant	Loss Excess Capacity Adj	Yotal Adj	NARUC	Annual M	Finel tenth of														2004	2005 200	2007	arina	2000 70	010 2011	2012	2019 2	7014 207	2016		Remaining Plant
e. Account Description	Acquired	Orig Cost	to Plant	Plant	Asset Life			ofare 1983 19		987 1988	1989 [1	90 1991	1992 199		1995 19		1998 199	2000	2001 2	2009					-				-		-	
Organization	Various				-	- V	prious							1:							1			-	*		-		-	-		
							_	- 1 -							· 1			1		<u> </u>						: :				-		
		<u> </u>				- lv																-		1.	-	. 1 .		.)			- 1	
72 Franchises	Various	-				- V	arious		-												-				-					-		\equiv
		<u> </u>				-:-	=								•					- -	-	-		-	-							
03 Land and Land Rights	Various	-T			_ 	. V	farlous				1									- 1 -		-	- -	T- 1	- 1				- [-	- -	-	•
0.3 Land and Land Rights	VALUE	-	<u> </u>		-						T : 1			1:1	÷├┈	: :			<u>-</u> -	÷ :				-							-	
					- :	- :						- 1 - 1	*		- 1	- 1				++:			-		-	<u>: :</u>		-	- :			
04 Structures and Improvements	Various	1 .			35		turious.	- 1			1.1			-	•				·		- 1				-		-	-	-		- 1	
				-	35 35			-:-														-	<u> </u>				1=		-		:-	
				:	35 35								<u>: : :</u>		<u> </u>	<u>: : : : : : : : : : : : : : : : : : :</u>		<u> </u>		- :						<u>: </u>	1	-				
05 Collecting and Impounding Reservoirs	Vertous			-	\$0		/arious	•	<u> </u>					7.7	-				-	- 1 -	-		- -				T :		-		-	
				-	50					, .	1 - 1		- -					<u> </u>		-+-	- 1	- i		-					-		:	
					50 50						1					-							- -	T .=L			<u> </u>		-			
OS Lake, River and Other Intakes	Various		 	-	35		/arious				:														-		-		•		- :	
			<u> </u>	<u> </u>	35 35 35	-						: :			-				· ·		-	-						-	-		-	
		<u> </u>	<u> </u>	-	35						لنا	- -								- -	-		<u>. .</u>	<u> </u>			\rightarrow	<u> </u>		- -		
107 Wells and Springs	Various	-	<u> </u>		25 25		Various	- 1			-	-				-	-					4	 -		-		+=	- 1			- :	
					25 25	-			· ·				-						1				<u> </u>			-						=
			1	<u> </u>	25											- -							- -	استسا								
108 Infiltration Galleries and Tunnels	Various	•		<u>-</u>	25 25		Various	-				- 4			- l	<u>: </u>	-				-				-				-			<u> </u>
				-	25 25					- 1 -	1 - 1	- 1		. -			-		- I		·				-		-		-		-	<u> </u>
				·	25										. 1				1 • 1			- 1			.	- 1 -		- 1	- 1	- -		
Supply Main	Various	1 -			50		Various					-	-		\pm					-		-			-							
				-	50 50											: :		-				-	-	-								<u>:</u> _
10 Power Generation Equipment	Various		Τ.				Various										-	- [-	T .	.] .			: <u> </u> -						-			
To Fore dealers of Egyppinson				-	30 30				: : 	: :		- -	-										1						-		-:-	
					30	-							-				1 - 1		-		1:						+		<u> </u>	<u> </u>		
311 Pemping Equipment	Various	-		· .	20	- 1	Various									- -	-		T		1.								_			
				:-	20	· ·		-				· ·	1		- 1		-								-			1				
				· · · ·	20 20					- -	1:		-				1:1	: - :			-			-	-			احسا		<u>. </u>		
320 Water Treatment Equipment	Various				20		Various			- -	-		-				1:1		1							-	1:					
			-	-	20 20 20						-												- :									
					20			<u>-</u>		- -	النال	خلک	-	لنان		· -					1.	I_	<u>. I</u>	<u> </u>	-			<u> </u>			T_	
330 Distribution Reservoir and Standpipes	Various		-	-	50 50		Various			- 1 -	1 - 1	- -	- 1	ll	+				-					-		-		-	-		:	<u> </u>
					50 50			-	 	- I -	1 . 1	- 1 -	1 - 1	- 1 - 1		- -	-		1			•				_				: -		
				<u> </u>	50	<u> </u>				- -	<u> </u>		-				<u> </u>	<u>- -</u>		- -				-		-						
331 Transmission and Distribution Mains 32" line Lige to Gov Camp Loop		02 335,07	1	1,077,541 335,071	1 50		Oct 2052	-					-		·	=			- 1	1,117 6,70	11 6 707	6 700 6	5 701 5 70	1 6707	6701	6.701 6.1	7.0t 6.701	6.701	G.701 6	,873 21,553 ,701 6,701	94,937	240,134
12" line Multarear to Skibowi 8" line WyEast to Blossom	Oct 20	06 198,28 06 150,71	5	198.285 150,719		3,960 3.014	50p 2056			-	-	1 1																			40.648 30,897 15,867	119,82 59,13
12" Bore Line under Hwy 26 to Tyrolean Tyrolean Overruns - TIF Portion	Sep 20 Jan 20	08 24.415	0	85,600 14,419	50 50	288	Aug 2057 Dec 2057		- -		+:-										1		- 15	288	288	288	288 288	288	288 1,000 1	285 288 ,000 1,000 285 288	2,595 3,500	11.824
DDOT Project 4" line replacement Tyrolean Overruns - Berman Portion	Nov 20	13 14,419	9	50,000 14,419	50	288 4 595	Nov 2063	-		-	1		H <u>i</u> l							= = :	-			<u> </u>		-		48	258	288 288 914 4,595	913 6,509	
12" line from Tyrolean to 5kiBowl West	Aug 20	15 229,72		229,728		1	Jul 2065			: :	+ -	- -									1		<u></u>			-	: :			914 4.595		- :
333 Services	Various			<u> </u>			Various		- -				1 - 1		, 			-				T						Τ.	. 1		· ·	
333 24FVICES	various		+		30	T	- 40 14113							<u> </u>	-		-	-	÷				-		-		<u> </u>	-	\equiv		<u>-</u> -	
		_	+	-	30			-			-								i i						ĿΞ	$\pm \mathbb{I}$		+		<u>: :</u>		<u>:</u>
334 Meters and Meter installations	Various		† .	1 .			Various																									
1/4494					20			<u> </u>	-		- :					<u>: </u>	1:1	<u>: </u>	-		+:-			# :			1		-			- :
	-			-							-					<u> </u>	1:1		1.		 -		- -	 		-	: :				-	
h																																

page 2 of 2

drants																																		
	Various		·····.		40		Various	. 1		. T :	T . T			1 . 1		1 .	1 - 1						- 1				-	-			T :	7	· •	·Bro
710325					40		- ANNE		\div									$\overline{}$		_		-	-	-	-	-		-	- 1 -		1 -			-
					40																		- 1		—		-				-		(-	-
			- 1		. 40						1 - 1		- I	I - I				-		-		Ŧ				-	-	-			-		-	-
-					40			-		· ·	1 -	-		1-1	-	1 -		-		-		-				-								
			-																															
Connection Control	Various	-			15	·	Various	- 1	-		T -	-] -		T T		-		-							-	-	,	-					-	- 1
					15						-	-			·												·	-			-			
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		25	-					ŢŢ	- 1				-							-		-			- 1		<u> </u>		ا ت		
					15					·	-	•								-								-		·				
				1	15	-					-									للنل	<u> </u>	-	-							·		1 - 1	سلسنسا	
											, , ,									,											.,			
Pleat	Various					-										<u> </u>																		-
											1:1	1	<u> </u>	1 • 1		-				<u> - -</u>					+ -		_		_		+-			
					30												1							·							_			
														1-1						1								-		-	+-	-		
			1		30	-			- 1		-	-					ــــــــــــــــــــــــــــــــــــــ			1			- 1		<u> </u>		•	-	<u> </u>	<u> </u>		لنال		
																										,					٦.	$\overline{}$		
Furniture and Equipment	Various		•		20		Various																		-									
		\vdash			20							-	·	-		<u> </u>									_	-	$\overline{}$					~	 - -	
		\vdash			20			-								-			+				$\overline{}$		+-	$\overline{}$		$\overline{}$	_			+		
		ļ		استسسر	20								-	1					<u>- - </u>	-						 - 				: :			 	-:-
		1			20		بلــــــــــــــــــــــــــــــــــــ		- 1.	<u>- L - </u>	1 - 1	- 1					سلستسا				- 1 -		- 1	-		احت	<u></u>					استسا		
	46.3						100.00			····		T - T	·	, ,		_	1.1			T - T				- 1				- 1	- 1	_ 1	-	1 -		
portation Equipment	Various	 		استحصم	7		Various															+										-		_
				-	7		 			- -					- -												-					 -		
					7							 - -			- -				: :	+ : +				-		1					-			
	····	 			7														- 									-						-
		·			, ,				<u> </u>	. , .	ىنى			للتسل						-ا-						٠								
Shop, and Garage Equipment	Various				15		Various		- 1		т. п	-		т. т			T			1.1			. 1		1 -	1 : 1		- 1	- 1				Τ	
Junip wind potage equipment	- suons	 	-	-	15		- Znoux													1					. 	 	- 1	- 1	. -	. :	1:	+	1:	
				 -	15		 													+	- -	 -						-				+-:-	1	
				$\overline{}$	15				- 1	. 	1	-	- -	1 - 1		-									-		-	·	· ·					- 1
					15				-	- -	1			1 -				- 1		-							-	-			-	T		
ratory Equipment	Various				15		Various		-			-		- I	- :			-																
					15				- [- T	-					-						-	-							<u>-</u>	÷		
					15						~.	-		1		<u> </u>		-		1							<u> </u>	-		<u>- -</u>		-	——	
					15				-	<u>- -</u>	1.	<u> - </u>	<u>. -</u> .	1 :- 1						1			-					· .				 _		
	<u> </u>			لىئىي	15					خلت	لينا	ــــــــــــــــــــــــــــــــــــــ		1 - 1		<u> </u>				لمنا				-		-	<u> </u>	-		<u>· 1 · </u>			_ـــــــــــــــــــــــــــــــــــــ	
	,	e					, ,									·····				, ,												—		
vor Operated Equipment	Various						Verlous	$\overline{}$											<u> </u>	1 - 1			-	-		•	-		-				 	
			$\overline{}$		10					- -	-			+				-		+ - +								····			+ :		+++	-:-
					10								·	+		-	-		\div	1 -		<u> </u>				 				* 1				
				-	10	-	-							+-+			+									1 -	-	-			٠·			<u>-</u> -
				لنسل	10	<u> </u>	J	1		خست	•	-			, , ,	<u> </u>	التا			لثل		<u> </u>			<u> </u>	۰		<u> </u>		•				
		····	-											·	_		.l <u>-</u> .l.	_								T	· . · · · · · · ·	- T				$\overline{}$		
munication Equipment	Various	ļ <u>.</u>			10		Various			- -	+-	+ - +	• •	+-+		\-	 							-									 	
			ļ		10		 		*		+ -			+-+			+	·· ···		+ +	-											- 		
				- :	10	 :								+ : +	.	. 1	+ : +	.	. -	1						T				. -	 	+.	1	
	 				10						T-	1 . 1		1:1		+ -	 		 	1.			T . 1	-	. :	1 -	-:-	-		. -		7	1-	
					10	<u>_</u>																								***************************************				
ronic/Computer Equipment	Various	T -		· ·			Various							T . T	- -		, r	- 1			. 1 .		. 1	-		1	- 1	-	-		-	-		- 1
own company equipment		1						-				- 1		1 1		1 -																		
***************************************	·····	1		-	5						-	- 1		7 - 1			1 - 1	-		-				-		_ ·	-	-	-			-	-	
					5						T -			1 - 1	- -					<u> </u>						L								-
	J			-	5					Z		-			· :			-		-			-				·							-
laneous Equipment	Various	· · ·			10		Various	- 1		- 1 -			<u>. T</u> .																-					
				_	10									1				-		I - I			- 1	-		L.		·			<u>-</u>	-		
					10							1.		1.1			L.I	- [Ŀ·I		<u> </u>	1					1000	<u> </u>	\vdash \vdash \vdash	
					10									1 - 1			1 - 1	-		T				·	. -	- "		-		- -	<u> </u>	-		
										- " -			.] -	1			بآستسا	لت					- T	- 1	. .	L	-	- [1	
		1,077,641		1,077,641	Bendani	31.5	Manfath		_											1 - 1	_ 44	12 6701	6701	67nt a	Me enn	унара	MEDIA -	5670 14	5 670 44	670 16 24	18 18 05	CR 18 877	21,553	195 867
	verlous	1,077,841	L	1,077,641	Ivanous	21,559	varjous	لــــــــــــــــــــــــــــــــــــــ		- -	-		- -		- -	·	1.:.1				- 13,3	47 0,701	p,/al]	ayear B,	中心 医排除	- annah	20H40 1	3,010 [1	عر <i>د</i> ه ر ۲۵ رس	D/ U 10,23	10,95	<u>□ [10]0/3</u>	1 + 2,033	150,001
TALS		-																																
	1077614																																	
ginal Plant in Service Cost	1,077,641	-																																
inal Plant in Service Cost Excess Capacity]																																
nal Plant in Service Cost		}																																

Ment - CAAC

21,553

Dapreclation Expense

Please provide an explanation for the lack of compliance to Condition 12 in the Stipulated Agreement in UW 145, requiring Government Camp to file a new rate case in or prior to January 2014, as the subsequent rate case was filed December 29, 2017.

RESPONSE:

The Company is a small water system. Filing a rate case is a big deal for the Company. It is very time consuming and costs money to file a rate case. This is above and beyond the time and costs required to operate and maintain the water system. Further, the Company has been going through a lot of changes in the last few years. For example; transitioning to new ownership/ management with the attendant training and mentoring; negotiating an operator contract; hiring and bringing up to speed a new bookkeeping and billing service. It's been a very busy and demanding time for this small Company. In January of 2014, the Company requested PUC Staff stipulate to an 18 month extension. It was the Company's perception that a rate case was not yet advisable.

Please explain whether Condition 9 (a three-year metering program to install meters to all commercial customers with service line sizes greater than 3/4 inch) in the Stipulated Agreement for UW 145 has been met? If it has not been met, please explain in your response the number of commercial customers without meters with service line sizes greater than 3/4 inch and when those customers will have meters.

RESPONSE:

The Company has completed the three-year metering program. However, after delving into the logistics and researching the costs associated with this program, the Company made a management decision to meter only those commercial customers who use a large volume of water. The research showed that commercial customers with lines over ¾", consume less water, not more than those with ¾-inch lines. Therefore, the Company determined that because of this lower volume, it wasn't cost effective to meter these lower volume customers with lines over ¾". The commercial customers without meters with service lines sizes greater than ¾" are shown below. We have no plans to meter these commercial customers in the foreseeable future

Customer	Acct#	Reason to not include in metering plan
Hoodland Fire	. 28	Low water use
Stockton	29	Low water use
Smith, Raelene	202	Low water use

In Government Camp's response to DR 18 regarding Condition 9 in the Stipulated Agreement in UW 145, the Company indicated it "made a management decision to meter only those commercial customers who use a large volume of water." In its response, the Company provided a table listing three low-volume commercial customer accounts (Hoodland Fire, Stockton, and Smith). In the billing data supplied in response to DR 1, there are a total of eight flat-rate commercial and residential customers with 2 inch lines. In supplemental DR 66:

 Please advise whether the Company plans to complete the metering program in compliance with Condition 9 of the Stipulated agreement between parties in UW 145, and

RESPONSE:

The Company approached its three year metering plan by determining the most cost effective implementation plan. In UW 174, the Company intends to seek Staff and the Commission's reconsideration of the metering plan. It is the Company's determination that full implementation of the three year metering plan is not in the Company's best interest given cost and the Company's financial position.

b. Please provide how the Company determined that Hoodland Fire, Stockton, and Smith were low-volume customers without meters by which to gauge customer usage.

RESPONSE:

The Company's management decision is to not to meter low volume customers. However, each situation is unique. The Company determined not to meter the three customers below because:

Hoodland Fire Station - is unmanned; there is little or no consistent water use.

<u>Stockton</u> – This is a vacation rental. The Company intended to meter this customer; however, the water line is under asphalt. In order to install a meter, the asphalt driveway would have to be torn up. The Company determined that it is not cost effective, and it would be needlessly disruptive to tear up the asphalt to install a meter to determine water usage.

<u>Smith</u> – This account has 2 units. The customer lives in one unit but travels a lot and is absent much of the time making it a low volume user. However, the second unit is a rental. The Company will consider this account for metering in the future.

During the Pre-Hearing Conference held for UW 174 on February 20, 2018, an attendee expressed concerns relating to a recent water pressure issue that may have been related to snow making activities at a ski resort. Please describe this water pressure issue and provide all documentation that the Company has regarding the issue and its resolution.

RESPONSE:

In December 2016, the Company was notified of a low water pressure issue in the water system. It was determined that the low water pressure was the result of snow making activities at Mt Hood Ski Bowl (Ski Bowl). Following an investigation, it was concluded that the cause was an error on the part of a Ski Bowl employee. The employee was subsequently removed from snow making duties.

As a result of this event, the Company added the following requirements for future snow making activities:

- Total snow making activities are limited to no more than 350 gailons per minute ("GPM").
- Ski Bowl is required to provide phone or text notification to the Company prior to beginning daily snow making activities.
- The Company may, if necessary, suspend snow making during high domestic consumption periods.
- During snow making activities, the Company monitors water system pressure hourly to ensure no reduction in pressure occurs.

This was a one-time incident and no further events have occurred since. The Company's new requirements and procedures regarding snow making activities will be required of all snow making entities.

Please identify all customers of the Company that use snow making machines and indicate in your response whether these customers are billed by the metered or flat rate method.

RESPONSE:

There are 2 customers, both metered, that use snow making machines:

- Summit Ski Area
- Mt Hood Ski Bowl

Please advise what actions or steps the Company has taken and plans the Company has made to ensure that water pressure does not fall below accepted standards due to snow making activities or other customer uses.

RESPONSE:

The Company established new requirements for snow making customers after the incident of December 2016 (see DR 55). These requirements are:

- Total snow making activities are limited to no more than 350 GPM.
- Ski Bowl is required to provide phone or text notification to the Company prior to beginning daily snow making activities.
- The Company may, if necessary, suspend snow making during high domestic consumption periods.
- During snow making activities, the Company monitors water system pressure hourly to ensure no reduction in pressure occurs.

During the Pre-Hearing Conference held for UW 174 on February 20, 2018, an attendee expressed concerns relating to a proposed 480-unit condominium development in Government Camp. Please describe the proposed development and include in your response the status of the development project, the proposed completion date, and an explanation of whether Government Camp Water Company Inc. (Company) plans to provide water service to the development. Please provide all documents memorializing any negotiations or agreements by the Company to serve the proposed condominiums in this development.

RESPONSE:

The development described during the Pre-Hearing Conference relates to a proposed federal land exchange between the United States Department of Agriculture and Mt. Hood Meadows. Conditional authority to enter the transaction was provided by Congress in 2009 (PUBLIC LAW 111–11, Sec. 1206—MAR. 30, 2009; 123 STAT. 991). The land exchange has not been finalized and remains inchoate.

The Company is not a party to the land exchange or potential project development plans should the exchange be finalized. The Company has not entered into any negotiations or agreements to serve a 480-unit condominium or residential development. The proposed acquisition land is within the Company's exclusive service area.

The Company has not and will not enter into any agreement to provide service that is contrary to OAR 860-036-1270 Refusal of Water Utility Service, which states:

- (1) A water utility must refuse to provide service if:
- (b) The water utility does not have adequate facilities, resources, or capacity to provide the requested service without impairing service to other customers.

In Government Camp's Application filing for UW 145, in answer to Question 5 on page 8, the utility listed an outstanding loan balance of \$212,010 for a loan on the (glass fused steel 250 gallon) water tank to Maryanne Hill. Please provide the following loan information; 1) interest rate, 2) term of the loan & 3) loan amount.

RESPONSE:

- Interest rate = 7.5%
- Term of the loan = 30 years
- Loan amount = \$225,000

In Government Camp's Application filing for UW 145, in answer to Question 5 on page 8, the utility listed an outstanding loan balance to Maryanne Hill in the amount of \$69,656, as a "Demand" loan at 6% interest. Please advise whether Government Camp still has this loan. If it does not explain why.

RESPONSE:

No, Government Camp Water no longer has the loan referenced above. The loan was repaid and no longer exists.

In the utility's Application filed for UW 174, page 7, the outstanding balance of the water tank loan from Charlomont Hill, LLC is listed at \$204,020. The water tank loan is listed as the single outstanding loan in the utility's Application for UW 174. Please confirm whether Charlomont Hill, LLC is the creditor or debtor on this loan. Please also explain whether this is the same loan referenced in UW 145 and that is the subject of DR 45, above. In the response, please also provide: 1) the date and terms of this loan, 2) interest rate, and 3) the loan amount.

RESPONSE:

Charlomont Hill, LLC is the creditor. It is the same loan referenced in UW 145 and is the subject of DR 45.

- 1) Date = September 2004, Loan term = 30 years
- 2) Interest rate = 7.5%
- 3) Loan amount = \$225,000

Please explain whether the water tank loan referred to on page 7 of the Application filed in UW 174, and referred to in DR 45 and 47, above, was restructured in any way following the conclusion of UW 145. If it was, please explain why the company did not seek approval from the OPUC for that restructuring. Please include in the response an explanation of the roles of Maryanne Hill and Charlomont Hill, LLC in that loan.

RESPONSE:

No, the water tank loan has not been restructured in any way since the conclusion of UW 145. The loan has never been restructured in any way.

Ms. Hill owns Charlomont Hill, LLC. When the loan was taken out for the new water tank, she also owned the Company. Charlomont Hill, LLC loaned money to the Company for the water tank.

Please provide a copy all terms and agreements of the loan(s) referred to in DR45 through 48, above, including a copy of the loan agreement with Charlomont Hill, LLC for the water tank.

RESPONSE:

There is no written loan document.

The terms are:

- 1) Date = September 2004
- 2) Loan term = 30 years
- 3) Interest rate = 7.5%
- 4) Loan amount = \$225,000

Please explain all terms and conditions that govern the loan from Charlomont Hill LLC for the water tank, including all terms and conditions regarding its repayment.

RESPONSE:

The terms and conditions of the loan from Charlomont Hill LLC to the Company were provided in responses to DR 45 and DR 47.

RESPONSE to DR 45:

- Interest rate = 7.5%
- Term of the loan = 30 years
- Loan amount = \$225,000

RESPONSE TO DR 47:

Charlomont Hill, LLC is the creditor. It is the same loan referenced in UW 145 and is the subject of DR 45.

- 1) Date = September 2004, Loan term = 30 years
- 2) Interest rate = 7.5%
- 3) Loan amount = \$225,000

The Company pays Charlomont Hill LLC \$1,440.70 per month in repayment of the loan.

DR 62

Please provide a balance sheet that includes all monthly payments, interest billed, and the monthly loan balance for the \$225,000 loan from Charlomont Hill LLC for the water tank from its inception in 2004 through the 2016 test year.

RESPONSE:

See the Loan Schedule below.

BEGINNING	BALA	NCE						\$ 225,000.00
			AYMENT	II	NTEREST	PR	RINCIPAL	
ОСТ	2004	\$	1,602.25	\$	1,406.25	\$	196.00	\$ 224,804.00
NOV		\$	1,602.25	\$	1,405.03	\$	197.23	\$ 224,606.78
DEC		\$	1,602.25	\$	1,403.79	\$	198.46	\$ 224,408.32
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			\$ 224,408.32
JAN	2005	\$	1,602.25	\$	1,402.55	\$	199.70	\$ 224,208.62
FEB		\$	1,602.25	\$	1,401.30	\$	200.95	\$ 224,007.67
MAR		\$	1,602.25	\$	1,400.05	\$	202.20	\$ 223,805.47
APRIL		\$	1,602.25	\$	1,398.78	\$	203.47	\$ 223,602.03
MAY		\$	1,602.25	\$	1,397.51	\$	204.74	\$ 223,397.27
JUNE		\$	1,602.25	\$	1,396.23	\$	206.02	\$ 223,191.25
JULY		\$	1,602.25	\$	1,394.95	\$	207.30	\$ 222,983.95
AUG		\$	1,602.25	\$	1,393.65	\$	208.60	\$ 222,775.35
SEPT		\$	1,602.25	\$	1,392.35	\$	209.90	\$ 222,565.44
ОСТ		\$	1,602.25	\$	1,391.03	\$	211.22	\$ 222,354.23
NOV		\$	1,602.25	\$	1,389.71	\$	212.54	\$ 222,141.69
DEC		\$	1,602.25	\$	1,388.39	\$	213.86	\$ 221,927.83
					11-11			\$ 221,927.83
JAN	2006	\$	1,602.25	\$	1,387.05	\$	215.20	\$ 221,712.62
FEB		\$	1,602.25	\$	1,385.70	\$	216.55	\$ 221,496.08
MAR		\$	1,602.25	\$	1,384.35	\$	217.90	\$ 221,278.18
APRIL		\$	1,602.25	\$	1,382.99	\$	219.26	\$ 221,058.9
MAY		\$	1,602.25	\$	1,381.62	\$	220.63	\$ 220,838.29
JUNE		\$	1,602.25	\$	1,380.24	\$	222.01	\$ 220,616.2
JULY		\$	1,602.25	\$	1,378.85	\$	223.40	\$ 220,392.8
AUG		\$	1,602.25	\$	1,377.46	\$	224.79	\$ 220,168.0
SEPT		\$	1,602.25	\$	1,376.05	\$	226.20	\$ 219,941.8
OCT		\$	1,602.25	\$	1,374.64	\$	227.61	\$ 219,714.2
NOV		\$	1,602.25	\$	1,373.21	\$	229.04	\$ 219,485.2
DEC		\$	1,602.25	\$	1,371.78	\$	230.47	\$ 219,254.7

BEGINNI	NG BALA	NCE						\$	225,000.00
		P	AYMENT	11	NTEREST	PR	INCIPAL		
								\$	219,254.77
JAN	2007	\$	1,602.25	\$	1,370.34	\$	231.91	\$	219,022.86
FEB		\$	1,602.25	\$	1,368.89	\$	233.36	\$	218,789.50
MAR		\$	1,602.25	\$	1,367.43	\$	234.82	\$	218,554.69
APRIL		\$	1,602.25	\$	1,365.97	\$	236.28	\$	218,318.40
MAY		\$	1,602.25	\$	1,364.49	\$	237.76	\$	218,080.64
JUNE		\$	1,602.25	\$	1,363.00	\$	239.25	\$	217,841.40
JULY		\$	1,602.25	\$	1,361.51	\$	240.74	\$	217,600.66
AUG		\$	1,602.25	\$	1,360.00	\$	242.25	\$	217,358.41
SEPT		\$	1,602.25	\$	1,358.49	\$	243.76	\$	217,114.65
ОСТ		\$	1,602.25	\$	1,356.97	\$	245.28	\$	216,869.37
NOV		\$	1,602.25	\$	1,355.43	\$	246.82	\$	216,622.55
DEC		\$	1,602.25	\$	1,353.89	\$	248.36	\$	216,374.19
			•					\$	216,374.19
JAN	2008	\$	1,602.25	\$	1,352.34	\$	249.91	\$	216,124.28
FEB		\$	1,602.25	\$	1,350.78	\$	251.47	\$	215,872.81
MAR		\$	1,602.25	\$	1,349.21	\$	253.04	\$	215,619.76
APRIL		\$	1,440.70	\$	1,347.62	\$	93.08	\$	215,526.68
MAY		\$	1,440.70	\$	1,347.04	\$	93.66	\$	215,433.03
JUNE		\$	1,440.70	\$	1,346.46	\$	94.24	\$	215,338.78
JULY		\$	1,440.70	\$	1,345.87	\$	94.83	\$	215,243.95
AUG		\$	1,440.70	\$	1,345.27	\$	95.43	\$	215,148.52
SEPT		\$	1,440.70	\$	1,344.68	\$	96.02	\$	215,052.50
OCT		\$	1,440.70	\$	1,344.08	\$	96.62	\$	214,955.88
NOV		\$	1,440.70	\$	1,343.47	\$	97.23	\$	214,858.66
DEC		\$	1,440.70	\$	1,342.87	\$	97.83	\$	214,760.82
		Ť			500 \$1000 BB5000 B50000	14		Ş	214,760.82
JAN	2009	\$	1,440.70	\$	1,342.26	\$	98.44	Ş	214,662.38
FEB		\$	1,440.70	\$	1,341.64	\$	99.06		214,563.32
MAR		\$	1,440.70	\$	1,341.02	\$	99.68	_	214,463.64
APRIL		\$	1,440.70	\$	1,340.40	\$	100.30	Ş	214,363.34
MAY		\$	1,440.70	\$	1,339.77	\$	100.93	3	214,262.43
JUNE		\$	1,440.70	\$	1,339.14	\$	101.56		214,160.8
JULY		\$	1,440.70	\$	1,338.51	\$	102.19		214,058.6
AUG		\$	1,440.70	\$	1,337.87	\$	102.83		213,955.8
SEPT		\$	1,440.70	\$	1,337.22	\$	103.48		213,852.3
OCT	-	\$	1,440.70	\$	1,336.58	\$	104.12	-	213,748.2
NOV		\$	1,440.70	\$	1,335.93	\$	104.77		213,643.4
DEC		\$	1,440.70	\$	1,335.27	\$	105.43	-	213,538.0
DLC		٠,	±j-1-10.70	7	1,000.27	T	2557.10	-	213,538.0

INTEREST A								\$ 225	,000.00
DEGINANING	DALA		AYMENT	 11	NTEREST	 I	PRINCIPAL	Y	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			AIMEN		*,L11201			\$ 213	3,538.02
JAN	2010	\$	1,440.70	\$	1,334.61	\$	106.09	e ferida i i e e e e	3,431.93
FEB	2010		1,440.70	\$	1,333.95	\$	106.75		3,325.18
MAR		\$	1,440.70	\$	1,333.28	\$	107.42		3,217.76
APRIL			1,440.70	\$	1,332.61	\$	108.09		3,109.67
MAY		\$ \$	1,440.70	\$	1,331.94	\$	108.76	:	3,000.91
JUNE		\$	1,440.70	\$	1,331.26	\$	109.44		2,891.46
JULY		\$	1,440.70	\$	1,331.20	\$	110.13		2,781.34
AUG			1,440.70	\$	1,329.88	\$	110.82	Acres was	2,670.52
SEPT		\$ \$.,++0.70	\$	1,329.19	\$	(1,329.19)	April and	3,999.71
OCT		\$		\$	1,337.50	\$	(1,337.50)		5,337.21
		ې \$	1,148.38	\$	1,345.86	\$	(197.48)		5,534.68
NOV		\$	1,148.38	۶ \$	1,347.09	\$	(198.71)		5,733.40
DEC			1,140.30	Ą	1,347.05	٧	(130.71)	7 4-4	,,,,,,,,,
LANI	2011	\$	1,462.37	\$	1,348.33	\$	114.04	\$ 21	5,619.36
JAN	ZOTT		848.38	ب \$	1,347.62	\$	(499.24)		5,118.60
FEB MAR		\$	1,148.38	۶ \$	1,350.74	\$	(202.36)		5,320.96
		\$ \$	1,148.38	۶ \$	1,352.01	\$	(203.63)		6,524.59
APRIL				۶ \$	1,353.28	\$	(204.90)		6,729.49
MAY		\$	1,148.38	1		۰ \$	(206.18)		6,935.67
JUNE		\$	1,148.38	\$	1,354.56	۶ \$	(200.18)	a farana and save	7,143.13
JULY		\$	1,148.38	\$	1,355.85	۶ \$	(1,357.14)		8,500.28
AUG		\$ \$	7245 20	\$	1,357.14	3		er barrer - energen	2,620.61
SEPT		<u>></u>	7,245.30	\$	1,365.63	\$	5,879.67 111.82		2,508.78
OCT		\$	1,440.70	\$	1,328.88	\$		erije ni seremen	
NOV		\$ \$	1,440.70	\$	1,328.18	\$	112.52	:	2,396.26 2,283.04
DEC			1,440.70	\$	1,327.48	\$	113.22	Ş <u>21</u>	2,203.04
2011 Total:		\$	19,620.05	\$	16,169.69	\$	3,450.36		
JAN	2012	\$	1,440.70	\$	1,326.77	\$	113.93		2,169.11
FEB	.,		1,440.70	\$	1,326.06	\$	114.64		2,054.47
MAR		\$	1,440.70	\$	1,325.34	\$	115.36		1,939.11
APRIL		\$	1,440.70	\$	1,324.62	\$	116.08	\$ 21	1,823.03
MAY		\$	1,440.70	\$	1,323.89	\$	116.81	\$ 21	1,706.22
JUNE		\$	1,440.70	\$	1,323.16	\$	117.54	\$ 21	1,588.68
JULY		\$ \$ \$ \$ \$	1,440.70	\$	1,322.43	\$	118.27	\$ 21	1,470.41
AUG		\$	1,440.70	\$	1,321.69	\$	119.01		1,351.40
SEPT		\$	1,440.70	\$	1,320.95	\$	119.75	\$ 21	1,231.65
OCT		\$	1,440.70	\$	1,320.20	\$	120.50	\$ 21	1,111.15
NOV		\$	1,440.70	\$	1,319.44	\$	121.26	\$ 21	0,989.89
DEC		\$	1,440.70	\$	1,318.69	\$	122.01	\$ 21	0,867.88
2012 Total		\$	17,288.40	-1	15,873.24	\$	1,415.16		

INTEREST / BEGINNING								\$ 225	,000.00
			AYMENT	II	NTEREST	Р	RINCIPAL		
							400 70	ć 240	745 10
JAN	2013	\$	1,440.70	\$	1,317.92	\$	122.78	2 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	,745.10
FEB		\$	1,440.70	\$	1,317.16	\$	123.54		,621.56
MAR		\$	1,440.70	\$	1,316.38	\$	124.32		,497.25
APRIL		\$	1,440.70	\$	1,315.61	\$	125.09	:	,372.15
MAY		\$	1,440.70	\$	1,314.83	\$	125.87	familia em como	,246.28
JUNE		\$	1,440.70	\$	1,314.04	\$	126.66		,119.62
JULY		\$	1,440.70	\$	1,313.25	\$	127.45	e al abandana	,992.17
AUG		\$	1,440.70	\$	1,312.45	\$	128.25		,863.92
SEPT			1,440.70	\$	1,311.65	\$	129.05	\$ 209	,734.87
OCT		\$ \$	1,440.70	\$	1,310.84	\$	129.86	\$ 209	,605.01
NOV		\$	1,440.70	\$	1,310.03	\$	130.67	\$ 209	,474.34
DEC		\$	1,440.70	\$	1,309.21	\$	131.49	\$ 209	,342.86
2013 Total	:	\$	17,288.40	\$	15,763.38	\$	1,525.02		
JAN	2014	\$	1,440.70	\$	1,308.39	\$	132.31	\$ 209	,210.5
FEB		\$	1,440.70	\$	1,307.57	\$	133.13	\$ 209	,077.4
MAR		\$	1,440.70	\$	1,306.73	\$	133.97		3,943.4
APRIL		\$	1,440.70	\$	1,305.90	\$	134.80		3,808.64
MAY		\$	1,440.70	\$	1,305.05	\$	135.65		3,673.00
JUNE			1,440.70	\$	1,304.21	\$	136.49		3,536.5
JULY		\$ \$	1,440.70	\$	1,303.35	\$	137.35		3,399.1
AUG	,		1,440.70	\$	1,302.49	\$	138.21		3,260.9
SEPT		\$ \$	1,440.70	\$	1,301.63	\$	139.07		3,121.8
OCT		\$	1,440.70	\$	1,300.76		139.94		, 981.9
NOV		\$	1,440.70	\$	1,299.89	\$	140.81		7,841.1
DEC		\$	1,440.70	\$	1,299.01	\$	141.69		7,699.4
	2015	٠.	1 440 70	۲.	1,298.12	\$	142.58	\$ 20	7,556.8
JAN	2015			1.11			143.47		7,413.3
FEB		Ş	1,440.70	\$	1,297.23	\$	144.37		7,269.0
MAR		\$ \$ \$	1,440.70	\$	1,296.33	\$			7,123.7
APRIL			1,440.70	\$	1,295.43	\$	145.27		
MAY		\$	1,440.70	\$	1,294.52	\$	146.18	[6,977.5 s 920 4
JUNE		\$	1,440.70	\$	1,293.61	\$	147.09		5,830.4 5,692.4
JULY	ļ	\$	1,440.70	\$	1,292.69	\$	148.01		5,682.4
AUG	ļ	\$	1,440.70	\$	1,291.77	\$	148.93		5,533.5
SEPT		\$	1,440.70	\$	1,290.83	\$	149.87		6,383.6
OCT	ļ	\$	1,440.70	\$	1,289.90	\$	150.80		6,232.8
NOV		\$	1,440.70	\$	1,288.96	\$	151.74		6,081.1
DEC		\$	1,440.70	\$	1,288.01	\$	152.69	\$ 20	5,928.4

INTERES	T AT 7.5%	6						
BEGINNING BALANCE								\$ 225,000.00
		PAYMENT		INTEREST		PRINCIPAL		
NAL	2016	\$	1,440.70	\$	1,287.05	\$	153.65	\$ 205,774.79
FEB		\$	1,440.70	\$	1,286.09	\$	154.61	\$ 205,620.19
MAR		\$	1,440.70	\$	1,285.13	\$	155.57	\$ 205,464.61
APRIL		\$	1,440.70	Ş	1,284.15	\$	156.55	\$ 205,308.07
MAY		\$	1,440.70	\$	1,283.18	\$	157.52	\$ 205,150.54
JUNE		\$	1,440.70	\$	1,282.19	\$	158.51	\$ 204,992.03
JULY		\$	1,440.70	\$	1,281.20	\$	159.50	\$ 204,832.53
AUG		\$	1,440.70	\$	1,280.20	\$	160.50	\$ 204,672.04
SEPT		\$	1,440.70	\$	1,279.20	\$	161.50	\$ 204,510.54
ост		\$	1,440.70	\$	1,278.19	\$	162.51	\$ 204,348.03
NOV		\$	1,440.70	\$	1,277.18	\$	163.52	\$ 204,184.50
DEC		\$	1,440.70	\$	1,276.15	\$	164.55	\$ 204,019.96

Please provide a comparison of the current market rate and the 7.5 percent loan for \$204,020 currently owed to Charlomont Hill LLC.

RESPONSE:

Objection. Data Requests are written interrogatories or requests for production of documents. OAR 860-001-0540. The submission of data requests upon a party is subject to the discovery rules in the Oregon Rules of Civil Procedure. OAR 860-001-0540(1). In addition, Data Requests must be commensurate with the needs of the case, the resources available to the parties, and the importance of the issues to which the discovery relates. OAR 860-001-0500(1). Discovery that is unreasonably cumulative, duplicative, burdensome, or overly broad is not allowed. OAR 860-001-0500(2).

DR 63 is neither a request for production nor an interrogatory. Rather it instructs the Company to undertake an independent investigation on the PUC Staff's behalf by conducting a market survey of current rates. This is not a permissible request under either OAR 860-001-0540 or the Oregon Rules of Civil Procedure. Moreover, DR 63 is not reasonably calculated to lead to admissible evidence. The Charlomont Hill LLC loan originated prior to the PUC exercise of regulatory jurisdiction over the Company. The Charlomont Hill LLC loan was also the subject of review in UW 145.

Please explain whether and how the Company sought alternative sources of financing for the water tank loan that the Company obtained from Charlomont Hill LLC, and provide documentation of the Company's inquiries regarding alternative sources of financing for that water tank.

RESPONSE:

Objection. Data Request 64 is irrelevant and not reasonably calculated to lead to admissible evidence. ORCP 36(B)(1). The Company was not a PUC rate-regulated water company at the time the loan originated. As such, there was no requirement to seek alternative sources of financing for the water tank loan. In addition, the loan has been subjected to review in UW 145. UW 145 concluded in a final order that was not appealed.

Please provide a balance sheet that includes all monthly payments, interest billed, and the monthly loan balance for the \$69,656 "Demand" loan from Maryanne Hill from its inception through its payoff date.

RESPONSE:

Objection. Data Requests are written interrogatories or requests for production of documents. OAR 860-001-0540. The submission of data requests upon a party is subject to the discovery rules in the Oregon Rules of Civil Procedure. OAR 860-001-0540(1). In addition, Data Requests must be commensurate with the needs of the case, the resources available to the parties, and the importance of the issues to which the discovery relates. OAR 860-001-0500(1). Discovery that is unreasonably cumulative, duplicative, burdensome, or overly broad is not allowed. OAR 860-001-0500(2).

DR 65 improperly seeks to compel the Company to create documents and work product. Not waiving the objection, the Company responds, the information sought is not readily available in a format conducive to easily creating a balance sheet as requested. The loan was paid off in full with no interest attached.

CASE: UW 174 WITNESS: MATT MULDOON

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 200

Direct Testimony

1	Q.	Please state your name, occupation, and business address.					
2	Α.	My name is Matt Muldoon. I am a Senior Economist for the Public Utility					
3		Commission of Oregon (Commission or OPUC). My business address is:					
4		201 High Street SE, Suite 100, Salem, OR 97301.					
5	Q.	Please describe your educational background and work experience.					
6	Α.	My educational background and work experience are set forth in my Witness					
7		Qualification Statement, which is provided as Exhibit Staff/201.					
8	Q.	What is the purpose of your testimony?					
9	Α.	My testimony is in support of Staff analyst Malia Brock's Staff/100 testimony					
10		Issue 6 regarding: Cost of Common Equity, also known as Return on Equity					
11		(ROE) for Government Camp Water Company, Inc. (GCW or Company).					
12		Ms. Brock applies other considerations to my findings and makes					
13		summary recommendations to the Commission in Exhibit No. Staff/100.					
14	Q.	What are your findings?					
15	A.	I recommend a point ROE of 9.25 percent within a range of reasonable ROEs					
16		of 8.41 to 9.25 percent.					
17	Q.	Did you prepare a table showing the overall Cost of Capital (CoC)					
18		resulting from your analysis?					
19	Α.	No. My ROE is an input into the calculations for CoC and overall Rate of					
20		Return (ROR) provided in Ms. Brock's Staff/100 testimony.					
21	Q.	How is your testimony organized?					
22	Α.	My testimony is organized as follows:					
23 24		Sub-Issue 1 – Return on Equity (ROE)					

1 Sub-Issue 3 – Simple Single Stage (Gordon Growth) DCF Modeling 11 2 3 Q. Did you prepare exhibits in support of your opening testimony? 4 A. Yes. I prepared the following exhibits: 5 Staff/201 Witness Qualification Statement Staff/202 Staff Three-Stage Discounted Cash Flow (DCF) ROE Modeling 6 7 Staff/203 Treasury Inflation Protected Securities (TIPS) Analysis Staff/204. GDP Analysis with U.S. Bureau of Economic Analysis (BEA) Data 8 9 Staff/205 Simple DCF Check on ROE Modeling 10 Staff/207 Merger News with Bearing on Water Utilities 11 12 <u>ISSUE 1 – COST OF COMMON EQUITY (ROE)</u> 13 Does your recommended ROE meet appropriate standards? 14 Yes. The 9.25 percent ROE I recommend meets the Hope and Bluefield 15 standards, as well as the requirements of Oregon Revised Statute (ORS) 756.040. My recommendations are consistent with establishing "fair 16 17 and reasonable rates" that are both "commensurate with the return on 18 investments in other enterprises having corresponding risks" and "sufficient to 19 ensure confidence in the financial integrity of the utility, allowing the utility to 20 establish and maintain credit ratings and attract capital."1

Q. Describe the analysis underlying Staff's ROE recommendation.

21

¹ See ORS 756.040(1) (a) and (b).

A. I rely on two different Three-Stage "Discounted Cash Flow" (DCF) models,² applied using a cohort group of peer utilities, to estimate the expected return on common equity required by investors.

As a check or directional vector aid that helps select a point estimate point in my Three-Stage DCF modeling generated range or reasonable ROEs, I use a Simple Gordon Growth DCF model. This Simple DCF model points to the upper end of my range of reasonable ROEs, while supporting my recommendation of a 9.25 percent point ROE.

ISSUE 2 - THREE-STAGE DCF MODELING

Q. Describe the two DCF models that you used.

A. My first model is a conventional Three-Stage Discounted Dividend Model, which Staff denotes as a "30-year Three-stage Discounted Dividend Model with Terminal Valuation based on Growing Perpetuity" (referred to as "Model X").

My second model is the "30-year Three-stage Discounted Dividend Model with Terminal Valuation Based on P/E Ratio" (referred to as "Model Y").

The three stages of the models are: 1) where I use near-term, next-fiveyear Value Line's (VL) forecasts of dividends per share for each company; 2) then five years where the rate of dividend growth converges from first

² See also the Commission's discussion of multistage versus single-stage DCF models in Order No. 01-777 at page 27.

period to the growth rate in the third stage from years 10 to 30 in the future.

This is the third "long-term" stage, for which growth rates are discussed.

Model X includes a terminal value calculation, in which I assume dividends per share grow indefinitely at the rate of growth in Stage 3 ("growing perpetuity"). This represents stock held indefinitely as an excellent alternative to investing in US Treasuries or other fixed income alternatives.

In contrast, Model Y terminates in a sale of stock where the price is determined by my escalated price/earnings (P/E) ratio. This represents stock held and receiving dividends toward a goal, and the sale of the stock once the goal is reached. For example, one saving toward retirement would sell the stock as needed in retirement.

Q. How do you address dividend timing?

A. Each model uses two sets of calculations that differ in the assumed timing of dividend receipt. One set of calculations is based on the standard assumption that the investor receives dividends at the end of each period.

The second set of calculations assumes the investor receives dividends at the beginning of each period. Each model averages the unadjusted ROE values to generate an Internal Rate of Return (IRR) produced with each set of calculations for each peer utility. This approach accounts for the time value of money, closely replicating actual quarterly receipt of dividends by investors.

Q. How do you account for differences in peer utility capital structures?

A. Each model employs the Hamada equation³ to calculate an adjustment for differences in capital structure between each peer utility and my notional
 50 percent common equity capital structure.

Q. What price do you use for each peer utility's stock?

A. I use the average of closing prices for each utility from the first trading day in January, February, and March 2018 to represent a reasonable snapshot of 2018, Q1.

Q. How do Staff's two DCF models differ?

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

A. Model X uses the calculation of a growing perpetuity as part of the terminal valuation in 2046.

Model Y uses the current price-earnings (P/E) ratio multiplied by the estimated "earnings per share" (EPS) in 2047, which establishes the stock's "selling price" in 2046 for terminal valuation. I estimate the 2047 EPS analogously with methods used to estimate the 2046 dividend in both models; i.e., based on VL estimates to which multiple growth rates are sequentially applied.

PEER SCREEN

- Q. How did you select comparable companies (peers) to estimate ROE?
- A. I used companies that met the following criteria as peer utilities:
 - 1. Covered by VL as an U.S. Water Utility;
 - 2. Forecasted by VL to have Positive Dividend Growth;

³ Dr. Robert Hamada's Equation as used in Staff/202, Muldoon/4 separates the financial risk of a levered firm, represented by its mix of common stock, preferred stock, and debt, from its fundamental business risk. Staff corrects its ROE modeling for divergent amounts of debt, also referred to as leverage, between the Company and its peers.

another sensitivity. The gap between results for these categories of peers is

also used to adjust modeling results upward to reflect the very small

How does Staff apply informed judgment to its modeling?

1 3. No Decline in Annual Dividend in Last Five Years per SNL and VL; 2 and 3 4. Primarily Domestic US Water Utility Sourced Cash Flows. What cohort of companies resulted from your screens? 4 5 A. Please see Exhibit Staff/202, Muldoon/2 for detailed Staff screens. 6 Q. What is of most interest regarding your findings while screening 7 publicly traded water utilities? 8 American Water Works Company seeks to acquire Connecticut Water Α. 9 Services, Inc. Staff does not include these companies in its modeling, 10 because of the uncertainties inherent in extrapolating current trends through 11 substantial reorganization. 12 13 SENSITIVITY ANALYSIS 14 Did Staff also do sensitivity analysis to quantify the impact 15 capitalization size has on required ROE? 16 A. Yes. Staff's modeling utilized: A) water utilities that passed Staff's Screen, 17 B) the earlier group restricted to Small- and Mid-Cap companies as a 18 sensitivity, and C) the first group restricted to Small-Cap companies as

19

20

21

22

capitalization of GCW.

A. Staff examined its full range of ROE results including sensitivities. Within that range, Staff determined that 8.41 percent to 9.25 percent is a reasonable narrowing of focus on Staff's peer companies, reflective of utility size.

GROWTH RATES

- Q. What long-term growth rates did you use in the two DCF models?⁴
- A. I used three different long-term growth rates, with different methods employed in developing each.

The first method uses the Congressional Budget Office's (CBO) growth rate. CBO is a non-partisan conservative source which has a long track record of reliable projections.

My second method uses a 50 percent weight applied to the average annual growth rate resulting from estimates of long-term GDP by the Energy Information Administration (EIA), PricewaterhouseCooper (PwC), the Social Security Administration (SSA), and the CBO, with each receiving one-quarter of the 50 percent weight. The remaining 50 percent is the average annual historical real U.S. Gross Domestic Product (GDP) growth rate, established using regression analysis, for the period 1980 through 2017,⁵ to which I apply the Treasury Inflation-Protected Securities (TIPS) inflation forecast.

⁴ Methods used here related to GDP-based growth rates are similar, if not identical to methods Staff has used in past proceedings. *See*, as an example, Staff's discussion of these methods and, to a limited extent, their conceptual underpinnings in Docket No. UE 233, at Exhibit Staff/800, Storm/46-52.

⁵ Staff discussed this approach in recent Staff cost of equity testimony in several rate case proceedings. *See*, as an example, in Docket No. UE 233 Exhibit Staff/800, Storm/46, line 15 through Storm/50 line 3.

Last, I employ a nominal historical growth rate. See Table 1 below:

Table 1
Long-Run 20-Year GDP Growth Rates⁶

Stage 3 – Long-	Term Annu	al Dividend ar	d EPS Growth F	Rates	
Component	Real Rate	TIPS Inflation Forecast	20-Yr Nominal Rate	Weight	Weighted Rate
Congressional Budget Office Long-Term 20-Year Budget Outlook			4.00%	100.0%	4.00%
Energy Information Administration	2.00%	1.99%	4.03%	12.50%	0.50%
PricewaterhouseCooper	1.80%	1.99%	3.83%	12.50%	0.48%
Social Security Administration	2.20%	1.99%	4.23%	12.50%	0.53%
Congressional Budget Office			4.00%	12.50%	0.50%
BEA Nominal Historical,1980 Q1 - 2017 Q4	2.76%	1.99%	4.80%	50.0%	2.40%
Composite				100%	4.41%
BEA Nominal Historical,1980 Q1 – 2017 Q4	2.76%	1.99%	4.80%	100.0%	4.80%

Q. Does this approach capture a reasonable set of investor expectations similar to Staff's analysis in other recent general rate cases?

- A. Yes, Staff modeling captures the expectations of investors who think variously that: A) future conditions will mirror the past, B) federal agency expert analysis also informs the historical track record, and C) Relying on the CBO avoids excessive market hype that could overstate likely future earnings.
- Q. Did your analysis include the construction of a synthetic forward curve using U.S. Treasuries (UST) TIPS break even points?
- A. Yes. My forward curve is provided in Exhibit Staff/203, reflecting implied market-based inflationary expectations. Staff's recommendations are consistent with market activity indicating investor expectations of future inflation.

⁶ See Staff/202 for this material in electronic form.

Q. Assume one ignored current downward adjustments by a broad spectrum of federal agencies and instead presumed that future U.S. GDP growth would look like the past 30 years. Would a ROE based on that assumption fall within Staff's recommended range?

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

A. Yes, I extracted and ran regression on data from U.S. Bureau of Economic Analysis (BEA) to generate the annual real historical GDP growth rate. My recommended range of ROEs includes values that presume GDP growth over the next 30 years would look like that of the past 30 years.

HAMADA EQUATION

- Q. Why is your application of the Hamada Equation to un-lever (remove debt from) peers and to re-lever at a 50 percent LT Debt reasonable?
- A. I employ the Hamada Equation as a check on the reasonableness of my modeling results. This eliminates bias based on differences in the amount of LT Debt in peer utilities.

INFORMED STAFF ANALYSIS

- Q. Do you monitor and analyze current and projected market conditions?
- A. Yes. My analysis includes analysis of the current economic climate and its impact on my estimates of long-term growth. I also rely heavily on feeds from SNL Financial LC (SNL), Bloomberg, Moody's, S&P, WSJ and other sources to make sure that my financial understandings are reflective of investor expectations.

The key news continues to be: 1) a frantic state of acquisitions and mergers (M&A); 2) new services and partnerships offered to very small water utilities and institutions able to provide clear financial profiles to larger energy and water utilities as potential business partners; and 3) a somewhat higher expectation of future water company stock price appreciation after the market corrections earlier this year.

Q. What do you mean by "clear financial profile"?

- A. A very small water utility or institutional water provider needs to be able to identify every financial obligation for which water utility assets were pledges as a guarantee, every form of indebtedness and the interest rates and maturities of same; and all other claims against and obligations of the utility.
- Q. Why is this important to managers who oversee both regulated and non-regulated businesses?
- A. Often such managers have limited time to work on divergent problems. At this time, stopping and putting the time into tracking down and organizing pertinent details of a small utilities' finances gives these managers new options in how to manage their utilities. Conversely, not having a clear financial profile can be a barrier to considering new ways to manage small water utility operations that are more cost effective while also consuming less manager attention.
- Q. Focusing back on your work, did you use robust and proven analytical methodologies?
- A. Yes. My methods are robust, and parallel Staff's work over the last decade.

ISSUE 3 – SIMPLE DCF GORDON GROWTH MODEL

Q. The basic interpretation of your Simple DCF model is that one would look to the upper range of the more powerful Three-Stage DCF model range of reasonable ROEs. Did Staff take this approach?

A. Yes, Staff recommends the top of its range of reasonable ROEs,9.25 percent, for a point ROE.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

- Q. What is the range of ROE's generated by the Simple DCF Model?
- A. The Simple DCF model generated a range of 8.79 to 9.41 percent and point estimate of 9.27 percent ROE. This is very supportive of Staff's recommended 9.25 point recommendation in its more robust Three-Stage DCF modeling.
- Q. Is there another way to interpret Staff's Simple DCF results?
- A. Yes, some cost-of-capital practitioners disaggregate results to highlight the highest results for each individual peer company. In Staff's Simple DCF Model this would be a result in an 11.61 percent upper ROE limit.

Staff emphasizes that this is not a best approximation of reasonable ROEs or appropriate point ROE from Staff's perspective. However, the Commission might feel that the very small customer base and lack of clarity around GCW financial obligations and encumbrance of assets merits upward consideration of ROE to reflect increased financial risk.

- Q. Does Staff recommend the Commission adopt such an interpretation?
- A. No. Staff puts greater reliance on its Three Stage DCF modeling results and recommends use of the Simple DCF as just a pointer or vector within the

Three-Stage DCF model results. When so employed, the Simple DCF 9.27 percent point ROE check on Staff's primary larger model work is quite supportive of Staff's recommended 9.25 percent point ROE.

CONCLUSION

Cost of Capital

- Q. Is it practicable for GCW to adhere to best IOU practices?
- A. Yes, but corporate management attention is finite and confronted with many demands and opportunities. Very small water utilities have more options for more efficient management at lower cost than were available just a few years ago. However, to access new management approaches requires managers to assemble clear financial profiles of their small water utilities.
- Q. What is your recommendation regarding ROE?
- A. I recommend that the Commission consider a range of reasonable ROEs from 8.41 percent to 9.25 percent, and a point ROE of 9.25 percent developed using my two robust Three-Stage DCF models. I recommend the upper limit of my reasonable range of ROE's due to the results of my Simple DCF model, which I used as a pointer within the more powerful three-stage modeling results.

My sensitivity analysis examines and corrects for differences in capital structure and capitalization size.

Q. How do your recommendations relate to Staff Witness Brock's recommendations?

A. My recommendations are addressed and put into context by Ms. Brock in Exhibit Staff/100. Ms. Brock overlays other considerations to provide summary ROE, CoC and ROR recommendations to the Commission.

- Q. Does that conclude your testimony?
- A. Yes.

1

2

3

4

5

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 201

Witness Qualifications Statement

WITNESS QUALIFICATION STATEMENT

NAME: Matthew (Matt) J. Muldoon

EMPLOYER: PUBLIC UTILTY COMMISSION OF OREGON

TITLE: Senior Economist

Energy – Rates Finance and Audit Division

ADDRESS: 201 High Street SE, Suite 100

Salem, OR 97301

EDUCATION: In 1981, I received a Bachelor of Arts Degree in Political

Science from the University of Chicago. In 2007, I received a Masters of Business Administration from Portland State

University with a certificate in Finance.

EXPERIENCE: From April of 2008 to the present, I have been employed by

the OPUC. My current responsibilities include financial and rate analysis with an emphasis on Cost of Capital. I have worked on Cost of Capital in the following general rate case dockets: AVA UG 186; UG 201, UG 246, UG 284, UG 288, and UG 325 current; NWN UG 221; PAC UE 246, and UE 263; PGE UE 262, UE 283, and UE 294; and CNG

UG 287 and UG 305...

From 2002 to 2008 I was Executive Director of the Acceleration Transportation Rate Bureau, Inc. where I developed new rate structures for surface transportation and created metrics to insure program success within regulated processes.

I was the Vice President of Operations for Willamette Traffic Bureau, Inc. from 1993 to 2002. There I managed tariff rate compilation and analysis. I also developed new information systems and did sensitivity analysis for rate modeling.

OTHER: I have prepared, and defended formal testimony in contested

hearings before the OPUC, ICC, STB, WUTC and ODOT. I have also prepared OPUC Staff testimony in BPA rate cases.

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 202

3-Stage Discounted Cash Flow (DCF) Primary ROE Modeling

Exhibits in Support of Direct Testimony

= 0 >	/. Cash Flor	WS			Staff		1	Model		Y									-																						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
					Terminal Value as			2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2045	1			
Screen	Abbreviated	UW 174	UW 174		-	NPV@	Recent										200,000		-					85555	3,555	1007888000		202200000	, manufacture 1	33.33		0.000,000	1.000				Terminal	2046	2046		Scree
#	Utility		VL Low-Cap	IRR	NPVDIV	IRR	Price*		Ini	tial Stage				Irai	nsition S	tage			1							3.5	inal Stag	е								1	Value	Div	Sale	2047	#
1	American States	Yes	Mid-Cap	7.4%	55.5%	0.00	(53.80)	0.99	1.07	1.16	1.25	1.35	1.45	1.61	1.74	1.86	1.95	2.05	2.14	2.25	2.35	2.47	2.59	2.71	2.84	2.98	3.12	3.27	3.43	3.59	3.76	3.94	4.13	4.33	4.54		252.43	4.98	247.45		1
	THE PLANTAGE AND ADDRESS OF A		e					1.88	1.85	1.99	2.13	2.29	2.45	2.68	2.90	3.08	3.23	3.39	3.55	3.72	3.90	4.08	4.28	4.49	4.70	4.93	5.16	5.41	5.67	5.94	6.23	6.53	6.84	7.17	7.51	7.87		8.25		8,65	
3	Aqua America	Yes	Large-Cap	8.3%	47.6%	(0.00)	(34.82)	0.79	0.85	0.94	1.03	1.14	1.25	1.39	1.52	1.63	1.71	1.79	1.87	1.96	2.06	2.16	2.26	2.37	2.48	2.60	2.73	2.86	3.00	3.14	3.29	3.45	3.61	3.79	3.97 6.04	4.16 6.33	183.60	4.36	179.24	0.05	3
4	California Water	Yes	Mid-Cap	7.5%	57.9%	0.00	(38.63)	1.35 0.72	0.75	0.81	0.88	0.95	1.95	1 12	1.21	1.28	1.35	1.41	1.48	1.55	1.62	1.70	1.78	1.87	1.96	2.05	2 15	2.25	2.36	2.70	2.59	2.72	2.85	2 98	0.0		197.68	6.63 3.44	194.25	6.95	1
-4	Camornia vvater	163	e e	7.070	07.070	0.00	(00.00)	1.40	1.55	1.63	1.72	1.81	1.90	2.13	2.34	2.51	2.63	2.76	2.89	3.03	3.17	3.32	3.48	3.65	3.83	4.01	4.20	4.40	4.62	4.84	5.07	5.31	5.57	5.84		6.41	101.00	6.72	104.20	7.04	1
5	Connecticut Water	Merger	Merger	7.5%	55.3%	0.00	(55.07)	1.18	1.24	1.31	1.38	1.45	1.52	1.66	1.79	1.90	1.99	2.08	2.18	2.29	2.40	2.51	2.63	2.76	2.89	3.03	3.18	3.33	3.49	3.66	3.83	4.02	4.21	4.41			266.13	5.08	261.05		5
			е		1			2.13	2.30	2.44	2.58	2.74	2.90	3.15	3.39	3.60	3.77	3.95	4.14	4.34	4.55	4.77	5.00	5.24	5.49	5.75	6.03	6.32	6.62	6.94	7.27	7.62	7.99	8.37		9.19		9.63		10.10	
7	Middlesex Water	Yes	Small-Cap	8.1%	54.4%	0.00	(36.60)	0.86	0.91	0.96	1.01	1.06	1.11	1.21	1.30	1.38	1.45	1.52	1.59	1.67	1.75	1.83	1.92	2.01	2.11	2.21	2.31	2.43	2.54	2.66	2.79	2.93	3.07	3.21		3.53 6.91	205.12		201.42		7
-	SJW	Manuel	Merger	7.2%	54.3%	0.00	(55.16)	1.38	1.12	1.07	1.81	1.90	4.45	1.60	1.79	1.01	2.04	2.97	3.12	3.21	3.42	3.59	3.70	2.79	2.01	4.33 2.05	3.20	4.75	4.90	3.22	2.96	4.05	4.24	4.46			239.70	7.25 5.12	234.58	7.59	-
8	2744	Merger	merger	1.2%	54.5%	0.00	(33.16)	2.86	2.85	2 99	3 14	3.30	3.45	3.78	4.08	4.34	4.54	4.76	4 99	5.23	5.48	5.74	6.02	6.31	6.61	6.93	7.26	7.61	7.98	8.36	8.76	9.18	9.62	10.08		11.07	239.70	11.61	234.30	12.16	0
9	York Water	Yes	Small Cap	8.2%	49.3%	0.00	(29.07)	0.65	0.70	0.77	0.84	0.92	1.00	1.11	1.20	1.28	1.34	1.41	1.47	1.54	1.62	1.70	1.78	1.86	1.95	2.05	2.14	2.25	2.36	2.47	2.59	2.71	2.84	2.98	10101		152.87	3.43	149.44	12.10	9
		ALMOST I	e	11 11			A 6	1.05	1.10	1.19	1.29	1.40	1.51	1.66	1.81	1.92	2.02	2.11	2.22	2.32	2.43	2.55	2.67	2.80	2.93	3.08	3.22	3.38	3.54	3.71	3.89	4.07	4.27	4.48	4.69	4.92		5.15		5.40	
	TOTALS	7	6		Mean																																			C. C. C. C.	
			1	7.91%	52.95%	0%		Screen					00044																												
				7.80% 8.14%	54.29% 51.88%	0%		v Cap) H2O II-Cap) H2O		(Low-Ca	p = Small	- & Mid-C	ap)																												

B.O.Y	. Cash Flo	ws			Staff			Model		Υ	EPS G	Frowth											¥0														7				
1	2	3	4	5	6 Terminal	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
					Value as			2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2045	1		_	
Screen	Abbreviated	UW 174	UW 174		% of	NPV@	Recent		In	itial Stage				Tra	nsition S	Stage										F	inal Stag	e									Terminal	2046	2046		
#	Utility	VL Group	VL Low-Cap	IRR	NPVDIV	IRR	Price*	42	33					550		-11.3										8											Value	Div	Sale	2047	#
1	American States	Yes	Mid-Cap	7.5%	53.6%	0.00	(53.80)	1.07	1,16	1.25	1.35	1.45	1.61	1.74	1.86	1.95	2.05	2.14	2.25	2.35	2.47	2.59	2.71	2.84	2.98	3.12	3.27	3.43	3.59	3.76	3.94	4.13	4.33	4.54	4.76	4.98	252.67	5.22	247.45		1
)				1.88	1.85	1.99	2.13	2,29	2.45	2.68	2.90	3.08	3.23	3.39	3.55	3.72	3.90	4.08	4.28	4.49	4.70	4.93	5.16	5.41	5.67	5.94	6.23	6.53	6.84	7.17	7.51	7.87		8.25		8.65	
3	Aqua America	Yes	Large-Cap	8.5%	45.4%	0.00	(34.82)	0.85 1.35	0.94	1.03	1.14	1.25	1.39	1.52	1.63	1.71	1.79 2.60	1.87	1.96 2.85	2.06	2.16	2.26	2.37	2.48	2.60 3.78	2.73 3.96	2.86 4.15	3.00 4.35	3.14 4.56	3.29 4.78	3.45 5.01	3.61 5.25	3.79 5.50	3.97 5.76	4.16 6.04	4.36 6.33	183.81	4.57 6.63	179.24	6.95	3
1	California Water	Yes	Mid-Cap	7.6%	56.1%	0.00	(38.63)	0.75	0.81	0.88	0.95	1.02	1.12	1.10	1.28	1.35	1.41	1 48	1.55	1.62	1.70	1.78	1.87	1.96	2.05	2.15	2.25	2.36	2 47	2.59	2.72	2.85	2.98	3.13	3.28	3 44	197.85	3.60	194.25	0.00	4
370	Camornia vvaici	103	mid-oup	1.070	00.170	0.00	(00.00)	1.40	1.55	1.63	1.72	1.81	1.90	2.13	2.34	2.51	2.63	2.76	2.89	3.03	3.17	3.32	3.48	3.65	3.83	4.01	4.20	4.40	4.62	4.84	5.07	5.31	5.57	5.84	6.12	6.41	101.00	6.72	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7.04	
5	Connecticut Water	Merger	Merger	7.6%	53.7%	0.00	(55.07)	1.24	1.31	1.38	1.45	1.52	1.66	1.79	1.90	1.99	2.08	2.18	2.29	2.40	2.51	2.63	2.76	2.89	3.03	3.18	3.33	3.49	3.66	3.83	4.02	4.21	4.41	4.62	4.85	5.08	266.37	5.32	261.05		5
				2				2.13	2.30	2.44	2.58	2.74	2.90	3.15	3.39	3.60	3.77	3.95	4.14	4.34	4.55	4.77	5.00	5.24	5.49	5.75	6.03	6.32	6.62	6.94	7.27	7.62	7.99	8.37	8.77	9.19		9.63		10.10	
7	Middlesex Water	Yes	Small-Cap	8.2%	52.7%	0.00	(36.60)	0.91	0.96	1.01	1.06	1.11	1.21	1.30	1.38	1.45	1.52	1.59	1.67	1.75	1.83	1.92	2.01	2.11	2.21	2.31	2.43	2.54	2.66	2.79	2.93	3.07	3.21	3.37	3.53	3.70	205.30	3,88	201.42		7
				2			100 40	1.38	1.55	1.67	1.81	1.96	2.10	2.33	2.54	2.71	2.84	2.97	3.12	3.27	3.42	3.59	3.76	3.94	4.13	4.33	4.53	4.75	4.98	5.22	5.47	5.73	6.01	6.30	6.60	6.91		7.25		7.59	
8	SJW	Merger	Merger	7.3%	52.5%	0.00	(55.16)	1.12	1.19	1.27	1.36	1.45	1.62	1.78	1.91	2.00	2.10	2.20	2.31	2.42	2.53	2.65	2.78	2.91	3.05	3.20	3.36	3.52	3.69	3.86	4.05	4.24	4.45	4.66	4.88	5.12	239.95	5.36	234.58	000000000000000000000000000000000000000	8
			•					2.86	2.85	2.99	3.14	3,30	3.45	3.78	4.08	4.34	4.54	4.76	4.99	5.23	5.48	5.74	6.02	6.31	6.61	6.93	7.26	7.61	7.98	8.36	8.76	9.18	9.62	10.08	10.57	11.07		11.61		12.16	
9	York Water	Yes	Small Cap	8.4%	47.3%	0.00	(29.07)	0.70 1.05	0.77	0.84	0.92	1.00	1.11	1.20	1.28	1.34	2.02	1.47	1.54	1.62	1.70	1.78	1.86	1.95	2.05	2.14	2.25	2.36	2.47	2.59	2.71	2.84	2.98	3.12	3.27	3.43	153.04	3.59 5.15	149.44	5.40	9
	TOTALO				Mann			1.05	1.10	1.19	1.29	1.40	1.51	1.00	1.01	1.92	2.02	2.11	2.22	2.32	2.43	2,55	2.07	2.00	2.93	3.00	3.22	3.30	3.34	3./1	3.09	4.07	4.27	4.40	4.09	4.92		0.10		5.40	
	TOTALS	1	Ь	8.05%	Mean 51.03%	0%	VII Und) Screen																																	
				7.93%	52.43%	0%		w Cap) H2O	Caraan	(Low-Car	- Cmall	b Mid C	anl																												
				8.28%	51.21%	0%		all-Cap) H2C		(LOW-Ca)	- oman	- ox Milu-C	apj																												

	Avera	ge B.O.Y. 8	& E.O.Y	′. Cash I	Flows					Model	Υ	EPS Growth	
	1	2	3	4	5	6	7	8	9				
7						Terminal Value as	5-01000000	age 2016 -		<u> </u>	1		
- 1	Screen	Abbreviated	UW 174	UW 174	Average	% of	Divide	end Growth	n Rates	Screen			
	#	Utility	VL Group	VL Low-Cap	IRR	NPVDV	EOY	BOY	Average	#			
1	1	American States	Yes	Mid-Cap	7.4%	54.6%	8.1%	7.9%	8.0%	1	1]	
2	3	Aqua America	Yes	Large-Cap	8.4%	46.5%	9.6%	10.0%	9.8%	3	2	1	
3	4	California Water	Yes	Mid-Cap	7.6%	57.0%	7.2%	8.0%	7.6%	4	3	1	
4	5	Connecticut Water	Merger	Merger	7.5%	54.5%	5.3%	5.3%	5.3%	5	4		
5	7	Middlesex Water	Yes	Small-Cap	8.1%	53.6%	5.4%	5.2%	5.3%	7	5	7	
6	8	SJW	Merger	Merger	7.2%	53.4%	6.9%	6.6%	6.8%	8	6	1	
7	9	York Water	Yes	Small Cap	8.3%	48.3%	9.1%	9.3%	9.2%	9	7	1	
		TOTALS	7	6		Mean						_	
					7.98%	52.55%	7.4%	VL H20	O Screen				
					7.86%	53.56%	7.0%	VL (Lo	w Cap) H2	O Screen	(Low-C	ap ≃ Small- & Mid-Ca	ap)
					8 21%	52 12%	6.6%	VL Sm	all-Cap) H	2O Screen			

Three-Stage DCF Modeling Results Staff/202 Muldoon/1 GCW UW 174 GRC ROE Modeling

UW 174 Staff ROE Summary

Component	Real Rate	TIPS Inflation Forecast	20-Yr Nominal Rate	Weight	Weighted Rate
Congressional Budget Office Long-Term 20-Year Budget Outlook			4.00%	100.0%	4.00%
Energy Information Administration	2.00%	1.99%	4.03%	12.50%	0.50%
PricewaterhouseCooper	1.80%	1.99%	3.83%	12.50%	0.48%
Social Security Administration	2.20%	1.99%	4.23%	12.50%	0.53%
Congressional Budget Office			4.00%	12.50%	0.50%
BEA Nominal Historical,1980 Q1 – 2017 Q4	2.76%	1.99%	4.80%	50.0%	2.40%
Composite				100%	4.41%
BEA Nominal Historical,1980 Q1 – 2017 Q4	2.76%	1.99%	4.80%	100.0%	4.80%

Model X: 3 S	Stage DCF - Divi	dend Growth	with Terminal Value	as Perpetuity		
X	СВО	4.00%	Composite	4.41%	Historical	4.80%
Staff Screen	6.79%		7.15%		7.50%	
Low Cap (Small Cap & Mid Cap) Sensitivity	6.62%	-	6.99%		7.38%	
Small Cap Sensitivity	6.91%		7.27%		7.62%	

	Model Y: 3 Stage DCF - Dividend G	rowth with Term	inal Value as	Sales based upon E	PS Growth and Terr	minal Stock Sale		
	Y	СВО	4.00%	Composite	4.41%	Historical	4.80%	0
1	Staff Screen	7.34%		7.67%		7.98%		Hamada
2	Low Cap (Small Cap & Mid Cap) Sensitivity	7.22%	1	7.55%		7.86%		to Right
3	Small Cap Sensitivity	7.58%	572	7.90%		8.21%		→

*	Hamada Adjustments to Right Fully Account for Differences in the Amount of Debt in Capi	tal Structure	A	bove Right
* (Common Stock Flotation Costs Adjustment Shifts Range of Reasonable ROE's Upward by Sensitivity Study to Account for Difference in Capitalization Size Maximum Upward Shift	<i>i</i> :	12.5 36.0	bps bps
•	Informed Range of Model 8.41%	to	9.25%	ROE
	Point ROE Recommendation		9.25%	ROE

Model X: 3 Stage DCF - Div	idend Growth wit	h Terminal V	alue as Perpetuit	y (Hamada /	Adjusted)	
X	сво	4.00%	Composite	4.41%	Historical	4.80%
Staff Screen	7.22%		7.58%		7.93%	
Low Cap (Small Cap & Mid Cap) Sensitivity	7.16%		7.53%		7.92%	
Small Cap Sensitivity	7.47%		7.83%		8.18%	

Model Y: 3 Stage DCF - Dividen	d & EPS Growth	with Termina	al Value as Stock	Sale (Hama	ida Adjusted)	
Y	сво	4.00%	Composite	4.41%	Historical	4.80%
Staff Screen	7.77%		8.10%		8.41%	17
Low Cap (Small Cap & Mid Cap) Sensitivity	7.76%	1	8.09%		8.40%	
Small Cap Sensitivity	8.14%	1	8.46%		8.77%	

Government Camp Water Peer Screen

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		Screen:	1	Water Utilities Followed by Value Line (VL) Passing	Staff Scre	en	2								
Water l	Jtility		2	" that are Small & Medium Capitalization / VL	See N	lote Below									
Gove	rnment Camp Water		3	" that are Small Capitalization / VL				Yahoo Fin.	VL	Value Line	SNL or VL	VL 2017	VL	VL 2017	VL
	(GCW)	1	2)	NYSE	VL	Yahoo Fin.	4/21/2018	4/21/2018	Water Utility	No Div	LT Debt	2021-2023	Common	Preferred
Screen	Abbreviated	UW 174	UW 174	VL Corporate Name	NSDQ	4/21/2018	4/21/2018	Mkt Cap	Mkt Cap	w VL Beta < 1	Declines	< 56%	LT Debt %	Equity %	Stock
#	Utility	VL Group	VL Low-Cap	Gas Utility	Ticker	Beta	Beta	\$ Billions	\$ Billions	4/21/2018	5 years	of Capital	of Capital	of Capital	of Capital
1	American States	Yes	Yes	American States Water Company	AWR	0.65	-0.20	2.03	1.90	Yes	Pass	37.7%	46.0%	62.3%	0.0%
2	American Water	No	No	American Water Works Company, Inc.	AWK	0.65	0.05	15.09	15.50	Yes	Fail	54.6%	57.5%	45.3%	0.1%
3	Aqua America	Yes	No	Aqua America, Inc.	WTR	0.70	0.24	6.08	6.00	Yes	Pass	50.1%	53.5%	49.4%	0.5%
4	California Water	Yes	Yes	California Water Service Group	CWT	0.75	0.26	1.90	1.80	Yes	Pass	42.7%	42.0%	57.3%	0.0%
5	Connecticut Water	Merger	Merger	Connecticut Water Services, Inc.	CTWS	0.65	-0.42	0.79	0.75	Yes	Pass	46.3%	45.0%	53.7%	0.0%
6	Consolidated Water	No	No	Consolidated Water Co. Ltd.	cwco	0.95	0.43	0.21	0.20	Yes	Pass	0.0%	0.0%	99.0%	1.0%
7	Middlesex Water	Yes	Yes	Middlesex Water Company	MSEX	0.80	0.14	0.66	0.60	Yes	Pass	37.5%	37.0%	61.8%	0.7%
8	SJW	Merger	Merger	SJW Group	SJW	0.70	-0.03	1.16	1.10	Yes	Pass	48.2%	48.0%	51.8%	0.0%
9	York Water	Yes	Yes	The York Water Company	YORW	0.80	0.34	0.42	0.40	Yes	Pass	43.0%	42.5%	57.0%	0.0%
	TOTAL PEERS	7	6	Note: Staff further segregates VL Small-Cap in sens	sitivity mod	eling to tes	the effects o	f Capitalization	on Size on m	nodeling sesults	£:				

Government Camp Water Peer Screen

1	2	3	4	17	18	
		Screen:	. 1			
Water l	Jtility		2			
Gove	rnment Camp Water		3	VL		
	(GCW)	1	2	Div. Growth	Notes	
Screen	Abbreviated	UW 174	UW 174	Rate	Notes	Screen
#	Utility	VL Group	VL Low-Cap	> 0%		#
1	American States	Yes	Yes	Pass	Also has 11 contracts for military installations	1
2	American Water	No	No	Pass	Strategy: Growth through acquisitions and controlling expenses.	2
3	Aqua America	Yes	No	Pass	Key Focus on infrastructure upgrades	3
4	California Water	Yes	Yes	Pass	Substantial run up on Stock Price	4
5	Connecticut Water	Merger	Merger	Pass	Both Eversource Energy and SJW have bid to buy CT Water. CT Water favors SJW Likely M&A	5
6	Consolidated Water	No	No	Fail	Flat Dividend Growth, Higher Risk International Desalination Projects	6
7	Middlesex Water	Yes	Yes	Pass	Also operates water and wastewater services and upgrades under contract with cities and private clients	7
8	SJW	Merger	Merger	Pass	Both Eversource Energy and SJW have bid to buy CT Water. CT Water favors SJW Likely M&A	8
9	York Water	Yes	Yes	Pass	Oldest Water Utility in US - in continuous operation since 1816.	9
	TOTAL PEERS	7	6			

Historical and Near Term VL Dividends, and VL Earnings per Share

	GC	CW Water	Peer I	Dividend	S 5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		=																										Value Lin	e Estimate
s	creen	Abbreviated	UW 174	UW 174		2012	2013	2013	2013	2013	2013	2014	2014	2014	2014	2014	2015	2015	2015	2015	2015	2016	2016	2016	2016	2016	2014-16	2017	2018
	#	Utility	VL Group	VL Low-Cap	Ticker	Yr	Q1	Q2	Q3	Q4	Yr	Q1	Q2	Q3	Q4	Yr	Q1	Q2	Q3	Q4	Yr	Q1	Q2	Q3	Q4	Yr	Average	Yr	Yr
1	1	American States	Yes	Mid-Cap	AWR	0.64	0.1775	0.1775	0.2025	0.2025	0.76	0.2025	0.2025	0.213	0.213	0.83	0.213	0.213	0.224	0.224	0.87	0.224	0.224	0.224	0.242	0.91	0.87	0.99	1.07
2	3	Aqua America	Yes	Large-Cap	WTR	0.54	0.14	0.14	0.152	0.152	0.58	0.152	0.152	0.165	0.165	0.63	0.165	0.165	0.178	0.178	0.69	0.178	0.178	0.1913	0.1913	0.74	0.69	0.79	0.85
3	4	California Water	Yes	Mid-Cap	CWT	0.63	0.16	0.16	0.16	0.16	0.64	0.1625	0.1625	0.1625	0.1625	0.65	0.1675	0.1675	0.1675	0.1675	0.67	0.1725	0.1725	0.1725	0.1725	0.69	0.67	0.72	0.75
4	5	Connecticut Water	Merger	Merger	CTWS	0.96	0.2425	0.2425	0.2475	0.2475	0.98	0.2475	0.2475	0.2575	0.2575	1.01	0.2575	0.2575	0.2675	0.2675	1.05	0.2675	0.2825	0.2825	0.2825	1.12	1.06	1.18	1.24
5	7	Middlesex Water	Yes	Small-Cap	MSEX	0.74	0.19	0.1875	0.1875	0.19	0.75	0.19	0.19	0.19	0.1925	0.76	0.1925	0.1925	0.1925	0.19875	0.78	0.19875	0.19875	0.19875	0.21125	0.81	0.78	0.86	0.91
6	8	SJW	Merger	Merger	SJW	0.71	0.1825	0.1825	0.1825	0.1825	0.73	0.1875	0.1875	0.1875	0.1875	0.75	0.195	0.195	0.195	0.195	0.78	0.2025	0.2025	0.2025	0.2025	0.81	0.78	1.04	1.12
7	9	York Water	Yes	Small Cap	YORW	0.54	0.14	0.138	0.138	0.138	0.55	0.1431	0.1431	0.1431	0.1431	0.57	0.1495	0.1495	0.1495	0.1555	0.60	0.1555	0.1555	0.1555	0.1602	0.63	0.60	0.65	0.70
		TOTAL	. 7	6																									
																													(Low-Cap
															(-														
	GC	CW Water	Peer E	EPS											1														
	1	2 /	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29

1	SCVV vvater	Peer E	:P5 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
			*	26.5	~~		K	550	11555	Value Lin	ne Estimat	ed EPS		1	0.4.54.1		1.0									Value Line		ed Near Fu
Scre	en Abbreviated	UW 174	UW 174		2013	2014	2014	2014	2014	2014	2015	2015	2015	2015	2015	2016	2016	2016	2016	2016	2014-16	2017	2017	2017	2017	2017	2018	2018
#	Utility	VL Group	VL Low-Cap	Ticker	Yr	Q1	Q2	Q3	Q4	Yr	Q1	Q2	Q3	Q4	Yr	Q1	Q2	Q3	Q4	Yr	Average	Q1	Q2	Q3	Q4	Yr	Q1	Q2
1 1	American States	Yes	Mid-Cap	AWR	1.61	0.28	0.39	0.54	0.36	1.57	0.32	0.41	0.56	0.31	1.60	0.28	0.45	0.59	0.30	1.62	1.60	0.34	0.62	0.57	0.35	1.88	0.35	0.50
2 3	Aqua America	Yes	Large-Cap	WTR	1.16	0.24	0.31	0.38	0.27	1.20	0.27	0.32	0.38	0.17	1.14	0.29	0.34	0.41	0.28	1.32	1.22	0.28	0.34	0.43	0.30	1.35	0.30	0.35
3 4	California Water	Yes	Mid-Cap	CWT	1.02	(0.11)	0.36	0.70	0.24	1.19	0.03	0.21	0.52	0.18	0.94	(0.02)	0.24	0.48	0.31	1.01	1.05	0.02	0.39	0.70	0.29	1.40	0.08	0.42
4 5	Connecticut Water	Merger	Merger	CTWS	1.66	0.27	0.67	0.76	0.22	1.92	0.28	0.77	0.79	0.20	2.04	0.28	0.89	0.84	0.07	2.08	2.01	0.36	0.73	0.90	0.14	2.13	0.37	0.77
5 7	Middlesex Water	Yes	Small-Cap	MSEX	1.03	0.20	0.29	0.42	0.22	1.13	0.22	0.31	0.41	0.28	1.22	0.29	0.36	0.54	0.19	1.38	1.24	0.27	0.33	0.46	0.32	1.38	0.29	0.37
6 8	SJW	Merger	Merger	SJW	1.12	0.04	0.34	1.88	0.28	2.54	0.23	0.36	0.46	0.80	1.85	0.16	0.82	0.92	0.67	2.57	2.32	0.18	0.9	0.94	0.84	2.86	0.27	0.90
7 9	York Water	Yes	Small Cap	YORW	0.75	0.16	0.22	0.23	0.28	0.89	0.20	0.22	0.28	0.27	0.97	0.19	0.23	0.27	0.23	0.92	0.93	0.22	0.25	0.30	0.28	1.05	0.23	0.26

	G	CW Water	Peer D)ividends	S											
	1	2	2 3 4 5 30 31 32 33 34 35 Chest Future Dividends in Blue V.L. Avg Div. Growth													
						d Near Fu	ture Dividen	ds in Blue	1	VL Avg	Div. Growth					
	Screen	Abbreviated				2019	2020	TOP WORTH MANY CO.	2022	2020- 22	2020-22 vs.	Screen	==7			
	#	Utility	reviated UW 174 UV 174 VI Group VI Low-Cap Ticker Yr Yr Yr Yr Yr Yr Yr													
1	1	American States	Yes	Mid-Cap	AWR	1.16	1.25	1.35	1.45	1.35	7.5%	1		19-1		
2	3	Aqua America	Yes	Large-Cap	WTR	0.94	1.03	1.14	1.25	1.14	8.8%	3	2]		
3	4	California Water	Yes	Mid-Cap	CWT	0.81	0.88	0.95	LANCH MILLIAN		6.0%		3	12		
4	5	Connecticut Water	Merger	Merger	CTWS	1.31	1.38	1.45	1.52	1.45	5.4%	5	4			
5	7	Middlesex Water	Yes	Small-Cap	MSEX	0.96	1.01	1.06	1.11	1.06	5.2%	7	5	2		
6	8	SJW	Merger		SJW	1.19	1.27	1.36	1.45	1.36	9.7%					
7	9	York Water	Yes	Small Cap	YORW	0.77	0.84	0.92	1.00	0.92	7.4%	9	7]		
		TOTAL	7	6					VI	_ H2O Screen	7.0%	Mean				
						= Small-	& Mid-Cap)	VI	(Low Cap) H2O Screen	6.5%					
			*					VL S	Small-Cap) H2O Screen	6.3%					
	G	CW Water	Peer E	PS												
	1	2	3	4	5	30	31	32	33	34	35	36	A. M. C.		e v	
				84	90	ture Earni	ngs per Sha	re in Blue	-				VL Avg			-
	Screen	Abbreviated	UW 174	UW 174									The second secon			
	#	Utility	VL Group	VL Low-Cap	Ticker	Q3	Q4	Yr	Yr	Yr	Yr	Yr	/Yr	2014-16	#	
1	1	American States	Yes	Mid-Cap	AWR	0.60	0.40	1.85	1.99						1	1
2	3	Aqua America	10.00	Large-Cap	117,121,121,121,131		A SECURITY OF THE PARTY OF THE	FE/05/E/(05)	1000 AV00	(5) 85035002		12/20/20/20				
3	4	California Water	Yes	Mid-Cap	CWT	0.72										
4	5	Connecticut Water	Merger	Merger	CTWS	0.92	0.24	2.30	(2-1)/1/5	(ATTENDED)						
5	7	Middlesex Water	Yes	Small-Cap	MSEX	0.55	0.34	1.55	1.67							
6	8	SJW	Merger	Merger	12 62 62 07 D1 PSD	2000	0.68		0.273.00.00						0 530	
7	9	York Water	Yes	Small Cap	YORW	0.32	0.29	1.10	1.19	1.29	1.40	12.00.00			700	7
17		TOTAL	8	6					(Low-Cap	= Small- & M	id-Cap)				Mean	

	1	2	3	4	5	6	7	8	9	10	11	#	12	13	14	15	16	17	# 18	8	19	-6	
	GCW G	RC				Y	ahoo Finan	ce				Z - 92 -			29					Γ	Hamada	1	
	Staff Ha	amada Adjustmen	its			\$ Sto	ock Closing	Price	3-Day	Div Yield	VL 2017		VL 2017 Ca	p Structure				Relevered		34	Adjustment		
						1st Tr	ading Day of	Month	Avg \$	at	Return on		% Long	%		2018	Hamada	Beta	Equ	iity	Equity		
	Screen	Abbreviated	UW 174	UW 174		Jan.	Feb.	Mar.	Stock	Recent	Common		Term	Common	VL	VL	Unlevered	Equity at	Ris	sk	At	Screen	
	#	Utility	VL Group	VL Low-Cap	Ticker	1/1/2018	2/1/2018	3/1/2018	Price	Price	Equity		Debt	Equity	Beta	Tax Rate	Beta	50.0%	Prem	nium	50.0%	#	
1	1	American States	Yes	Mid-Cap	AWR	55.22	53.12	53.06	53.80	1.7%	13.1%		37.7	62.3	0.75	23.0%	0.51	0.91	4.20	0%	0.65%	1	1
2	3	Aqua America	Yes	Large-Cap	WTR	36.21	34.19	34.06	34.82	2.1%	12.2%		50.6	49.4	0.70	9.0%	0.36	0.69	4.20	0%	-0.03%	3	2
3	4	California Water	Yes	Mid-Cap	CWT	40.70	37.95	37.25	38.63	1.8%	9.7%		42.7	57.3	0.75	21.0%	0.47	0.85	4.20	0%	0.40%	4	3
4	5	Connecticut Water	Merger	Merger	CTWS	53.05	51.63	60.53	55.07	2.0%	8.8%		46.3	53.7	0.65	21.0%	0.39	0.69	4.20	0%	0.18%	5	4
5	7	Middlesex Water	Yes	Small-Cap	MSEX	37.66	35.44	36.70	36.60	2.2%	9.8%		37.5	61.8	0.80	21.0%	0.54	0.97	4.20	0%	0.71%	7	5
6	8	SJW	Merger	Merger	SJW	59.84	52.94	52.71	55.16	1.5%	12.8%		48.2	51.8	0.70	21.0%	0.40	0.72	4.20	0%	0.09%	8	6
7	9	York Water	Yes	Small Cap	YORW	31.65	28.10	27.45	29.07	2.2%	10.9%		43.0	57.0	0.80	21.0%	0.50	0.90	4.20	0%	0.41%	9	7
		TOTAL	7	6							* **				AND TOTAL	1000 1000 P		VL	H2O Sci	reen	0.43%	Mean	100

Dividend Yield = (Annual Dividends per Share) / Price per Share

(Low-Cap = Small- & Mid-Cap) VL (Low Cap) H2O Screen

VL (Low Cap) H2O Screen VL Small-Cap) H2O Screen

0.54% 0.56%

When Value Line (VL) Beta ratio exceeds 99.9 or earnings are negative, VI shows "NMF" for 'no meaningful figure'.

Div

4.98 4.36 3.44 5.08 3.70 5.12 3.43

2046 Div

229.49 151.89 164.07 232.49 154.91 235.41 125.78

Value

Value Div 228.87 5.22 151.16 4.57 163.78 3.60 232.42 5.32 154.85 3.88 234.91 5.36 125.28 3.59

224.50 147.53 160.64 227.41 151.21 230.30 122.35

Perpetuity
223,65
146,59
160,18
227,09
150,97
229,55
121,69

4.80%	Annual Growth	h Rate - S	tage 3		Dividen	d Growl	th with I	ermina	i value a	s reih	etuity																							
E.O.Y	Cash Flow	NS		Staff			IVI	odel	X																									
1	2	3	4	5	6 Terminal	7	8	9	10	11	12	13	14 1	15 1	6 17	18	19	20	21 22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
					Value as			2017	2018	2019	2020	2021	2022 20	023 20	2025	2026	2027	2028 2	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	204
Screen	Abbreviated	UW 174	UW 174	Inn	% of	_	Recent		Initi	al Stage				Transitio	on Stage									F	inal Stage	е								
4	Utility American States	VL Group Yes	VL Low-Cap Mid-Cap	7.1%	NPV _{DIV}	1RR 0.00	Price (53.80)	0.99	1.07	1 16	1.25	1.35	1.45 1.6	61 17	74 1.86	1.95	2,05	2.14 2	25 2.35	2.47	2.59	2.71	2.84	2.98	3.12	3.27	3,43	3.59	3.76	3.94	4.13	4.33	4.54	4.
3	Agua America	Yes	Large-Cap	7.1%	44.6%	0.00	(34.82)	0.79						39 1.5	100	1.71	1.79	1.87	96 2.06	2.16	2.26	2.37	2.48	2.60	2.73	2.86	3.00	3.14	3.29	3.45	3.61	3.79	3.97	4.
4	California Water	Yes	Mid-Cap	7.0%	55.1%	0.00	(38.63)	0.72	0.75			0.95	1.02 1.1			1.35	1.41	1.48 1	55 1.62	1.70	1.78	1.87	1.96	2.05	2.15	2.25	2.36	2.47	2.59	2.72	2.85	2.98	3.13	3.
5	Connecticut Water	Merger	Merger	7.1%	53.3%			1.18					31000000000	66 1.7	1000	1.99	2.08	2.18 2	29 2.40	2.51	2.63	2.76	2.89	3.03	3.18	3.33	3.49	3.66	3.83	4.02	4.21	4.41	4.62	4.
7	Middlesex Water	Yes	Small-Cap	7.4%	50.2%	0.00	(36,60)	0.86					1.11 1.2			1.45	1.52	3.77	67 1.75	1.83	1.92	2.01	2.11	2.21	2.31	2.43	2.54	2.66	2.79	2.93	3.07	3.21	3.37	3.
8	SJW	Merger	Merger	7.1%	54.1%		(55.16)	1.04						62 1.7	78 1.91	2.00	2.10	2.20 2	31 2.42	2.53	2.65	2.78	2.91	3.05	3.20	3.36	3.52	3.69	3.86	4.05	4.24	4.45	4.66	4.
9	York Water TOTALS	Yes 7	Small Cap 4	7.7%	46.3% Mean 50.05%	0.00	(29.07) VL H2O					and the second second	1.00 1.1	11 1,2	20 1.28	1.34	1.41	1.47 1	54 1.62	1.70	1.78	1.86	1.95	2.05	2.14	2.25	2.36	2.47	2.59	2.71	2.84	2.98	3.12	3
9	TOTALS	7	Small Cap 4	7.43% 7.32% 7.55%	Mean		VL H2O VL (Low VL Smal	Screen v Cap) H2C II-Cap) H2C) Screen (L O Screen			and the second second		11 1,2	20 1.28	1.34	1.41	1.47 1	54 1.62	1.70	1.78	1.86	1.95	2.05	2.14	2.25	2.36	2.47	2,59	2.71	2.84	2.98	3.12	3.
3.O.Y		7	Small Cap 4	7.43% 7.32%	Mean 50,05% 51,41%	0% 0%	VL H2O VL (Low VL Smal	Screen (Cap) H2C) Screen (L O Screen			and the second second		11 1.2	20 1.28	1.34	1.41	1.47 1	54 1.62	1.70	1.78	1.86	1.95	2.05	2.14	2.25	2.36	2.47	2.59	2.71	2.84	2.98	3.12	3.2
3.O.Y	TOTALS	7	Small Cap 4	7.43% 7.32% 7.55%	Mean 50,05% 51,41% 48,23%	0% 0%	VL H2O VL (Low VL Smal	Screen v Cap) H2C II-Cap) H2C) Screen (L O Screen			and the second second		11 1.2	6 17	1.34	1.41	20	21 22	1.70	1.78	1.86	26	2.05	2.14	2.25	30	2.47	2.59	33	2.84	2.98	3.12	3.2
9 B.O.Y	TOTALS	7	Small Cap 4	7.43% 7.32% 7.55%	Mean 50.05% 51.41% 48.23% 6	0% 0%	VL H2O VL (Low VL Smal	Screen y Cap) H2C II-Cap) H2C odel	X 10	.ow-Cap =	= Small- 8	& Mid-Car	14 1	5 1	6 17	18	19	20	21 22 23029 2030	23	24	25	26	27	28	29	30 2038	31 2039	32	33	34	35 2043	36	3.2
B.O.Y	TOTALS	7	4 4 UW 174	7.43% 7.32% 7.55%	Mean 50.05% 51.41% 48.23% 6 Terminal Value as	0% 0% 0% 0%	VL H2O VL (Low VL Smal	Screen y Cap) H2C II-Cap) H2C odel	X 10 2018	ow-Cap =	= Small- 8	& Mid-Car	14 1	5 1	6 17 24 2025	18	19	20	21 22	23	24	25	26	27 2035	28	29	30 2038	31	32	33	34	35	36	3
1	TOTALS Cash Flov Abbreviated	7 WS 3	4 4 UW 174	7.43% 7.32% 7.55% Staff 5	Mean 50.05% 51.41% 48.23% 6 Terminal Value as % of	0% 0% 0% 0%	VL H2O VL (Low VL Smal	Screen y Cap) H2C II-Cap) H2C odel	X 10 2018	.ow-Cap =	= Small- 8	& Mid-Car	14 1	5 1	6 17 24 2025	18	19	20	21 22	23	24	25 2033	26	27 2035	28	29	30 2038	31	32	33	34	35	36	
1	TOTALS Cash Flov	7 WS	4	7.43% 7.32% 7.55%	Mean 50.05% 51.41% 48.23% 6 Terminal Value as	0% 0% 0% 0% 7	VL H2O VL (Low VL Small	Screen y Cap) H2C II-Cap) H2C odel	X 10 2018	11 2019 ; al Stage	12 2020	13 2021	14 1	5 1	6 17 24 2025	18	19	20	21 22	23	24 2032 2.71	25 2033	26 2034 2.98	27 2035	28	29	30 2038 3.59	31	32	33	34	35	36 2044	20
1	TOTALS Cash Flow Abbreviated Utility	VS 3	4 UW 174 VL Low-Cap	7.43% 7.32% 7.55% Staff 5	Mean 50.05% 51.41% 48.23% 6 Terminal Value as % of NPV _{DIV} 52.1% 42.3%	0% 0% 0% 7 NPV @ IRR (0.00) 0.00	VL H2O VL (Low VL Small M 8 Recent Price (53.80) (34.82)	Screen (Cap) H2C II-Cap) H2C Odel 9 2017	2018 Initia	11 2019 : al Stage	12 2020	13 2021 1.45 1.25	14 1 2022 20 1.61 1.7 1.39 1.5	5 1: Transitio 74 1.8	6 17 24 2025 on Stage 36 1.95 33 1.71	18 2026 2.05 1.79	19 2027 2.14 1.87	20 2028 2 2,25 2 1,96 2	21 22 29 2030 35 2.47 26 2.16	23	24 2032 2 2.71 2.37	25 2033 2.84 2.48	26 2034 2.98 2.60	27 2035	28	29	30 2038 3.59 3.14	31 2039 3.76 3.29	32	33 2041 4.13 3.61	34	35 2043 4.54 3.97	36 2044 4.76 4.16	2.4.4.4.
1	TOTALS Cash Flov 2 Abbreviated Utility American States Aqua America California Water	VS 3 UW 174 VL Group Yes Yes Yes	4 UW 174 VL Low-Cap Mid-Cap Large-Cap Mid-Cap	7.43% 7.32% 7.55% Staff 5 IRR 7.25% 8.07% 7.16%	6 Terminal Value as % of NPV _{DIV} 52.1% 42.3%	0% 0% 0% 0% 7 NPV @ IRR (0.00) 0.00	VL H2O VL (Low- VL Small 8 Recent Price (53.80) (34.82) (34.82) (38.63)	Screen (Cap) H2C (Cap) H2C (III-Cap) H2C (Cap) H2C	X 10 2018 Initial 1.16 0.94 0.81	111 2019 2 2019 2 1.25 1.03 0.88 (0.88)	12 2020	13 2021 1.45 1.25 1.02	14 1 22022 20 1.61 1.7 1.39 1.5 1.12 1.2	15 1 123 20 Transitio 74 1.8 52 1.6 21 1.2	6 17 24 2025 on Stage 36 1.95 36 1.71 28 1.35	18 2026 2.05 1.79 1.41	19 2027 2.14 1.87 1.48	20 2028 2 2.25 2 1.96 2 1.55 1	21 22 2030 35 2.47 06 2.16 32 1.70	23	24 2032 271 2.37 1.87	25 2033 2 2.84 2.48 1.96	26 2034 2.98 2.60 2.05	27 2035	28 2036 inal Stage 3.27 2.86 2.25	29 2037 9	30 2038 3.59 3.14 2.47	31	32	33	34	35 2043 4.54 3.97 3.13	36 2044 4.76 4.16 3.28	
1	Abbreviated Utility American States Aqua America California Water Connecticut Water	VS 3 UW 174 VL Group Yes Yes Yes Merger	4 UW 174 VL Low-Cap Mid-Cap Large-Cap Mid-Cap Merger	7.43% 7.32% 7.55% Staff 5 IRR 7.25% 8.07% 7.16% 7.26%	Mean 50.05% 51.41% 48.23% 6 Terminal Value as % of NPV _{DIV} 52.1% 42.3% 52.4% 51.6%	0% 0% 0% 0% 7 NPV @ IRR (0.00) 0.00 0.00	VL H2O VL (Low VL Smal M 8 Recent Price (53.80) (34.82) (38.83) (38.83) (55.07)	Screen (Cap) H2C (Ca	X 10 2018 Initial 1.16 0.94 0.81 1.31	11 2019 : al Stage 1.25 .1.03 .0.88 (1.38	12 2020 1.35 1.14 0.95 1.45	13 2021 1.45 1.25 1.02 1.52	14 1 2022 20 1.61 1.7 1.39 1.5 1.12 1.2 1.66 1.7	74 1.8 21 1.2 74 1.8 21 1.2 27 1.2	6 17 24 2025 on Stage 36 1.95 33 1.71 28 1.35 30 1.99	18 2026 2.05 1.79 1.41 2.08	19 2027 2.14 1.87 1.48 2.18	20 2028 2 2 2.25 2 1.96 2 1.55 1 2.29 2	21 22 29 2030 35 2.47 06 2.16 32 1.70 40 2.51	23	24 2032 2.71 2.37 1.87 2.76	25 2033 2.84 2.48 1.96 2.89	26 2034 2.98 2.60 2.05 3.03	27 2035	28 2036 inal Stage 3.27 2.86 2.25 3.33	29 2037 9 3.43 3.00 2.36 3.49	30 2038 3.59 3.14 2.47 3.66	31 2039 3.76 3.29	32	33 2041 4.13 3.61 2.85 4.21	34 2042 4.33 3.79 2.98 4.41	35 2043 4.54 3.97 3.13 4.62	36 2044 4.76 4.16 3.28 4.85	4 4 3 5
1	TOTALS Cash Flov 2 Abbreviated Utility American States Aqua America California Water	VS 3 UW 174 VL Group Yes Yes Yes	4 UW 174 VL Low-Cap Mid-Cap Large-Cap Mid-Cap	7.43% 7.32% 7.55% Staff 5 IRR 7.25% 8.07% 7.16%	6 Terminal Value as % of NPV _{DIV} 52.1% 42.3%	0% 0% 0% 0% 7 IRR (0.00) 0.00 0.00 0.00	VL H2O VL (Low VL Smal M 8 Recent Price (53.80) (34.82) (38.83) (38.83) (55.07)	Screen (Cap) H2C (Cap) H2C (III-Cap) H2C (Cap) H2C	D Screen (LO Screen LO Scr	.ow-Cap = 111	12 2020 1.35 1.14 0.95 1.45	13 2021 1.45 1.25 1.25 1.52	14 1 22022 20 1.61 1.7 1.39 1.5 1.12 1.2	15 1 23 20 Transitio 74 1.8 52 1.6 52 1.2 1 1.2 79 1.8 330 1.3 30 1.3	6 17 24 2025 on Stage 36 1.95 33 1.71 1.88 1.35 90 1.99 38 1.45	18 2026 2.05 1.79 1.41	19 2027 2.14 1.87 1.48	20 2028 2 2028 2 1.96 2 1.55 1 2.29 2 1.67 1	21 22 2030 35 2.47 06 2.16 32 1.70	23	24 2032 2 2.71 2.37 1.87 2.76 2.01 2.79	25 2033 2.84 2.48 1.96 2.89 2.11	26 2034 2.98 2.60 2.05 3.03 2.21	27 2035	28 2036 inal Stage 3.27 2.86 2.25	29 2037 9	30 2038 3.59 3.14 2.47 3.66 2.66 2.66	31 2039 3.76 3.29	32	33 2041 4.13 3.61	34	35 2043 4.54 3.97 3.13	36 2044 4.76 4.16 3.28	20

vera	ge B.O.Y. 8	k E.O.	r. Cash	Flows			IV	lodel		X
1	2	3	4	5	- 6	7	8	9		
					Terminal				r	
					Value as	Aver	age 2017 -	2021		
Screen	Abbreviated	UW 174	UW 174	Average	% of	Divide	end Growtl	n Rates	Screen	
#	Utility	VL Group	VL Low-Cap	IRR	NPVDIV	EOY	BOY	Average	#	
1	American States	Yes	Mid-Cap	7.19%	53.1%	8.1%	7.9%	8.0%	1	1
3	Agua America	Yes	Large-Cap	7.98%	43.5%	9.6%	10.0%	9.8%	3	2
4	California Water	Yes	Mid-Cap	7.10%	53.8%	7.2%	8.0%	7.6%	4	3
5	Connecticut Water	Merger	Merger	7.20%	52.4%	5.3%	5.3%	5.3%	5	4
7	Middlesex Water	Yes	Small-Cap	7.43%	49.3%	5.4%	5.2%	5.3%	7	5
8	SJW	Merger	Merger	7.19%	53.1%	6.9%	6.6%	6.8%	8	6
9	York Water	Yes	Small Cap	7.81%	45.2%	9.1%	9.3%	9.2%	9	7
	TOTALS	7	6		Mean					3.
				7.50%	48.96%	8%	VL H20	Screen		
			i	7.38%	50.34%	7%	VL (Lo	w Cap) H20	Screen	(Low-Cap = Small
			ì	7.62%	47.25%	7%	VL Sm	all-Cap) H2	O Screen	

7.57% | 44.1% | Mean | 7.57% | 47.88% | 7.45% | 48.50% | 7.69% | 46.26%

0% 0% 0%

VL H2O Screen VL (Low Cap) H2O Screen (Low-Cap = Small- & Mid-Cap) VL Small-Cap) H2O Screen

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 203

Staff Synthetic Forward Curve TIPS Analysis Market-Implied Inflation Expectations

Exhibits in Support of Direct Testimony

TIPS Implied Forward Curve

Staff/203 Muldoon/1

2028 through 2047 TIPs-Implied Average Annual Inflation Rate:

1.99%

Yr. End		Ind	ividually	Implied I	Price Lev	rels	lmpli	ied Forw	ard Curv	e/Price L	evel	Implied	
MoYr.	Years	5-Yr	7-Yr	10-Yr	20-Yr	30-Yr	5-Yr	7-Yr	10-Yr	20-Yr	30-Yr	Price Level	Check
Dec-17	0	100.00	100.00	100.00	100.00	100.00	100.00			99 40 75		100.00	IEL S E E E
Dec-18	1	101.75	101.81	101.87	101.89	101.95	101.75					101.75	
Dec-19	2	103.52	103.65	103.77	103.82	103.93	103.52					103.52	
Dec-20	3	105.33	105.52	105.72	105.79	105.95	105.33					105.33	
Dec-21	4	107.17	107.42	107.69	107.79	108.02	107.17					107.17	
Dec-22	5	109.04	109.37	109.71	109.83	110.12	109.04					109.04	
Dec-23	6		111.34	111.76	111.91	112.26		111.18				111.18	
Dec-24	7		113.35	113.85	114.03	114.45		113.35				113.35	
Dec-25	8			115.98	116.19	116.68			115.64		R 9 '5	115.64	
Dec-26	9			118.15	118.39	118.95			117.97			117.97	
Dec-27	10			120.35	120.63	121.26			120.35			120.35	
Dec-28	11				122.91	123.62				122.66	MED.	122.66	122.74
Dec-29	12				125.24	126.03				125.01		125.01	125.18
Dec-30	13				127.61	128.48				127.41		127.41	127.67
Dec-31	14				130.03	130.99				129.85		129.85	130.20
Dec-32	15				132.49	133.54				132.34		132.34	132.78
Dec-33	16				135.00	136.13				134.88		134.88	135.42
Dec-34	17				137.56	138.78	W. A.			137.46		137.46	138.11
Dec-35	18				140.16	141.49				140.10		140.10	140.85
Dec-36	19				142.81	144.24				142.78		142.78	143.65
Dec-37	20				145.52	147.05				145.52		145.52	146.50
Dec-38	21					149.91		77111, 7	100		148.51	148.51	149.40
Dec-39	22					152.83					151.56	151.56	152.37
Dec-40	23					155.80					154.67	154.67	155.39
Dec-41	24					158.84					157.84	157.84	158.48
Dec-42	25					161.93					161.08	161.08	161.63
Dec-43	26					165.08					164.39	164.39	164.83
Dec-44	27					168.30					167.77	167.77	168.11
Dec-45	28					171.57					171.21	171.21	171.44
Dec-46	29					174.91					174.73	174.73	174.85
Dec-47	30					178.32					178.32	178.32	178.32

TIPS Inflation Expections

Page 1 of 1 Pages

Implied Market-based Expectations

Average Quarterly Values for FRB H15 Data

See FRB H.15 Tab for Data Feed Sources.

Staff TIPS Analysis

Quarterly Aggregation

Δ	verage Mon	thly Inflation	Indexed R	ates by Qua	rter		Verage Mc	nthly Nomi	nal UST Rat	tes by Quar	ter	Implie	ed Market	t-hased Ir	flationary	Expecta	tions
Qtr	TIPS-05m				TIPS-30m	Qtr	UST-05m		UST-10m		UST-30m	Qtr	5-Yr	7-Yr	10-Yr	20-Yr	30-Yr
2003-Q1	1.33	1.81	2.07		17 18 19	2003-Q1	2.91	3.46	3.92	4.90		2003-Q1	1.58	1.65	1.85	-	
2003-Q2	1.15	1.61	1.94			2003-Q2	2.57	3.13	3.62	4.59		2003-Q2	1.42	1.52	1.68		
2003-Q3	1.36	1.84	2.21			2003-Q3	3.14	3.72	4.23	5.17		2003-Q3	1.78	1.87	2.03		
2003-Q4	1.24	1.65	2.01			2003-Q4	3.25	3.78	4.29	5.16		2003-Q4	2.01	2.13	2.28		
2004-Q1	0.82	1.26	1.71			2004-Q1	2.99	3.52	4.02	4.89		2004-Q1	2.17	2.26	2.31		
2004-Q2	1.26	1.69	2.05			2004-Q2	3.72	4.18	4.60	5.36		2004-Q2	2.47	2.50	2.55		Print in
2004-Q3	1.17	1.55	1.89	2.28		2004-Q3	3.51	3.92	4.30	5.07	and a	2004-Q3	2.34	2.37	2.41	2.79	
2004-Q4	0.93	1.30	1.69	2.08		2004-Q4	3.49	3.85	4.17	4.87		2004-Q4	2.56	2.55	2.48	2.79	
2005-Q1	1.17	1.41	1.71	1.93		2005-Q1	3.88	4.09	4.30	4.76		2005-Q1	2.72	2.68	2.58	2.83	
2005-Q2	1.30	1.44	1.68	1.83		2005-Q2	3.87	3.99	4.16	4.55		2005-Q2	2.57	2.55	2.48	2.72	
2005-Q3	1.59	1.70	1.82	1.98	Mark Street	2005-Q3	4.04	4.11	4.21	4.51	144 1	2005-Q3	2.44	2.41	2.39	2.52	
2005-Q4	1.92	1.98	2.04	2.13		2005-Q4	4.39	4.42	4.49	4.77		2005-Q4	2.47	2.44	2.45	2.64	
2006-Q1	2.00	2.05	2.09	2.08		2006-Q1	4.55	4.55	4.57	4.76	4.64	2006-Q1	2.55	2.50	2.48	2.69	
2006-Q2	2.34	2.39	2.46	2.48		2006-Q2	4.99	5.02	5.07	5.29	5.14	2006-Q2	2.65	2.62	2.61	2.80	
2006-Q3	2.37	2.37	2.37	2.38		2006-Q3	4.84	4.85	4.90	5.09	4.99	2006-Q3	2.47	2.48	2.52	2.71	
2006-Q4	2.40	2.36	2.32	2.29		2006-Q4	4.60	4.60	4.63	4.83	4.74	2006-Q4	2.20	2.24	2.31	2.54	
2007-Q1	2.28	2.33	2.33	2.36		2007-Q1	4.65	4.65	4.68	4.90	4.80	2007-Q1	2.36	2.32	2.35	2.54	
2007-Q2	2.35	2.40	2.44	2.49		2007-Q2	4.76	4.79	4.85	5.07	4.99	2007-Q2	2.41	2.39	2.41	2.58	
2007-Q3	2.38	2.44	2.45	2.46		2007-Q3	4.50	4.60	4.73	5.01	4.94	2007-Q3	2.13	2.16	2.28	2.55	41111
2007-Q4	1.54	1.81	1.92	2.11		2007-Q4	3.79	3.98	4.26	4.65	4.61	2007-Q4	2.24	2.17	2.34	2.54	
2008-Q1	0.58	1.02	1.32	1.81		2008-Q1	2.75	3.15	3.66	4.40	4.41.	2008-Q1 2008-Q2	2.17	2.13	2.34	2.59	
2008-Q2	0.79	1.17	1.48	2.03		2008-Q2	3.16	3.46	3.89	4.59	4.58	721200000000000000000000000000000000000	2.37	2.29	2.40	2.56	
2008-Q3	1.18	1.47	1.70	2.16		2008-Q3	3.11	3.44	3.86	4.49	4.45	2008-Q3	1.93	1.96	2.16	2.33	
2008-Q4	2.73	2.92	2.60	2.73		2008-Q4	2.18 1.76	2.63 2.23	3.25 2.74	3.97 3.69	3.68 3.45	2008-Q4 2009-Q1	-0.55 0.39	-0.29 0.69	0.65 0.95	1.24 1.35	
2009-Q1	1.37 1.12	1.54 1.37	1.79 1.72	2.34 2.31		2009-Q1 2009-Q2	2.23	2.23	3.31	4.19	4.17	2009-Q1 2009-Q2	1.11	1.51	1.60	1.88	
2009-Q2 2009-Q3	1.12	1.41	1.72	2.22		2009-Q2 2009-Q3	2.47	3.12	3.52	4.19	4.17	2009-Q2 2009-Q3	1.30	1.72	1.77	2.06	
2009-Q3 2009-Q4	0.58	0.94	1.74	1.98		2009-Q3 2009-Q4	2.30	2.98	3.46	4.27	4.33	2009-Q3 2009-Q4	1.72	2.04	2.09	2.29	
2010-Q1	0.38	0.94	1.43	2.00	2.16	2010-Q1	2.42	3.16	3.72	4.49	4.62	2010-Q1	1.96	2.22	2.28	2.49	2.47
2010-Q1	0.46	0.91	1.36	1.77	1.88	2010-Q1	2.25	2.93	3.49	4.20	4.37	2010-Q1	1.80	2.03	2.13	2.43	2.49
2010-Q2 2010-Q3	0.20	0.57	1.06	1.68	1.76	2010-Q3	1.55	2.19	2.79	3.60	3.85	2010-Q3	1.35	1.63	1.73	1.92	2.09
2010-Q4	-0.11	0.28	0.75	1.48	1.65	2010-Q4	1.49	2.18	2.86	3.84	4.16	2010-Q4	1.59	1.90	2.12	2.36	2.51
2011-Q1	0.07	0.67	1.09	1.71	2.00	2011-Q1	2.12	2.83	3.46	4.32	4.56	2011-Q1	2.05	2.16	2.37	2.61	2.56
2011-Q2	-0.29	0.33	0.80	1.49	1.78	2011-Q2	1.86	2.55	3.21	4.07	4.34	2011-Q2	2.15	2.22	2.41	2.57	2.56
2011-Q3	-0.65	-0.22	0.28	0.95	1.25	2011-Q3	1.15	1.78	2.43	3.34	3.70	2011-Q3	1.81	2.00	2.15	2.39	2.45
2011-Q4	-0.75	-0.39	0.05	0.61	0.85	2011-Q4	0.95	1.50	2.05	2.75	3.04	2011-Q4	1.71	1.89	1.99	2.14	2.19
2012-Q1	-1.02	-0.60	-0.17	0.51	0.78	2012-Q1	0.90	1.44	2.04	2.80	3.14	2012-Q1	1.92	2.04	2.20	2.29	2.36
2012-Q2	-1.08	-0.75	-0.35	0.35	0.66	2012-Q2	0.79	1.24	1.82	2.55	2.94	2012-Q2	1.86	1.99	2.17	2.21	2.28
2012-Q3	-1.27	-1.01	-0.63	0.02	0.43	2012-Q3	0.67	1.08	1.64	2.37	2.75	2012-Q3	1.94	2.09	2.28	2.35	2.31
2012-Q4	-1.42	-1.15	-0.76	-0.02	0.36	2012-Q4	0.69	1.12	1.71	2.46	2.86	2012-Q4	2.11	2.27	2.47	2.48	2.50
2013-Q1	-1.40	-0.98	-0.59	0.19	0.56	2013-Q1	0.83	1.32	1.95	2.75	3.14	2013-Q1	2.23	2.31	2.54	2.55	2.58
2013-Q2	-1.04	-0.62	-0.25	0.47	0.80	2013-Q2	0.92	1.39	2.00	2.78	3.15	2013-Q2	1.95	2.01	2.25	2.32	2.34
2013-Q3	-0.32	0.17	0.56	1.16	1.43	2013-Q3	1.51	2.12	2.71	3.44	3.72	2013-Q3	1.82	1.95	2.15	2.29	2.29
2013-Q4	-0.29	0.25	0.57	1.19	1.50	2013-Q4	1.44	2.12	2.75	3.50	3.79	2013-Q4	1.73	1.86	2.17	2.31	2.29
2014-Q1	-0.16	0.37	0.58	1.11	1.39	2014-Q1	1.60	2.22	2.76	3.42	3.68	2014-Q1	1.77	1.85	2.18	2.30	2.29
2014-Q2	-0.25	0.27	0.43	0.88	1.14	2014-Q2	1.66	2.19	2.62	3.18	2.87	2014-Q2	1.90	1.92	2.20	2.30	1.73
2014-Q3	-0.13	0.24	0.32	0.72	0.98	2014-Q3	1.70	2.16	2.50	3.01	3.26	2014-Q3	1.83	1.92	2.18	2.28	2.29
2014-Q4	0.19	0.39	0.45	0.75	0.95	2014-Q4	1.60	2.00	2.28	2.69	2.97	2014-Q4	1.41	1.61	1.83	1.95	2.02
2015-Q1	0.11	0.23	0.27	0.52	0.71	2015-Q1	1.45	1.77	1.97	2.32	2.55	2015-Q1	1.35	1.54	1.70	1.79	1.85
2015-Q2	-0.10	0.22	0.30	0.67	0.91	2015-Q2	1.52	1.91	2.17	2.62	2.89	2015-Q2	1.63	1.69	1.86	1.95	1.97
2015-Q3	0.26	0.48	0.57	0.92	1.14	2015-Q3	1.55	1.94	2.22	2.65	2.96	2015-Q3 2015-Q4	1.29	1.47	1.65	1.73	1.82
2015-Q4	0.36	0.51	0.66	1.02	1.24	2015-Q4	1.59 1.37	1.94 1.69	2.19 1.92	2.60 2.32	2.96 2.72	2015-Q4 2016-Q1	1.23 1.23	1.43 1.37	1.53 1.43	1.58 1.45	1.72 1.61
2016-Q1	0.15	0.32	0.49	0.88	1.11	2016-Q1			1.75			2016-Q1		1.58	1.43	1.45	1.72
2016-Q2	-0.24	-0.05 -0.09	0.19 0.08	0.62 0.44	0.85 0.62	2016-Q2 2016-Q3	1.24 1.13	1.54 1.40	1.75	2.15 1.91	2.57 2.28	2016-Q2 2016-Q3	1.48 1.35	1.58	1.48	1.53	1.66
2016-Q3	-0.22 -0.06	0.12	0.08	0.44	0.86	2016-Q3	1.13	1.93	2.13	2.52	2.82	2016-Q3	1.67	1.80	1.80	1.83	1.96
2016-Q4 2017-Q1	0.07	0.12	0.33	0.09	0.95	2016-Q4 2017-Q1	1.94	2.25	2.44	2.78	3.04	2016-Q4 2017-Q1	1.87	1.92	2.01	2.03	2.10
2017-Q1	0.07	0.30	0.44	0.75	0.94	2017-Q1	1.81	2.25	2.26	2.64	2.90	2017-Q1	1.71	1.78	1.82	1.88	1.96
2017-Q2 2017-Q3	0.10	0.36	0.44	0.75	0.94	2017-Q2 2017-Q3	1.82	2.06	2.24	2.58	2.82	2017-Q2 2017-Q3	1.65	1.70	1.79	1.83	1.88
2017-Q3	0.17	0.44	0.50	0.73	0.87	2017-Q3	2.07	2.25	2.37	2.62	2.82	2017-Q3	1.75	1.81	1.87	1.89	1.95
2017-04	0.04	0.77	0.00	0.172	0,01	E011-00	AIV!	-140	2.07	MIVM	MIVA	2011 004		1.01	1101	1100	1100

FRB H.15 Market Yield on U.S. Treasury (UST) Securities at Constant Maturity, Quoted on an Investment Basis in Percent per Year Staff Accessed, Mar. 8, 2018 at Staff Accessed , Mar. 8, 2018 at: H.15 ID H.15 ID H.15 ID TIPS-07

2.17

1.18
2.17
1.18
1.181
1.181
1.187
1.180
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181
1.181 | IPS-029 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | 1-1.05 | TIPS-20m TIPS-30m 3,60 3,34 3,43 3,43 3,43 3,43 3,46 3,81 4,181 4,1 1.27 1.04 1.50 2.28 2.15 1.30 1.06 0.26 -0.41 -1.19 0.76 -0.09 0.15 -0.01 2.06 1.83 1.81 2.31 2.29 1.77 1.66 1.15 0.55 -0.48 0.07 0.44 0.45 0.27 1.73 1.45 1.63 2.29 2.25 1.63 1.32 0.68 0.09 -0.87 -0.29 0.32 0.36 0.07 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2.97 3.43 4.05 4.75 4.43 2.80 2.20 1.93 1.52 0.76 1.17 1.64 1.53 1.33 3.52 3.87 4.15 4.76 4.51 3.17 2.82 2.62 2.16 1.22 1.74 2.14 1.89 1.63 4.01 4.27 4.29 4.80 4.63 3.66 3.26 3.22 2.78 1.80 2.35 2.54 2.14 1.84 4.96 5.04 4.64 5.00 4.91 4.36 4.11 4.03 3.62 2.54 3.12 3.07 2.55 2.22 2.65 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2003-02 2003-03 2003-04 2003-05 2003-07 2003-08 2003-07 2003-10 2003-11 2004-02 2004-03 2004-04 2004-05 2004-06 2004-07 2004-08 2004-09 2004-01 2004-10 2004-10 2004-10 2004-10 2.14 1.97 2.31 2.36 2.18 2.21 1.73 1.19 0.22 0.75 0.86 0.78 0.65 0.75 2003-04 2003-05 2003-06 2003-07 2003-08 2003-09 2003-10 2003-11 2003-12 2004-01 4.91 4.84 4.28 4.08 4.25 3.91 2.92 3.45 3.34 2.84 2.59 2.89 1.82 1.47 0.56 1.07 1.11 2004-02 2004-03 2004-04 2004-05 2004-06 2004-07 2004-08 2004-10 2004-11 2004-09 2004-11 2005-01 2005-01 2005-02 TIPS-20
2 444
2 20
1 1.85
1 1.85
1 1.85
2 2.01
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.05
2 2.01
2 2.01
2 2.01
2 2.02
2 2.03
2 2.03
2 2.03
2 2.03
2 2.03
2 2.03
2 2.03
2 2.03
2 2.03
2 2.03
2 2.03
2 2.03
2 2.03
2 2.03
2 2.03
2 2.03
2 2.03
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2.05
2 2. 2005-02 2005-03 2005-04 2005-05 2005-06 2005-07 2005-08 2005-09 2005-10 2005-11 2005-12 2006-01 2005-04 2005-05 2005-07 2007-05 2007-05 2007-05 2007-05 2007-05 2007-07 2007-08 2008-07 2007-07 2007-08 2007-07 2007-08 2008-07 2007-07 2007-08 2008-07 2008-07 2008-07 2008-07 2008-07 2008-07 2008-08 2008-08 2008-09 2008-0 2006-02 2006-02 2006-03 2006-06 2006-06 2006-07 2006-08 2006-10 2006-11 2007-03 2007-03 2007-03 2007-05 2007-06 2007-07 2007-08 2007-09 2007-10 2008-01 2008-01 2008-01 2008-01 2008-01 2008-02 2008-03 2008-04 2008-05 2008-06 2008-07 2008-08 2008-09 2008-01 2008-02 2008-01 2008-02 2008-03 2008-04 2008-05 2008-08 2008-09 2008-01 2008-01 2008-01 2008-02 2008-01 2008-01 2008-01 2008-01 2008-02 2008-01 2008-0 2009-06 2009-07 2009-08 2009-09 2009-10 2009-11 2009-12 2010-01 2010-02 2010-03 2010-04 2010-05 2010-06 2010-07 2010-07 2010-07 2010-01 2010-01 2011-01 2011-01 2011-02 2011-03 2011-04 2011-05 2011-08 2011-08 2011-09 2011-09 2011-09 2011-09 2011-09 2011-09 2011-09 2011-10 2011-12 2012-01 2012-02 2012-02 2012-03 2012-04 2012-06 2012-07 2012-08 2012-10 2012-11 2013-01 2013-01 2013-03 2013-03 2013-06 2013-08 2013-08 2013-08 2013-12 2014-01 2014-01 2014-02 2014-01 2014-02 2014-05 2014-06 2014-07 2014-06 2014-07 2014-06 2014-07 2015-02 2015-07 2015-08 2015-07 2015-08 2015-06 2015-07 2015-08 2015-06 2015-07 2015-08 2015-06 2015-07 2015-08 2015-06 2015-07 2015-08 2015-07 2015-07 2015-07 2015-07 2015-07 2015-07 2015-07 2015-07 2015-07 2015-07 2015-07 2015-07 2015-07 2015-0 2013-02
2014-04
2014-05
2014-03
2014-04
2014-05
2014-05
2014-06
2014-07
2014-06
2014-07
2014-06
2014-07
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-06
2015-0 -0.09
-0.26
-0.14
-0.19
-0.29
-0.27
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10
-0.10 0.63 0.55 0.54 0.37 0.37 0.28 0.46 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.65 0.67 0.67 0.69 0.61 0.61 0.61 0.62 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.67 0.67 0.67 0.67 0.69 0.69 0.69 0.69 0.60 NWN UG 344

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 204

Staff GDP Analysis with BEA Historical Data

Exhibits in Support of Direct Testimony

The column	w uw	174 GRC							Historic	cal GDP Growth	aff/204 Muldoo
		Cu			c Product (GI	DP)		3	Data Reco	mpiled by BEA on Feb. 28, 2018	
Color		v.bea.gov/national/		(Season	GDP in	d annual rates) GDP in	1980 1	through 2	017 Q4	9 92	
The column	1 1000	dollars	dollars	-240-420-29	current dollars	chained 2009 dollars					
Column C	1930 1931	92.2 77.4	966.7 904.8	1947Q2 1947Q3	246.3 250.1	1,932.3 2 1,930.3 3	2 2 3	8.762896 8.761378		2.76%	
10	1933 1934	57.2 66.8	778.3 862.2	1948Q1 1948Q2	266.2 272.9	1,989.5 s 2,021.9 s	5 5 6	8,800219 8,792899	1981	Regression Statistics	
March Marc	1936 1937	84.9 93.0	1,060.5 1,114.6	1948Q4 1949Q1	280.7 275.4	2,035,3 8 2,007.5 9	8 9	8.792565 8.775704	1982	R Square 0.974758234	
Section Control Cont	1939 1940	93.5 102.9	1,163.6 1,266.1	1949Q3 1949Q4	273.3 271.0	2,022.8 1 2,004.7 1	1 11 2 12	8.777525 8.778495			
The color of the	1942 1943	166.0 203.1	1,771.8 2,073.7	1950Q2 1950Q3	290.7 308.5	2,147.6 1 2,230.4 1	4 14 5 15	8.814078 8.833463		df SS MS F Significance F	
Column C	1945 1946	228.2 227.8	2,217.8 1,960.9	1951Q1 1951Q2	336.4 344.5	2,304.5 1 2,344.5 1	7 17 8 18	8.873552 8.890961	1984	Residual 150 0.352288621 0.002348591	
100 100	1948 1949	274.8 272.8	2,020.0 2,008.9	1951Q4 1952Q1	356.6 360.2	2,398.1 2 2,423.5 2	0 20	8.908695 8.918583	1985	Intercept 8.795133966 0.007900568 1113.228024 1.0678E-295 8.779523191 8.810744741 8.77952	23191 8.810744741
18	1951 1952	347.3 367.7	2,360.0 2,456.1	1952Q3 1952Q4	368.1 381.2	2,446.1 2 2,526.4 2	3 23 4 24	8.943140 8.950611			
100	1954 1955	391.1 426.2	2,556.9 2,739.0	1953Q2 1953Q3	392.3 391.7	2,593.5 2 2,578.9 2	6 26 7 27	8.964414 8.974441		BEA directly and through other	
The color	1957 1958	474.9 482.0	2,856.3 2,835.3	1954Q1 1954Q2	385.9 386.7	2,528.0 2 2,530.7 3	9 29 0 30	8.986572 8.997729	1987	government agencies.	
150 150	1960 1961	543.3 563.3	3,108.7 3,188.1	1954Q4 1955Q1	400.3 413.8	2,609.3 3 2,683.8 3	32 33	9.023131 9.028735	1988		
1965 1962	1963 1964	638.6 685.8	3,530.4 3,734.0	1955Q3 1955Q4	430.9 437.8	2,764.1 3 2,780.8 3	5 35 6 36	9.047621 9.060784		United States USDA	
18	1966 1967	815.0 861.7	4,238.9 4,355.2	1956Q2 1956Q3	446.8 452.0	2,792.9 3 2,790.6 3	8 38 9 39	9.078647 9.086080		Bureau	
100 1 500 1 100 1	1969 1970	1,019.9 1,075.9	4,712.5 4,722.0	1957Q1 1957Q2	470.6 472.8	2,854.5 4 2,848.2 4	1 41 2 42	9.099085 9.102944	1990	Note July 31, 2013, 14th Comprehensive Significant Revision:	
1.00	1972 1973	1,282.4 1,428.5	5,134.3 5,424.1	1957Q4 1958Q1	475.7 468.4	2,846.4 4 2,772.7 4	4 44 5 45	9.094638 9.089934	1991	1 Artistic Works 2 Research and Development	
1.05	1976	1,877.6	5,385.4 5,675.4	1958Q3 1958Q4	486.7 500.4	2,855.5 4 2,922.3 4	7 47 8 48	9.102454 9.106800		rather than one time expenditures	
145	1979	2,632.1	6,466.2	1959Q3	524.2 525.2	3,049.0 5 3,043.1 5	0 50 1 51	9.129510 9.139188		(Industry and Manufacturing) to one based on	
1862 1862	1982	3,345.0	6,491.3	1960Q1 1960Q2	543.3 542.7	3,123.2 5 3,111.3 5	3 53 4 54	9.151026 9.156950	1993	This comprehensive revision did not cause a large percentage jump.	
1888 1885	1985 1986	4,346.7 4,590.2	7,593.8	1961Q1	545.9	3,102.3 5	7 57	9.184838	1994	institution of actual annuality over this changed little.	
100	1988 1989	5,252.6	8,474.5	1961Q4	581.6	3,212.6 5: 3,277.7 6:	9 59 0 60	9.204292 9.215577			
1925 1926	1991 1992	6,174.0 6,539.3	8,948.4 9,266.6	1962Q3 1962Q4	609.6 613.1	3,372.7 6: 3,404.8 6: 3,418.0 6-	2 62 3 63	9.231005			
Best 1,000	1994 1995	7,308.8 7,664.1	9,905.4 10,174.8	1963Q2 1963Q3	631.8 645.0	3,501.1 6: 3,569.5 6:	6 66	9.261927			
The color of the	1997 1998	8,608.5 9,089.2	11,034.9 11,525.9	1964Q1 1964Q2	671.1 680.8	3,672.7 69 3,716.4 70	9 69 0 70	9.289235 9.304213	1997		
10.5 10.5	2000 2001	10,284.8 10,621.8	12,559.7 12,682.2	1964Q4 1965Q1	698.4 719.2	3,780.2 7: 3,873.5 7:	2 72 3 73	9.324588 9.334432	1998	Y .	
1000 10,388.00 14,418.00 1996.02 1007.00 10,0	2003 2004	11,510.7 12,274.9	13,271.1 13,773.5	1965Q3 1965Q4	750.2 773.1	4,006.2 7: 4,100.6 7:	5 75 6 76	9.357087 9.373369		7	7
1000 14.44.87 14.44.87 107/2 18.63 4.384.0 18.8 1	2006 2007	13,855.9 14,477.6	14,613.8 14,873.7	1966Q2 1966Q3	807.2 820.8	4,219.1 7: 4,249.2 7:	8 78 9 79	9.389532 9.402043			
1001 101.586.3	2009 2010	14,418.7 14,964.4	14,418.7 14,783.8	1967Q1 1967Q2	846.0 851.1	4,324.9 8 4,328.7 8	1 81 2 82	9.422148 9.440857	2000		
10.10 10.0000 10.0000 10.0000 10.0000 10.0000	2012 2013	16,155.3 16,691,5	15,354.6 15,612.2	1967Q4 1968Q1	883.2 911.1	4,401.2 8- 4,490.6 8:	4 84 5 85	9.447726 9.444883	2001		
1890.2 1011.4 4.776.7 39 90 \$6.664.00	2016	18,120.7 18,624.5	16,471.5 16,716.2	1968Q3 1968Q4	952.3 970.1	4,599.3 8: 4,619.8 8:	7 87 8 88	9.447000 9.449775	y .		
197002 1006 4				1969Q2 1969Q3	1,011.4 1,032.0	4,706.7 9: 4,736.1 9:	90 1 91	9.464440 9.469299			
1977 C1 1,735 2			22	1970Q1 1970Q2	1,053.5 1,070.1	4,707.1 9: 4,715.4 9:	93 4 94	9.475102 9.484337	2003		
197103 1,180.2 4.600.2 50 50 50.54657 197204 1,283.3 4.600.2 50 10 197205 1,283.3 4.600.2 50 10 197206 1,283.3 5,183.3 50 10 197206 1,283.3 5,183.3 50 10 197206 1,283.3 5,183.3 50 10 197206 1,283.3 5,183.3 50 64 197206 1,283.3 5,183.3 64 197206 1,283.3 5,183.3 64 197206 1,283.3 5,483.3 64 197206 1,283.3 5,483.3 64 197206 1,283.3 5,483.3 64 197206 1,283.3 5,483.3 64 197206 1,283.3 5,483.3 64 197206 1,283.3 5,483.3 64 197206 1,283.3 5,483.3 64 197206 1,283.3 5,483.3 64 197206 1,283.3 5,483.3 64 197206 1,283.3 5,483.3 64 197206 1,283.3 5,483.3 64 197206 1,283.3 5,483.3 64 197206 1,283.3 5,483.3 64 197206 1,283.3 5,483.3 64 197206 1,283.3 5,483.3 64 197206 1,283.3 5,483.3 6,483.3 64 197206 1,283.3 5,483.3 6,483.3 64 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,283.3 5,483.3 6,483.3 6,483.3 197206 1,2				1971Q1	1,137.8	4,708.3 9: 4,834.3 9:	96 7 97	9.512569 9.518303	2004		
197200 1280.8 5,166.4 103 103 50.4714 104 104 50.47135 105 50.47135 10700 1480.7 5.831.5 104 105 5.85167 2006 19700 1480.8 5.411.5 105 5.85167 2006 19700 1480.8 5.411.5 105 105 5.85167 2006 19700 1480.8 5.411.5 105 105 5.85167 2006 19700 1480.8 5.411.5 105 105 5.85167 2006 19700 1480.8 5.411.5 105 105 5.85167 2007 2007 2007 2007 2007 2007 2007 20				1971Q4 1972Q1	1,193.6 1,233.8	4,914.3 10	100	9,534653 9,543263			
1673022 1417.6 5.441.5 106 \$.5.8505.5 107.0 107.0 108.				1972Q3 1972Q4	1,293.8 1,332.0	5,165.4 10 5,251.2 10	103	9.567441			
1974 1,494.7 5,417.0 109 1				1973Q2 1973Q3	1,417.6 1,436.8	5,441.5 10 5,411.9 10	106 107	9.588064 9.588955			
16774C4				1974Q1 1974Q2	1,494.7 1,534.2	5,417.0 10 5,431.3 11	9 109 0 110	9.597370 9.604994	2007		
197503 1,713,8 5,421,4 115 9,506553 197 117 9,573246 2009 197501 1,824,5 5,618,5 117 117 9,573246 2009 197501 1,824,5 5,618,5 117 117 9,573246 2009 197501 1,824,5 5,618,5 117 117 9,573246 2009 197501 1,824,5 5,782,5 110 118 9,57385 119 119 119 1,782,5 119 119 119 1,782,5 119 119 119 1,782,5 119 119 119 1,782,5 119 119 119 1,782,5 119 119 119 1,782,5 119 119 119 1,782,5 119 119 1,782,5 119 119 119 1,782,5 119 119 119 1,782,5 119 119 119 1,782,5 119 119 119 1,782,5 119 119 119 1,782,5 119 119 119 1,782,5 119 119 119 119 119 119 119 119 119 11			e:	1974Q4 1975Q1	1,603.0 1,619.6	5,357.2 11 5,292.4 11	2 112 3 113	9.615259 9.608412	2008		
197602 1,886,9 5,681,0 118 119 9,571957 197604 1,983,4 5,782,8 120 9,584789 197701 1,982,5 5,799,2 121 120 9,584789 197702 2,080,2 5,913,0 122 122 9,588720 197703 2,122,4 6,017.6 123 122 9,588720 197703 2,122,4 6,017.6 123 122 9,588720 197703 2,122,4 6,017.6 123 122 9,588720 197703 2,122,4 6,017.6 123 122 9,588720 197704 2,183,7 6,018,2 124 124 9,517173 197801 2,208,7 6,039,2 125 126 9,605452 197703 2,386,6 6,274,0 126 126 9,605452 197703 2,386,6 6,274,0 126 126 9,605452 197803 2,386,6 6,274,0 126 126 9,607851 2011 197802 2,585,9 6,403,0 130 127 129 9,855202 011 197802 2,585,9 6,403,8 10 130 130 130 130 130 130 130 130 130				1975Q3 1975Q4	1,713.8 1,765.9	5,421.4 11 5,494.4 11	5 115 6 116	9,608553 9,587200	*		
1977C1 1,992.5 5,799.2 121 121 9,599720 2010 1977C2 2,000.2 5,913.0 122 122 9,599720 1977C3 2,122.4 6,017.6 123 123 9,505452 1977C4 2,188.7 6,018.2 124 124 9,511731 1977C4 1,188.7 6,018.2 124 124 9,511731 1977C4 2,188.7 6,018.2 124 124 9,511731 1978C4 2,208.7 6,099.2 125 125 9,07961 2011 1978C3 2,398.9 6,335.3 127 127 9,817211 1978C3 2,398.9 6,335.3 127 127 9,817211 1978C3 2,581.6 6,433.0 129 128 9,5535020 1978C3 2,581.6 6,433.0 129 129 9,5355020 1978C3 2,570.4 6,487.1 121 131 131 8,840975 1978C3 2,770.4 6,487.1 121 131 131 8,840975 1978C3 2,770.4 6,487.1 121 131 8,840975 1980C3 2,798.5 6,522.3 13 133 6,840973 1980C3 2,798.5 6,522.3 14 134 8,840973 1980C3 3,871.6 6,883.7 147 147 8,860973 1980C3 3,871.6 6,883.7 147 147 8,860973 1980C3 3,871.6 6,883.7 147 147 9,76783 1980C3 3,871.6 6,883.7 147 147 9,76783 1980C3 3,871.6 6,883.7 147 147 9,767830 1980C3 3,871.6 6,883.7 147 147 9,77830 1980C3 3,871.6 6,883.7 147 147 9,77830 1980C3 3,871.6 6,883.1 144 144 9,773380 1980C4 3,407.8 6,483.1 144 144 9,773380 1980C4 3,407.8 6,483.1 144 144 9,773380 1980C4 3,683.6 6,780.3 145 148 148 9,732189 1980C4 3,683.6 6,780.3 144 144 144 9,773380 1980C4 3,407.8 6,483.1 144 144 9,773380 1980C4 3,683.6 6,780.3 145 145 145 9,773580 1980C4 3,683.6 6,780.3 145 145 145 9,773580 1980C4 3,407.8 6,483.1 144 144 9,773380				1976Q2 1976Q3	1,856.9 1,890.5	5,661.0 11 5,689.8 11	8 118 9 119	9.571895 9.575157	2001,000,0413		
197704 2,168.7 6,018.2 124 124 9,511731 197801 2,208.7 6,009.2 128 125 9,07861 2011 197802 2,338.6 6,274.0 128 126 9,515112 197803 2,398.9 6,335.3 127 127 9,51721 197804 2,482.2 6,420.3 128 128 9,529412 197901 2,481.6 6,433.0 128 128 9,529412 197902 2,595.9 6,440.8 130 130 9,539578 197903 2,597.4 6,487.1 131 9,460875 197903 2,770.4 6,487.1 131 9,460875 197904 2,730.7 6,503.9 132 132 9,541103 198002 2,799.9 6,382.6 134 134 9,469988 198003 2,660.0 6,382.9 135 135 9,56770 198104 2,995.5 6,524.9 135 136 365078 2014 198103 3,261.2 6,562.9 139 139 9,68078 198104 3,278.8 6,597.3 138 138 9,67323 198103 3,261.2 6,562.9 139 139 9,68078 198103 3,267.3 6,487.5 141 141 9,70983 2015 198204 3,278.8 6,475.0 141 141 9,70983 2015 198203 3,367.1 6,485.8 143 144 9,71398 198203 3,5873.8 6,783.2 146 149 9,709743 198304 3,460.3 6,578.2 145 146 9,720976 198303 3,582.3 6,880.0 147 47 7,72780 198402 4,075.6 6,782.2 145 146 9,720976 198403 4,067.4 7,337.5 161 149 9,73258 198402 4,075.6 7,700.1.6 148 148 9,732189 198403 4,067.4 7,337.5 161 150 9,742786				1977Q1 1977Q2	1,992.5 2,060.2	5,799.2 12 5,913.0 12	121 122	9.589106 9.598720	2010	* ;	
1978C02 2.398.9 6,335.3 127 127 96.17211 1978C04 2.482.2 6.420.3 128 9.8528412 1979C1 2,531.6 6,433.0 129 129 129 3.855220 2012 1979C2 2,595.9 6,440.8 130 130 9.659678 1979C3 2,570.4 6,467.1 131 131 9.649675 1979C3 2,795.5 6,524.9 133 133 9.649073 1980C1 2,799.9 6,392.6 134 134 9.649078 1980C1 2,799.9 6,392.6 134 134 9.649088 1980C3 2,680.0 6,382.9 135 135 9.657670 1980C1 4,293.5 6,501.2 136 136 9.657670 1980C1 4,293.5 6,501.2 136 136 9.657670 1980C1 3,276.2 3,676.3 138 138 9.676323 1981C3 3,261.2 6,583.1 138 9.867632 1981C3 3,261.2 6,583.1 138 9.867632 1981C4 3,283.5 6,585.1 140 1982C2 3,331.3 6,575.0 141 141 9,701883 2015 1982C2 3,373.3 6,475.0 141 144 9,701883 2015 1982C2 3,373.3 6,475.0 141 144 9,701883 2015 1982C2 3,373.3 6,475.0 141 144 9,701883 2015 1982C2 3,478.8 6,483.1 144 9,701883 1982C3 3,387.1 6,486.8 143 143 9.712787 1981C2 3,478.6 6,487.8 144 144 9,701883 1982C3 3,387.1 6,486.8 143 143 9.712787 1982C4 3,478.8 6,481.1 144 9,701883 1982C3 3,387.1 6,486.8 144 144 9,701883 1982C3 3,387.1 6,486.8 144 144 9,701883 1982C3 3,387.8 6,487.8 6,483.1 144 9,701883 1982C3 3,387.8 6,487.8 6,483.1 144 9,701883 1982C3 3,387.8 6,486.8 143 143 9,712787 1982C4 3,478.8 6,483.1 144 9,701883 1983C3 3,588.8 6,782.3 145 146 9,7018745 1982C4 3,478.8 6,483.1 144 9,701883 1983C3 3,588.8 6,782.3 145 146 9,715446 1983C4 3,588.8 6,782.3 148 148 9,732188 1983C3 3,588.8 6,783.3 148 148 9,732188 1983C3 3,589.2 6,880.0 147 147 9,732283 2017 1983C4 3,074.8 6,481.1 148 9,7322				1977Q4 1978Q1	2,168.7 2,208.7	6,018.2 12 6,039.2 12	124 15 125	9.611731 9.607861	2011	×	
1979Q2 2,595,9 6,440,8 130 130 0,639673 1979Q3 2,670,4 6,487,1 131 131 3,540875 1979Q4 2,750,7 6,503,9 132 132 132 132 133 138001 2,795,5 6,524,9 133 133 9,648073 1980Q1 2,799,6 6,524,9 133 133 9,648073 1980Q3 2,890,0 6,392,6 134 134 9,649989 1980Q3 2,890,0 6,382,9 135 135 9,657670 1980Q4 2,993.5 6,501 2 136 136 9,667379 1981Q1 3,131.8 6,635,7 137 137 9,665078 1981Q2 3,167,3 6,587,3 138 138 9,676323 1981Q3 3,261.2 6,562,9 139 139 9,6889025 1981Q4 3,283.5 6,585.1 140 140 9,664013 1982Q1 3,331.3 6,510.2 142 142 9,708743 1982Q2 3,331.3 6,510.2 142 142 9,708743 1982Q3 3,367.1 6,486.8 143 143 9,71983 2015 1983Q1 3,480.3 6,578.2 145 144 144 9,71398 18804 3,583.2 3,683.2 3 6,860.0 147 144 144 9,71398 1880Q3 3,583.2 6,728.3 146 146 9,720976 1983Q3 3,583.8 6,728.3 146 145 9,712846 183Q3 3,592.3 6,860.0 147 147 9,727830 183Q4 3,078.2 7,740.6 149 149 9,735268 183Q4 3,078.4 7,737.5 145 145 145 9,735264 183Q4 3,078.4 7,7337.5 11 151 151 151 151 151 151 151 151 15				1978Q3 1978Q4	2,398.9 2,482.2	6,335.3 12 6,420.3 12	7 127 8 128	9.617211 9.628412		e	
1980Q1 2,795.5 6,524.9 133 133 9,648073 2013 1980Q2 2,799.9 6,392.6 134 134 3,649988 3,649988 3,6857670 1980Q4 2,993.5 6,501.2 136 136 9,667379 1981Q1 3,131.8 6,635.7 137				1979Q2 1979Q3	2,595.9 2,670.4	6,440.8 13 6,487.1 13	130	9.639678 9.640875			
1980Q4 2,993.5 6,501.2 136 136 9.667379 1981Q1 3,131.8 6,835.7 137 137 9.665078 2014 1981Q2 3,167.3 6,587.3 138 138 9.676323 1981Q3 3,261.2 6,662.9 139 139 9.689025 1981Q4 3,283.5 6,585.1 140 140 9.694013 1982Q1 3,273.8 6,475.0 141 141 9,701983 2015 1982Q2 3,331.3 6,510.2 142 142 9.708743 1982Q3 3,367.1 6,485.8 143 143 9,712787 1982Q4 3,407.8 6,493.1 144 144 9,713986 1983Q1 3,480.3 6,578.2 145 145 9,715446 2016 1983Q3 3,692.3 6,660.0 147 147 9,727830 1983Q4 3,796.1 7,001.5 148 148 9,732188 1984Q4 4,087.4 7,337.5 151 151 9,755564 1984Q3 4,087.4 7,337.5 151 151 9,755564				1980Q1 1980Q2	2,796.5 2,799.9	6,524.9 13 6,392.6 13	133 4 134	9.648073 9.649988	2013		
1981Q3 3,261.2 6,662.9 139 139 9.689025 1981Q4 3,283.5 6,585.1 140 140 9.684013 1982Q1 3,273.8 6,475.0 141 141 9,701983 2015 1982Q2 3,331.3 6,510.2 142 142 9.708743 1982Q3 3,367.1 6,486.8 143 143 9.712787 1982Q4 3,407.8 6,493.1 144 144 9,713996 1983Q1 3,480.3 6,578.2 145 145 9.715446 2016 1983Q2 3,583.8 6,728.3 146 146 9,720976 1983Q3 3,692.3 6,680.0 147 147 9,727830 1983Q4 3,796.1 7,001.5 148 148 9,732168 1984Q1 3,912.8 7,140.6 149 149 9,735256 1984Q2 4,015.0 7,266.0 150 9,742796 1984Q2 4,015.0 7,266.0 150 9,742796 1984Q3 4,087.4 7,337.5 151 151 9,750564				1980Q4 1981Q1	2,993.5 3,131.8	6,501.2 13 6,635.7 13	136 7 137	9.667379 9.665078		e e e e e e e e e e e e e e e e e e e	
1982Q2 3,331.3 6,510.2 142 142 9.708745 1982Q3 3,367.1 6,486.8 143 143 9.712787 1982Q4 3,407.8 6,493.1 144 144 9.713396 1983Q1 3,480.3 6,578.2 145 145 9.715446 2016 1983Q2 3,589.8 6,728.3 146 146 9.720976 1983Q3 3,589.2 6,580.0 147 147 9.727830 1983Q4 3,796.1 7,001.5 148 148 9.732188 1984Q1 3,912.8 7,140.6 149 149 9.732556 1984Q2 4,015.0 7,266.0 150 9.742796 1984Q2 4,015.0 7,266.0 150 9.742796 1984Q3 4,087.4 7,337.5 151 151 9.750564				1981Q3 1981Q4	3,261.2 3,283.5	6,662.9 13 6,585.1 14	9 139 0 140	9.689025 9.694013			
1983Q1 3,480.3 6,578.2 145 145 9.715446 2016 1983Q2 3,583.6 6,729.3 146 146 9.720976 1983Q3 3,692.3 6,860.0 147 147 9.727830 1983Q4 3,796.1 7,001.5 148 148 9.732189 1984Q1 3,912.8 7,140.6 149 149 9.735258 2017 1984Q2 4,015.0 7,266.0 150 150 9.742796 1984Q3 4,087.4 7,337.5 151 151 151 9.750564				1982Q2 1982Q3	3,331.3 3,367.1	6,510.2 14 6,486.8 14	2 142 3 143	9.708743 9.712787			
1983Q4 3.796.1 7.001.5 148 148 9.732189 1984Q1 3.912.8 7.140.6 149 149 9.735258 2017 1984Q2 4.015.0 7.286.0 150 9.742796 1984Q3 4.087.4 7.337.5 151 151 9.750564			12	1983Q1 1983Q2	3,480.3 3,583.8	6,578.2 14 6,728.3 14	5 145 6 146	9.715446 9.720976			
1984Q3 4,087.4 7,337.5 151 151 9.750564			ž	1983Q4 1984Q1	3,796.1 3,912.8	7,001.5 14 7,140.6 14	8 148 9 149	9.732189 9.735258	2017		
1984Q4 4,147.6 7,396.0 152 152 9,758825					4,087.4	7,337.5 15	151				

25				
	85Q1	4,237.0	7,469.5	153
	85Q2 85Q3	4,302.3 4,394.6	7,537.9 7,655.2	154 155
	85Q4	4,453.1	7,712.6	156
	86Q1 86Q2	4,516.3 4,555.2	7,784.1 7,819.8	157 158
	86Q3	4,619.6	7,898.6	159
	86Q4	4,669.4	7,939.5	160
	87Q1 87Q2	4,736.2 4,821.5	7,995.0 8,084.7	161
	87Q3	4,900.5	8,158.0	162 163
19	87Q4	5,022.7	8,292.7	164
	88Q1	5,090.6	8,339.3	165
	88Q2 88Q3	5,207.7 5,299.5	8,449.5 8,498.3	166 167
19	88Q4	5,412.7	8,610.9	168
	89Q1	5,527.4	8,697.7	169
	89Q2 89Q3	5,628.4 5,711.6	8,766.1 8,831.5	170 171
	89Q4	5,763.4	8,850.2	172
	90Q1	5,890.8	8,947.1	173
	90Q2 90Q3	5,974.7 6,029.5	8,981.7 8,983.9	174 175
	90Q4	6,023.3	8,907.4	176
	91Q1	6,054.9	8,865.6	177
	91Q2 91Q3	6,143.6 6,218.4	8,934.4 8,977.3	178
	91Q4	6,279.3	9,016.4	180
	92Q1	6,380.8	9,123.0	181
	92Q2 92Q3	6,492.3 6,586.5	9,223.5 9,313.2	182 183
19	92Q4	6,697.6	9,406.5	184
19	93Q1	6,748.2	9,424.1	185
	93Q2 93Q3	6,829.6 6,904.2	9,480.1	186
	93Q4	7,032.8	9,526.3 9,653.5	187 188
19	94Q1	7,136.3	9,748.2	189
	94Q2	7,269.8	9,881.4 9,939.7	190
	94Q3 94Q4	7,352.3 7,476.7	10,052.5	191
19	95Q1	7,545.3	10,086.9	193
	95Q2 95Q3	7,604.9 7,706.5	10,122.1	194
	95Q3 95Q4	7,706.5 7,799.5	10,208.8 10,281.2	195 196
19	96Q1	7,893.1	10,348.7	197
	96Q2	8,061.5	10,529.4	198
	96Q3 96Q4	8,159.0 8,287.1	10,626.8 10,739.1	199 200
19	97Q1	8,402.1	10,820.9	201
	97Q2 97Q3	8,551.9	10,984.2	202
	97Q4	8,691.8 8,788.3	11,124.0 11,210.3	203
19	98Q1	8,889.7	11,321.2	205
	98Q2	8,994.7 9,146.5	11,431.0	206
	98Q3 98Q4	9,325.7	11,580.6 11,770.7	207 208
	99Q1	9,447.1	11,864.7	209
	99Q2	9,557.0	11,962.5	210
1000	99Q3 99Q4	9,712.3 9,926.1	12,113.1 12,323.3	211
	00Q1	***************************************	12,359.1	213
	00Q2	***************************************	12,592.5	214
	00Q3 00Q4	***************************************	12,607.7 12,679.3	215 216
	01Q1	************	12,643.3	217
20	01Q2	***************************************	12,710.3	218
	01Q3 01Q4	######################################	12,670.1	219
	02Q1	***************************************	12,705.3 12,822.3	220
20	02Q2	***************************************	12,893.0	222
	02Q3 02Q4	***************************************	12,955.8 12,964.0	223
	03Q1	***************************************	13,031.2	224
	03Q2	<i>*************************************</i>	13,152.1	226
	03Q3	***************************************	13,372.4	227
	03Q4 04Q1	######################################	13,528.7 13,606.5	228
	04Q2	***************************************	13,706.2	230
	04Q3	##########	13,830.8	231
	04Q4 05Q1	***************************************	13,950.4 14,099.1	232
20	05Q2	#######################################	14,172.7	234
	05Q3	***************************************	14,291.8	235
20	05Q4 106Q1	***************************************	14,373.4 14,546.1	236
20	06Q2	***************************************	14,589.6	238
	06Q3	***************************************	14,602.6	239
	06Q4 07Q1	***************************************	14,716.9	240
	107Q2	***************************************	14,838.7	241
20	107Q3	***************************************	14,938.5	243
	07Q4 08Q1	#######################################	14,991.8 14,889.5	244
	08Q2	***************************************	14,963.4	245
20	008Q3	######################################	14,891.6	247
	008Q4 009Q1	######################################	14,577.0 14,375.0	248
	09Q2	######################################	14,375.6	250
20	09Q3	######################################	14,402.5	251
	09Q4 10Q1	***************************************	14,541.9 14,604.8	252 253
	10Q1	***************************************	14,745.9	254
20	10Q3	***************************************	14,845.5	255
	110Q4 111Q1	***************************************	14,939.0	256 257
	11Q2	***************************************	14,989.6	257
20	11Q3	***************************************	15,021.1	259
	11Q4 12Q1	***************************************	15,190.3	260
	12Q1 12Q2	***************************************	15,291.0 15,362.4	261 262
20	12Q3	***************************************	15,380.8	263
	12Q4 13Q1	***************************************	15,384.3 15,491.9	264
	13Q1	***************************************	15,491.9	265 266
20	13Q3	***************************************	15,641.3	267
	13Q4	***************************************	15,793.9	268
	14Q1 14Q2	***************************************	15,757.6 15,935.8	269 270
	014Q3	***************************************	16,139.5	271
	14Q4	***************************************	16,220.2 16,350.0	272
				273
20	15Q1	***************************************		274
20 20 20	015Q1 015Q2 015Q3		16,460.9 16,527.6	274 275
20 20 20 20	015Q1 015Q2 015Q3 015Q4	######################################	16,460.9 16,527.6 16,547.6	275 276
20 20 20 20 20	015Q1 015Q2 015Q3 015Q4 016Q1	######################################	16,460.9 16,527.6 16,547.6 16,571.6	275 276 276
20 20 20 20 20 20 20	015Q1 015Q2 015Q3 015Q4	######################################	16,460.9 16,527.6 16,547.6 16,571.6 16,663.5 16,778.1	275 276
20 20 20 20 20 20 20 20 20	015Q1 015Q2 015Q3 015Q4 016Q1 016Q2 016Q3 016Q4	######################################	16,460.9 16,527.6 16,547.6 16,571.6 16,663.5 16,778.1 16,851.4	275 276 276 276 276 276 277
20 20 20 20 20 20 20 20 20 20 20 20 20 2	015Q1 015Q2 015Q3 015Q4 016Q1 016Q2 016Q3	######################################	16,460.9 16,527.6 16,547.6 16,571.6 16,663.5 16,778.1	275 276 276 276 276 276

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 205

Simple-Single-Stage – Gordon Growth
Discounted Cash Flow (DCF)
Check on ROE Modeling

Exhibits in Support of Direct Testimony

Simple DCF Gordon Growth Supporting ROE Model

Simple Discounted Cash Flow (DCF) Model

AKA: Gordon Growth Model

This simple model presumes that whatever is happening next quarter will happen forever.

	A	D	C	U			G	11		J	11	<u> </u>	IAI	14	0		
										(1+ L) ^{1/4} -1		(O/F)*(1+N)		$(1+L+J)^4-1$			
											2017 VL	1	::	2001 50			
									Company	Quarterly	"Last"	t+1	2	SIMPLE DCF ROI	Ξ		
				Staff	Staff	Recent	VL	VL	"Combined	Co.	Q-4 \$	Dividend		Staff	Staff		
			Staff	Low Cap	Small Cap	Stock	EPS	EPS	LT Growth	Growth	Quarterly	Yield	Staff	Low Cap	Small Cap		
[Utility	Ticker	Peers	Sensitivity	Sensitivity	Price	2017	2020-2022	Rate"	Rate	Dividend	Co. Growth Rate	Peers	Sensitivity	Sensitivity	Utility	
1	American States	AWR	Yes	Yes	No	53.80	1.88	2.29	6.2%	1.5%	0.2475	0.47%	8.16%	8.16%		American States	1
2	Aqua America	WTR	Yes	No	No	34.82	1.35	1.81	6.7%	1.6%	0.1975	0.58%	9.19%			Aqua America	2
3	California Water	CWT	Yes	Yes	No	38.63	1.40	1.81	9.6%	2.3%	0.1800	0.48%	11.61%	11.61%		California Water	3
4	Middlesex Water	MSEX	Yes	Yes	Yes	65.57	1.38	1.96	7.8%	1.9%	0.2150	0.33%	9.26%	9.26%	9.26%	Middlesex Water	4
5	York Water	YORW	Yes	Yes	Yes	75.19	1.05	1.40	7.1%	1.7%	0.1625	0.22%	8.05%	8.05%	8.05%	York Water	5
-									PHI TO THE PARTY OF THE PARTY O	7		Average:	9.25%	9.27%	8.65%	1	-

In General, Staff Disagrees with this Simple Gordon Growth DCF Model

However, this model may provide a check on Staff's Three Stage DCF Modeling.

- ❖ Common Stock Flotation Costs Adjustment Shifts Range of Reasonable ROE's Upward by :
- Sensitivity Study to Account for Difference in Capitalization Size -- Maximum Upward Shift:

Informed Range of Modeled Results

8.79%

to

12.5 bps 1.6 bps 9.41% R

ROE

then:

This is a tool used to introduce students to certain elementary concepts in finance. If dividends were to grow at a steady rate forever, regardless of everything known otherwise, $P_0 = D_1 / (r - g)$

P₀ = D₁ / (r - g)

P₀ The current stock price
D₁ The quarterly dividend expected in the next quarter
r The cost of equity capital
g The perpetual growth rate

Point ROE Recommendation

Top of Range for Commission Consideration

9.41%

9.27%

ROE

ROE

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 206

Value Line (VL)
Water Utility Profiles

Exhibits in Support of Direct Testimony

1783

The Water Utility Industry consists of eight companies that provide water and wastewater services to specific service areas. The ninth member of the group is a hybrid that has regulated water businesses, but also constructs and operates desalination plants.

SJW Group and Connecticut Water have agreed to a merger. We think the deal makes sense, and maybe a few similar acquisitions are possible.

Stocks in this industry have historically been purchased because they are not volatile, and have well-defined earnings and dividend streams.

Just about every water utility is involved in a

large construction program.

The regulatory climate remains constructive. Once again, we cannot underestimate how important relations are between utilities and state regulators.

The new Tax Cuts and Jobs Act will really not have a major impact on the earnings of the companies followed here.

A spike in short end of the treasury note yield curve is providing investors with alternatives to higher yielding stocks.

A Merger

The recent agreement by SJW Group to combine with Connecticut Water took the market by surprise. It's not that mergers and acquisitions are rare in the water utility industry, what's unusual is that the transaction was between two publicly traded companies. There are over 50,000 small water authorities operating in the United States. Almost all of them are municipally run, however. Thus, while they issue debt, there is no equity involved because the districts are owned by a local- or state-run agency. Also, making the marriage of SJW and Connecticut Water atypical is that the companies have no overlapping jurisdictions. One of the main reasons for the merger is that the size of the utility will increase significantly. This is important because smaller concerns, such as Connecticut Water have been having difficulty getting the attention of institutional accounts. Large investors have trouble buying stocks with small market capitalizations because they don't want to own more than 3%-5% of the outstanding stock of any one company. For example, if a \$25 billion pension fund took a 5% interest in an equity with a \$500 million market cap, the position would only be \$25 million, or .1% of the total portfolio. This is too small a holding to be worth the trouble. In any case, the only remaining small cap stocks are York Water and Middlesex, which have market caps of only \$400 and \$600 million respectively. Not including the two largest utilities *American Water Works* and *Aqua* America, there are several companies that have market caps of close to \$2 billion, and they could possible become buyers or sellers.

Šize in this sector is important for another reason. There was a period when the industry did not reinvest in its infrastructure. As a result, the nation's pipeline systems became antiquated. The problem has been addressed over the past 10 years, but the American Society of Civil Engineers (ASCE) estimates that \$1 trillion will be needed to fix the problem over the next 25 years. Also, by 2020, the percentage of pipes classified as poor, or worse, will rise from 10% to over 40%. (Keep in mind, however, this means more work for engineers.) More-

INDUSTRY TIMELINESS: 50 (of 97)

over, many of these small local water authorities do not have the financial wherewithal required to make the necessary improvements.

Tax Reform

For the most part, the Tax Cuts and Jobs Act will not have a major impact on water utilities. True, deferred taxes on balance sheets had to be reevaluated, leading to write downs. In the future, however, utilities will almost definitely not be allowed to keep profits resulting from lower taxes, as all of the proceeds will be passed through to ratepayers. Nevertheless, lower taxes are a positive for utilities in that their customers' bills will decline. Hence, there may be less resistance to raising rates to recoup costs in the future.

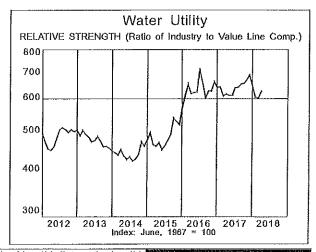
Competition From Bonds

For those seeking income-generating securities, there is typically a choice to be made between a high-yielding equity or a bond. Due to massive intervention by monetary authorizes, rates on short term government debt had declined to historic lows. The Federal Reserve has allowed interest rates to increase by over 100 basis points for short term treasuries. This makes the notes much more competitive with the 2.0% yield on the typical stock. For example, the one- and two-year treasury notes are now yielding 2.05% and 2.30%, respectively. Thus, investors can get the same current income for a lot less risk.

Conclusion

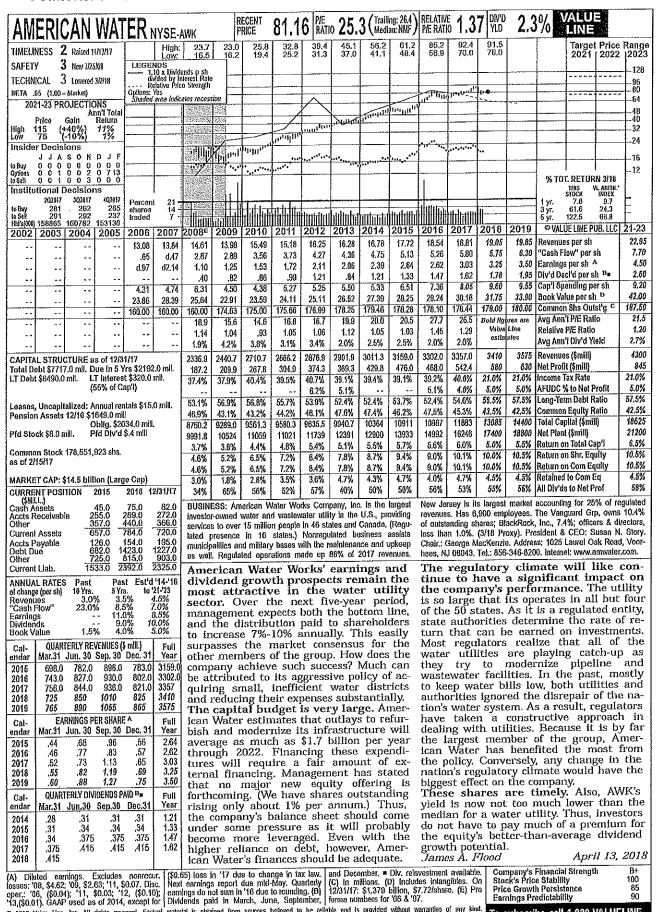
Stocks from this sector have historically been sought after by income-oriented investors, with a low tolerance for risk. The group's strong performance in the past few years resulted in the average yield on a water utility stock only being slightly higher than the medium of all stocks in the Value Line universe. As always, we recommend that subscribers read each individual report to understand the specific risk associated with each stock, before making commitments.

James A. Flood



AN	IER.	STAT	ES	WAT	ER	NYSE-A	.WR	RECENT PRICE	52.0	1 P/E RATI	o 28.	9 (Traili Medi	ng: 27.7) an: 20.0)	RELATIV PJE RATI	1.5	6 Ard	2.1	%	/ALU LINE	=	
		3 Raised 3/9	/18	High: Low:	23.1 16.8	21.0	19,4		18.2 15.3	24.1 17.0	33.1 24.0	38.7 27.0	44.1 35.8	47.2 37.3	58.4 41.1	60.0 50.1				l Price 2022	
SAFE		2 Raised 7/2		LEGE	NDS																80
			1/18	Re	vided by la elative Pric	ends p sh nterest Rate se Strongth	,		L												-60
		0 = Market) PROJECTION	IS.	Chions:	HIL 19713 Yes <i>area indi</i> r	ales recess	ion				2-10		111	igitititi'i	11/12/14(1)		~-				+50 -40
	Price	Ann	r'i Total Return	Sinder	DICE MAN	6288	221	ļ	/	1	1	յլույնով ^ի	111111	111				<u> </u>	ļ	ļ	30
ligh ow		(+15%) (-15%)	6% 1%	- J. 11	1311		6503 1574			10	Fristilli.							ļ			25
	er Decl	sions		il seem		4		1,11,11,11	11,14,118	11:11		ļ		******	***********			ļ			-15
Buy		A S O N E O O O O O			***		1	.,		.,,,,	147,,44	ļ <u></u>		******	******			<u> </u>			10
pitons Sell	2 0 3	3 4 0 2 1 4 3 2 4 0					製料 物質		2.5.02	[" -	ļ							% 10	' T. RETUR	, IN 3/18	-7.
rstit	utional 2020i	Decisions	4Q2017													,			STOCK	/L ARITH,*	
Buy Sell	91	6 104	104	Percent shares	16 y	120		11111	ı Bd.	utas II s								1 yr. 3 yr.	22,2 41.9	9.7 24.3	L
2d's{00) 28359	5 27880	24143	traded	8									2016	11111111 2017	 2018	2019	5 yr.	107.3 UE, LINE P	68,8 IR 11.C	21-2
6.89			7,03	2006 7.88	2007 8,75	2008 9.21	2009 9,74	10.71	11.12	2012 12.12	2013 12.19	12.17	2015 12.56	11.92	12.01	12.65	12.45		es per sh	00, 11,0	15.
1.27	1		1.32	1.45	1,65	1,69	1.70	2.11	2.13	2.48	2.65	2,67	2.61	2.70	2,96	3.05	3.25	"Cash F	low" per s		4.
.67			.66	.67	,81	.78	.81	1.11	1.12	1.41	1.61	1.57 .83	1.61 .87	1,62	1.88 ,99	1.85 1,07			s per sh A ci'd per s		2. 1.
.44. 1,34			.45 2.12	.46 1.95	.48 1.45	.50 2.23	.51 2.09	2.12	,55 2,13	1.77	.76 2.52	1.69	2.39	3.55	3,09	3.40	3.40		ending p		3.
7.02	1	9 7,51	7,86	8.32	8.77	8.97	9.70	10.13	10,84	11.80	12.72	13.24	12.77	13.52	14.45	15.20	15.95		lue per sh		17.
30.36 18.3			33.60 21.9	34.10 27.7	34.46 24.0	34.60 22,6	37.06 21.2	37.26 15.7	37.70 15.4	38.53 14.3	38.72 17.2	38.29 20.1	36.50 24.6	36.57 25.6	36,68 25.7	36.80 Bold figt	37,00 ires are		n Shs Out 'I PIE Rat		37. 22
1.00			1.17	1.50	1.27	1,36	1.41	1.00	.97	.91	.97	1,08	1.24	1.34	1.25	Value estim	Line .	Relative	P/E Ralio	·	1.
3.6%	3.5%	6 3.6%	3.1%	2.5%	2.5%	2.9%	2.9%	3.0%	3.2%	3.1%	2.7%	2.6%	2.2%	2.2%	2.0%				'I Div'd Y	eld	2.8
APIT	AL STRI	UCTURE as 10.3 mill. Du	of 12/31	1/17 re 9100 7	7 mili	318.7	361.0	398.9	419.3	466.9 54.1	472.1 62.7	465.8 61.1	458.6 60.5	436.1 59.7	440.6 69.4	450 68.0		Revenue Net Prof			5 92
	iebt \$30 it \$321.0) mill. LT	Interest	E\$21.3 m		26.8 37.8%	29.5 38.9%	41.4	42.0 41.7%	39.9%	36,3%	38.4%	38.4%	36,8%	36.0%	23.0%		Income			23.0
		(38	1% of Ca	ap'i)		6.9%	3.2%	5.8%	2.0%	2.5%				2,5%		NII			% to Net F		1.0
		oitalized: An		tais \$2,3	mill.	46.2% 53.8%	45,9% 54,1%	44.3% 55,7%	45.4% 54.6%	42.2% 57.8%	39.8% 60.2%	39,1% 60,9%	41.1% 58.9%	39.4% 60.6%	37.7% 62.3%	41.5% 58.5%			m Debt R Equity R		45,0 54.0
ensic	n Asset	ts-12/17 \$17: Ob		7.7 mill.		577.0	665.0	677.4	749.1	787.0	818.4	832.6	791.5	815,3	851.0	960	1025		pital (\$mll		12
fd Ste	ock Non	e,				825.3	866,4	855.0	896.5	917.8	981.5	f003.5	1060.8	1150.9	1205.0	1250 8,5%		Net Plan	t (\$mili) n Total Ca	nll llm	9.0
		k 36,715,525	shs.			6.4% 8.6%	5.9% 8.2%	7.6% 11.0%	7.1% 10.3%	8.3% 11.9%	8.9% 12.7%	8.6% 12.0%	9.0% 13.0%	8.6% 12.1%	9.5% 13.1%	12.0%			n Shr. Eq		14.0
S OT Z	/22/18					8.6%	8.2%	11.0%	10.3%	11.9%	12.7%	12.0%	13.0%	12.1%	13.1%	12.0%			n Com Ec		14.0
		\$1.9 billion		ap) 2016 12	104147	3.1%	3.2%	5.8%	5.3% 49%	6.6% 45%	6.8% 47%	5.7% 53%	6.0% 54%	5.3% 56%	6.0% 53%	5.5% 58%			l to Com E s to Net P		6.0 59
(\$61	ENT PO:			٠.	111161	64%	61%	47% terican S					لسنسيب		i			<u> </u>	litary bas		
ccis i	Assets Receiva	ble 18	4.4 5.9	20.0	26.1	compan	ly. Throu	gh its pri	ncipal sul	osldiery, (Golden S	tate Wat	er Co.,	ASUS s	ıb. Sold	Chapan	al City V	Vir. of A	Z. (6/11).	Employ	s 75
ilher Vær	t Assets	s 109		66.9	129.2 155.5	It suppli	ies wate areas i	r to 258. Iclude th	949 custo e metron	omers in olitan arr	70 cilies eas of Le	in 10 cc os Angelo	unties, es and						Vanguar Ross.		
ccts (Payable Bue	1 50 28	0.6 9.3	43.7 90.3	51.0 59.3	Orange	Countle	s. The co	impany a	lso provi	des eleci	tricity to t	24,274	Robert S	provis. I	no: CA. /	Addr.: 63	0 East F	oothill Bly y,aswate	d., San	
ther	t Liab.		1.6	43.9 77.9	46.4 156.7			g Bear l											y trea		- T ₁
	AL RATE			t Est'd		Ame	tornu ricar	a rego Star	nator tes W	s rec Vater	enuy a be	gran etter	re-	2017.	Ame	erican	Stät	tes fi	led a	peti	tior
chang	je (per sh) 10 Yrs,	5 Yrs	to '2	21-23	turn	tha	n it	origia	ally	prop	osed.	In	seeki	id gr	gher r	evenu	ies fo	r 2019	3-2021	1. <i>f</i>
	Flow"	5.5% 7.5%	3.0 6.5 9.5 10.5	% 6	.5%	Com	uary, missio	the on (CI	Califo PLIC)	rnia recom	Publi mend	c Du ed an		final Lowe	aecisi r taz	on sn kes sl	noulc	not	have	yean	im
videi Videi	nds	10.0% 7.0%	10.5	% 7	,5% ,5% 1.0%	lowed	i retu	ırn on	equit	y (RO	E) of	8,23%	for	pact	on tl	ie co:	mpan	ıy. In	2017,	the	nev
	/alue	5,5% RYERLY REVE	5.0					n Star the p					om⊶ o of	tax k	egisla Ican	tion v States	vas b . The	asical - sav	ily a ings g	wasn renera	ro: atec
idar Idar		Jun. 30 S			Full Year	9.439	6. In	the fi	nal ri	ıling i	in Ma	rch, l	10W-	from	the re	ducec	l taxe	s in t	he yea	irs al	icac
015	100.9			110.1	458.6	ever,	the	CPUC	raise	d the	level	to 8.	9%.		ost c	ertain	ly be	passe	d on t	o cust	om
016 017	93.5			106.8 104.2	436.1 440.6	Mana only	ageme be in	ent bei pacte	ueves d bv \$	tnat t 3.6 m	ne to _l	with	this	ers. The	nonu	tility	segr	nent	conti	inues	to
018	100	115	130	105	450	new (decisi	on, as	comp	ared t	o the	\$9.5 1	niI-	grow	in	impo	rtan	ce. L	ast y	ear,	che
)19 'a'	102 F	118 Armings Per	133 I SHARE	107 A	460 Full	lion :	in rev a RO	venues E of 8	3 1t th .23%	ought	wou	d be	iost						rovide Hation		
al- dar	تم مدا	Jun. 30 S			Year	Shar	e ea	rning	s sho	uld b	e bet	ter t	han	an 1.	1% ga	aln in	earı	nings	per :	share	, te
115	.32	.41 .45	.56 .59	,31 ,30	1.60 1.62	they	app	ear t share	his y	ear.	We ex	xpect	the 5 in	\$0.37 bases	As tl	ae U.S agrae	s. mil: :t AS	itary j US +	privati o wło	izes n i its	nor fai
)16)17	.28	.45 .62	.57	.35	1.88	2018.	any s . Last	year'	s figur	es inc	lude	a \$0.1		share	of the	ese 50	-year	contr	acts.		
118	.35	.50 .58	.60 .63	.40 .42	1.85 2.00	share	e gain	resul	ting fi	rom tł	ie forc	ed sal	le of						d out		
319 al-	-	RTERLY DIVID	. — —		Full	its (Jjai i howe	operat	ions. ne ris	with e in e	stima	us a ted c	arn-	junct volati	lity,	stron	g fii	nance	s, an	ad w	/ell-
dar	Mar.31			Dec.31	Year	ings	per sl	are w	ould l	oe a h	ealthy	6%.		define	ed ea	rning	s an	d diy	vidend	gro	wtł
014	,2025		.213	.213	.83 87	The	mon	entu are	n she	ould -	conti	nue i	nto are-						lespite projec		
015 016	.213		.224 .224	,224 ,242	.87 .91	earni	ngs e	estima	te for	next	year	at \$2	.00,	think	invo	estors	can	find	stoc	ks v	vitl
017	.242		.255	.255	,99	reflec	ting	a soli	d 8%	incre	ase_o	ver 20	018.	simila	ır risk	i profi			r price		
018	,255							ers ar						Jame.			ingnule l	Singnola	Strengtl		Δ Δ
nsilio	isses): "(rnings. Exclu 04, 7¢; '05,	136: '06	6. 3¢: 'U	ıg (B) [8, June	Dividends , Septem	nisionica ber, and	any paid i Decembe	n early N er, × Div'o	narch, { 1 rein- {	u) in mili D) Includ	ions, adji Ios Intanç	isieu ior gibles, As	երյու s of 12/3՝	117; \$7.	9 Stoc	k's Price	stabilii	y -	1	80
¢); 1	0, (23¢);	11, 10¢. Ne	xt earni	ngs repo	rt vestr	nent plan	avallabi	в.		i	niliion/\$0,	22 a sha	re.			Price		ı Persist edictabil			75 90
ear					1						le and is subscriber										

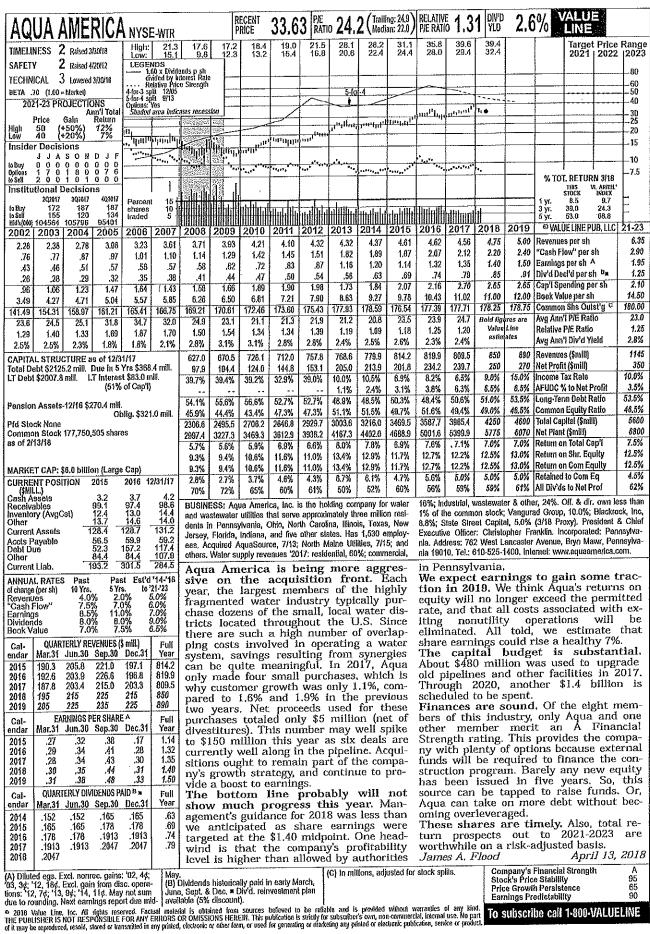
2016 Value Line, Joc. All sights reserved. Factual material is obtained from sources believed to be releasible and is provided variantlies of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMESSIONS HEREIN. This publication is strictly for subscribine's own, non-commercial, internal use. No net internal us



De 2018 Value Ling, Inc. All rights reserved. Factual meterial is obtained from sources befaved to be reliable and is provided without warranties of any kind.

THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internat uso. No part of it may be reproduced, resold, stored or transmitted in any pointed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or preduct.

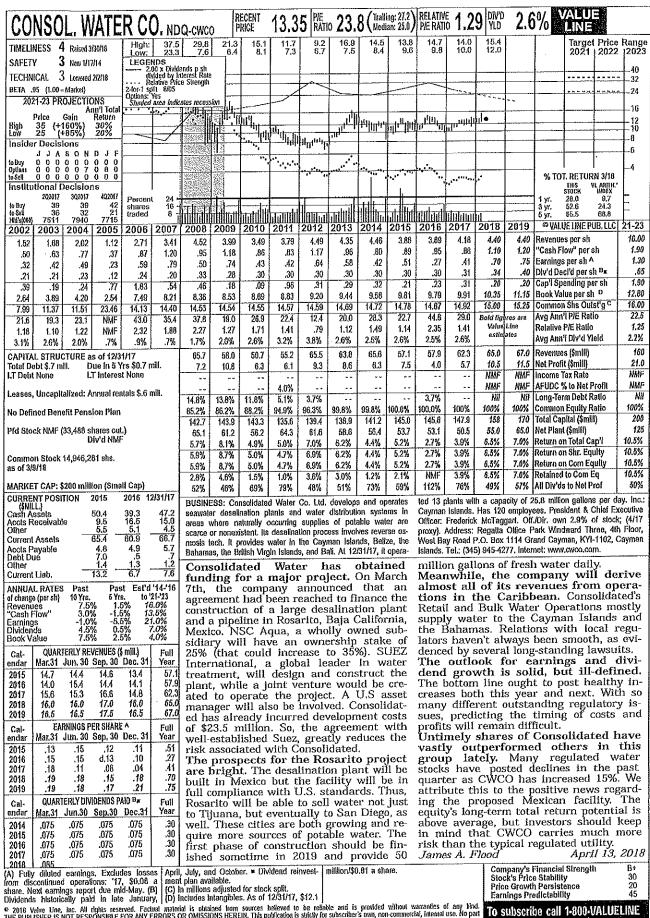
To subscribe call 1-800-VALUELINE



CALIFORNIA W	ATEF	NYS	E-cwt	R	EGENT RICE	36.5	O PÆ RATI	o 24 ,	2 (Trail	ing: 26, 1) ian: 20,0)	RELATIV PJE RATI	6 1.3	1 DIVID	2.1	%	/ALU LINE	E	
IMELINESS 4 Lowered 3/9/18	High: Low:	22.7 17.1	23.3 13.8	24.1 16.7	19.8 16.9	19.4 16.7	19.3 16,8	23,4 18,4	26.4 20.3	26.0 19,5	36.8 22.5	46.2 32.4	45.8 35.3				t Price 2022	
SAFETY 3 Lowered 7127/07 FECHNICAL 3 Lowered 3130/18	LEGER	NDS 33 x Dividi ádod hv k	ends p sh nerest Rate to Strength	,				ļ					ļ		-		<u> </u>	-64
FECHNICAL 3 Lowered 1/30/18 JETA .75 (1.00 = Market)	2-for-1 sp	lative Pric	c Strength	· =					-			11111			-			+48 +40
2021-23 PROJECTIONS Ann'i Total	Shaded	res <i>area Indic</i> 	ales reces	sion		12				13344	1 - - - - - - - - - - - - - - - -	19-11-						32 24
Price Gain Return ligh 50 (+35%) 10% .cw 35 (-5%) 1%	111 111	417	ales reces		111/16/17/1	111111111111111	արդալ	11/11/1 ¹	ilia ^t lier	1 11341	. <u>-</u> -				-			16 16
nsider Decisions JJASONDJF	*******	11, 114	SV COME	•	`````````	(*24)	,	************		i	*133,37,41,11	**********	٠,					12 8
DBuy			1921101180							3,1,41,41					% TO	 T. RETUR	 (N 3/18	-6
nstitutional Decisions 202017 302017 402017	Percent	18 -											ļ				VL ARITH.* INDEX 9,7	L
o Buy 88 80 74 o Seli 77 71 70	shares traded	12										र्मानम			3 yr. 5 yr.	63,1 112,9	24.3 68.8	_
165(00) 38422 38931 33803 2002 2003 2004 2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	@ VAL	UE LINE P	UB, LLC :	
8.67 8.18 8.59 8.72 1.32 1.26 1.42 1.52	8.10 1.36	8,88 1.56	9.90 1.86	10,82 1,93	11,05 1,93	12.00 2.07	13,34 2,32	12,23	12.50 2.47	12.29	12.70 2.34	13,89 3.00	14.10 2,90	14.40 3.00		es per sh low" per :	sh	15.2 3.3
.63 .61 .73 .74	.67	.75	.95	.98	,91	.86	1.02	1.02	1,19	.94	1.01	1,40 ,72	1.55 .75	1.65	Earning:	s per sk cl'd per s	۹	1.5 1.6
.56 .56 .57 .57 2.91 2.19 1.87 2.01	.58 2.14	.58 1.84	.59 2.41	,59 2.66	.60 2.97	.62 2.83	.63 3.04	.64 2.58	.65 2.76	.67 3.69	.69 4.77	5.40	4.35	3.95	Cap'l Sp	ending p	er sh	3.
6,56 7,22 7.83 7.90 30,36 33,86 36,73 36,78	9,07	9,25 41,33	9,72 41,45	10.13 41.53	10,45 41,67	10,76 41,82	11.28 41.98	12.54 47.74	13.11 47.81	13.41 47.88	13.75 47.97	14.44 48.01	14.75 48.50			lue per si n Sha Out		16.1 50.1
19.8 22.1 20.1 24.9	29.2	26.1	19,8	19.7	20.3	21.3	17,9	20.1	19.7	24.8	29.6	26.9	Bold figs Value	res are	nırA gvA	i'l P/E Raf	io	23
1.08 1.26 1.06 1.33 4.5% 4.2% 3.9% 3.1%	1.58 2.9%	1,39 3,0%	1.19 3.1%	1,31 3.1%	1.29 3.2%	1.34 3.4%	1.14 3.5%	1.13 3.1%	1.04 2.8%	1.25 2.9%	1.55 2.3%	1.34 1.9%	estin			P/E Ratid I'l Div'd Yi		1. 2.4
APITAL STRUCTURE as of 12/3	1/17		410.3	449.4	460.4	501.8	560.0	584.1	597.5	588.4	609.4	666.9	685			s (\$mili) ⁱ	E	7. 95
otal Debt \$806,8 mil. Due in 5 \ T Debt \$515.8 mill. LT Interes	t \$36.6 m	ill.	39.8 37.7%	40,6	37.7 39.5%	36.1 40.5%	42.6 37.5%	47.3 30.3%	56.7 33.0%	45.0 36.0%	48.7 35.5%	67.2 30.1%	75.0 21.0%	21.0%	Net Prof Income	fax Rate		21.0
•	3% of Cap	F1)}	8,6%	7.6%	4.2% 52.4%	7.6% 51.7%	8.0% 47.8%	4.3% 41.6%	2,7% 40.1%	4.3% 44.4%	6.1% 44.6%	3.5% 42.7%	5.0% 42.5%			% to Net F m Debt R		5,0 42.0
lim 9,064 12/17 Assets Assena (8), 1910 Oblig			41.6% 58.4%	47.1% 52.9%	47.8%	48,3%	52.2%	58.4%	59,9%	55.6%	55.4%	57.3%	57.5%	57.5%	Commer	ι Equity R	atio	58.0
fd Stock None			690.4 1112.4	794.9 1198.1	914.7 1294.3	931,5 1381,1	908,2 1457.1	1024.9 1515.8	1045.9 1590.4	1154.4 1701.8	1191.2 1859.3	1209.3 2048.0	1240 2075		Total Cap Net Plan	pital (\$mil t (\$mill)	1)	14 22
ommon Stock 48,012,000 shs.			7.1%	6.5%	5.5%	5.5%	6.3%	6.0%	6.3%	5.2%	5.5%	7.1%	7.0%	7.5%	Return o	n Total Ci		7.5
			9.9% 9.9%	9.6% 9.6%	8.6% 8.6%	8.0% 8.0%	9.0%	7.9% 7.9%	9.1% 9.1%	7.0% 7.0%	7.4% 7.4%	9.7% 9.7%	10.5% 10.5%			n Shr. Eq n Gom Ec	- 1	11.5 11.5
ARKET CAP: \$1.8 billion (Mid C		loa No	3.8%	3.8%	3.0% 66%	2.3% 71%	3,4% 62%	3.4% 56%	4.1% 55%	2.0% 71%	2.4% 68%	4.7% 51%	5.5% 49%			i to Cam E s to Net P		5.5 54
URRENT POSITION 2015 (\$NILL.) gain Assels	2016 12 25,5	94.8	61% BUSINI	60% ESS: Cal	fornia W										i	Allilles (S		
ther 118.8	116.6	133.1 227.9	nonregi	itated wa	aler serv	ice to 4	84,900 6	ustomer	s in 100	com-						s, 19%; dir. own		
ccls Pavable 66,4	77.8 123.3	94.0 291.0	custome	ers. Also	operates eas: San	in Wash	inglon, N	lew Max	co, and h	ławali.						Pres. an First St.,		
ther 41.9	49.1	106,0 491.0	Salinas	Valley,	sas, can San Joa	quin Vall	ey & pa	rts of Lo	s Angele	os, Ac-	95112-4	598. Tel.:	408-367	-8200, In	ilernet: w	ww.calwa	atergroup	o.con
			Shar		f Ca ave						pales	in co	mpar	ison t isn't l	to 201 ikely	l7's n to be	otable a cata	e: e:
change (per sh) 10 Yrs. 5 Yr	Est'd '16 s. to '2	11 '23	their	r eler	rated	nric	e กกใ	int. I	ndeed	. in-	for ne	ar-ter	m sto	ick pri	ice gro	owth.		
evenues 4.0% 1. Cash Flow 5.5% 3.0 arnings 4.5% 4.0	5% 2 5% 4 0% 9	.5% .5% .5%	fwn '	vears.	seem	ingly	appla	udine	the	com-	Cost	of Ca	ıpital	filin	gisa	on th Iso a	conc	eri
ividends 2.0% 2.	5% 6 0% 3	.6% .0%	nany	's fin:	ancial	nrog	ress.	The e	eguity	ap-	Califo	rnia	Water	antic	zipate:	s a hi curre	gn ra	te (
cal QUARTERLY REVENUES (\$	m ,}E	Full	înis	vear	Gust	about	\$46	per s	hare).	but	condi	tions,	inves	tmen	ts to	upgra	ade w	/ate
ndar Mar.31 Jun.30 Sep.30 015 122.0 144.4 183.5	138.5	Year 588.4	most	1.5%	în val	īie sir	ice ou	r last	revie	w. A	There	e is so	me a	mbigu	ity or	olts o	Califo	rn:
016 121.7 152.4 184.3 017 122.1 171.1 211.7	151.0 162.0	609.4 666.9	comb	inatio	n of	gene	ral s	elling	pres	sure	Publi	c Util	ities (Comm	ission	i's dec act th	islon,	ar.
018 130 175 215	165 170	685 705	tively	stre	tched	valua	tion (forwa	rd-loo	king	abilit	y to r	ecove	r costa	s or p	ass a	long a	າຮຣ
019 135 180 220 		Full	Marc	h inte	jump erim),	likely	fuele	d the	pullba	ick.	On	а ро	Sitiv	e no	ite, 🤄	the ·	comp	an
idar Mar.31 Jun.30 Sep.30		Year .94	This	issue	ano I	onger	stan	ids ot	it for	the	boost	ted it 6. to	s qua \$0.18	arterl 75 ne	ly div er sha	ziden are. A	d pay t pres	/ot sen
016 d.02 .24 .48	.31	1.01	Ĭowei	red tv	vo no	tches	for T	imeli	ness,	to 4	the a	nnual	yield	is ab	out ev	zen wi	th th	at ·
017 .02 .39 .70 018 .08 .42 .72	.29	1.40	Ťon-	and	rage). bot	tom-li	ine g	growt	h is	ex-	Value	Line	Inves.	tment	Surve	stocks ey:		
019 .11 .45 .74 Gai- Quarterly Dividends Pa	.35 ⊾adu	1,65 Full	nect	ed to	mod	erate	in 2	018.	No do	oubt.	We r	ecom	meno	i tur	ning	the risks	page, in re	fc gai
dar Mar.31 Jun.30 Sep.30	Dec.31	Year	rate	case	decisi	on ou	ght, to	o sup	port 1	eve-	to the	: Cost	of Ca	apital	filing	are r	ather	αı
014 .1625 .1625 .1625 015 .1675 .1675 .1675	.1625 .1675	.65 .67	wate	r mror	luction	ก. ภทด	i Inte	rest c	osts c	ould	declin	ie. Ca	litorn	ia Wa	iter si	he rec tock o	irers	SU
016 .1725 .1725 .1725	.1725	.69 .72	he a	drag	g on our	the b	otton	ı line	. We	are	par c	apital	appr	eciatio	n po	tential	lover	tŀ
017 .18 .18 .18 018 .1875		"," _	and	\$1.55	shar	re-net	forec	ast.	Still,	this	Niche	las P.	Patri	lkis		April	13, 2	201
Basic EPS, Excl. nonrecurring g			Aug., an	d Nov. ≅	Div'd reir	vestmen	t plan {	D) in mill El Exclu	ions, adji tes non-r	usted for eq. rev	splits.		Con	pany's F k's Price	inancial Stabilit	l Strongtl Y	h	B++ 80
, 4¢; *11, 4¢. Next earnings repor y. Dividends historically paid in late		(C) I	ncl. intan	gible assı	els. In '17	: \$24.8 :		-1 -voine	NOTE 1	-gv			Pric	e Growth fings Pre	i Persist	ence		35 65
Olymonos historicany pard in fact 1918 Vakre Linc, Inc. All rights rese PUBLISHER IS NOT RESPONSIBLE	erabig Doma Earli	iotem le	al is obta	ned from	sources b	elieved to	be reliab	ie and is	provided	without w	airanties o	l any kina				1-800-1	ini lici	1.61

P 2018 Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without warranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR CAMISSIONS HEREIN. This publication is suicity for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product.

1 (p. 1 - 1 oc. c		RECENT PRICE	61.2	7 RÃT(32.8	0 Z [37.5	ng: 28.7 an: 20.0 39.9	RELATIV PJE RATI 58.3	65.0	O DIVID YLD 62.3	1.5	% VAL-	et Price	Ran
MELINESS — Suspended 3/33/18 High: 25.6 Low: 22.4 JEETY 3 Row 1/18/13 LEGENDS	<u>4 19.3 1</u> 7.	4 27.9 3 20.0	29.1 23,3	26.2	27.8	31.0	33.2	37.5	50,8	48.9			2022	
CHNICAL — Suspended 3/23/18	dends p sh Interest Kate ice Strength													10 80
TA .65 (1.00 = Market) Options: Yes Shaded area indix				^				اسال	itti [tt]nl	1 7 7 7 7 7				164
						11645144 <u>[]</u>)112[43][1])					1	37
и 65 (+5%) 4% и 45 (-25%) -4% ащинически		ուրդով ներ	յ ^{ւնթությ} յ	il ¹⁴ licitt	114111111								_	
JJASURDJI		······································	.t """	*******				·	********	, <u>.</u>		· · - · · ·		+10 +12
iny 000000000000000000000000000000000000			7,1,1,1			· Ispealal	3749314					% TOT, REYL	I IRN 3/18	_8
stitutional Decisions 202817 302817 402817 Percent 12								ļ		<u> </u>		1635 STOCK 1 yr. 16.4	VL ARITH.* INDEX 9.7	_
hm 55 54 53 100000 12		 										3 yr. 79.1 5 yr. 136.5	24.3 68.8	F
\$(00) 6289 6356 5642 002 2003 2004 2005 2006 2007	2008 2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	©VALUELINE		
5,77 5,91 6,04 5,81 5,68 7,05 1,78 1,89 1,91 1,62 1,52 1,90			7,93 2.11	9.47 2.64	8.29 2.63	8,45 2.97	8.58 3.18	8.77 3.31	8,87 3.58	9.45 3,80	9.95 3,90	Revenues per s "Gash Flow" pe	rsh	12 4.
1.12 1.15 1.16 .88 .81 1.05	1.11 1.19	1,13	1.13	1.53 .96	1.66 .98	1.92 1.01	2.04 1.05	2,08 1,12	2.13 1.18	2.30 1.24		Earnings per sh Div'd Deci'd per		2
1.98 1.49 1.58 1.96 1.96 2.24	2.44 3.20	3.06	2.61	2.79	3.02	4.11	4.29	5,93	4.50 24.32	4.45 24.70		Cap'l Spending Book Value per	per sh	3 26
0.06 10.46 10.94 11.52 11.60 11.95 7,94 7.97 8.04 8.17 8.27 8.38			13.50 8.76	20,95 8.85	17,92 11,04	18.83 11.12	20.01 11.19	20.98 11.25	12.07	12.15	12,25	Common Shs O	utst'g ^C	12
24.3 23.5 22.9 28.6 29.0 23.0 4.33 1.34 1.21 1.52 1.57 1.22			23.0 1.44	19.4 1.23	18.4 1.03	17.5 .92	17.6 .89	23,3 1,22	26.5 1.32	Bold fige Value	Line	Avg Ann'i P/E R Relative P/E Rat		1
0% 3.0% 3.1% 3.4% 3.6% 3.6%	3.6% 4.1%	3.9%	3.6%	3.2%	3.2%	3.0%	2.9%	2.3%	2.1%	estim		Avg Ann'i Div'd		2,
PITAL STRUCTURE as of 12/31/17 al Debt \$259.6 mill. Due in 5 Yrs \$6.2 mill.	61.3 59.4 9.4 10.2		69.4 9.9	83.8 13.6	91.5 18.3	94.0 21.3	96.0 22.8	98.7 23.4	107.1 25.7	115 28.0	29,5	Revenues (\$mill Net Profit (\$mill		Į.
Debt \$253.4 mill. LT Interest \$9.0 mill. (46% of Cap'l)	27.2% 19.5% 1.7%		41.3%	32.0% 1.7%	28.0% 2.0%	14.4% 2.4%	3,5% 2,3%	9.9% 5.1%	19.0% 3.0%	20.0% 3.0%		Income Tax Rate AFUDC % to Net		21. 2.
ses, Uncapitalized: Annual rentals \$.3 mill.	46.9% 50.6%		53.2%	49.0%	46,9%	45.7%	44.1%	45.4%	46.3%	46.5%	45.5%	Long-Term Debt	Ratio	45. 55.
nslon Assets-12/16 \$73.1 mill. Oblig, \$88.6 mill.	52.7% 49.1% 196.5 221.3		46.5% 254.2	50.8% 364.6	52,9% 373,6	54.1% 386.8	55.7% 402.4	54.4% 433.8	53.7% 547.0	53.5% 560	580	Common Equity Total Capital (\$8		(
I Stock \$0.8 mill. Pfd Divd NMF	302.3 325.2 5.9% 5.5%	3	362.4 4.9%	447.9 4.8%	471.9 5.9%	506.9 6.4%	546.3 6.5%	601.4 6.3%	697.7 5.5%	700 5.5%		Net Plant (\$mill) Return on Total	Cap'l	6.
mmon Stock 12,065,016 shs.	9.0% 9.3%	8.6%	8.3%	7.3%	9.2%	10.1%	10.1%	9.9% 9.9%	8.8% 8.8%	9.5% 9.5%		Return on Shr. E Return on Com		11.
RKET CAP: \$750 million (Small Cap)	9.1% 9,4% 1.9% 2,3%		8.3% 1.4%	7.3% 2.8%	9.2% 3.8%	10.2% 4.8%	10.1% 4.9%	4.6%	3,9%	4.5%	4.5%	Retained to Con	Eq	5,
RRENT POSITION 2015 2016 12/31/17 (SMILL.)	79% 76% BUSINESS; C		83%	62%	59%	53%	52%	54% January	2012	54% Biddefor		All Div'ds to Net Saco Water, D		201
sh Assets .7 1.6 3.6 counts Receivable 11.0 13.0 15.0	holding compa	anv. whose	e Income	is deriv	ed from	earnings	of its	Heritage	Village,	February	, 2017, 1	inc.; Conn., Has e Officer; Eric W	294 emp	loye
is 3 14.8 17.1		SUDSIGIBLY	msymus theewar	erived fro	ialeo wa om these	activitie:	s, Pro-	ficers as	nd directi	ors own	2,5% of	the common s 93 West Main S	tock; Blac	жRо
ner 15.3 14.8 17.1 rrent Assets 27.0 29.4 35.7	wholly-owned 2017, 95% of	net sicus	FA 000		A surelai	adalaa ii					uui Gaar i	i, Internet; www.	twater.co	nı.
ner 15.3 14.8 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17	2017, 95% of vides water se out Connection	rvices to 4 at and Mai	50,000 pe ne. Acqui	red The	0 munici Maine V	oalities th Valer Cor	npany,	06413.	Telephon	e: (860) (369-8636	i litteritor, mini-		-
ner 15.3 14.8 17.1 (rent Assets 27.0 29.4 35.7 (st Payable 11.9 13.1 11.3 bt Due 2.8 4.9 6.2 ner 22.2 37.1 24.0 (rrent Llab. 36.9 55.1 41.5	2017, 95% of vides water se out Connection	rvices to 4 at and Mai icut W	50,000 pe ne. Acqui /ater \$	red The Servi	0 munici Maine W ce ha	palities th later Cor s agr	npany, eed	06413.	felephon holde	e: (860) (r appi	oval.		nnect	
eer 15.3 14.8 17.1 greet Assels 27.0 29.4 35.7 cts Payable 11.9 13.1 11.3 bit Due 2.8 4.9 6.2 ser 22.2 37.1 24.0 greent Llab. 36.9 55.1 41.5 NUAL RATES Past Est'd '14.4'16 hange (per sh) 10 Yrs. 5 Yrs. 10 '21.2'23	2017, 95% of vides water se out Connection Connect to a d Group.	wices to 4 at and Mai icut W efiniti Specifi	50,000 pe ne. Acqui later (ve 11 cally,	red The Service serge the	0 munici Maina W ce ha r wi all-sto	oalities th later Cor s agr th S ock d	npany, eed SJW eal,	share In deliv	holde the ered	e: (860) 6 r appi me impr	roval. eantii essiv	me, Co ve revenu	nnect e gro	icu wt
rer 15.3 14.8 17.1 rerent Assets 27.0 29.4 35.7 tts Payable 11.9 13.1 11.3 bt Due 2.8 4.9 6.2 ter 22.2 37.1 24.0 rerent Llab. 36.9 55.1 41.5 https://doi.org/10.1001/1	2017, 95% of vides water se out Connectlor to a d Group. carrying lion. ent:	wices to 4 icut W efiniti Specifi an en itles C	50,000 ps ne. Acqui later (ve in cally, terprise CTWS	Services The Servi	0 munici Maina W ce ha r wi all-sto ue of cholde	palities the later Cores agreeth State of the state of th	eed JW eal, bil- re-	share In deliv to co line l	relephone the the rered onclude naul o	e: (860) (r appi me impr de 20 f nea	roval. eantin essiv 17. It	me, Co ve revenu s fourth-qu 25 million	nnect e gro iarter bested	icu wt
rerr Assets 27.0 29.4 35.7 ts Payable 11.9 13.1 11.3 bt Due 2.8 4.9 6.2 ter 22.2 37.1 24.0 rrent Liab. Past hange (per sh) 10 Yrs. 5 Yrs. 10 '21-'23 venues 4.0% 3.0% 5.5% tends 12.0% 5.5% tends 2.5% 3.0% 5.5%	2017, 95% of vides water se out Connection Connect to a d Group. carrying lion, enticeive 1.13 stock (va	rices to 4 it and Mai icut W efiniti Specifi an en itles C 375 sha lued a	50,000 pane. Acquiver to the state of the st	Services The Services the Serval Share SJW 62) for	o municipal muni	sallies the later Corse agree the Sock of \$2.6 ars to common share	eed JW eal, bil- re- mon	share In delive to co- line if \$23.8 from	colephone the the ered nclue aul o millie the p	r appi me impr de 20 f nea on cal reviou	roval. eantin essiv 17. It rly \$2 I, and is-yea	me, Co re revenu s fourth-qu 25 million I rose more ir tally. Th	nnect e gro ıarter bested e than le jum	icu wt toj ou 15
rent Assets 27.0 29.4 35.7 ts Payable 11.9 13.1 11.3 bt Due 2.8 4.9 6.2 ter 22.2 37.1 24.0 rent Liab. 36.9 55.1 41.5 hange (per sh) 10 Yrs. 5 Yrs. to '21-'23 venues 4.0% 3.0% 6.0% sidends 2.5% 3.0% 6.5% fidends 2.5% 3.0% 6.5% kt Value 6.0% 9.0% 4.5% bt.	2017, 95% of vides water se out Connectlet to a d Group. carrying lion, enticeive 1.13 stock (va CTWS he	rices to 4 at and Mai icut W efiniti Specifi an en ities C 375 sha lued ar eld, Ef	50,000 pane. Acquirent Acq	Service The service value of SJW 52) for SJW 52, SJ	o municipal muni	s agress the sagress agress the sagress to come a share roup	eed JW eal, bil- re- mon e of will	share In delive to colline I \$23.8 from rever	clephone the rered onclude naul of million the pages of the account	e: (860) (e r appi me impr de 20 f nea on cal reviou can be	roval. eantin essiv 17. It rly \$2 I, and us-yea e attr ons	me, Coverevenues fourth-quest million la rose more tally. The tally to find the first many tally to find the first many tally.	nnect e gro farter bested than e jum relati	icu wt toj 15 p i ivel
err 15.3 14.8 17.1 trent Assets 27.0 29.4 35.7 ts Payable 11.9 13.1 11.3 ht Due 2.8 4.9 6.2 ter 22.2 37.1 24.0 trent Liab. 36.9 55.1 41.5 https://doi.org/10.1001/10.	2017, 95% of vides water se out Connectlor Connect to a d Group. carrying lion, enticeive 1.13 stock (va CTWS he own 60% owning the context of the context	rvices to 4 at and Mal icut W efiniti Specifi an en itles C 375 sha lued ar eld. Ef of the he rem	50,000 pe ne. Acquir ve ix cally, terprise TWS ures of t \$59.0 fective busing	Service Servic	0 municipal Mains Mains Mains Marchart Mains Marchart Mains Marchart Mains Mai	sagrites the sagrith s	npany, eed bJW eal, bil- re- mon e of will icut Eric	share In delive to colline I \$23.8 from rever recen Wate	holde the rered naul o millio the p ues o t acc	r appi me impr de 20 f nea on cal reviou an b juisiti the	roval. eantin essiv 17. It rly \$2 I, and us-yea e attu ons o	me, Cover revenues fourth-question large more repaired to the contract of the contract of Heritage Water Cours of Heritage Water Cours en Heritage water en	nnect e gro farter bested than le jum relati ge Vil	icu wt toj ou 15 p i ivel lag
rent Assets 27.0 29.4 35.7 its Payable 11.9 13.1 11.3 bit Due 2.8 4.9 6.2 ieue 22.2 37.1 24.0 its Payable 11.9 13.1 11.3 its Payable 12.8 4.9 6.2 ieue 22.2 37.1 24.0 its Payable 10.1 5.5 ieu 21.2 ieue 10.1 5.5 ie	2017, 95% of vides water se out Connectlor to a d Group. carrying lion, ent. ceive 1.13 stock (va CTWS he own 60% owning the W. Thorn dent. and	vices to 4 st and Mailicut Wefiniti Specifi an en titles C 875 shallued a teld, Effort for the material of the material tree.	50,000 pane. Acquirence Acquirenc	Service Service the service share SJW 52) for service share start share start share	o municipal Mains We had read all-store of cholder Group reach IW Gith Co. How airma	pailles librater Corners agri- s agri- th Sack d \$2.6 rs to com- n shar roup onnect ever, lan, pr be at	eed BJW leal, bil-re-mon re of will licut Eric resi-the	share In delive to colline I \$23.8 from reven recen Water well struc	diephonic the rect on cluck mall of million the page of and as costure	r appi me impr de 20 f nea on cal revious an be juisiti the as t receprojec	roval. canting casiv 17. It rly \$2 I, and us-yea e attu ons overy overy ts ar	me, Cove revenus fourth-quest fourth-quest former tally. The ibuted to for the for completed general general for completed general	nnect e gro parter bested than relati ge Vil npany eted i	icu wt toj 15 p i ive lag lag
rent Assets 27.0 29.4 35.7 21.5 Payable 11.9 13.1 11.3 11.3 11.3 11.3 11.3 11.3	2017, 95% of vides water se out Connecte to a d Group. carrying lion, enticeive 1.13 stock (va CTWS hown 60% owning the W. Thorrident, and lenn. Or company	vices to 4 at and Mailicut Wefiniti Specifian en itiles C 375 shallued at a deld, Eff of the he rem hburg, I CEO are con will se	50,000 pane. Acquirence Acquirenc	Service the terms of the share SJW 52) for the SJW 52, the share s	o munical Mains Wice has refer with all-store of cholde Group reach IW Gith Color How alrmatr, will a newlimatel	palities the later Cores agreed the Speck of \$2.6 are too commented to be a commented by formula to be at lay formula to 1.5	eed SJW eal, bil-re-mon e of will icut Eric the med mil-	share In delive to colline I \$23.8 from rever recen Wate well struc creas mode	relephonic the rered on cluster auli of million the pures of and as costure es. First top	r appropriate (860) or appropriate 20 of real projection of the control of the co	roval. cantin ressiv 17. It riy \$2 I, and Is-yea e attr ons (Avon overy ts ar 018, (grow	me, Cover revenues fourth-questions fourth-questions for tally. The ributed toof Heritag Water Complon for complond generations model th, to \$11	nnect e gro sarter bested t than relati ge Vil npany eted i rate forec 5 mil	icu wt to to 15 p i ve lag lag a fra in cast
ner	2017, 95% of vides water se out Connecte to a d Group. carrying lion, ent ceive 1.15 stock (va CTWS he own 60% owning to the the company lion cust Connected	vices to 4 st and Mailicut Wefiniti Specifi an en ittles C875 shallued at eld. Effort for the ne remburg, I CEO ace con will se omers cut, an	50,000 pene. Acquire for Acqui	Service the service the service share SJW (32) for services, we service the service that th	o municial Mains We had no will-store of eholde Group reach IW Gith Co. How airmar, will note in matel ifornianual	palities the later Cors agrath Sack d \$2.6 as to common share roup be at lay for your 1.5 a. Ter rever	eed SJW leal, bil-re-mon re of will cicut Eric the med mil-xas, nues	share In delive to colline if \$23.8 free recen Water well structures model while	relephonic holde the rered onclude haul o million the pulse of and as costure es. First our ext years our ext years.	r appi impride 20 f neadon cal revious an be juisitiful the st recoproject or 20 beline intro-	roval. canting cessiv 17. It rly \$2 I, and us-yea e attr ons (Avon overy tts ar 018, (grow ductor xclusi	me, Core revenues fourth-quest more results. The control of the conference of the complete for complete for complete for the court model of the control of the control of the conference of the control of the control of the conference of the control of the contro	nnect e gro farter bested than relati ge Vil npany eted if forec 5 mil e estir	icu wt top i ou 15 p i leg lag in assi lion mate men
rent Assels 27.0 29.4 35.7 21.5 Payable 11.9 13.1 11.3 bt Due 2.8 4.9 6.2 ter 22.2 37.1 24.0 36.9 55.1 41.5 NUAL RATES Past bange (per sh) 10 Yrs. 5 Yrs. 10 '21-'23 venues 4.0% 3.0% 6.0% 3.0% 6.0% 3.0h 6.0h 3.0h 3.0h 3.0h 3.0h 3.0h 3.0h 3.0h 3	2017, 95% of vides water se out Connectito a d Group. carrying lion, ent. ceive 1.13 stock (va CTWS he own 60% owning the W. Thorn dent, and helm. Or company lion cust Connectic are experients of vides with the connectic are experients of the connectic are experients.	rvices to 4 at and Malicut Wefiniti Specifican en titles C 375 sha lued ar eld, Ef of the he rem hburg, I CEO uce con will se omers cut, an cted to	50,000 pene. Acquirence for the cally, terprise TWS ares of t. \$59.0 fective busine anining currer of the poletective apacros d Mair be in be in the control of the control of the carres of the carre	Gervious Control of the share	o municial Mains When the Mains When the Mains When the Mains Main	palities the state of the state	eed SJW eal, bil-re-mon re of will cicut Eric reshe med mil-suas, nues	share In delive to colline if \$23.8 from rever recen Water well structoreas mode while for ne	recombined the recombined the procluse to accordance to ac	r appi me impride 20 f nea previous an be puisitiful the ast recorded or 20 orline introduced (ger) or	roval. cantineessiv 17. It rly \$2 I, and us-yea e attr ons (Avon overy ts ar 018, (grow ductor xclusi omes	me, Cove revenus fourth-quest fourth-quest for tally. The ibuted to of Heritag Wester Corfor compled genera our model th, to \$11 cy revenue of the in at \$122	nnect e gro farter bested t than relati ge Vil npany eted if forec 5 mil e estir abover	icu wt top i ot 15 p i lag ir ast lior mat mer n.
rern Assets 27.0 29.4 35.7 21.5 Payable 11.9 13.1 11.3 bit Due 2.8 4.9 6.2 rern Liab. 36.9 55.1 41.5 rer 22.2 37.1 24.0 from Liab. 10 fors. 57.5 for 21.2 for 21.5 fo	2017, 95% of vides waters out Connected to a d Group. carrying lion, entroise 1.13 stock (va CTWS howning to w. Thorn dent, and helm. Or company lion cust Connected are experimillion. In assured to a source out to source to the connected are experiments.	vices to 4 st and Mailicut Wefiniti Specifi an en en itles Ca75 sha lued a leid. Effort he remailier con will se omers out, an addition addition addition additional control and the control and the control additional control and the control additional control and the con	50,000 pene. Acquired to the cally, terprise TWS tres of the string curred the curred th	Gervice the service of the service shares SJW 62) for the latter of the proxiss Calme. Another the	o municipal Malor Malor Malor Mirate Malor Mirate M	saliles libater Corsis agriculta Sagrith Sacra to a comma shar roup manect ever, I be at the sagrith of \$1.5 a. Tever revers rev	eed SJW eal, bil-re-mon re of will icut Eric the med mil-xas, nues \$500 rave im-	share In delive for colorer well structure while for n tioner Aggreta to to	relephonic the rection auli or million the rection auli or million the rection auch accordance for and as cost ture est yed men essive eersis	r appi me impr de 20 f nea on cal reviou can b juisiti the st reco project or 20 o-line intro ear (e ger) co e cap t on	reval. ressiv 17. It rly \$2 I, and us-yea e attu ons o Avon overy ts ar olfs, o grow ductor xclusi omes oital its	me, Core revenue se fourth-que to se fur tally. The ributed to for complete to the for complete to the total series of the tall series of the tall series of the in at \$122 investme normal	nnect e gro farter bested e than te jum relati ge Vil npany eted i l rate forec 5 mil e estir abover millio nnt ot sched	icu wt top i ou i ou jo p i ou lag lag in cast lion men men n. ugh
rernt Assels 27.0 29.4 35.7 215 Payable 11.9 13.1 11.3 bt Due 2.8 4.9 6.2 ter 2.22 37.1 24.0 36.9 55.1 41.5 NUAL RATES Past Past Est'd '14.16 hange (per sh) 10 Yrs. 5 Yrs. 10 '21.123 venues 4.0% 3.0% 6.0% 3.0% 6.0% 3.0h 6.0h 7.0h 3.0h 7.0h 7.0h 7.0h 7.0h 7.0h 7.0h 7.0h 7	2017, 95% of vides water so out Connection and Group. carrying lion, entreived 1.13 stock (va CTWS he own 60% owning the company lion cust Connectic are experimillion. I assured optement is a noni	rices to 4 at and Malicut Wefiniti Specifican en titles Carron en titles C	50,000 pene. Acquire Acquire Street IX cally, terprise TWS tres of the busine aining currer of the applete across de Mair tion, the street than the street are across de Mair the process of the street than the street are across de Mair than the street are across de Mair than the street are across de Mair treet are across de Mair treet are across de mair treet are across de mair a	Service the service the service SJW 52) for service share services, we can be compared to the services of the	o municipal muni	saliles libates capelles libates for sagrates to share comments of share coup in the sagrates of sagrates capelles for sagrates capelles capelles for sagrates capelles for sagrates capelles	eed bil- re- mon re of will icut Eric resi- the med mil- xas, nues 500 nave im- This nost	share In deliver to per community to per	holde the rered nclude naul of million the pages of the p	r appropriate (860) 6 r appropriate 20 f neadon calcrevious and bequisition of the control of the control of the control of the control of \$60 f	roval. cantinessiv 17. It 17. It 17. It 18.	me, Core revenues fourth-quest more results. The control of Heritage Water Confor complete generation model the state of the interference of the i	nnect e gro arter bested than relati ge Vil nnpany eted i i rate forec 5 mil e estir abover millio nt ot sched C7's sp	icu wt top localiste privel lag in locast lion met met met met met met met met met met
ner rent Assels 27.0 29.4 35.7 215 Payable 11.9 13.1 11.3 bt Due 2.8 4.9 6.2 ter 22.2 37.1 24.0 36.9 55.1 41.5 NUAL RATES Past Past Est'd '14.16 hange (per sh) 10 yrs. 5 yrs. 10 '21.123 venuos 4.0% 3.0% 6.	2017, 95% of vides water se out Connection and Group. carrying lion, enticeive 1.13 stock (va CTWS he own 60% owning till W. Thorn dent, and helm. Or company lion cust Connecticare experillion, is a nonirecent racember (a	vices to 4 at and Mailicut Wefiniti Specifi an en ittles C 375 shallued a leid. Eff of the ne remailired to madding an immassue for the cap and the second will second an immassue for adding the appadding adding a specific and second an adding a specific and adding add	50,000 pene. Acquired to the fact ive soft the control of the cont	service of the servic	o municipal muni	saliles libaler Corsis agricultus Sagricultus Sagricul	eed JW re-mon re of will icut Eric resi-the med mil-xas, nues \$500 rave im-This nost of its	share In delivery for colline is \$23.8 from revery recember well structures mode while for notioned Aggreta prima dated	dephonomental dephonoment of the policy of t	r (660) 6 r appropriate 20 f nead on call revious can be call the street core introduced for call of the car (example core car (example co	roval. cantinessive 17. It 18.	me, Core revenue so fourth-que tally. The tally water Core for complete the tally revenue we of the in at \$122 investme normal mirror 20 illing. The main upgral mains, a	nnect e gro arter bested than e jum relati ge Vil npany eted in forec 5 mil e estin abover million to sched 17's sp compa ading nd ger	icu wt top tot 15 p i 15 p i 15 lag lion men n. gh lulio ency ou ou
ner	2017, 95% of vides water second connected to a d Group. carrying lion, entreview 1.13 stock (va CTWS he would dent, and helm. Or company lion cust Connected are experiently assured oplement is a noni recent racember (a too line).	vices to 4 st and Mailicut Wefiniti Specifi an en en itles Ca75 sha lued a elid. Effort he remailier con will second to maddinate in maddinate for the entered to maddinate for the entered f	50,000 pene. Acquirate for Acq	red The Service the see value share SJW 52) for SJW, SJW, SJW, 40%. Int child the sees, we then the two took million on the	o municipal muni	saliles libater Corsis agricultus Sagricultus Sagricul	eed JW re-mon re of will icut Eric rest- the mil- xas, nues 5500 re- lim- limber limbe	share In delivery for color of the last structure well structure while for notioned Aggreta prima dated in prima dated in prima dated in prima dated in prima share share share share in prima share in p	displaying the following the paul of million the paul of million the paul of t	r (660) 6 r appropriate 20 r appropriate	roval. cantingesive 17. It 17. It 17. It 18.	me, Core revenues fourth-quest more results. The control of the complete for the control of the control of the formal formal formal of the control o	nnect e gro arter bested t than relati ge Vil npany eted li rate forec 5 mil e estin abover millio nt ot sched 17's sp compa ading nt plan r are	icuwt top top tot top tot top tot tot tot to
ner rent Assels 27.0 29.4 35.7 cts Payable 11.9 13.1 11.3 bt Due 2.8 4.9 6.2 reer 22.2 37.1 24.0 rrent Liab. 36.9 55.1 41.5 NUAL RATES Past hange (per sh) 10 yrs. 5 yrs. to 21.23 sah Flow 6.5% 9.5% 5.0% rrings 8.0% 12.0% 5.5% 6.0% 9.0% 4.5% 6.0% 9.0% 9.0% 4.5% 6.0% 9.0% 4.5% 6.0% 9.0% 9.0% 4.5% 6.0% 9.0% 9.0% 4.5% 6.0% 9.0% 9.0% 4.5% 6.0% 9.0% 9.0% 4.5% 6.0% 9.0% 9.0% 4.5% 6.0% 9.0% 9.0% 4.5% 6.0% 9.0% 9.0% 9.0% 4.5% 6.0% 9.0% 9.0% 9.0% 9.0% 4.5% 6.0% 9.0% 9.0% 9.0% 9.0% 9.0% 9.0% 9.0% 9	2017, 95% of vides water second Connection and Group. carrying lion, ent. ceive 1.13 stock (va CTWS he own 60% owning the company lion cust Connectic are experiently assured oplement is a nonirecent racember (a top line), periodic reards for	vices to 4 at and Malicut Wefiniti Specifican en titles C \$75 sha lued ar teld, Eff of the he rem hburg, I CEO note con will se omers cut, an cted to n addi ustome assue fa teld app adding Furth eate hil the co	50,000 pene. Acquired for the standard for the cally, terprise the standard for the cally across of the capital for the standard for the form of the capital for the form of the form of the standard for the form of the standard for the form of the	red The Service Service the service share SJW 562) for Sty, S. Sees, 40%, at the proxist Calmett the service rate took millioners the per ud entited and entited took of the service s	o municipal muni	sailles libales considered as a gradual state of \$2.6 as to to the state of \$1.5 as a rever of \$1.5 as to the state of \$1.5 as	eed JW eal, bil-re-mon ee of the cut Eric resi-the med mil-xas, nues 500 nave im-project in the the the	share In delivery for color of the last structure well structure while for notioner Aggreta prima dated improved the prima dated improved the share of the last structure while for notioner to prima dated improved the last share rank	receiphonic the rered on clude on the paul of million the pauls of the	r (660) 6 r appropriate 20 r appropriate	roval. cantinessive 17. It ressive 17. It ressive 17. It ressive 18. Avon 20 grow 20 g	me, Core revenue so fourth-que tally. The tally water Core for complete the tally revenue we of the in at \$122 investme normal mirror 20 illing. The main upgral mains, a	nnect e gro arter bested t than relati ge Vil npany eted li rate forec 5 mil e estin abover millio nt ot sched 17's sp compa ading nt plan r are	icuxt top top top top top top top top top to
nerr ment Assets 27.0 29.4 35.7 cts Payable 11.9 13.1 11.3 bt Due 2.8 4.9 62 rer 22.2 37.1 24.0 remt Liab. 36.9 55.1 41.5 mrent Liab. 37.0 4.6 5% 3.0 6.0 6.0 6.0 9.6 5.5 6.0 6.0 9.6 5.0 6.0 9.6 5.0 6.0 9.6 5.0 6.0 9.6 5.0 9.6 5.0 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6	2017, 95% of vides water so out Connectic to a d Group. carrying lion, ent. ceive 1.13 stock (va CTWS he own 60% owning to the lim. Or company lion cust Connectic are experiillion. I assured oplement is a noni recent racember (a top line). periodic reards for	vices to 4 at and Malicut Wefiniti Specific an en itles Corrected to the c	50,000 pene. Acquired to the cally, terprise TWS tres of the same aining curred aining across decreased Main be interested to the cally. The component of the care downward \$1.5 mer downward \$1.5 mer downward to the care	red The Service Service the service share SJW 62) for Sly, Swess, 40%. It chapters a Calmer the per unit they per unit they per unit of chosen colors.	o municipal muni	sallies libaler Sagrifich	eed JW eal, re-mon re of will icut Eric resi-the mil-xas, nues \$500 nave im-otto De-otts hink a the the id of	share In deliver to colline I \$23.8 from rever recens water well structures mode while for nettone. Aggreto prima dated impression share rank pende pe	displaying the following the paul of million the paul of million the paul of t	r (660) 6 r appropriate 200 r appropriate 200 f nead on call revious and building the call the call for call for a call f	roval. cantinessiv 17. It 17. It 17. It 18.	me, Core revenues fourth-quest more results. The control of Heritag Water Confor complete generation model that to \$11 mirror 20 investme normal mirror 20 illion. The main upgrainess due reess due ness due revenues due to the control of the contr	nnect e gro arter bested t than relati ge Vil npany eted li rate forec 5 mil e estin abover millio nt ot sched 17's sp compa ading nt plan r are	icultudi de la contra del contra de la contra del contra de la contra de la contra de la contra del
ner	2017, 95% of vides water second Connection and Group. carrying lion, entreview 1.13 stock (va CTWS he own 60% owning the company lion cust Connection are experiently assured to plement is a nonirecent racember (a fop line), periodic rards for transaction this year.	vices to 4 at and Malicut Wefiniti Specific an entitles Comments It and Entitle Comments It ce c	50,000 pene. Acquired to the cally, terprise TWS tres of the same aining curred aining across decreased Main be interested to the cally. The component of the care downward \$1.5 mer downward \$1.5 mer downward to the care	red The Service Service the service share SJW 62) for Sly, Swess, 40%. It chapters a Calmer the per unit they per unit they per unit of chosen colors.	o municipal muni	sallies libaler Sagrifich	eed JW eal, re-mon re of will icut Eric resi-the mil-xas, nues \$500 nave im-otto De-otts hink a the the id of	share In deliver to colline I \$23.8 from rever recens water well structures mode while for nettone. Aggreto prima dated impression share rank pende pe	dephonomental dephonoment of the property of t	r (860) 6 r appropriate (860) 6 r appropriat	roval. cantinessive 17. It 18.	me, Core revenues fourth-quest more results. The control of Heritag Water Confor complete generation model that to \$11 mirror 20 investme normal mirror 20 illion. The main upgrainess due reess due ness due revenues due to the control of the contr	nnect e gro arter bested t than relati ge Vil nnpany eted i i rate forec 5 mil e estin abover millio nt ot sched 7's sp ading nd ger at plan r are e to	icultudi de la contra del contra de la contra del contra de la contra de la contra de la contra del



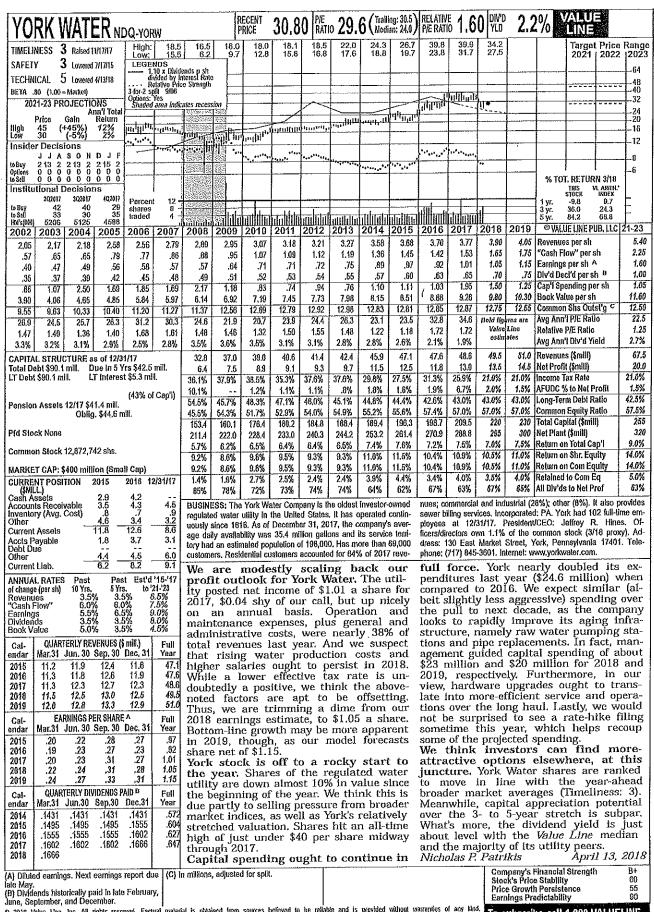
2016 Value Line, Inc. All rights reserved. Factural material is obtained from sources believed to be reliable and is provided without warrantes of any kind, THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printerl, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product.

MIDDLESEX WA	TER	NDQ-	MSEX	R	ECENT RICE	36.5		o 23.	J \ Medi	an: 20.0 /	RELATIV P/E RATI	U I I Ka		2.5	5% Y			
MELINESS 3 Raised 3723/18	High: Low:	20.2 16.8		17.9 11.6	19.3 14.7	19.4 16.5	19.6 17.5	22,5 18.6	23.7 19.1	28.0 21.2	44.5 25.0	46.7 32.2	41.4 34.0			Target 2021		
AFETY 2 New 10/21/11 ECHNICAL 3 Lowered 3/30/18	LEGEN	NDS 20 x Divide vided by b	ends p sh iterest Rate	,					[-							-64
ETA .80 (1.00 = Market)	Options:	eiauve ruc Yes	e srengui								ارزال	ajjini ji	l] ⊕					40
2021-23 PROJECTIONS Ann'l Total		area indic	ales reces	ion j		1111011111)* [[]	"1"						32
Price Gain Relum		LINE LINE	1001000		utletl	11(11(1)[[1	11157161341	,111111	المنطابا	HEALLESE.								1-20
gh 50 (+35%) 10% w 35 (-5%) 2% sider Decisions	.,,,,,			Jalin,								• • • • • • • • • • • • • • • • • • • •			ļ			
JJASONDJE Buy 0000000000		,			*******	*******	*,,,,,,,,,	104,000,00	[.,,,,,,,,,	·,					8
ions 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			900093						,,*,,,,*,	33,44					J I	RETUR	i N 3/18	-6
stitutional Decisions 202017 302017 402017															5	iris v Igek	L ARHH." INDEX	Ľ
102017 302017 402017 10y 60 46 49 11 44 41 36	Percent shares	l 12 -	33 265 30 1.111						- releval			111111				1.6 74,2	9.7 24.3	F
s(000) 9201 9500 8418	1raded 2006	2007	[iii]]] 2008	2009		2011	11111111 2012				2016	2017	2018	2019	5 yr. 1	18.4 LINE PL	68.8 JB, LLC	21-2
02 2003 2004 2005 5.98 6.12 6.25 6.44	6.16	6.50	6.79	6.75	6,60	6,50	6.98	7.19	7.26	7.77	8.16	8.00	8.30	8.50	Revenues	per sh		
i.20 1.15 1.28 1.33	1.33	1,49	1.53 .89	1,40 .72	1,55 ,96	1.46 ,84	1.56 .90	1.72 1.03	1.84 1.13	1.97 1.22	2.17 1.38	2.23 1.38	2,45 1.55	2,55 1,65	"Cash Flo Earnings			
,73 .61 .73 .71 .63 .65 .66 .67	,82 ,68	.87 .69	.70	31	.72	.73	.74	.75	.76	.78	.81	,86	.91	.98	Div'd Dec	'd per si	j Bæ	
.59 1.87 2.54 2.18 .39 7.60 8.02 8.26	2.31 9.52	1.66 10.05	2,12 10.03	1.49 10.33	1.90 11.13	1.50 11.27	1,36 11,48	1.26 11.82	1.40 12.24	1.59 12.74	2,91 13,40	1.80 14.02	2.85 14.85		Cap'i Spe Book Valu			1
36 10.48 11.36 11.58	13.17	13.25	13,40	13.52	15.57	15.70	15.82	15.96	16.12	16.23	16.30	16.35	16.50		Common			1
3.5 30.0 26.4 27.4 .28 1.71 1.39 1.46	22.7 1.23	21.6 1.15	19,8 1,19	21.0 1.40	17.8 1.13	21.7 1.36	20.8 1.32	19,7 1,11	18.5 .97	19.1 .96	25.6 1.34	28.4 1.41	Bold figu Value	Line	Avg Ann'i Relative P		°	
7% 3.5% 3.4% 3.5%	3.7%	3.7%	4.0%	4.7%	4.2%	4.0%	4.0%	3.7%	3.7%	3.3%	2.3%	2.2%	estin	ales	Avg Ann'l	Div'd Yi	eld	2
PITAL STRUCTURE as of 12/3		[1]	0.19	91.2	102.7	102.1	110.4	114.8	117.1 18.4	126.0 20.0	132.9 22.7	130.8 22.6	137 25.5		Revenues Net Profit		ļ	
al Debt \$173,9 mill. Due in 5 Y Debt \$139,0 mill. LT interes			12.2 33.2%	10.0 34.1%	14.3 32.1%	13.4 32.7%	14.4 33.9%	16.6 34.1%	35.0%	34.5%	34.0%	32.0%	21.0%	21.0%	Income Ta	x Rate		21
al Interest coverage: 9.5x) (38% of C	ap'l)		~-	10.001	6.8%	6.1%	3,4% 41,5%	1.9% 40.4%	1.7% 40.5%	1.9% 39.4%	2.7% 37.9%	2.0% 37.5%	2,0% 37.6%		AFUDC % Long-Term			37
sion Assets-12/17 \$69.2 mill.			45.6% 51.8%	46.6% 52.1%	43.1% 55.8%	42.3% 56.6%	57.4%	58.7%	58.8%	59.8%	61.5%	61.8%	62.5%	62.5%	Common I	quity R	alio	62
Oblig. \$85 Stock \$2.4 mill. Pfd Div'd: \$.1			259.4	267.9	310.5	312.5 422.2	316,5 435.2	321,4 446,5	335.8 465.4	345.4 481.9	355.4 517.8	370.6 557.2	390 565		Total Capi Net Plant ()	
·	115.13		366.3 5.8%	376.5 5.0%	405.9 5.7%	5.2%	955.2 5.4%	5.9%	6.3%	6.6%	7.1%	6.8%	7.0%	7.5%	Return on	Total Ca		8
nmon Stock 16,352,000 shs.			8.6%	7.0%	8,1%	7.5%	7.8%	8.7% 8.7%	9.2% 9.3%	9.6% 9.6%	10.3% 10.3%	9.8%	10.5% 10.5%		Return on Return on		- 1	12. 12.
			8.9% 2.0%	7.0%	8.2% 2.1%	7.5%	7.8% 1.4%	2.4%	3.1%	3,5%	4.3%	3.7%	4.5%	4.5%	Retained t	Com E	q	6.
RKET CAP: \$600 million (Sma RRENT POSITION 2015	ll Cap) 2016 12	131117	78%	98%	75%	87%	83%	73%	67%	63%	58%	62%	59%		All Div'ds			
(\$MILL.) sh Assets 3,5	3.9	4.9				Valer Con d water u					nues. Af	12/31/17	7, the co	mpany h	unted for t ad 315 em	ployees	. Incorp	poral
ier 20.9 Trent Assets 24.4	22.8	24.3 29.2				i. It also n behalf									nan: Denni on stock; l			
ds Payable 6.5 of Due 8.7	12.3 18.2	13.9 34.9	NJ and	DE. Its N	<i>l</i> iddlesex	System	provides	water so	rvices to	61,000	Trust Co	., 7.2%	(4/17 pro	xy}, Add	i: 1500 Ro i: www.mic	nson R	oad, Ise	elin,
er 13.1 rent Liab. 28.3	16.6 47.1	15.7 64.5			<u> </u>	ly In Mid ter's				·		alize s				(U)COCAT		21544
	t Est'd	14.16	resu	It wa	s un	chang	ed fo	rom t	he y	ear-	That	said	l, we	are	scalin	ıg b	ack	01
iange (persh) 10 Yrs. 5 Yr venues 2,0% 3,0	s. 107 0% 3 5% 6	21.'23 3.0%	ago	perio v one	d. Therator	e preč deliv	lomin: ered	antly net i	north	east e of	lion,		ear re \$13	event 7 m	ie call illion.	Ti		st
nings 5.0% 8,0	5% 6	1.0% 1.5% 1.0% 1.0%	\$1.38	ĭasĥ	are la	st yea	r, the	same	figur	e as	repre	sents	a not	able	5% an ne, we	nual	ıqıni	rov
dends 1.5% 1.4 k Value 4.0% 3.6	5% <i>5</i> 0% <i>4</i>	1.0%	mode	st \$2.	1 mil	6. Re	ut ma	irgins	impro	oved	our i	ntrodi	uctory	proj	ection	for 2	3019.	. У
QUARTERLY REVENUES (mil.)	Full	fract	lonall	v. thai	nks la dan a	rgely	to low	ær ret	ire-				s to i ver ye	ncrease ar).	e to s	\$14Z	m
ar Mar.31 Jun. 30 Sep. 30 5 28.8 31.7 34.7	30.8	Year 126.0	(wate	er tre	atmer	it and	repa	ir exp	enses	ln-	Subs	tanti	aI car	oital	invest	nieni	t sho	oul
6 30.6 32.7 37.8 7 30.1 33.0 36.2	31.8 31.5	132.9 130.8	creas	ed, y drag	ear o was	ver ye likely	ear). Lattrii	The s buted	light to lo	wer	next	deca	de. T	he co	theme mpany	is er	nbar	kir
8 32.0 34.0 38.0	33.0	137	overa	ıll ave	erage	custon	ner us	sage a	sare	sult	on it	s nev	w pla	n, kn	າວwn ້ອ bovem	ıs "W	Vater	f
9 33.0 36.0 39.0 - Earnings per share	34.0 A	142 Full	the r	egion.		nd inc					increa	ase, p	lus s	avings	s on th	ie in	come	e ta
ar Mar.31 Jun. 30 Sep. 30	Dec. 31	Year	Ther	e ar	e sev	eral e reve	cataly	ysts t	hat s	or					ax rate 00 ml			
5 .22 .31 .41 6 .29 .36 .54	.28 .19	1.22	the l	horiz	on. N	ſiddles	sex re	cently	rece:	ived	next	five y	ears	to a v	variety	of ir	ıfrasi	tru
7 .27 .33 .46 8 .29 .37 .55	.32	1.38 1.55	appro	oval r rate	to in: s by 7	crease ',2% (r	its man	custo: lv \$5.3	ner l i milli	oase lom)	and t	tility	plant	upgra	main ades.			
9 .32 .39 .59	.35	1.65	The i	Initial	filing	(was :	submi	ltted i	n Oct	ober	This	issuc	has	beer	ı raise	d on	e ne	ote
 QUARTERLY DIVIDENDS Part Mar, 31 Jun. 30 Sep. 30 		Fult Year	of las	st yea ad. M	r, and iddles	took ex ex	eHect pande	as of d its	April regula		above	-aver	age	divide	. But a	ield,	M	SE
14 .19 .19 .19	.1925	.76	wate	r cust	omer	base	in De	lawar	e by	over	share	s do	not p	resen	tly sta	nd ou	at fo	r
15 .1925 .1925 .1925	.19875 .21125	.78 .81	4% movi	tast ng in	year, this	and direct	ough Lion.	t to Mean	conti while.	we					g haul. end sta			
IG 1 19875 19875 19875	.22375	.86	think	(New	Jerse	y con	sumpi	tion sl	nould condit	sta-		nes, fo	or nov	V.		_	1 13.	
17 .21125 .21125 .21125							veath	ur 1										20
17 .21125 .21125 .21125 18 .22375		(0.170)	bilize	•	ssumi	_						743 X -			Financial S			B+
7 .21125 .21125 .21125		May,	Dilize Dividenda Aug., an available	: histork d Novem	ally nak	i in mid	-Feb (,, , , , , , , , , , , , , , , , , , ,	Con	npany's l	Financial S e Stability h Persiste	Strength		B+ 7

• 2018 Value Line, Inc. All rights reserved. Facual material is obtained from sources believed to be reliable and is provided valuout warranties of any kind.

THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscribe's own, non-commercial, internal use. No part of it may be reproduced, resent, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product.

SJW GROUP NYS	E-sjw		•		RECENT	52,4	1 PIE RATI	o 17.	4 (Trail Medi	ing: 18,3 an: 21.0	RELATIV P/E RATI	6 0.9	4 DIV'O	2.1	%	/ALUI	1	
MELINESS 3 Raised 6/30/17	High: Low:	43.0 27.7	35.1 20.0	30.4 10.2	28.2 21.6	26.8 20.9	26.9 22.6	30.1 24.5	33.7 25.5	35,7 27.5	56.9 28.6	69.3 45.4	64.6 51.3				Price	
AFETY 3 New 4/22/11	LEGEN	IDS						<u> </u>										1
ECHNICAL 3 Lowered 3/30/18 ETA .70 (1.00 = Market)	divi	ided by In lalive Pric & 3/06	ends p sh Nerest Rate o Strength						ļ								4-445	10
2021-23 PROJECTIONS	Shaded a	es area indic	ales recess	lon		Ĺ,						1,1,11,1,11	ı.	~	ļ			T.4
Ann'i Total Price Gain Return gh 90 (+70%) 16%									. ni	երու	1,11,11,1				ļ			-3
w 60 (+15%) 6%		111			اسروارا أأج	իրուկիր 	+++++++++++	11:[[[][[1]	/11 ₁₂ 6121									12
sider Decisions	,,,,,			<u> </u>	121 " " 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,,,,,,						6,7,07	·.					-1 -1
Buy 000000000000000000000000000000000000			1000000			£-45-4-	} ⁶⁴¹	*********	,.,	٠٠,,,,٠٠.	******				% TO	r retur	N 3/18	[8
stitutional Decisions 202017 302017 402017															1 '	THIS V SYOCK	A. ARITH." INDEX	
Duy 67 74 59 Sell 73 56 67	Percent shares traded	15 - 10 - 5 -		5 (4) 5 (1)				-1,		detre			1		1 yr. 3 yr.	11.2 81.6	9.7 24.3	-
85(00) 10969 12340 11290 002 2003 2004 2005		2007	2008	2009	uullill 2010	11111111111111111111111111111111111111	រវៀវិយល់ 2012	Шини 2013	11111111111111111111111111111111111111		2016		11 2018	2019		123.3 JE LINE PI	66.8 JB. LLC	21-2
7,97 8,20 9,14 9,86	10,35	11.25	12.12	11.68	11.52	12.85	14.01	13.73	15.76	14.97	16.61	18,97	19.05	18,85		s per slı		2
1,55 1,75 1.89 2.21 .78 .91 .87 1.12	2,38 1,19	2.30 1.04	2.44 1.08	2.21 .81	2.38	2.80 1.11	2.97 1.18	2.90 1.12	4.42 2.54	3.86 1,85	4.76 2.57	5.24 2.86	5,25 2,85	5,25 3.00		low" per s ; per sh ^		;
.46 .49 .51 .53	.57	.61	.65	.86	,68	.69	.71	.73	.75	.78	18.	1.04 7.26	1.12 5.50	1.20 5.25		cl'd per s ending pe		
2.06 3.41 2.31 2.83 8.40 9.11 10.11 10.72	3.87 12.48	6.62 12.90	3,79 13,99	3,17 13,66	5.65 13.75	3.75 14.20	5.67 14.71	4.68 15.92	5.02 17.75	5,24 18,83	6.95 20,61	22.57	23.35	23.40	Book Val	lue per sh	۱	2
8.27 18.27 18.27 18.27	18.28	18.36	18.18	18.50	18,55 29.1	18.59 21.2	18.67 20.4	20.17	20.29	20.38 16.6	20.46 15.7	20.52 18.8	21.00 Bold figt	22.00		i Shs Out I P/E Reti		2
17.3 15.4 19.6 19.7 ,94 ,88 1.04 1.05	23.5 1.27	33.4 1.77	26.2 1.58	28.7 1.91	1,85	1.33	1,30	1.37	.59	.84	.82	.93	Value estin	Line	Relative	P/E Ratio	.	
.4% 3.5% 3.0% 2.4%	2.0%	1.7%	2.3%	2.8%	2.8%	2.9%	3.0%	2.7%	2.6%	2.5%	2.0%	1.9%				'i Div'd Yi	eld	
PITAL STRUCTURE as of 12/3 at Debt \$431,1 mill. Due in 5 Y	1/17 /rs \$14.3 r	nill.	220.3 20.2	216.1 15.2	215.6 15.8	239,0 20,9	261,5 22.3	276.9 23.5	319.7 51.8	305.1 37.9	339.7 52.8	389.2 59.2	400 60.0		Revenue Nat Profi			
Debt \$431.1 mill. LT Interes Interest Coverage: 6.5x)	t \$20.0 mil	II.	39.5%	40.4%	38.8%	41.1%	41.1%	38.7%	32.5%	38.1%	38.8% 2.0%	36.7% 1.0%	21.0% 1.5%		income 7		tralit	21
	(48% of	Cap'l)	2.3% 46.0%	2.0% 49.4%	2.0% 53.7%	56.6%	55.0%	51.1%	51.6%	2.0% 49.8%	50.7%	48.2%	48.0%		Long-Ter			41
ses, Uncapitalized: Annual ren	ıtals \$6.7 r	mill.	54,0%	50,6% 499,6	46.3% 550.7	43.4% 607.9	45.0% 610,2	48.9% 656.2	48.4% 744.5	50.2% 764,6	49.3% 855.0	51.8% 894.3	52.0% 940		Common Total Car			52
nsion Assats-12/17 \$133.4 mill.			470.9 684.2	718.5	785.5	756.2	831.6	898.7	963.0	1036.8	1146.4	1239.3	1275	1300	Net Plani	t (\$milli)		
Oblig, \$19 Stock None.	O,2 (()).	-	5.8% 8.0%	4.4% 6.0%	4.3% 6.2%	4.9% 7.9%	5.0% B.1%	5.0% 7.3%	8.3% 14.4%	6.3% 9.9%	7.4%	7,9%	7.5% 12.0%		Return of Return of			14
mmon Stock 20,521,000 shs.			8.0%	6.0%	6.2%	7,9%	8.1%	7.3%	14.4%	9.9%	12.5%	12,8%	12.0%	13.0%	Return o	n Com Eq	uity	14
RKET CAP: \$1.1 billion (Mid C RRENT POSITION 2015	ир) 2016 12	131/17	3.3% 59%	1.2% 80%	1.2% 80%	3.1% 61%	3.3% 59%	2.8% 62%	10.2% 29%	5.7% 42%	8.6% 31%	8.2% 36%	7.5% 39%		Retained All Divids			8
(\$MILL.) sh Assets 5.2	25.3 16.4	7.8	BUSINE	88; SJ	W Group	engage					offers no	nregulat	ed water	related :	services :	and owns	and or	ora
cts Receivable 16,4 her 51,8	57.9	17.3 41.8			tion, distri Xoroga c						ficers ar	id directo	irs (inclu	ding Nar	s. Has ab icy O. M	oss) own	22.9%	of
	99.6	66,9 23.0			ughly one ons that i										airman & ıst Taylor			
cts Pavable 16.2	18.7															: www.sjy	vater.cor	ή.
ots Payable 16.2 bt Due 38.1 ner 25.3	18.7 14.3 30.6	62.1	gion he															ear d
cts Payable 16.2 bt Due 38.1 er 25.3 rrent Liab. 79.6	18.7 14.3 30.6 63.6	85.1	gion be	Gro	up a	nnou	inced	a e	lefini	tive	shoul	d be More	imme over.	diate	ly acc er sca	retive labilit	y and	
tels Payable 16.2 bl Due 38.1 ler 25.3 79.6 cm label 16.2 https://doi.org/10.1001/10.1	18.7 14.3 30.6 63.6 st Est'd's	85.1 15-17 1-23	SJW mere	Gro ger a	oup a	nnou nent	inced (all-s	a o stock Water	lefini tran	tive sac- vice	shoul ings. vestn	d be More	imme over, spendi	diatel greate	ly acc er sca n infi	retive Iabilit rastru	y and cture	ŧ
tst Payable 16.2 bit Due 38.1 ter 25.3 rrent Liab. 79.6 NUAL RATES Past Pas hange (per sh) 10 yrs. 5 yrs venues 5.0% 5.5. shi Flow' 7.0% 11.0	18.7 14.3 30.6 63.6 81 Est'd' 8. to '2' 5% 4.	85.1 15-17 1-23 0% 5%	SJW merg tion) Inc.	Gro ger a with As pe	oup a green h Con er tern	nnou nent nnect ns of	inced (all-sicut the de	a o stock Water al, w	lefini tran Ser hich l	tive sac- vice lolds	shoul ings. vestr grade cially	d be More nent s s are on th	imme over, spendi likely se exp	diatel greate ing o y to o ense	ly acc er sca n infi irive of front.	retive Iabilit rastru efficie Mear	y and cture ncy, d iwhile	u 3S) e,
tels Payable 16.2 38.1 ter 25.3 79.6 1	18.7 14.3 30.6 63.6 63.6 63.6 63.6 64.6 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	85.1 15-17 1-23 0%	SJW mers tion) Inc. an ei	Gro ger a with As penterpo	oup and green to the contract of the contract	nnounent nectons of alue of the second	nced (all-sicut the de of abo	a o Stock Water eal, when \$2 olders	lefini tran r Ser hich l l,6 bil	tive sac- vice iolds lion, re-	shoul ings. vestm grade cially furth	d be More- nent s es are on the	imme over, spendi likely ne exp e inci	diatel greate ing o y to c ense reases	ly acc er sca n infr drive (front. s are (retive Iabilit rastru efficie Mear expect	y and cture ncy, o while ed in) (85 (9,
16.2 38.1	18.7 14.3 30.6 63.6 81 Est'd's s. to'2: 5% 4. 3% 3. 5% 6. 0% 8. 0% 3.	85.1 15-17 1-23 0% 5% 0% 5% 0% Full	SJW merg tion) Inc. an er Conn ceive stock	Gro ger a with As penterprecedicum ecticum 1.137 for	oup a green h Con er tern rise v it Wa 75 sha each	nnounent nectons of alue of ter sorter sorters of	inced (all-sicut) the dear about hareh SJW of C	a o Stock Water Sal, where Sut \$2 olders Grou TWS	fefini tran r Ser hich h .6 bil will p com held.	tive sac- vice nolds lion, re- mon The	shoul ings. vestm grade cially furthe near cumu	d be Moreo nent s as are on the er rat term lative	imme over, spendi likely ne exp e Inci i (SJ rate	diatel greate ing o y to o ense reases IW l hikes	ly accer scan infrire of front. I are of later o	retive labilit rastru efficie Mear expect penefii te). La	y and cture ncy, o while ed in ted astly,	e, fr
16.2 38.1	18.7 14.3 30.6 63.6 81 Est'd' 8. to'21 5% 4. 19% 3. 5% 6. 0% 8. 0% 3. 0 mill.) Dec. 31	85.1 15.17 1.13 0% 5% 0% 5% 0%	sjon he SJW mers tion) Inc. an ei Conn ceive stock owne snlit	Groger a with As penterpheticular 1.137 for results for the factor of th	nup a green h Con er tern rise v it Wa 75 sha each : break vor of	nnounent nectons of alue of ter sores of share down	inced (all-sicut) the dealer about hareh SJW of County	a ostock Water eal, w. out \$2 olders Grou TWS d be a	fefini fran Ser hich h .6 bil will com held. 60% in all	tive sac- vice nolds lion, re- mon The 40% the	shoul ings. vestm grade cially furthe near cumu W, T dent,	d be Moreo nent s s are on the er rat term lative hornb	imme over, spendi likely ne exp e inci rate ourg, CEO	diatel greate ing of y to o ense reases IW l hikes curre of C	ly accer scan infrise of front. are of latern than the front characters from the front characters front characters from the front characters from th	retive labilit rastru efficie: Mear expect penefii te). La airma	y and cture ncy, o while ed in ted astly, an, p	es; fr fr
16.2 16.2 16.2 16.2 16.2 16.2 17.5	18.7 14.3 30.6 63.6 63.6 63.6 63.6 63.6 63.6 9% 4. 9% 3. 5% 6. 9% 8. 90% 3. 90% 3. 90% 3.	85.1 15-17 1-23 0% 5% 0% 5% 0% Full Year 305.1 339.7	gion he SJW mers tion) Inc. an er Conn ceive stock owne split deal	Groger a with As per ecticular for riship in far alre	oup a green h Con rise voit Wa 75 sha each a break vor of	nnounent neet ns of alue of ter s res of share down SJW	inced (all-sicut) the de of abo hareh SJW of C' would Group	a cotock Water sal, who was sal, who was salders Group TWS did be a salder sald	tefini tran Ser hich I ,6 bil will p com held 60% in all	itive sac- vice nolds lion, re- mon The 40% , the	shoul ings. vestre grade cially further near cumu W. T dent, the near the n	d be Moreo nent s s are on the er rat term lative hornb and ewly o	imme over, spendi likely ne exp e inci i (SJ rate ourg, CEO	diatel greateling of y to coense reases IW 1 hikes curre of Caned co	ly accer scanning from the contract of law are contract.	retive labilit rastru efficie Mear expect execti ie). La airma will s	y and cture ncy, o nwhile ed in ted astly, an, p spearl	es, fr Ere
16.2 16.2	18.7 14.3 30.6 63.6 st Est'd's s. to '2' 55% 4. 9% 3. 5% 6. 30 mill.) Dec. 31 87.6 79.4 93.5	85.1 15-17 1-23 0% 5% 0% 5% 0% Full Year 305.1 339.7 389.2 400	gion he SJW merg tion) Inc. an ei Conn ceive stock owne split deal, both	Groger a with As penterphetical 1.137 for reship in far alrecomp	oup a green h Con er tern rise Wa 75 sha each : break vor of anies'	nnnoument on ent of alue of ter so of share adown SJW manit board by the street of the	inced (all-sicut) the depth about the depth about the street about the str	a (stock Waterseal, what \$2 olders Ground FWS d be a point of 2 direct of 2 di	tefini fran F Ser hich I I 6 bil Will p com held. 60% in all proved ors, is	itive sac- vice nolds lion, re- mon The 40% , the by s ex- (still	shoul ings. vestm grade cially further cam u.W. T. dent, the m.SJW its quits and the should be s	d be Moreo ment s as are on the er rat term lative hornb and ewly o Grot	imme over, spendi likely ne exp e inci rate ourg, CEO combin p ha	ediatel greate ing o y to coense reases W 1 hikes curre of Caned cons ividen	ly accer sca n infiditive of front. a are of nas la of latent ch FWS, ompan bstan	retive labilit rastru efficie Mear expect penefii te). La airma will s y. tially	y and cture ncy, on while ed in ted astly, an, p spearl boo. The	e, e, i (fre he st
16.2 38.1 16.2 38.1 16.2 38.1 16.2 38.1 16.3 38.1 16.4 38.1 17.5 38.1 17.5 38.1 18.1 38.1 19.1 38.1	18.7 14.3 30.6 63.6 81 Est'd's 55% 4.0 9% 4.0 9% 6.0 9% 8.0 87.6 79.4 93.5 93.5 97.0	85.1 15-17 1-23 0% 5% 0% 5% 0% Full Year 305.1 339.7 389.2 400 415	gion he SJW merg tion) Inc. an er Conn ceive stock owne split deal, both pecte holde	Groger a with As penterpresent 1.137 for rship in fave comp d to cr ann	oup a agreen h Con r tern rise v. it Wa 75 sha each : break vor of ady t anies' close custor	nnnou nent nnect nns of alue of ter s res of share down name board by the nary of	inced (all-sicut) the depth about the symmetry of Commonstrates of the endo	a of tock water wat \$2 olders Grou I'WS d be a b. All y appring a factor of 2 tory a tory a	Iefini fran r Ser hich I i.6 bil will p com held 60% in all provectors, is 2018	tive sac- vice nolds lion, re- mon The 40%, the by s ex- (still	shoul ings. vestry grade cially further eumu W. T dent, the no SJW its quity ra \$0,21	d be Moreo More More	imme over, spendi likely ne exp e inc rate combin p ha rly di its po \$0.28	ediatel greate ing of y to coense reases we l hikes curre of C' ned co ivider er-sha d, alm	ly accer scanning from the front of later than the front of later than the front of the front of part of the front of the	retive Iabilit rastru efficie: Mear expect peneffi te), La airma will s y tially yout. stribu 30% j	y and cture ncy, conwhile ded in ted	es; e, i t fre ere ere fre fre (t)
16.2 38.1	18.7 14.3 30.6 63.6 18. Est'd' 19.5 19.7	85.1 15-17 1-23 0% 5% 0% 5% 0% Full Year 305.1 339.7 389.2 400 415 Full Year	gion he SJW merg tion) Inc. an ei Conn ceive stock owne split deal, both pecte subje holde	Groger a with As penterpresent 1.137 for rship in fave comp d to cr app	oup a green h Cour rise v. it Wa 75 sha each : break vor of ady t anies' close custor crovals	nnnou nent nnect ns of alue of ter s res of share down SJW manir board by the mary of the control of the control on, the control	inced (all-sicut)	a (stock Water eal, we will \$2 olders Grou FWS d be a b, All y app direct d of 2 ttory a mbin	tefini tran r Ser hich I d.6 bil s will p com held. 60% in all proved ors, is 2018 and sh	tive sac- vice nolds lion, re- mon The 40%, the by s ex- (still lare- ntity	shoul ings. vestre grade cially further eumu W. T dent, the no SJW its quity rate \$0.21 exclusion.	d be Morenent seare on the term lative hornband ewly contracted for the following the	imme over, spendi likely e expe inci rate ourg, CEO combin p harry di ts pe \$0.28 te spe	diatel greate ing o y to o ense reases W 1 hikes curre of C net co ivider er-sha trial d	ly accer sca n infidrive of front. are on as I of lai ont ch TWS, ompan bstan nd pa ividen	retive Iabilit rastru efficie Mear expect peneffi te), La airma will y tially stribu 30% j d paid	y and cture ncy, conwhile ted in ted in ted astly, an, p spear! boo The tion ump d last	es; the stuffer of the stuff of the stuffer of the stuff of the stuffer of the stuff of the stuffer of the stuf
Star Payable 16.2 38.1	18.7 14.3 30.6 63.6 18 Est'd' 5% 4. 5% 4. 5% 4. 5% 6. 0% 8. 0% 3. 3 mill.) Dec. 31 87.6 79.4 93.5 95.0	85.1 15-17 1-23 0% 5% 5% 0% Full Year 305.1 339.7 400 415 Full Year 1.85 2.57	gion he SJW merg tion) Inc. an el Conn ceive stock owne split deal, both pecte subje holde Upon woul	Green and the composition of the	oup a agree out Con rise v it Wa 75 sha each : break vor of ady t anies' close custor royals opletie ater	nnot nent nnect ns of alue of ter s res of share down board by th nary of on, the	inced (all-sicut the de f abo hareh SJW of C' would Group nously is of regula he co	a costock Water wat \$2 olders Grou FWS d be a cost of 2 tory a cost of 2 t	trant frant	tive sac- vice nolds lion, re- mon The 40%, the by ex- (still lare- ntity licly	shoul ings. vestm grade cially furthmear cumu. T dent, the no SJW its quity ra \$0,21 exclusivemb without the control of the co	d be Morenent ses are on the rear lative lative Ground ewly continuante aised 75, to des ther). A	imme over, spendi likelyne expe increase (SJ combinate over) combinate over the spending of the spending over the spendi	diatel greate greate of consecured consecure	ly accer scanning in the control of	retive labilit rastru efficie: Mear expect tee). La asirma will s y. tially yout. stribu 30% j d paid erger forme	y and cture ncy, conwhile ed in ted astly, an, p spear! boo The tion ump d last goesed cor	es; the stuffer of
16.2 16.2 16.2 16.2 16.2 16.2 16.2 16.2 17.5 16.2	18.7 14.3 30.6 63.6 18 Est'd' 18.5 19.2 19.2 3.3 3.3 mll.) Dec. 31 87.6 79.4 93.5 95.0 97.0	85.1 15.17 1/23 0% 5% 0% 5% 0% Full Year 305.1 339.2 400 415 Full Year 1.85	gion he SJW merg tion) Inc. an ee Conn ceive stock owne split deal, both pecte subje holde Upon woul owne in th	Groger a with As penterprecticular ship in far alrecompd to ct to a rapprectation and the complete when the complete which is a supplemental to the complete when the complete when the complete when the complete when the complete which is a supplemental three complete when the compl	oup a agrees from Control of Control of Control of Control of Control of Control of Control of Control of Cont	nnounnect ns of salue of terms of salue of terms of salue of terms	inced (all-sicut) the deficit of Coupons of Coupons of the coupons	a costock Water al, where al, where al, where al, where al, and all all all all all all all all all al	trant frant	tive sac- vice nolds lion, re- mon The 40%, the by s ex- (still lare- ntity licly illy pera-	shoul ings. vestm grade cially further near cumu W. T dent, the nestwits quity resultivemb without so the control of the contr	d be Morenent ses are on the er rat term lative Thornh and ewly of Grot uarte aised 75, to des th er). A	imme over, spendi likely e expe increo cero cero cero cero cero cero cero	diatel greater of conservation	ly accer scanning in infinite of front. It is are of latent of latent of latent of latent of payment of latent of payment of latent of lat	retive labilit rastru efficie: Mear expect benefit te). La airma will s y, tially yout. stribu 30% j d paid erger forme ent is	y and cture ney, de ney, de ney, de ney de n	es; (free state) the state of t
tels Payable by Payable by Payable by Payable by Payable by Pash Pash Pash Pash Pash Pash Pash Pash	18.7 30.6 63.6 63.6 81 Est'd's 5% 6.2 9% 3.5 9% 3.5 9% 3.5 97.0 97.0 187.6 199.4 93.5 93.5 97.0 97.0 187.6 187	85.1 15-17 1-23 0% 5% 0% 5% 0% Full Year 305.1 339.7 400 415 Full Year 1.85 2.57 2.86 2.85 3.00	gion he SJW merg tion) Inc. an e: Conn ceive stock owne split deal, both pecte subje holde Upon woul owne in th	Groger a with As penterprecticu 1.137 for rship in fav alre comp d to ct to ir appn cont d bed will be Util (Cor (Cor (Cor (Cor (Cor (Cor (Cor (Cor	oup a green h Con r tern rtern it Wa 75 sha each : break vor of ady it anies' close custor rrovals opleti e the ater : ited print innection	nnounent nent nections of alue of ter so share down SJW manin board by the nary to on, the and v State across	inced (all-s icut the deprivation of about of County of	a cstock Water wat, when the state of the st	lefini fran Ser hich l 1.6 bill p com held. 60%- in all proved ors, is 2018 and sh ed er publer ut its op mestic exas,	tive sac- vice solds lilon, re- mon The 40% the by s ex- (still lare- atity licly flity licly ility era- and	shoul ings. vestri grade cially furthe near cumu W. T dent, the ne SJW its quity re \$0.21 exclusivemb witho ny's a be en ramp.	d be Morenent search are term lative hornbearte and ewly of Grotuarte aised 775, to des ther). A latitude of figure all all all all all all all all all al	imme over, spendi likely ne expe incri. (SJ rate ourg, CEO combing harly dits po \$0.28 to spenditch, I divient ture,	diatel greated ing on y to conserve seases IW I hikes curre of Cared conserving in the radical ding to the radical of SJ	ly accer scan infinitely of front. It is are to the scan front of	retive labilit rastru efficie. Mear expect cerrefii te). La airma will s y. tially yout. 30% j id paid erger forme ent is roup's	y and cture ney, convenied in ted astly, an, pearly looo The tion ump I last goes ed con likely received.	es; tree studies of the studies of t
16.2 16.2	18.7 30.6 63.6 63.6 63.6 63.6 63.6 63.6 63.6	85.1 15-17 1/23 0% 5% 0% 5% 0% Full Year 305.1 339.7 389.2 400 415 Full Year 1.85 2.86 2.86	gion be SJW merg tion) Inc. an er Conn ceive stock owne split deal, both pecte subje holde Upon would owne in th tiona gions Main	Green a with As penterper cetical for reship in favorable competer to a repute to be downed with the control of the cet with the cet wi	oup a green h Con r tern rise v it Wa 75 sha each : break vor of ady t anies' close custor grovals opletie ater : ited print	nnounent anect as of share actors of share actors of share actors of share actors on, the share across actors to be si	inced (all-s icut the deprication hareh SJW of C' would Group nousi he end regula he co rd-lar waste s. Inc s sele- alifori ignific	a cstock Water wat, when the standard s	lefini tran r Ser hich I i.6 bill p com held. 60%- in all provectors, is 2018 and sh ed er publer ut its of mestic exas, bolste	tive sac- vice nolds lion, re- mon The 40%, the by s ex- (still liare- arity licly ility era- er eand ered.	shoul ings. vestry grade cially furthe near cumu W. T dent, the ne \$15 Quity ra \$0.21 excluvemb withoo ny's a be earmp. This year-	d be Morenent ses are on the rate term lative Thornb and ewly c Grot used 75, to des the er). A annua quival ed figures issue issue as annua	imme over, spendi likely ne expe e inc: i (SJ rate ourg, CEO combin p ha rity di rits pe \$0.28 e spendi litch, l divi- ent t ure, e is d bro	diatel greateling of the course of Course of Course of Cours sulfividerershading to dend to SJ ranks	ly accer scann infiderive of front. It are chas it of later that the free front character in the free front payment of the free front free front free front free front free front free free front free free free free free free free fre	retive labilit rastru labilit rastru lefficie Mear expect lenefii te). La lairma lairm	y and cture of the	est of the state o
cts Payable 16.2 38.1 rer 25.3 79.6 NUAL RATES Past Pas hange [per sh] 10 yrs. 5 yrs venues 5.0% 5.5 sash Flow 7.0% 11.6 rilings 8.0% 18.5 ridends 4.5% 5.5 sar 61.1 86.9 112.3 dar Mar.31 Jun. 30 5.9 18 75.0 102.1 124.6 dar 61.1 86.9 112.3 dar Mar.31 Jun. 30 5.9 dar Arrival 10 130 alternative 10 130 alternative 10 130 alternative 10 130 dar 10 130	18.7 14.3 30.6 63.6 St Est'd' 5	85.1 15.17 16.17 17.23 0% 55% 0% 305.1 339.7 389.2 440 415 Full Year 1.85 2.86 3.00 1.85 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.0	gion be SJW merg tion) Inc. an ee Conn ceive stock owne split deal, both pecte subje holde Upon woul owne gions Main This Herit	Green a with the second of the	oup agreen h Con rise vo it Wa 75 sha each : break vor of ady vanies' close costor royals opletie e the ater inted print inection ght to ides Villago	nnounent anect as of alue of the state of share and the state of share and the state of the stat	inced (all-s icut the de of abo hareh SJW of C would Group nousl ds of regula he co rd-lar waste s sele alifori ignific ine bisidi ine V	a cstock Water wat	lefini fran r Ser hich I 6 bil b com held. i 60% in all provectors, is 2018 and st ed er puble er ut its op mestic exas, bolste suck Com	tive sac- vice nolds lion, re- mon The 40% s ex- (still lare- tity licly fillty nera- c re- and ered, a as pany,	shoul ings. vestm grade cially furthe near cumu W. T dent, the ne SJW its quity re \$0.21 exclusivemb witho ny's a be earmp. This year-SJW	d be Morenent: ss are on the er rat term lative Thornb and ewly c Grot uarte aised 75, to des th er). A annua quival ed figu issue asheae share	imme over, spendi likely likely e e spe c inc; c CEO combin p ha rly di its pe \$0.28 e spe assum hitch, l divi ent t ure, e is s hav	diatel greated ing of the course of CC med course of CC med cours sufficiently in the result of the	ly accer scan infidelive of front. It are chas it of late the firm of particular discount a lividen in the more discount of the more discount of the firm of the f	retive labilit rastru efficie Mear expect penefii te). La airma will s y. tially yout. 30% j d paid erger forme ent is roup's o mit ket a e tha	y and cture of the	est of the state o
cts Payable bit Due 25.3	18.7 30.6 63.6 63.6 st Est'd's 5% 6.2 5% 8.0 9% 3. 63.6 Bec. 31 87.6 97.0 A Dec. 31 87.6 Bec. 31 187.6 187.6 187.6 187.6 187.6 2025	85.1 16.117 17.23 0% 55% 00% 00% 13.00 13.00 13.00 14.00 14.00 14.00 15.00 16.	gion be SJW merg tion) Inc. an er Conn ceive stock owne split deal, both pecte subje holde Upon would owne in th tiona gions Main This Herit Avon Inc.,	Green a with the second of the	oup a green h Con r tern r tern r tern to tern to tern break vor of ady v anies' close custor rovals priett print to des Village er, San ame	mnounent ment ment ment ment ment ment ment	inced (all-s icut the deprication hareh SJW of C' would Group nousi he co rd-lar waste es. Inc s sele alifor ignific ubsidi ine V e Wat w. Or	a cstock Water wat, when the state of a cstock of a cs	lefini tran Ser hich I i. 6 bil by com held. 60%- in all proved ors, is 2018 and sh ed er publier ut its op mestic exas, bolste such Compud SI did SJ vance,	tive sac- vice solds lion, re- mon The 40% by ex- (still are- tity licly ilicly era- and ered. as any, WTX the	shoul ings. vestry grade cially furthe near cumu W. T dent, the nr SJW its quity results vemb without vemb without year-This year-SJW price vestor	d be Morenent search and lative hornband ewly of Grotuarte aised 775, to des ther). A lative aised annua quival ed figuinate aiseu	imme over, spendi likely e expe e incr. cEO combing harry dits po \$0.28 to spenditch, l divient ture, e is di broche path a the path a the path a	diated greated ing only to come seases IW I hikes currently in the reducer shading to the reducer shading to SJ rank bader resticust the long-	ly accer scan infinitely of front. I have been to be t	retive labilit rastru efficie. Mear expect beinefii te), La airma will s y. tially yout. 30% ji d paid erger forme ent is roup's o mit ket a e tha nonths. holdin	y and cture invhilded in ted in ted in ted in ted in ted in the tion tion tion tion tion tion tion tion	es, free suffice my tight, si
cts Payable bit Due 38.1 ber 25.3 bit Due 25.3 bit Due 25.3 brief	18.7 14.3 30.6 63.6 15 Est'd' 15 Est'd' 15 Est'd' 16 Est'd' 17 Est'd' 18 Est'd' 18 Est'd' 19 Est	85.1 16.117 17.23 0% 55% 00% 55% 00% 1339.7 339.2 400 415 Full Year 1.85 2.85 3.00 Full Year	gion be SJW merg tion) Inc. an ei Conn ceive stock owne split deal, both pecte subje holde Upon woul owne in th tiona gions Main Herit Avon Inc., merg	Green a with the second of the	nup agrees h Con rise voit Wars sha each : break vor of ady close custor rovals apletic the ater : iited print to ides Villager, Same itity it it.	nnounent anect alue of ter so feshare down so feshare down and board for the terms of the terms of the terms of the terms of the south of the terms	inced (all-s icut the de of abo hareh SJW of C would Group noush ds of regula the co regula s sele califor ignific ignific ine V www. Or ected	a cstock Water water Ground FWS do had be about \$20 application of a ctory a ctory a ctory a ctory aries, and antly aries, Vater er, and balto get to	lefini fran F Ser Hich I Life bill s will p com held. i 60%- in all proved ors, is 2018 and sh ed er puble er ut its op mestic exas, bolstic Comp id SJ/ ance, nerate	tive sac- vice noids lion, re- mon The 40% , the by s ex- (still liare- artity licity era- c re- and as pany, WTX the an-	shoul ings. vestry grade cially furthy near cumu W. T dent, the n SJW its quity ra \$0,21 exclub witho ny's a be expected by the control of th	d be Morenent seament seament seament term lative hornband ewly of Grotuarte aised 775, to des the hout a lannua quival ed figurabea share over term with the control of th	imme over, spendi likely se experie (SJ rate ourg, CEO) in harry difference se spendifference is distributed by the path a ne cur.	diatel greated ing on y to come on y to come on y to come on y to come of Come	ly accer scan infidelive of front. It is are to the front of the first of the front	retive lability astruefficie. Mearexpection in the control of the	y and cture course to the course of the cour	esse, tree state of the state o
cls Payable by 16.2 bit Due 25.3 rrent Liab. 25.3 rent Liab. 25.3 rent Liab. 25.3 rent Liab. 25.0 for 10.7 s. 54.5 for 10.7 s. 55.5 for 10.5	18.7 14.3 30.6 63.6 81 Est'd' 82 Est'd' 83 Est'd' 84 Est'd' 85 Est'd' 86 Est'd' 87 Est'd' 87 Est'd' 87 Est'd' 88 Est'd' 89 Es	85.1 16.117 1723 00% 55% 00% 309.7 309.1 339.7 389.2 400 415 Full Year 1.85 2.85 3.00 Full Year 1.85 2.85 3.00 Full Year	gion he SJW merg tion) Inc. an ei Conn ceive stock owne split deal, both pecte subje holde Upon woul owne gions Main Herit Avon Inc., merg nual	Green a with the competence of	oup agrees h Control of Control o	mnounent anect alue of ter so feshare of share of share of share of share of the sh	inced (all-s icut the de of abo hareh SJW of C would Group noush is of regula he co rd-lar waste s. Inc s sele aliforr ignific ine V www. Or ected v \$50	a cstock Water al, who was a colders of a colder o	lefini france Service I se	tive sac- vice noids lion, re- mon The 40%, the by ex- (still lare- ntity licly ility era- ered, and ered, and lable.	shoul ings. vestm grade cially furthe near cumu W. T dent, the ne SJW its quity rate \$0,21 exclusivemb without year-SJW price vestm ay it Niche	d be Morenent ses are on the continuous fermand ewly of Grotuarte aliased figures annual ed figures annual ed figures annual ed figures figures annual ed figures figu	imme over, spendi likely e e pe e incr. rate occion bin its pe ssum hitch, l divident ture, e is have be care a cur. Patri	diatel greated ing of y to come of consecutive of Coned cons sufficient of the result	ly accer scan infidelive of front. It are chas it of late of l	retive labilit rastru rastru efficie Mear expect penefii te). La airma will s y tially stribu 30% j d paid erger forme ent is roup's e tha onths. holdi strengt Strengt	y and cture money, (mwhile ded in ted pastly, an, p pepearl bood The tion ump 1 last rece rece rece The The rece The rece rece rece rece rece rece rece re	es) of the stuffer my test of the stuffer of the stuff of the stuffer of the stuff of the stuffer of the stuff of the stuffer
16.2 38.1 16.2 38.1 16.2 38.1 16.2 38.1 16.2 38.1 16.2 38.1 16.2 38.1 16.2 38.1 16.2 38.1 16.2 38.1 16.2 38.1 16.2 38.1 16.2 38.1 16.2 38.1 16.2 38.1 16.2 39.4	18.7 14.3 30.6 63.6 St Est'd' 55.4 57.4 93.5 95.6 98.8 93.5 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95	85.1 16.117 1723 0% 55% 0% 55% 0% 309.7 309.2 400 415 Full Year 1.85 2.86 3.00 Full Year 1.05 1.04	gion he SJW merg tion) Inc. an ee Conn ceive stock owne split deal, both pecte subje holde Upon woul owne gions Main This Herit Avon Inc., merg nual Quarteriding.	Green a with the second of the	oup agreen h Control of the Control	mnounent nent nect ns of alue c ter s res of share tdown SJW mani board by th nary). on, tle this and t State acros cut, C be si all si e, Ma n Jose a fe se expe nearly tol add c nearly tol ad	inced (all-sicut)	a cstock Water al, who was a colders Ground TWS do be a colder and the cstock areas aries, water aries, vater aries, vater aries ari	lefini tran r Ser hich I c. 6 bil com held. 60% in all provedors, is 2018 and street ed er ut its op mestic exas, bolste such Companance, plan avaions, adippecial dispecial dis	tive sac- vice nolds, re- mon The 40% by s ex- (still nare- ntity licly ility cera- and ered, as any, WTX the and lable, usted for idend of	shoul ings. vestm grade cially furthe near cumu W. T. dent, the ne SJW its quity restorable exclusivemb without he exclusivemb without he exclusivemb ramp. This year-SJW price vestoral may for the control of the cont	d be Morenent: ss are on the er rat term lative Thornb and ewly c Grot uarte aised 75, to des th er). A annua quival ed figu issue -ahea share over t rs wif find th olas P.	imme over, spendi likely likely e e expe e inc; rate over, spendi rate over, spendi rate over, sombin p ha riy di its pe \$0.28 e spendi essum hitch, l divi ent t ure, e is shav he pa th a le curr Patri Stoc Pilo Earr	diatel greated ing of y to come of consecutive of Coned cons sulfivideres and constant of the transport of the constant of the	ly accer scan infinitely of front. I are consistent of latent of FWS, ompand paure disostatividen mewly paym. W Greed to market mortee montery parting and payments of mortee montery paymentry paym	retive Iabilit rastru rastru efficie: Mear expect penefii te). La airma avill s y. tially stribu: 30% j id paid erger forme ent is roup's o mit ket a e tha onths. holdin tooint e April Strengti	y and cture course to the course of the cour	es, in Each studies myn tek , ring of Reco



2016 Value Line, Inc. All rights reserved. Factual material is obtained from sources befoved to be reliable and is provided valuous varranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product.

To subscribe call 1-800-VALUELINE

CASE: UW 174 WITNESS: MATT MULDOON

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 207

Security Market News (News Investors Are Seeing)

Exhibits in Support of Direct Testimony

Merger News Water Utility Investors Are Seeing

American Water Works' Acquisition of Pivotal Home Solutions is Credit Negative

by Nana Hamilton, Analyst; Ryan Wobbrock, VP and Senior Analyst; and Dexter East, Associate Analyst – Moody's – Apr. 16, 2018

Last Wednesday, American Water Works Company, Inc. (AWK, A3 negative) announced an agreement with The Southern Company (Baa2 negative) to acquire Southern's home warranty business, Pivotal Home Solutions, for a total consideration of \$365 million, including approximately \$7 million of working capital. AWK plans to finance the acquisition with an equal mix of debt and equity. The acquisition is credit negative for AWK because it increases its unregulated business exposure, particularly to services unrelated to the water business.

Although the transaction is slightly positive to AWK's ratio of funds from operations (FFO) to net debt, we **expect** the company's **credit metrics to weaken** over the next two years owing to **continued debt-funded growth**, an **increasing dividend and tax leakage** resulting from US federal tax reform.

AWK plans to permanently finance half of the acquisition with debt issued through its non-operating financing subsidiary American Water Capital Corp (AWCC, A3 negative). We expect that this debt, which is about 3.75x of estimated Pivotal EBITDA, will be pushed down to American Water Enterprises Inc., which holds the company's market-based businesses, and will be supported by Pivotal's EBITDA. However, we estimate that the percentage of debt at AWCC not recovered in utility rates will increase to approximately 25% following the transaction from 23% at the end of 2017, a credit negative.

The acquisition purchase price implies an EBITDA multiple of 7.5x based on Pivotal's 2017 full-year EBITDA. We see an uplift to AWK's FFO/net debt ratio of 20-30 basis points with the additional cash flow from Pivotal and the associated debt financing. However, with our expectation that AWK's financial metrics will weaken, we continue to expect its FFO/net debt ratio over the next several years to hover near our previously indicated 15% quantitative downgrade guidance for an A3 rating.

We generally view AWK's unregulated businesses as neutral to the company's overall credit because they constitute less than 15% of operations and are largely within AWK's core competencies of water system operations. At the end of 2017, unregulated operations were about 5% of AWK's EBITDA and approximately 9% of net income. With the addition of Pivotal to AWK's existing homeowner services business, we expect that unregulated operations will increase to approximately 8% of consolidated EBITDA and approximately 14% of net income over the next few years. Although the contribution of unregulated operations remains below 15%, Pivotal adds to AWK operations that are higher risk relative to the utility operations because they depend on market prices for cost recovery and are subject to greater competition.

Pivotal also adds services such as gas line and HVAC operations, as shown in the exhibit below, that are not related to AWK's core business.

Connecticut Water Service's Board
Rebuffs Eversource Energy's Acquisition Bid
by Selene Balasta – S&P Global Market Intelligence – Apr. 19, 2018

Eversource Energy said April 19 that it has made a non-binding proposal to acquire all outstanding shares of Connecticut Water Service Inc. at \$63.50 per share, in cash or in Eversource common shares. Connecticut Water confirmed receiving the proposal, but its board of directors maintained that SJW Group's bid is still the best option for their shareholders.

SJW Group also affirmed its commitment to the merger.

In a bid made during the election of Connecticut Water shareholders on April 5, Eversource said it is offering a "superior alternative" to the all-stock transaction announced by SJW Group on March 15. Eversource first expressed interest in buying the water utility in the second half of 2017.

Eversource said its bid represents a 21% premium to Connecticut Water's closing share price on March 14. Connecticut Water shareholders who opted to receive Eversource shares would also be eligible to receive the equivalent of an 81% dividend uplift based on the closing price of Eversource's shares on April 4, as well as an annualized quarterly dividend of 29.75 cents per share declared by Connecticut Water on January 18.

Eversource is the **parent** company of **Aquarion** Water Co. Inc., a Connecticut-based water utility which serves nearly 230,000 customers in Connecticut, Massachusetts and New Hampshire, and is near Connecticut Water's service territory.

"Eversource's acquisition of Connecticut Water would be a compelling, superior alternative to the SJW transaction for Connecticut Water's customers, employees, suppliers, communities and shareholders," said Eversource Chairman, President and CEO James Judge in the proposal. The geographical proximity of the Connecticut Water and Aquarion systems would "enable cost-effective infrastructure investment and support regional economic growth," Judge added.

Meanwhile, under the SJW Group's "merger of equals," Connecticut Water shareholders would receive 1.1375 shares of SJW Group common stock for each share of Connecticut Water. This is the equivalent of \$63.70 per share, based on SJW Group's closing share price on April 19. At deal close, the combined company would be 40% owned by Connecticut Water shareholders and 60% by SJW Group shareholders, on a fully diluted basis.

"Having carefully reviewed the unsolicited acquisition proposal, we continue to believe that Connecticut Water's merger with **SJW** Group is in the **best interest** of our **shareholders**, particularly given the **significant growth opportunity** that the combined

organization will have as a leading pure-play water company," said Carol Wallace, Chairman of the Connecticut Water board of directors.

Connecticut Water's board unanimously recommended that Connecticut Water shareholders vote in favor of the company's merger with the SJW Group. The merger is expected to close by the end of 2018, subject to certain conditions and approvals from the shareholders of SJW Group stockholders and Connecticut Water, as well as approval from regulatory bodies. The transaction is not subject to any financing condition.

Eversource Energy has retained Goldman Sachs as its financial adviser and Ropes & Gray as its legal adviser on the matter. Wells Fargo Securities LLC serves as Connecticut Water's financial adviser and Sullivan & Cromwell LLP as its legal counsel.

Eversource Energy Discloses Proposal

to Acquire Connecticut Water Service, Inc. for \$63.50 per Share Eversource Press Release— S&P Global Market Intelligence — Apr. 18, 2018

Acquisition would combine two local Connecticut businesses with highly complementary footprints in the Northeast

Proposal represents superior alternative to generate value for shareholders, employees, customers, and local communities

Eversource Energy (NYSE: ES) today announced that on April 5, 2018 it made a proposal to acquire all the outstanding shares of Connecticut Water Service, Inc. (Nasdaq: CTWS) for \$63.50 per share in cash and/or in Eversource common shares at the election of Connecticut Water shareholders.

Eversource believes its proposal is a superior alternative to the all-stock transaction proposed in SJW Group's (NYSE: SJW) agreement announced March 15, 2018 to acquire Connecticut Water. Eversource's proposal represents a 21% premium to Connecticut Water's closing share price on March 14, 2018, the day prior to the SJW announcement. Eversource's proposal also represents a premium of 22% to Connecticut Water's 20-day volume-weighted average price as of March 14, 2018. In addition, those Connecticut Water shareholders who elect to receive Eversource shares would realize the equivalent of an 81% dividend uplift based on the closing price of Eversource's shares on April 4, 2018 and the annualized quarterly dividend of \$0.2975 per share declared by Connecticut Water on January 18, 2018.

Eversource has attempted to engage privately with Connecticut Water for some time. The company expressed its interest in pursuing an acquisition of Connecticut Water in 2017. On April 5, 2018, Eversource verbally communicated its intent to submit a proposal to David C. Benoit, the Chief Executive Officer of Connecticut Water, and delivered a written proposal the same day. On April 17, 2018, Eversource sent a follow-up communication to Connecticut Water expressing its continued interest in pursuing an acquisition.

We believe that our proposal represents a unique opportunity to deliver significant and immediate value to Connecticut Water's shareholders, customers, employees, and local communities," said Eversource Chairman, President and Chief Executive Officer Jim Judge. "As such, we were surprised and disappointed that Connecticut Water's Board of Directors has been unwilling to engage in discussions with us. We urge the Board of Connecticut Water to act in the best interests of its shareholders by meeting with us to seriously discuss our compelling proposal."

Eversource has a best-in-class financial profile, including a market capitalization of approximately \$19 billion, a long-track record of consistent and robust earnings and dividend growth, an industry best S&P credit rating, and a strong and growing dividend. There would be no financing contingency as part of the transaction.

The proposed transaction would combine two highly complementary local businesses, and would enable cost-effective regional investment and support economic growth. **Eversource** is the **parent** company **of Aquarion Water** Company, a Connecticut based water utility whose service territory is in close proximity to Connecticut Water's service territory. Aquarion Water serves nearly 230,000 customers in Connecticut, Massachusetts, and New Hampshire, with approximately 90% located in Connecticut. Connecticut Water serves approximately 125,000 customers in Connecticut and Maine with approximately 85% located in Connecticut.

"The proposed transaction would provide Connecticut Water customers with the benefit of premier service quality and a highly reliable water supply into the future," said Aquarion President and Chief Executive Officer Charles Firlotte. "The combined company would have a complementary service territory and would allow for an expansion of the superior customer service our employees proudly provide."

Eversource has retained Goldman Sachs as its financial advisor and Ropes & Gray as its legal advisor on this matter.

The full text of Eversource's April 5, 2018 non-binding proposal to acquire Connecticut Water appears below:

April 5, 2018

Mr. David C. Benoit
President and Chief Executive Officer
Connecticut Water Service, Inc.
93 West Main Street
Clinton, CT 06413

Dear David:

On behalf of Eversource Energy ("Eversource"), I am hereby submitting a proposal to acquire Connecticut Water Service, Inc. ("Connecticut Water"). As you are likely aware, we expressed interest in pursuing an acquisition of Connecticut Water in the second half of 2017. At this time, we are proposing terms for an acquisition that we firmly view as superior to the terms of the proposed transaction with San Jose Water

("SJW"), reasonably likely to lead to a Superior CTWS Proposal (as defined in the merger agreement with SJW) and in the best interest of the customers, employees, suppliers, local communities and shareholders of Connecticut Water due to the greater benefits achievable through an Eversource transaction.

Eversource proposes to acquire all of the outstanding shares of Connecticut Water common stock for \$63.50 per share in cash and/or in Eversource common stock at the election of Connecticut Water shareholders. Connecticut Water shareholders electing to receive Eversource stock as consideration would realize the equivalent of an 81% dividend uplift based on the closing price of Eversource's common stock on April 4, 2018 and the annualized quarterly cash dividend of \$0.2975 per share declared by Connecticut Water on January 18, 2018. The \$63.50 consideration payable to Connecticut Water shareholders would not be reduced by the termination fee payable to SJW.

The \$63.50 price represents a 21% premium to Connecticut Water's undisturbed share price on March 14, 2018 and a 22% premium to the 20-day VWAP for the period ending March 14, 2018.

Eversource has a market capitalization of approximately \$19 billion and is an A+ rated company by Standard & Poor's, making Eversource a strong financial partner for the transaction. There would be no financing contingency as part of the transaction.

Eversource has consistently demonstrated credibility, expertise, and responsiveness in its proceedings before the Connecticut Public Utilities Regulatory Authority ("CT PURA") and has a strong track record for successful regulatory outcomes. In particular, **Eversource** has considerable experience in obtaining regulatory approvals required for utility mergers and acquisitions. This is evidenced through our **recent acquisition** of **Aquarion Water** Company ("Aquarion"), for which we **obtained regulatory approvals in four states** and completed the transaction within five months from the regulatory filing date and within six months from the announcement of the transaction.

In the final decision issued by CT PURA approving the Aquarion acquisition, attributes of the transaction that were cited as particularly beneficial to customers and employees included local ownership, financial stability, employee benefits and community support. In fact, Eversource is uniquely positioned to create substantial benefits for customers served by Connecticut Water, while preserving local ownership and accountability. As part of the approvals required to complete the Aquarion acquisition, Eversource obtained regulatory approval in Maine with a positive outcome for the company and a minimum of administrative process. In summation, Eversource's acquisition of Connecticut Water would be a compelling, superior alternative to the SJW transaction for Connecticut Water's customers, employees, suppliers, communities and shareholders. An Eversource transaction would also leverage the geographical proximity of the Connecticut Water and Aquarion systems to enable cost-effective infrastructure investment and support regional economic growth.

I have reviewed this opportunity with Eversource's Board of Trustees, which supports the submission of this proposal. We are prepared to engage with you immediately and to reach a definitive agreement as expeditiously as possible. For the avoidance of doubt, this proposal is a non-binding indication of interest, subject to confirmatory due diligence. A binding obligation with respect to this transaction will result only from the execution of a definitive agreement containing terms and conditions that are mutually acceptable to the parties.

We look forward to your prompt response.

Sincerely,

James J. Judge Chairman, President and Chief Executive Officer Eversource Energy

About Eversource:

Eversource (NYSE: ES) transmits and delivers electricity and natural gas and supplies water to approximately 4 million customers in Connecticut, Massachusetts and New Hampshire. Recognized as the top U.S. utility for its energy efficiency programs by the sustainability advocacy organization Ceres, Eversource harnesses the commitment of about 8,000 employees across three states to build a single, united company around the mission of safely delivering reliable energy and water with superior customer service. For more information, please visit our website (www.eversource.com) and follow us on Twitter (@EversourceCorp) and Facebook (facebook.com/EversourceEnergy). For more information on our water services, visit www.aquarionwater.com.

Forward Looking Statement:

This news release includes statements concerning Eversource Energy's expectations, beliefs, plans, objectives, goals, strategies, assumptions of future events, future financial performance or growth and other statements that are not historical facts. These statements are "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. In some cases, readers can identify these forward-looking statements through the use of words or phrases such as "estimate," "expect," "anticipate," "intend," "plan," "project," "believe," "forecast," "should," "could" and other similar expressions. Forward-looking statements are based on current expectations, estimates, assumptions or projections and are not guarantees of future performance.

These expectations, estimates, assumptions or projections may vary materially from actual results. Accordingly, any such statements are qualified in their entirety by reference to, and are accompanied by important factors that could cause our actual results to differ materially from those contained in our forward-looking statements, including, but not limited to, in the case of Eversource's proposal to acquire Connecticut Water, the failure to complete the subject transaction upon the terms set forth in Eversource's proposal; cyber-attacks or breaches, including those resulting in the compromise of the confidentiality of our proprietary

information and the personal information of our customers; acts of war or terrorism or grid disturbances that may disrupt our transmission and distribution systems; ability or inability to commence and complete our major strategic development projects and opportunities; actions or inactions of local, state and federal regulatory, public policy and taxing bodies; substandard performance of suppliers; climate change; disruption to our transmission and distribution systems; new technology and conservation of energy; contamination or failure of our water supplies; unauthorized access to confidential and proprietary information; changes in laws, regulations or regulatory policy; changes in economic conditions, including impact on interest rates, tax policies, and customer demand and payment ability; changes in business conditions, which could include disruptive technology related to our current or future business model; changes in weather patterns, including extreme weather and other effects of climate change; reputational risk; changes in levels or timing of capital expenditures; technological developments and alternative energy sources; disruptions in the capital markets or other events that make Eversource Energy's access to necessary capital more difficult or costly; developments in legal or public policy doctrines; changes in accounting standards and financial reporting regulations; actions of rating agencies; and other presently unknown or unforeseen factors. minimum of administrative process.

Other risk factors are detailed in Eversource's reports filed with the Securities and Exchange Commission (SEC) and updated as necessary, and are available on the SEC's website at www.sec.gov. All such factors are difficult to predict and contain uncertainties that may materially affect Eversource Energy's actual results many of which are beyond our control. You should not place undue reliance on the forward-looking statements; each speaks only as of the date on which such statement is made, and, except as required by federal securities laws, Eversource Energy undertakes no obligation to update any forward-looking statement or statements to reflect events or circumstances after the date on which such statement is made or to reflect the occurrence of unanticipated events.

View source version on businesswire.com: https://www.businesswire.com/news/home/20180419006506/en/

Eversource Media Contacts: Caroline Pretyman, 617-424-2460 caroline.pretyman@eversource.com

Investor Contacts: Jeffrey R. Kotkin, 860-665-5154 jeffrey.kotkin@eversource.com

Brunswick Group: Jonathan Doorley, 917-231-6201 or Darren McDermott, 917-345-3621

Company Name: Gov't Camp Docket No. UW 174 Test Year: 2016

Staff/102 Brock/1

Company Proposed Increase 73.64%

Staff Proposed Increase -1.71%

Revenue Requirement

	REVENUES	Test Year-2016	Company Adjustments	Company Proposed Totals	Staff Adjustments to Company Totals	Staff Proposed Totals
460	Unmetered		·	\$ -		\$ -
461.1	Residential Flat Rate Water Sales	51,415	38,941	\$ 90,356	(2,894)	\$ 87,462
461.2	Commercial Flat Rate Water Sales	16,140	11,787	\$ 27,927	(27,927)	
	Residential Metered Water Sales	11,520	9,499	\$ 21,019	(21,019)	
	Commercial Metered Water Sales	90,365	70,204	\$ 160,569	(82,682)	\$ 77,887
462	Fire Protection Sales (Hydrant Mtc.)	-	2,188	\$ 2,188	(698)	\$ 1,490
465	Hydrant Water Sales (Water Hauling)	2,392	1,839	\$ 4,231	(2,245)	\$ 1,986
466	Water Sales for Resale			\$ -	-	\$ -
471	Miscellaneous Services	4,562	(4,562)	\$ -	4,562	\$ 4,562
475	Cross Connection Control			\$ -		\$ -
	Other			\$ -		\$ -
				\$ -		\$ -
	Total Revenue	\$ 176,394	\$ 129,896	\$ 306,290	\$ (132,904)	\$ 173,386

	Total Revenue	\$ 176,394	\$ 129,89	5 \$	306,290	\$	(132,904)	\$	173,386
Acct .	OPERATING EXPENSES								
601	Salaries and Wages - Employees			\$	-	Ś	-	\$	-
603	Salaries and Wages - Officers	28,258	28.524		56.782	Ś	(47.182)	Ś	9,600
604	Employee Pension & Benefits	-	24,000	_	24,000	\$	(24,000)	\$	-
610	Purchased Water		,,,,	Ś	-	Ś	-	\$	-
611	Telephone/Communications	3,171	(1,74)	3) \$	1,423	\$	(420)	\$	1,003
615	Purchased Power	197		\$	197	\$	-	\$	197
616	Fuel for Power Production	-	-	\$	-	\$	-	\$	-
617	Other Utilities	-	-	\$	-	\$	-	\$	-
618	Chemical / Treatment Expense	-	-	\$	-	\$	-	\$	-
619	Office Supplies	767	-	\$	767	\$	-	\$	767
619.1	Postage	462	-	\$	462	\$	-	\$	462
620	O&M Materials/Supplies	6,583	-	\$	6,583	\$	-	\$	6,583
621	Repairs to Water Plant	6,171	-	\$	6,171	\$	-	\$	6,171
631	Contract Svcs - Engineering	-	-	\$	-	\$	-	\$	-
632	Contract Svcs - Accounting	3,279	-	\$	3,279	\$	-	\$	3,279
633	Contract Svcs - Legal	-	1,78	2 \$	1,782	\$	-	\$	1,782
634	Contract Svcs - Management Fees			\$	-	\$	-	\$	
635	Contract Svcs - Testing	2,310	(1,05	5) \$	1,255	\$	-	\$	1,255
636	Contract Svcs - Labor	10,133	(9,31	9) \$	814	\$	-	\$	814
637	Contract Svcs - Billing/Collection	8,198	1,64) \$	9,838	\$	-	\$	9,838
638	Contract Svcs - Meter Reading			\$	-	\$	-	\$	-
639	Contract Svcs - Other	48,640	1,31	9 \$	49,959	\$	(25,869)	\$	24,090
641	Rental of Building/Real Property	7,000	15,000) \$	22,000	\$	(15,000)	\$	7,000
642	Rental of Equipment	-	-	\$	-	\$	-	\$	-
643	Small Tools	-	-	\$	-	\$	-	\$	-
648	Computer/Electronic Expenses	107	-	\$	107	\$	-	\$	107
650	Transportation	2,742	(9)		2,652	\$	(873)	\$	1,779
656	Vehicle Insurance	1,322	-	\$	1,322	\$	(1,322)	\$	-
657	General Liability Insurance	4,044	(97)		3,066	\$	-	\$	3,066
658	Workers' Comp Insurance	-	-	\$	-	\$	-	\$	-
659	Insurance - Other			\$	-	\$	-	\$	-
666	Amortz. of Rate Case		6,33	_	6,333	\$	-	\$	6,333
667	Gross Revenue Fee (PUC)	479	41		519	\$	1	\$	520
670	Bad Debt Expense	-	-	\$	-	\$	-	\$	-
671	Cross Connection Control Program	150	(7		75	\$	-	\$	75
673	Training and Certification	-	-	\$	-	\$	-	\$	-
674	Consumer Confidence Report	157	-	\$	157	\$	-	\$	157
675	Miscellaneous Expense	2,759	(21		2,544	\$	(190)	\$	2,354
OE1	Other Expense 1			\$	-	\$	-	\$	-
OE2	Other Expense 2			\$	-	\$	-	\$	-
OE3	Other Expense 3			\$	-	\$	-	\$	-
OE4	Other Expense 4			\$	-	\$	-	\$	-
OE5	Other Expense 5			\$	<u> </u>	\$		\$	
	TOTAL OPERATING EXPENSE	\$ 136,929	\$ 65,15	8 \$	202,087	\$	(114,855)	\$	87,232

OTHER REVENUE DEDUCTIONS Depreciation Expense

403	Depreciation Expense
406	Amort of Plant Acquisition Adjustmen
407	Amortization Expense

408.11 Property Tax
408.12 Payroll Tax
408.13 Other
409.10 Federal Income Tax

409.11 Oregon Income Tax

409.13 Extraordinary Items Income Tax TOTAL REVENUE DEDUCTIONS

Net Operating Income
LITH ITV DATE BACE

101	Utility Plant in Service
105	Construction Work in Progre

Construction Work in Progress

- Accumulated Depreciation of Plant

- Contributions in Aid of Construction

+ Accumulated Amortization of CIAC

- Accumulated Deferred Income Tax 108 271

272

281

- Excess Capacity
= NET RATE BASE INVESTMENT

= NET RATE BASE INVESTIMENT
Plus: (working capital)
151 Materials and Supplies Inventory
Working Cash (Total Op Exp /12)
TOTAL RATE BASE Rate of Return

23,498		\$	23,498	\$ (2,262)	\$ 21,236
		\$	-	\$ -	\$ -
		\$	-	\$ -	\$ -
9,334	78	\$	9,412	\$ (1,201)	\$ 8,211
7,742	(2,462) \$	5,280	\$ -	\$ 5,280
		\$	-	\$ -	\$ -
		\$	-	\$ 7,086	\$ 7,086
		\$	-	\$ 2,384	\$ 2,384
		\$	-	\$ -	\$ -
\$ 177,503	\$ 62,774	\$	240,277	\$ (108,847)	\$ 131,430
\$ (1,109)	\$ 67,122	\$	66,013	\$ (24,056)	\$ 41,957

1,051,997		\$ 1,051,997	\$ 1,019,060	\$ 2,071,057
		\$ -	\$	\$ -
520,939		\$ 520,939	\$ 193,622	\$ 714,561
		\$ -	\$ 1,077,641	\$ 1,077,641
		\$ -	\$ 195,867	\$ 195,867
		\$ -	\$	\$ -
		\$	\$	\$ -
\$ 531,058	\$ -	\$ 531,058	\$ (56,336)	\$ 474,722
10,195		\$ 10,195	\$ -	\$ 10,195

-0.20%			11.83%				8.52%
\$ 552,664	\$ 5,430	\$	558,094	\$	(65,908)	\$	492,186
11,411	5,430	\$	16,841	\$	(9,572)	\$	7,269
10,195		Ş	10,195	Ş	-	Ş	10,195

		Сар		
	Amount	Struct	Cost	Wtd. Cost
Charlomont Hill LLC (water tank)	204,020	41.45%	7.50%	3.11%
		0.00%		0.00%
		0.00%		0.00%
Total Debt	204,020	41.45%		3.11%
Equity	288,166	58.55%	9.25%	5.42%
		0.00%		0.00%
		0.00%		0.00%
Total Equity	288,166	58.55%		5.42% ROE
Total Debt + Equity	492,186	100.00%		8.52% ROR

PUC Fee (necessary for Working Cash calculation)		
Revenue Requirement (Calculated below)	173,386	
x PUC Fee Rate	0.30%	
= PUC Fee	520 Circu	ular PUC Fee is a component of Revenue Requirement, which is used to calculate PUC Fee.
Working Cash (1/12 of Operating Expenses, including	PUC Fee)	
Total Operating Expenses (Excluding PUC Fee)	86,712	
+ PUC Fee	520	
= Total Oper. Expense	87,232	
÷ Months Per Year	12	
= Working Cash	7,269	
Rate Base		
Net Invested Plant	474,722	
+ Working Cash	7,269	
+ Material/Supplies Inventory	10,195	
= Rate Base	492,186	
Required Net Income		
Rate Base	492,186	
x Rate of Return	8.52%	
= Required Net Income	41,957	
State & Federal Taxes		
Net-to-Gross Factor	400.000/	
Gross Income	100.00%	
- Effective State Tax Rate	6.60%	
= % of Gross Remaining After State Tax	93.40%	
x Effective Federal Tax Rate	21.00%	
= % of Gross to Federal Tax	19.61%	
% of Gross Remaining After State Tax	93.40%	
- % of Gross to Federal Tax	19.61%	
= % Remaining After State & Federal Tax	73.79%	
Gross Income	100.00%	
÷ % Remaining After State & Federal Tax	73.79%	
= NTG Factor	1.35527 Circu	ular NTG Factor requires Effective Tax Rates, which requires Taxable Income, which requires NTG Factor.
Taxable Income		
Rate Base	492,186	State Tax Brackets
x Return on Equity	5.42%	Lower Bound Rate
= After-Tax Profit	26,655	
x NTG Factor	1.3553	\$ - 6.6%
= Pretax Profit (Taxable Income)	36,125	\$ 1,000,000 7.6%
State Tax		Federal Tax Brackets
Taxable Income	36,125	Lower Bound Rate
x Effective State Tax Rate	6.60%	
= State Tax	2,384	\$ - 15% \$ 50,000 25%
Federal Tax		\$ 75,000 34%
Taxable Income	36,125	\$ 100,000 39%
- State Tax	2,384	\$ 335,000 34%
= Federal Taxable Income	33,741	\$ 10,000,000 35%
x Effective Federal Tax Rate	21.00%	\$ 15,000,000 38%
= Federal Tax	7,086	\$ 18,333,333 35%

|--|

Total Operating Expenses (Non-revenue-sensitive)	86,712	All Operating Expenses, except PUC Fee
+ Total Other Deductions (Non-revenue-sensitive)	34,727	All 'Other Revenue Deductions' except State & Federal Taxes
= Total Non-Revenue-Sensitive Deductions	121,439	

Revenue Requirement Non-Revenue-Sensitive Deductions

IIC V	ende Requirement	
	Non-Revenue-Sensitive Deductions	121,439
+	Required Net Income	41,957
+	Taxes	9,470
+	PUC Fee	520
=	Revenue Requirement	173,386
	nevenue negunement	27 0,000

unt RATIN	IG EXPENSES	<u> </u>	est Year	, , , ,	ljustments	<u> </u>	Total
	Salaries and Wages - Employees						
	Company Proposed	\$ \$	-	\$	-	\$	
	Staff Proposed Total Staff Adjustment	\$		\$	-	\$ \$	
	-						
	Salaries and Wages - Officers						
	Company Proposed	\$	28,258	\$	28,524	Ş	56
	Staff Adjustments: Comparable OWWA salary for Office Mgr (\$43,962) based on described				(47,182)	1	
	duties, level of contractor involvement, and other duties as real estate				(47,102)	-	
- 1	broker.						
	In UW 145, Lesli's salary was \$9,600 and Maryanne's was \$30,000 for						
	a combined total of \$39,600. Minus AI or approval, allow only the amt approved in UW 145 like other AI's.						
	approved in 5 W 115 like other 7 ii 5.						
	Staff Proposed	\$	28,258	\$	(18,658)		9
	Total Staff Adjustment	\$	-	\$	(47,182)	\$	(47
C04	Employee Parsion & Paradita						
	Employee Pension & Benefits Company Proposed	\$	_	\$	24,000	¢	24
	Staff Adjustments:	Y		Y	24,000	Y	2-7
	No current benefit to water customers; retroactive ratemaking.				(24,000)		
	Staff Proposed	\$	-	\$	-	\$	
Ĺ	Total Staff Adjustment	\$	-	\$	(24,000)	\$	(24
610	Purchased Water						
	Company Proposed	\$	-	\$	_	\$	
	Staff Adjustments:						
						-	
						-	
	0.00]	
	Staff Proposed Total Staff Adjustment	\$ \$	-	\$		\$ \$	
Ĺ	Total Stall Adjustment	۲		٧		7	
611	Telephone/Communications						
	Company Proposed	\$	3,171	\$	(1,748)	\$	1
	Staff Adjustments:				(420)	1	
	DR 14-Double entry of (\$419.60) per Company response.				(420)		
l	Staff Proposed	\$	3,171	\$	(2,168)	s S	1
	Total Staff Adjustment	\$	-	\$	(420)		
-							_
	Purchased Power	,				,	
	Company Proposed Staff Proposed	\$ \$	197 197	\$ \$	-	\$ ¢	
	Staff Proposed Total Staff Adjustment	\$	197	\$		\$ \$	
ļ	rotarotan Aujustinent	ر ا	-	ر ا		۲ ا	
616	Fuel for Power Production						
	Company Proposed	\$	-	\$	-	\$	
	Staff Proposed	\$	-	\$		\$	
	Total Staff Adjustment	\$	-	\$	-	\$	
	Other Utilities						
617		\$	-	\$	-	\$	
	Company Proposed			\$	-	\$	
	Company Proposed Staff Proposed	\$					
-		\$	-	\$		\$	
[Staff Proposed Total Staff Adjustment		-	\$	-	\$	
[618	Staff Proposed Total Staff Adjustment Chemical / Treatment Expense	\$	-				
618	Staff Proposed Total Staff Adjustment Chemical / Treatment Expense Company Proposed	\$		\$	<u>-</u>	\$	
618	Staff Proposed Total Staff Adjustment Chemical / Treatment Expense Company Proposed Staff Proposed	\$ \$ \$	- - -	\$ \$	- - -	\$ \$	
618	Staff Proposed Total Staff Adjustment Chemical / Treatment Expense Company Proposed	\$	- - - -	\$	- - - -	\$	
[618 [619	Staff Proposed Total Staff Adjustment Chemical / Treatment Expense Company Proposed Staff Proposed Total Staff Adjustment Office Supplies	\$ \$ \$	- - - -	\$ \$	- - - -	\$ \$	
618 [619	Staff Proposed Total Staff Adjustment Chemical / Treatment Expense Company Proposed Staff Proposed Total Staff Adjustment	\$ \$ \$	- - - - - 767 767	\$ \$	- - -	\$ \$	

.1 Postage Company Prop	osed	\$	462	\$	_	\$	46
Staff Proposed		\$ \$	462	\$ \$	-	\$ \$	46
Total Staff Ad	stment	\$ \$	- 402	\$	<u> </u>	۶ \$	-
Total Stall Maj	Series	7		7		Υ	
0 O&M Materia	s/Supplies						
Company Prop	• • •	\$	6,583	\$	_	\$	6,5
Staff Adjustme			·				•
Ctoff Dranges			C E 02	<u>_</u>		ċ	6.5
Staff Proposed Total Staff Adj	istment	\$	6,583	\$	-	\$ \$	6,5
Total Stall Au	stillent	۲		٦	- 1	y	
1 Repairs to Wa	er Plant						
Company Pro		\$	6,171	Ś	_	\$	6,1
Staff Proposed		, \$	6,171	\$	_	;	6,1
Total Staff Adj	stment	Ś	-	Ś	-	Ś	-
		1 7		т	ı	T	
1 Contract Svcs	Engineering						
Company Prop		\$	_	\$	_	\$	_
Staff Proposed		\$	_	\$	_	\$	_
Total Staff Adj	stment	\$		\$	_	ب \$	
. Star Starr Au		۲		۲,		-	
2 Contract Svcs	Accounting						
Company Prop	=	\$	3,279	\$	_	\$	3,2
Staff Proposed	JJCu	\$ \$	3,279		-	\$ \$	3,2
Total Staff Adj	istment	<u> </u>	3,219	\$	<u>-</u>	\$ \$	3,2
TOTAL STALL HO	oment	۱۶	-	ر ا	-	ب	
3 Contract Svcs	Logol						
	=	ć		<u>ر</u>	1 700	ć	1 7
Company Prop	Jocu	\$	-	\$	-	\$ ¢	1,7
Staff Proposed	ist wo out	\$	-	\$		\$	1,7
Total Staff Ad	istinetit	\$	-	\$	-	\$	-
A Comtu	Managament For-						
	Management Fees			,		۲.	
Company Prop	osea	\$	-	\$	-	\$	-
Staff Proposed		\$	-	\$		\$	-
Total Staff Adj	istment	\$	-	\$	-	\$	-
	Taskina						
5 Contract Svcs	_		2 -		:	,	
Company Prop	osea	\$	2,310		(1,055)		1,2
Staff Proposed		\$	2,310	\$	(1,055)		1,2
Total Staff Adj	istment	\$	-	\$	-	\$	-
)	Lahor						
66 Contract Svcs			10 122	Ļ	(0.240)	ċ	_
Company Prop	JSEU	\$	10,133		(9,319)		83
Staff Proposed	estment	\$	10,133	\$ ¢	(9,319)		8:
Total Staff Adj	istment	\$	-	\$	-	\$	-
7 6	Dilling/Collection						
	Billing/Collection	_	0.1	,	4.01-	Ċ	
Company Prop	osed	\$	8,198		-	\$	9,83
Staff Proposed		\$	8,198	\$		\$	9,83
Total Staff Adj	stment	\$	-	\$	-	\$	-
8 Contract Svcs	_					_	
Company Prop	osed	\$	-	\$	-	\$	-
Staff Proposed		\$	-	\$	-	\$	-
Total Staff Adj	stment	\$	-	\$	-	\$	-
_				_		_	_
9 Contract Svcs							
Company Prop	osed	\$	48,640	\$	1,319	\$	49,9
Staff Adjustme	nts:						
DR 42Subtra	t the three year average of the Capitalized Labor cost	S			(25,869)		
	4-2016 years is \$25,869.20						
	rator contract is \$49,959.						
	or costs were proposed at \$11,000, and adjstd to a						
	l of repairs, O&M, and labor total of \$8,581 (not						
	alized labor). By Comparison, in UW 174, Company						
	959 for contract, minus \$25,869 cap labr.						
Staff Proposed		\$	48,640	\$	(24,550)	\$	24,09
Total Staff Adj	istment	\$		\$		\$	(25,8
. III. Stall Maj	-			τ	,,		,,
1 Rental of Buil	ing/Real Property						
		\$	7,000	Ś	15,000	Ś	22,00
Company Proj		7	.,000	7	,	т	,00
Company Prop Staff Adjustme	eements, Al's newly filed, pending outcome Al review	,			(15,000)		
Staff Adjustme	comments, All a newly fried, perialing outcome Afreview				(13,000)		
Staff Adjustme							
DR 9No Al ag	Al costs used comparables to Clackamas						
Staff Adjustme DR 9No Al ag	Al costs used comparables to Clackamas						
Staff Adjustme DR 9No Al ag	Al costs used comparables to Clackamas e units would provide more accurate comparable.						
Staff Adjustme DR 9No Al ag Justification fo							

	0. ((0)						-
	Staff Proposed Total Staff Adjustment	\$	7,000	\$	(15,000)	\$ \$	7,000
	Total Staff Adjustment	Ş		Ş	(15,000)	Þ	(15,000)
6/12	Rental of Equipment						
042	Company Proposed	\$	_	\$	_	\$	_
	Staff Proposed	\$	_	\$	_	\$	_
	Total Staff Adjustment	\$		\$	_	\$	
	Total Stall Adjustment	Υ		7		Y	
643	Small Tools						
0-15	Company Proposed	\$	_	\$	_	\$	_
	Staff Proposed	\$	_	\$	_	\$	_
	Total Staff Adjustment	Ś	_	\$	_	\$	_
	Total Staff Majastificiti	7		7		Y	l l
648	Computer/Electronic Expenses						
	Company Proposed	\$	107	\$	-	\$	107
	Staff Proposed	\$	107	\$	_	\$	107
	Total Staff Adjustment	\$	-	\$	-	\$	-
						•	
650	Transportation						
	Company Proposed	\$	2,742	\$	(90)	\$	2,652
	Staff Adjustments:		,		, ,		•
	All contract labor, justification of meter reading and checking water				(873)		
	lines is also in the water Operator contract. Cost out of porportion-				(/		
	to use. \$211 in cc for gas=\$2.50 per gal, approx 84 gal, or 1351 miles						
	at 16 mpg @ .545 fed mileage tax, allow \$736 for mileage of Buick						
	and all the WHO and Cunningham invoices @ 1043 for a total of						
	\$1779. Company total 2,652-1779=(873) adjustment						
	, , , , , , , , , , , , , , , , , , , ,						
	DR 28, 29, & 70						
	Staff Proposed	\$	2,742	\$	(963)	\$	1,779
	Total Staff Adjustment	\$	-	\$	(873)		(873)
	•				,//		·/
656	Vehicle Insurance						
	Company Proposed	\$	1,322	\$	-	\$	1,322
	• • •		,				•
	DR 28, 29, 70 & 71 See comments above relating to vehicleremove insurance	ce			(1,322)		
	expense based on mileage reimbursement above. No vehicle insurance				(, , ,		
	allowance in UW 145.						
	Staff Proposed	ċ		<u> </u>			
		\$	1,322	\$	(1,322)	\$	
	Total Staff Adjustment	\$	1,322	\$		\$ \$	(1,322)
	'		1,322				(1,322)
657	'		1,322 -				(1,322)
657	Total Staff Adjustment		1,322 - 4,044			\$	(1,322) 3,066
657	Total Staff Adjustment General Liability Insurance	\$	-	\$	(1,322)	\$	
657	Total Staff Adjustment General Liability Insurance Company Proposed	\$	4,044	\$	(1,322) (978)	\$	3,066
657	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed	\$ \$ \$	- 4,044 4,044	\$ \$	(1,322) (978) (978)	\$ \$ \$	3,066 3,066
	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed	\$ \$ \$	- 4,044 4,044	\$ \$	(1,322) (978) (978)	\$ \$ \$	3,066 3,066
	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment	\$ \$ \$	- 4,044 4,044	\$ \$	(1,322) (978) (978)	\$ \$ \$	3,066 3,066
	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance	\$ \$ \$	- 4,044 4,044	\$ \$ \$	(1,322) (978) (978)	\$ \$ \$	3,066 3,066
	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed	\$ \$ \$ \$	- 4,044 4,044	\$ \$ \$	(1,322) (978) (978)	\$ \$ \$	3,066 3,066
	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed	\$ \$ \$ \$	- 4,044 4,044	\$ \$ \$ \$	(1,322) (978) (978)	\$ \$ \$	3,066 3,066
658	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed	\$ \$ \$ \$	- 4,044 4,044	\$ \$ \$ \$	(1,322) (978) (978)	\$ \$ \$	3,066 3,066
658	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment	\$ \$ \$ \$ \$	- 4,044 4,044	\$ \$ \$ \$	(1,322) (978) (978)	\$ \$ \$	3,066 3,066
658	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Staff Proposed	\$ \$ \$ \$ \$ \$ \$	- 4,044 4,044	\$ \$ \$ \$ \$ \$	(1,322) (978) (978)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,066 3,066
658	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed	\$ \$ \$ \$ \$	- 4,044 4,044	\$ \$ \$ \$ \$	(1,322) (978) (978)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,066 3,066
658	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Staff Proposed	\$ \$ \$ \$ \$ \$ \$	- 4,044 4,044	\$ \$ \$ \$ \$ \$	(1,322) (978) (978)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,066 3,066 - - - - - -
658 659	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Staff Proposed	\$ \$ \$ \$ \$ \$ \$	- 4,044 4,044	\$ \$ \$ \$ \$ \$	(1,322) (978) (978)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,066 3,066 - - - - - -
658 659	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Staff Proposed Total Staff Adjustment Total Staff Adjustment	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044	\$ \$ \$ \$ \$ \$	(1,322) (978) (978)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,066 3,066 - - - - - -
658 659	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Staff Proposed	\$ \$ \$ \$ \$ \$	- 4,044 4,044	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,066 3,066 - - - - - -
658 659	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044	\$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,066 3,066 - - - - - - - -
658 659	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Staff Proposed Staff Proposed Total Staff Adjustment	\$ \$ \$ \$ \$ \$	- 4,044 4,044	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,066 3,066 - - - - - - - - - - - - - - - - - -
658 659	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Staff Proposed	\$ \$ \$ \$ \$ \$	- 4,044 4,044	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,066 3,066 - - - - - - - - - - - - - - - - - -
658 659	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Staff Proposed Staff Proposed Total Staff Adjustment	\$ \$ \$ \$ \$ \$	- 4,044 4,044	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,066 3,066 - - - - - - - - - - - - - - - - - -
658 659	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC)	\$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044 - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - - - - - - - - - - - -	\$	3,066 3,066 - - - - - - - - - - - - - - - -
658 659	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed	\$ \$ \$ \$ \$ \$ \$	- 4,044 4,044 - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - - - - - - - - - - - -	\$	3,066 3,066 - - - - - - - - - - - - - - - - - -
658 659 666	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Proposed Total Staff Adjustment	\$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044 - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - - - - - - - - - - - -	\$	3,066 3,066 - - - - - - - - - - - - - - - - - -
658 659 666	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Proposed Total Staff Adjustment	\$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044 - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - - - - - - - - - - - -	φ φ	3,066 3,066 - - - - - - - - - - - - - - - - - -
658 659 666	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Proposed Total Staff Adjustment Bad Debt Expense Company Proposed	\$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044 - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - - - - - - - - - - - -	φ φ φ φ φ φ φ	3,066 3,066 - - - - - - - - - - - - - - - - - -
658 659 666	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Proposed Total Staff Adjustment Bad Debt Expense Company Proposed Staff Proposed Staff Proposed	\$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044 - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - - - - - - - - - - - -	\$	3,066 3,066 - - - - - - - - - - - - - - - - - -
658 659 666	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Proposed Total Staff Adjustment Bad Debt Expense Company Proposed	\$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044 - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - - - - - - - - - - - -	φ φ φ φ φ φ φ	3,066 3,066 - - - - - - - - - - - - - - - - - -
658 659 666 670	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Proposed Total Staff Adjustment Bad Debt Expense Company Proposed Staff Proposed Total Staff Adjustment	\$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044 - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - - - - - - - - - - - -	\$	3,066 3,066 - - - - - - - - - - - - - - - - - -
658 659 666 670	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Proposed Total Staff Adjustment Bad Debt Expense Company Proposed Staff Proposed Total Staff Adjustment Cross Connection Control Program	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044 - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - - - - - - - - - - - -	φ φ	3,066 3,066 - - - - - - - - - - - - - - - - - -
658 659 666 670	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Proposed Total Staff Adjustment Bad Debt Expense Company Proposed Staff Proposed Total Staff Adjustment Cross Connection Control Program Company Proposed	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044 - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - - - - - - - - - - - -	φ φ	3,066 3,066 - - - - - - - - - - - - - - - - - -
658 659 666 670	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Proposed Total Staff Adjustment Bad Debt Expense Company Proposed Staff Proposed Total Staff Adjustment Cross Connection Control Program Company Proposed Staff Proposed	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044 - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - - - - - - - - - - - -	% %	3,066 3,066 - - - - - - - - - - - - - - - 1 519 520 1
658 659 666 670	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Proposed Total Staff Adjustment Bad Debt Expense Company Proposed Staff Proposed Total Staff Adjustment Cross Connection Control Program Company Proposed	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044 - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - - - - - - - - - - - -	φ φ φ φ φ φ φ φ	3,066 3,066 - - - - - - - - - - - - - 1 - - - -
658 659 666 670	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Adjustment Bad Debt Expense Company Proposed Staff Proposed Total Staff Adjustment Cross Connection Control Program Company Proposed Staff Proposed Total Staff Adjustment Cross Connection Control Program Company Proposed Staff Proposed Total Staff Adjustment	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044 - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - - - - - - - - - - - -	% %	3,066 3,066
658 659 666 670	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Proposed Total Staff Adjustment Bad Debt Expense Company Proposed Staff Proposed Total Staff Adjustment Cross Connection Control Program Company Proposed Staff Proposed Total Staff Adjustment Training and Certification	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044 - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - - - - - - - - - - - -	φ φ	3,066 3,066
658 659 666 670	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Proposed Total Staff Adjustment Bad Debt Expense Company Proposed Staff Proposed Total Staff Adjustment Cross Connection Control Program Company Proposed Staff Proposed Total Staff Adjustment Cross Connection Control Program Company Proposed Staff Proposed Total Staff Adjustment Training and Certification Company Proposed	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044 - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - - - - - - - - - - - -	% % % % % % % % %	3,066 3,066
658 659 666 670	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Proposed Total Staff Adjustment Bad Debt Expense Company Proposed Staff Proposed Total Staff Adjustment Cross Connection Control Program Company Proposed Staff Proposed Total Staff Adjustment Training and Certification	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044 - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - - - - - - - - - - - -	φ φ	3,066 3,066
658 659 666 670	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Proposed Total Staff Adjustment Bad Debt Expense Company Proposed Staff Proposed Total Staff Adjustment Cross Connection Control Program Company Proposed Staff Proposed Total Staff Adjustment Cross Connection Control Program Company Proposed Staff Proposed Total Staff Adjustment Training and Certification Company Proposed	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044 - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - - - - - - - - - - - -	• •	3,066 3,066
658 659 666 670	Total Staff Adjustment General Liability Insurance Company Proposed Staff Proposed Total Staff Adjustment Workers' Comp Insurance Company Proposed Staff Proposed Total Staff Adjustment Insurance - Other Company Proposed Staff Proposed Total Staff Adjustment Amortz. of Rate Case Company Proposed Staff Proposed Total Staff Adjustment Gross Revenue Fee (PUC) Company Proposed Staff Proposed Total Staff Adjustment Bad Debt Expense Company Proposed Staff Proposed Total Staff Adjustment Cross Connection Control Program Company Proposed Staff Proposed Total Staff Adjustment Training and Certification Company Proposed Staff Proposed Staff Proposed Total Staff Adjustment	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,044 4,044 - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1,322) (978) (978) - - - - - - - - - - - - - - - - - - -	φ φ	3,066 3,066

	Company Parameter	ć	457	.	¢	457
	Company Proposed Staff Proposed	\$ \$	157 157	\$ \$	- \$ - \$	157 157
	Total Staff Adjustment	\$	-	\$	- \$	-
675	Miscellaneous Expense Company Proposed	\$	2,759	\$	(215) \$	2,544
	Staff Adjustments:	Y	2,733	7	(213) \$	2,311
	Finance charge (Exhibit 2)				(1)	
	Tax extension (Exhibit 2)				(150)	
	Bank charge (Exhibit 2) Bank charge (Exhibit 2)				(33)	
	Sam analys (Extract 2)				(3)	
	Staff Proposed	\$	2,759	\$	(405) \$	2,354
	Total Staff Adjustment	\$	-	\$	(190) \$	(190)
	-1 -					
OE1	Other Expense 1 Company Proposed	\$	_	\$	- \$	_
	Staff Proposed	\$	-	\$	- \$	
	Total Staff Adjustment	\$	-	\$	- \$	-
053	Other Funers 2					
OE2	Other Expense 2 Company Proposed	\$	_	\$	- \$	_
	Staff Proposed	\$	-	\$	- \$	
	Total Staff Adjustment	\$	-	\$	- \$	-
0.53	Other Funers 2					
OE3	Other Expense 3 Company Proposed	\$	-	\$	- \$	_
	Staff Proposed	\$	-	\$	- \$	-
	Total Staff Adjustment	\$	-	\$	- \$	-
054	Other Funera A					
OE4	Other Expense 4 Company Proposed	\$	-	\$	- \$	_
	Staff Proposed	\$	-	\$	- \$	-
	Total Staff Adjustment	\$	-	\$	- \$	-
055	Other Funers F					
OE5	Other Expense 5 Company Proposed	\$	_	\$	- \$	_
	Staff Proposed	\$	-	\$	- \$	-
	Total Staff Adjustment	\$	-	\$	- \$	-
OTHER RE	EVENUE DEDUCTIONS					
	Depreciation Expense					
	Company Proposed	\$	-	\$	- \$	23,498
	Staff Proposed Total Staff Adjustment	\$	23,498	\$	(2,262) \$ (2,262) \$	21,236 (2,262)
	Total Stall Adjustillent	Ą		۲	(2,202)	(2,202)
406	Amort of Plant Acquisition Adjustment					
	Company Proposed	\$	-	\$	- \$	-
	Staff Proposed Total Staff Adjustment	\$ \$	-	\$	- \$ - \$	
	Total Stall Adjustillerit	Ş	-	Ş	<u> </u>	
407	Amortization Expense					
	Company Proposed	\$	-	\$	- \$	-
	Staff Proposed	\$ \$	-	\$	- \$ - \$	-
	Total Staff Adjustment	\$	-	\$	- \$	-
408.11	Property Tax					
	Company Proposed	\$	9,334	\$	78 \$	9,412
	Staff Adjustments:				(1.201)	
	DR 2-Remove property taxes for barn lot owned by trustee/Lesli Bekins that is leased to water company pending outcome of AI review				(1,201)	
	State of the state					
	Staff Proposed	\$	9,334	\$	(1,123) \$	8,211
	Total Staff Adjustment	\$	-	\$	(1,201) \$	(1,201)
408.12	Payroll Tax					
	Company Proposed	\$	7,742	\$	(2,462) \$	5,280
	Staff Proposed	\$	7,742	\$	(2,462) \$	5,280
	Total Staff Adjustment	\$	-	\$	- \$	-
408.13	Other					
	Company Proposed	\$	-	\$	- \$	-
	Staff Proposed	\$	-	\$	- \$	
				-	,	
	Total Staff Adjustment	\$	-	\$	- \$	-
409.1	Total Staff Adjustment		-	\$	- \$	-
409.1			-	\$	- \$	<u>-</u> -
409.1	Total Staff Adjustment Federal Income Tax Company Proposed Staff Proposed	\$ \$	- - -	\$	- \$ 7,086 \$	- 7,086
409.1	Total Staff Adjustment Federal Income Tax Company Proposed	\$	- - -	\$	- \$	-

400 11	Oregon Income Tax					
403.11	Company Proposed	\$	-	\$	- \$	-
	Staff Proposed	\$	-	\$	2,384 \$	2,384
	Total Staff Adjustment	\$	-	\$	2,384 \$	2,384
400 12	Extraordinary Itams Income Tay					
409.13	Extraordinary Items Income Tax Company Proposed	\$	_	\$	- \$	_
	Staff Proposed	\$	_	\$	- \$	_
	Total Staff Adjustment	\$	_	\$	- \$	-
'					•	
UTILITY RA						
101	Utility Plant in Service	,	1 051 007	ć	ć	1 051 007
	Company Proposed Staff Adjustments:	\$	1,051,997	\$	- \$	1,051,997
1	Adjust to match Plant scheduleslook at DR relating to meter addition				1,019,060	
	in last rate case, plus actual meters added, tyrolean addition, mileage,					
	100,000 water tower additional expense in 1980					
	DR 38Tyrolean Meadows Overruns True Up (\$14,419)					
	DR 40ADD: Allowance for Instaling Meters (\$49,500)					
	DR 37-Correct water tower expense of \$48,475 to \$59,249.22 for a					
	upward increase of \$10,774					
	Staff Proposed	\$	1,051,997	\$	1,019,060 \$	2,071,057
	Total Staff Adjustment	\$	-	\$	1,019,060 \$	1,019,060
		1 7		Т.	_,,,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_,
105	Construction Work in Progress					
	Company Proposed	\$	-	\$	- \$	-
,	Staff Adjustments:					
	CWIP removed from Plant				5,441	
	Rmv CWIP pending outcome of DR response		(5,441)			
1	Staff Proposed	\$	(5,441)		5,441 \$	-
	Total Staff Adjustment	\$	(5,441)	\$	5,441 \$	-
	Staff Adjustments: Automatic adjustment to match Plant schedules Note: true up of plant uses original install date. No 2017 depreciation included.				193,622	
	Staff Proposed	\$	520,939	\$	193,622 \$	714,561
	Total Staff Adjustment	\$	-	\$	193,622 \$	193,622
271	- Contributions in Aid of Construction					
	Company Proposed	\$ \$	-	\$	- \$	1 077 641
ĺ	Staff Proposed Total Staff Adjustment	\$		\$	1,077,641 \$ 1,077,641 \$	1,077,641 1,077,641
ļ	Total Stall Majastificiti	, Y		7	1,077,041	1,077,041
272	+ Accumulated Amortization of CIAC					
	Company Proposed	\$	-	\$	- \$	-
,	Staff Proposed	\$	-	\$	195,867 \$	195,867
	Total Staff Adjustment	\$	-	\$	195,867 \$	195,867
304	Assumulated Deferred Income Toy					
281	- Accumulated Deferred Income Tax	^		Ļ		
	Company Proposed Staff Proposed	\$ \$	-	\$ \$	- \$ - \$	-
j	Total Staff Adjustment	\$	<u> </u>	\$	- ş - s	<u> </u>
ļ		۱ ۲		Υ.	1 7	
0	- Excess Capacity					
	Company Proposed	\$	-	\$	- \$	-
1	Staff Proposed	\$	-	\$	- \$	-
	Total Staff Adjustment	\$	-	\$	- \$	-
	2.2.1					
Working (_		,		
151	Materials and Supplies Inventory Company Proposed	\$ \$	- 10,195	\$ \$	- \$ - \$	10 105
	Staff Proposed	\$ \$	10,195	\$	- \$ - \$	10,195 10,195
j	Total Staff Adjustment	\$	10,195	\$	- ş - s	10,195
	. otal otali najadiliont	ڔ	-	ب	- 13	-
0	Working Cash (Total Op Exp /12)					
•	Company Proposed	\$	11,411	\$	5,430 \$	16,841
	Staff Adjustments:		<u> </u>	_		•
	Automatic calculation (see 'calculations' tab)				(9,572)	
		-		_		
				1		

Staff Proposed	Ç	\$ 11,41	1 \$	(4,142)	\$ 7,269
Total Staff Adjustment	Ş	\$ -	\$	(9,572)	\$ (9,572)

Adjustment Summary

REVENUES
Unmetered
Residential Flat Rate Water Sales
Commercial Flat Rate Water Sales
Residential Metered Water Sales
Commercial Metered Water Sales
Fire Protection Sales (Hydrant Mtc.)
Hydrant Water Sales (Water Hauling)
Water Sales for Resale
Miscellaneous Services
Cross Connection Control

Total Revenue

Other

Acct .	OPERATING EXPENSES
601	Salaries and Wages - Employees
603	Salaries and Wages - Officers
604	Employee Pension & Benefits
610	Purchased Water
611	Telephone/Communications
615	Purchased Power
616	Fuel for Power Production
617	Other Utilities
618	Chemical / Treatment Expense
619	Office Supplies
619.1	Postage
620	O&M Materials/Supplies
621	Repairs to Water Plant
631	Contract Svcs - Engineering
632	Contract Svcs - Accounting
633	Contract Svcs - Legal
634	Contract Svcs - Management Fees
635	Contract Svcs - Testing
636	Contract Svcs - Labor
637	Contract Svcs - Billing/Collection
638	Contract Svcs - Meter Reading
639	Contract Svcs - Other
641	Rental of Building/Real Property
642	Rental of Equipment
643	Small Tools
648	Computer/Electronic Expenses
650	Transportation
656	Vehicle Insurance
657	General Liability Insurance
658	Workers' Comp Insurance
659	Insurance - Other
666	Amortz. of Rate Case
667	Gross Revenue Fee (PUC)
670	Bad Debt Expense
671	Cross Connection Control Program
673	Training and Certification
674	Consumer Confidence Report
675	Miscellaneous Expense
OE1	Other Expense 1
OE2	Other Expense 2
OE3	Other Expense 3
OE4	Other Expense 4
OE5	Other Expense 5
	TOTAL OPERATING EXPENSE

OTHER REVENUE DEDUCTIONS

403	Depreciation Expense
406	Amort of Plant Acquisition Adjustment
407	Amortization Expense
100 11	Proporty Tay

407 AMORTIZATION EXPENSE
408.11 Property Tax
408.12 Payroll Tax
408.13 Other
409.10 Federal Income Tax
409.11 Oregon Income Tax
409.11 Extraordinary Items Income Tax
TOTAL REVENUE DEDUCTIONS

No. Operating Income Net Operating Incor

UTILITY RATE BASE

Rate of Return

101	Utility Plant in Service
105	Construction Work in Progress
108	- Accumulated Depreciation of Plant
271	- Contributions in Aid of Construction
272	+ Accumulated Amortization of CIAC
281	- Accumulated Deferred Income Tax
	- Excess Capacity
	= NET RATE BASE INVESTMENT
	Plus: (working capital)
151	Materials and Supplies Inventory
	Working Cash (Total Op Exp /12)
	TOTAL RATE BASE

			Staff			
С	ompany	Αdjι	istments to	Sta	ff Proposed	
Prop	oposed Totals Company Totals Totals				Totals	Explanation of Adjustment
\$	-	\$	-	\$	-	
\$	90,356	\$	(2,894)	\$	87,462	revenue sensitive adjustment-residential and commercial flat rate combined
\$	27,927	\$	(27,927)	\$	-	revenue sensitive adjustment-residential and commercial flat rate combined
\$	21,019	\$	(21,019)	\$	-	revenue sensitive adjustment-combining res and commercial metered rate
\$	160,569	\$	(82,682)	\$	77,887	revenue sensitive adjustment-combining res and commercial metered rate
\$	2,188	\$	(658)	\$	1,490	DR 36-3 year avg of expenses is \$1263 per year/2016 test yr expense was \$1,530
\$	4,231			\$	1,986	Adjusted to Staff proposed consumption rate
\$	-	\$	-	\$	-	
\$	-	\$	4,562	\$	4,562	Revenues added for inclusion in rate case as revenue source.
\$	-	\$	-	\$	-	
\$	-	\$	-	\$	-	
\$	-	\$	-	\$	-	
Ś	306,290	ď	(132.904)	Ċ	173.386	

\$	\$ (114,		\$ 87,232	
\$ -	\$	-	\$ - \$ -	
\$ -	\$	-	\$ - \$ -	
\$ -	\$	-	\$ -	
\$ -	\$	-	\$ -	
\$ 2,544		190)	\$ 2,354	Removed finance charges on bills.
\$ 157	\$	-	\$ 157	
\$ -	\$	-	\$ -	
\$ 75	\$	-	\$ 75	
\$ -	\$	-	\$ -	
\$ 519	\$	1	\$ 520	
\$ 6,333	\$	-	\$ 6,333	
\$ -	\$	-	\$ -	
\$ -	\$	-	\$ -	
\$ 3,066			\$ 3,066	
\$ 1,322		,322)	\$ -	DR 28, 29, 69, 70, 71Buick reimbursed as mileage, rmv insurance, not in UW 145
\$ 2,652		873)	\$ 1,779	
\$	\$		\$ 107	
\$ -	\$		\$ -	
\$ -	\$	-	\$ -	
\$ 22,000		(000,	\$ 7,000	Remved addntl AI costs pending review of newly filed AI contracts by Staff.
\$ 49,959		,869)	\$ 24,090	DR 42Removed 3 year avg. (2014-2016) of Capitalized Labor
\$ -	\$	-	\$ -	
\$ 9,838	\$,	\$ 9,838	
\$ 814	\$	-	\$ 814	
\$ 1,255	\$	-	\$ 1,255	
\$ -	\$,	\$ -	
\$ 1,782	\$	-	\$ 1,782	
\$ 3,279	\$,	\$ 3,279	
\$ -	\$	-	\$ -	
\$ 6,171	\$	-	\$ 6,171	
\$ 6,583	\$	-	\$ 6,583	
\$ 462	\$	-	\$ 462	
\$ 767	\$	-	\$ 767	
\$ -	\$	-	\$ -	
\$ -	\$	-	\$ -	
\$ -	\$	-	\$ -	
\$ 197	\$	-	\$ 197	
\$ 1,423	\$ ((420)	\$ 1,003	DR 14Double entry per Company
\$ -	\$	-	\$ -	
\$ 24,000	\$ (24.	,000)	\$ -	Remove as no current benefit to customers; imprudent expense.
\$ 56,782		182)	\$ 9,600	Adj. to same salary as UW 145 due to no Al contracts filed or approved
\$	\$	-	\$ -	

\$ 23,498	\$ (2,262)	\$ 21,236	Reflects Plant adj; ratemodel re-calculation
\$,	\$ -	\$ -	
\$	\$ -	\$ -	
\$ 9,412	\$ (1,201)	\$ 8,211	Rmvd Property Tax for property belonging to trustee/Lesli Ann Bekins pending AI rvw
\$ 5,280	\$ -	\$ 5,280	
\$ -	\$ -	\$ -	
\$	\$ 7,086	\$ 7,086	
\$ -	\$ 2,384	\$ 2,384	
\$ -	\$ -	\$ -	
\$ 240,277	\$ (108,847)	\$ 131,430	
\$ 66,013	\$ (24,056)	\$ 41,957	

\$ 1,051,997	\$ 1,019,060	\$ 2,071,057	Rmvd meter allwnc, dble Tyrolean Meadows entry/CWIP/corrected Tank expense
\$ -	\$ -	\$ -	
\$ 520,939	\$ 193,622	\$ 714,561	Automatic Rate Model adj. per other Plant adjustments.
\$ -	\$ 1,077,641	\$ 1,077,641	
\$ -	\$ 195,867	\$ 195,867	
\$	\$ -	\$ -	
\$	\$ -	\$ -	
\$ 531,058	\$ (56,336)	\$ 474,722	
\$ 10,195	\$ -	\$ 10,195	

7,269

492,186 8.52%

(65,908) \$

558,094 \$ 11.83%

Rate Spread

TOTAL REVENUE REQUIREMENT	173,386	
REVENUE FROM WATER SALES	165,348	Allocation Factor
REVENUE FROM WATER SALES		
Residential and Commercial Flat Rate	87462	52.90%
Residential and Commercial Metered Rate	77887	47.10%
REVENUE FROM SOURCES OTHER THAN WATER SALES		
Miscellaneous Service Charges	4,562	
Fire Protection Sales (Hydrant Mtc)	1,490	
Commercial Water Haulers	1,986	
TOTAL REVENUE (Must equal Total Revenue Requirement)	173,386	•

								BASE RATES			COMMODITY RATES			AVERAGE BILLS		REVE	REVENUE PROOF (Staff Checker)			
Line Type & Size	Test Year Customers	Test Year Consumption (cf)	New Customers	Estimated New Consumption	Total Projected Customers	Total Projected Consumption	Current Rate	Staff Proposed Rate	Difference %		Current Rate	Staff Proposed Rate	Difference (%)	Current	Rate Sta	aff Proposed Rate	Difference (%)	Base Rate	Commodity Rate	Total
Water -METERED																				
Residential/Commercial																				
5/8" or 3/4"	73	453,414	0	0	73	453414	\$15.86	\$17.28	8.92%		\$1.12	\$ 0.93	-16.80%	\$21.6	6 \$	22.10	2.04%	\$15,133.08	\$4,224.96	\$19,358.04
1"	16	219,267	0	0	16	219267	\$19.82	\$23.03	16.21%		\$1.12	\$ 0.93	-16.80%	\$32.6	1 \$	33.68	3.26%	\$4,422.45	\$2,043.15	\$6,465.61
1 1/2"	31	679,979			31	679979	\$24.10	\$34.55	43.36%		\$1.12	\$ 0.93		\$44.5		51.58	15.73%	\$12,852.75	\$6,336.12	\$19,188.87
2"	20	839,453			20	839453	\$29.81	\$57.58	93.17%		\$1.12	\$ 0.93		\$68.9		90.18	30.72%	\$13,820.17	\$7,822.11	\$21,642.28
3"	3	0			3	0	\$33.93	\$80.62	137.60%		\$1.12	\$ -	-100.00%	\$33.9		80.62	137.60%	\$2,902.23		\$2,902.23
4"	3	314,733			3	314733	\$34.88	\$92.13	164.15%		\$1.12	\$ 0.93	-16.80%	\$132.		173.60	30.72%	\$3,316.84	\$2,932.72	\$6,249.56
6"	1	739	0	0	1	739	\$40.43	\$172.75	327.29%		\$1.12	\$ 0.93	-16.80%	\$41.1	2 \$	173.33	321.52%	\$2,073.02	\$6.89	\$2,079.91
TOTAL	147	2,507,585	0	0	147	2507585												\$54,520.55	\$23,365.95	\$77,886.50
Water - FLAT																				
Residential/Commercial																				
5/8" or 3/4"	256	flat		#VALUE!	256		\$20.75	\$24.68	18.93%		N/A	N/A	N/A	\$20.7	5 \$	24.68	18.93%	\$75,813.48	\$0.00	\$75,813.48
1"	2	flat		#VALUE!	2		\$24.17	\$41.13	70.18%		N/A	N/A	N/A	\$24.1	7 \$	41.13	70.18%	\$987.15	\$0.00	\$987.15
2"	9	flat			9		\$34.53	\$98.72	185.88%		N/A	N/A	N/A	\$34.5	3 \$	98.72	185.88%	\$10,661.27	\$0.00	\$10,661.27
TOTAL	267	flat	0	#VALUE!	267													\$10,661.27	\$0.00	\$87,461.90
	_																			
Water -Water Haulers																				
\$1.12 each/Per 100 units	2136	213,600		0		2,136	N/A	N/A	N/A		\$1.12	\$0.93	-16.98%	\$ 19	99.36	\$165.50	-16.98%	\$ -	\$1,986.00	\$1,986
TOTAL	\$ 2,392.32	2136	0	0	_															
	_																			
Fire Hydrant Maintenance																				
Per Customer \$.30	414			0	414	0	\$0.00	\$0.00			\$0.00	\$ 124.17		\$	-	0.3	100	1490.4		\$1,490
TOTAL	414	0	0	0	414	0				j										
Revenue from Water Sales																	\$165,348.40			
Misc. Revenue		•															\$4,562			\$4,562
Cross Connection	<u>-</u>	·	-		-	·	·	·									0	0	0	0
Other - Construction																	0	0	0	\$165,348
TOTAL WATER	414		0	#VALUE!	414	2507585							·	TOTAL WATER	REVENUE			\$68,658.22		\$173,387

Rate Design

Residential and Commercial Metered Service

Base Rates

			Customer	% of
Meter Size	Customers	Factors	Equivalency	Total
5/8" and/or 3/4"	73	1.5	110	27.76%
1"	16	2.0	32	8.11%
1 1/2"	31	3.0	93	23.57%
2"	20	5.0	100	25.35%
3"	3	7.0	21	5.32%
4"	3	8.0	24	6.08%
6"	1	15.0	15	3.80%

TOTAL 147 395 100.00%

Commodity Rate

Annual Consumption
Unit of Measurement
Annual Units of Consumption

2,507,585	cubic feet
100	cubic feet
25,076	Units

Commodity Rate: \$ 0.93181 per unit

Revenue Allocation:	77,887
---------------------	--------

Allocated to Base Rates: 70.00%
Allocated to Commodity Rates: 30.00%

Revenue Allocation: **54,521**

	Bá	ase Rate	
\$	15,133	\$	17.28
\$	4,422	\$	23.03
\$	12,853	\$	34.55
\$	13,820	\$	57.58
\$	2,902	\$	80.62
\$	3,317	\$	92.13
\$	2,073	\$	172.75
\$	54,521		

Revenue Allocation: 23,366

Factors	AWWA
UW 145	Factors
1.00	1
1.05	2.5
1.10	5
1.20	8
	15
1.80	25
2.25	50

Factors used in UW 145									
	Meter/Line	Present	sent Factors		AWWA				
	Size	rates	Used	Rate	Factors				
Residentia	l Metered								
17	5/8" / 3/4"	18	1	14.97955	1				
0	1"	18	1.05	15.72853	2.5				
0	1.5"	18	1.1	16.47751	5				
4	2"	18	1.2	17.97546	8				
0	4"	18	1.8	26.96319	25				
0	6"	18	2.25	33.70399	50				
Commercia	al Metered								
181	3/4" or 5/8"	24	1	14.97955	1				
6	1"	24	1.05	15.72853	2.5				
0	1.5"	24	1.1	16.47751	5				
19	2"	24	1.2	17.97546	8				
1	4"	24	1.8	26.96319	25				
0	6"	24	2.25	33.70399	50				

Rate Design

Residential and Commercial Flat Rate Service

Base Rates

			Customer	
Line Size	Customers	Factors	Equivalency	% of Total
5/8" and/or 3/4	256	1.5	384	86.68%
1"	2	2.5	5	1.13%
1 1/2"		5.0	-	0.00%
2"	9	6.0	54	12.19%
TOTAL	267	18.0	443	100.00%

Commodity Rate

Annual Consumption
Unit of Measurement
Annual Units of Consumption

Cubic Feet

100
Cubic Feet

- Units

Commodity Rate: \$ - per unit

Revenue Allocation:	87,462
---------------------	--------

Allocated to Base Rates: 100.00%
Allocated to Commodity Rates: 0.00%

Revenue Allocation: 87,462

Revenue Allocation	В	ase Rate
\$ 75,813	\$	24.68
\$ 987	\$	41.13
\$ -	\$	82.26
\$ 10,661	\$	98.72
\$ 87,462		

Factors	AWWA
UW 145	Factors
1.00	1
1.05	2.5
1.10	5
1.20	8

Revenue Allocation:

Rate Design

Water Haulers

Commodity Rate

Annual Consumption
Unit of Measurement
Annual Units of Consumption

213,600	cubic feet
100	cubic feet
2,136	Units/cfs

Commodity Rate: \$ 0.92978 per unit

1,986
0.00%
100.00%
1,986

Rate Design

Fire Hydrants

Base Rates

				Customer	% of
	Meter Size	Customers	Factors	Equivalency	Total
ALL		414	1.0	414	100.00%
TOTAL	<u> </u>	44.4		44.4	100 000/

TOTAL 414 414 100.00%

Commodity Rate

Annual Consumption
Unit of Measurement
Annual Units of Consumption

	Cubic Feet
100	Cubic Feet
-	Units

Commodity Rate:

\$ - per unit

Revenue Allocation:	1,490
---------------------	-------

Allocated to Base Rates: 100.00%
Allocated to Commodity Rates: 0.00%

Revenue Allocation: 1,490

Revenue Allocation	Ba	ase Rate
\$ 1,490	\$	0.30
\$ 1,490		

Revenue Allocation: -

	Invested Plant		I	I •						•	
Acct		Date	Utility Plant	Less Excess Capacity Adj	Total Adj	NARUC	Annual	Final Month of		Accum. Deprec.	Remaining
	Account Description	Acquired	Orig Cost	to Plant	Plant	Asset Life	Deprec	Deprec	2016	Ending 2016	Plant
	Organization	Various	-	-	-	-	-	Various	-	-	-
302	Franchises	Various	-	-	-	-	-	Various	-	-	-
	Land and Land Rights	Various	-	-	-	-	-	Various	-	-	-
304	Structures and Improvements Water Supply Structures	Various Jan 1961	15,038 293	-	15,038 293	35	430	Various Dec 1995	418	6,311 293	8,727
	Water Supply Structures Other Structures	Jan 1961 Jan 1961	127		127	35	4	Dec 1995 Dec 1995	-	127	-
	UW 145FENCE	Jul 2000	5,675		5,675	35	162	Jun 2035	162	2,675	3,000
	UW 145FENCING	Jun 2004	8,943		8,943	35	256	May 2039	256	3,215	5,728
205 l	Collection and the condition Broad and		ı					N	<u> </u>		
305 306	Collecting and Impounding Reservoirs Lake, River and Other Intakes	Various Various	-	-	-	50 35	-	Various Various	-	-	-
	Wells and Springs	Various	_	-	-	25	-	Various	-	-	
	Infiltration Galleries and Tunnels	Various	-	-	-	25	-	Various	-	-	-
309	Supply Main	Various	330,691	-	330,691	50	6,614	Various	6,215	232,740	97,951
	Water Mains & Canals	Jan 1961	11,965		11,965	50	239	Dec 2010	-	11,965	-
	Water Mains & Canals	Jan 1961	509		509	50 50	10	Dec 2010 Jan 2012	-	509	-
	Water Mains & Canals Water Mains & Canals	Jan 1962 Jan 1963	2,629 2,466		2,629 2,466	50	53 49	Dec 2012	-	2,629 2,466	-
	Water Mains & Canals	Jan 1964	169		169	50	3	Dec 2013	-	169	-
	Water Mains & Canals	Jan 1965	323		323	50	6	Dec 2014	-	323	-
	Water Mains & Canals	Jan 1966	999		999	50	20	Dec 2015	-	999	-
	Water Mains & Canals Water Mains & Canals	Jan 1967 Jan 1968	735 326		735 326	50 50	15 7	Dec 2016 Dec 2017	15 7	735 319	7
	Water Mains & Canals Water Mains & Canals	Jan 1969	6,275		6,275	50	126	Dec 2017	126	6,024	251
	Water Mains & Canals	Jan 1970			89	50	2	Dec 2019	2	84	5
	Water Mains & Canals	Jan 1971	10,681		10,681	50	214	Dec 2020	214	9,827	854
	Water Mains & Canals	Jan 1972	56		56	50	1	Dec 2021	1	50	6
	Water Mains & Canals Water Mains & Canals	Jan 1975 Jan 1976	3,305 1,155		3,305 1,155	50 50	66 23	Dec 2024 Dec 2025	66 23	2,776 947	529 208
	Water Mains & Canals Water Mains & Canals	Jan 1978	27,405		27,405	50	548	Dec 2023	548	21,376	6,029
	Line Extension	Oct 1980	28,142		28,142	50	563	Oct 2030	563	20,403	7,739
	Line Extension	Dec 1980	24,071		24,071	50	481	Dec 2030	481	17,371	6,700
	Line Extension	Jan 1981 Jan 1982	3,227 4,931		3,227 4,931	50 50	65 99	Jan 2031 Jan 2032	65 99	2,323 3,452	904 1,479
	Line Extension Line Extension	Jan 1982 Apr 1982	770		770	50	15	Jan 2032 Apr 2032	15	535	235
	UW 145Existing Line to Spring Source (Transmission line)	Jan 1981	62,965		62,965	50	1,259	Dec 2030	1,259	45,335	17,630
	UW 145Existing Line to Spring Source (Transmission line)	Jun 1981	23,475		23,475	50	470	May 2031	470	16,706	6,769
	UW 145Existing Line to Spring Source (Transmission line)	Jun 1981	21,467		21,467	50	429	May 2031	429	15,277	6,190
	UW 145Existing Line to Spring Source (Transmission line) UW 145Existing Line to Spring Source (Transmission line)	Oct 1981 Jan 1983	3,446 1,006		3,446 1,006	50 50	69 20	Sep 2031 Dec 2032	69 20	2,429 684	1,017 322
	UW 145Existing Line to Spring Source (Transmission line)	Sep 1983	12,979		12,979	50	260	Aug 2033	260	8,653	4,326
	UW 145Existing Line to Spring Source (Transmission line)	Sep 1984	6,220		6,220	50	124	- 1	124	4,022	2,198
	UW 145Existing Line to Spring Source (Transmission line)	Sep 1985	4,954		4,954	50	99	Aug 2035	99	3,105	1,849
	UW 145Existing Line to Spring Source (Transmission line)	Jun 1990			17,183	50 50		,	344	9,136	8,047
	UW 145Water Mains and Pipe UW 145Water Mains and Pipe	Jun 1991 Jul 1991	26,030 1,268		26,030 1,268	50	521 25	May 2041 Jun 2041	521 25	13,319 647	12,711 621
	UW 145Water Mains and Pipe	Jun 1992	4,689		4,689	50	94	May 2042	94	2,305	2,384
	UW 145Water Mains and Pipe	Jun 1993	1,124		1,124	50	22	May 2043	22	530	594
	UW 145Water Mains and Pipe	Jun 1993	1,471		1,471	50	29	May 2043	29	694	777
	UW 145Water Mains and Pipe UW 145Water Mains and Pipe	Jun 1994 Jun 1994	2,586 1,737		2,586 1,737	50 50	52 35	May 2044 May 2044	52 35	1,168 785	1,418 952
	UW 145Water Mains and Pipe	Jun 1995	1,951		1,951	50	39	May 2045	39	842	1,109
	UW 145Water Mains and Pipe	Jun 1996			4,393	50	88	- 1	88	1,808	2,585
	UW 145Grand Lodge (Ferguson Supply)	Aug 2016	1,519		1,519	50	30	Jul 2066	13	13	1,506
310	Power Generation Equipment	Various	_	_ [30		Various	_ [-
	Pumping Equipment	Various	-	-	-	20	-	Various	-	-	-
320	Water Treatment Equipment	Various	582	-	582	20	29	Various	-	582	-
	Purification System	Jan 1961	582		582	20	29	Dec 1980	-	582	-
					-	20	-		-	-	-
330	Distribution Reservoir and Standpipes	Various	367,164	_	367,164	50	7,343	Various	7,340	128,388	238,776
550	Reservoir and Standpipes	Jan 1961	173	-	173	50	7, 343	Dec 2010		173	
	Reservoir and Standpipes	Jan 1971	1,072		1,072	50	21	Dec 2020	21	986	86
	Engineering Cost-Wood Tank-Pre SBA	Feb 1980			919	50	18	Feb 2030	18	679	240
	Engineering Cost-Wood Tank-Pre SBA	Mar 1980			333	50	7	Mar 2030	7	245	88
	Engineering Cost-Wood Tank-Pre SBA UW 145 100,000 Gal Wood Tank(adjstd amt in UW 174 per DR 37)	May 1980 Jun 1980			671 59,249	50 50		May 2030 May 2030	13 1,185	492 43,351	179 15,898
	Reservoir and Standpipes	Oct 1980			12,779	50	256	Oct 2030	256	9,265	3,514
	Tank	Sep 1981	1,510		1,510	50	30	Sep 2031	30	1,067	443
	250,000 Gal Water Tank	Aug 2004	278,926		278,926	50	5,579	Jul 2054	5,579	69,267	209,659
	True-Up of 250,000 Gal Water Tank	Aug 2004	11,532		11,532	50	231	Aug 2054	231	2,864	8,668
					-	50	-		_	-	-
							<u> </u>	<u> </u>			
331	Transmission and Distribution Mains	Various	116,230	-	116,230	50	2,325	Various	2,311	44,814	71,416
	Lines	Jan 1981	4,027		4,027	50	81	Jan 2031	81	2,899	1,128
	Lines Lines	Jul 1981 Aug 1981	4,208 6,560		4,208 6,560	50 50	84 131	Jul 2031 Aug 2031	84 131	2,988 4,647	1,220 1,913
	Lines	Jan 1982	4,931		4,931	50	99	Jan 2032	99	3,452	1,479
	UW 145Water Mains	Jun 1995	25,211		25,211	50	504	May 2045	504	10,883	14,328
	UW 145Water Mains	Jun 1996			21,149	50		May 2046	423	8,706	12,443
	UW 145Water Mains UW 145Water Mains	Jun 1998 Jun 1999			573 21,163	50 50	11 423	May 2048 May 2049	11 423	7,442	360 13,721
	UW 145Water Mains UW 145Water Mains	Jun 1999 Jun 2002	1,935		1,935	50		May 2049	39	564	1,371
	UW 145-ADD: Tyrolean Mdws Paid by Co for Developer	Sep 2007	14,419		14,419	50		Aug 2057	288	2,692	11,727
	Wyeast 2015 taps	Jul 2015	10,042		10,042	50 50	201	Jun 2065	201 15	301	9,741
	Wyeast 2016 Wyeast 2016	May 2016 May 2016			1,107 905	50 50		May 2066 May 2066	15 12	15 12	1,092 893
		ay 2010	303		505	50	10	, 2000	14	12	0,73
								II			
333	Services	Various	61,105	-	61,105	30	2,037	Various	1,763	29,465	31,640
	Services Services	Jan 1961 Jan 1962	809 265		809 265	30 30	27 9	Dec 1990 Dec 1991	-	809 265	-
	Services Services	Jan 1962 Jan 1963	105		105	30	4	Dec 1991 Dec 1992	-	105	-
	Services	Jan 1965	200		200	30	7	Dec 1994	-	200	-
	Services	Jan 1966	118		118	30	4	Dec 1995	-	118	-
Plant -	Invested										page 22 of 25

Invested Plant

						ı		ı	· · · · · · · · · · · · · · · · · · ·	1	
	Services	Jan 1968	49		49	30	2	Dec 1997	-	49	-
	Services	Jan 1969	124		124	30	4	Dec 1998	-	124	-
	Services	Jan 1970	390		390	30	13	Dec 1999	-	390	-
	Services	Jan 1971 Jan 1972	356 105		356 105	30 30	12	Dec 2000 Dec 2001	-	356 105	
	Services Services	Jan 1972	79		79	30	3	Dec 2001 Dec 2002	-	79	
	Services	Jan 1974	48		48	30	2	Dec 2002		48	_
	Services	Jan 1975	201		201	30	7	Dec 2004	-	201	_
	Services	Jan 1976	592		592	30	20	Dec 2005	-	592	-
	Services	Jan 1977	931		931	30	31	Dec 2006	-	931	-
	Services	Jan 1978	2,312		2,312	30	77	Dec 2007	-	2,312	-
	UW 145Services	Jun 1998	12,184		12,184	30	406	May 2028	406	7,547	4,637
	UW 145Services	Jun 1999	3,945		3,945	30	132	May 2029	132	2,312	1,633
	UW 145Services	Jun 2000	3,046		3,046	30	102	May 2030	102	1,684	1,362
	UW 145Services	Jun 2002	6,702		6,702	30 30	223 77	May 2032	223	3,258	3,444
	UW 145Cap Impr, hot tap 12" (Little Trail) UW 145Keil & Payne	Apr 2007 May 2007	2,295 3,190		2,295 3,190	30	106	Apr 2037 May 2037	77 106	746 1,028	1,549 2,162
	UW 145Montg Leige 8" line ext down montg to new hydrant	May 2007	18,910		18,910	30	630	May 2037	630	6,093	12,817
	Parry	May 2015	701		701	30	23	Apr 2045	23	39	662
	Bridge	Oct 2015	1,022		1,022	30	34		34	43	979
	Scroggins	Oct 2015	150		150	30	5	Sep 2045	5	6	144
	Rice	Jul 2016	90		90	30	3	Jun 2046	2	2	89
	Law, Fritch	Aug 2016	675		675	30	23	Jul 2046	9	9	666
	Fritch, Slavin	Sep 2016	918		918	30	31	Aug 2046	10	10	908
	Parrish	Oct 2016	270		270	30	9	Sep 2046	2	2	268
	Soot	Nov 2016	323		323	30	11	Oct 2046	2	2	321
334	Meters and Meter Installations	Various	39,892	_	39,892	20	1,995	Various	1,942	23,122	16,770
JJ-1	Meters	Jun 1999	7,500		7,500	20	375	May 2019	375	6,594	906
	Meters	Jun 2000	11,174		11,174	20	559	May 2019	559	9,265	1,909
	Meters	Jun 2002	4,125		4,125	20	206	May 2022	206	3,008	1,117
	HD Waterworks-Meters	Oct 2008	1,608		1,608	20	80	Oct 2028	80	663	945
	OR Earth-replace 2 meters, fence materials	Nov 2008	1,756		1,756	20	88	Nov 2028	88	717	1,039
	Meters (Karkanen & Tichie)	Sep 2009	197		197	20	10	Sep 2029	10	72	125
	Meter box & lid w?CIRDR	Oct 2009	964		964	20	48	Oct 2029	48	349	615
	Meter install Tichie (Zuber, Mclain)(225+270)	Nov 2009	495		495	20	25	Nov 2029	25	177	318
	Collins Lake Resort Meter OR Earth-replace Meter Collins Lake Resort	Dec 2009 Dec 2009	338 1,154		338 1,154	20 20	17 58	Dec 2029 Dec 2029	17 58	120 409	745
	Meters 2011 (mills4-berke & parrish)	Aug 2011	4,126		4,126	20	206		206	1,117	3,009
	Meters 2012 (Nogaire, Berman, Gaither, Mills-2)	Oct 2012	753		753	20	38	Sep 2032	38	160	593
	Meters 2014 (Allen)	Jan 2014	1,310		1,310	20	66	Dec 2033	66	197	1,114
	Meters 2014 (Berman & Scroggins)	Oct 2014	648		648	20	32	Sep 2034	32	73	575
	Meters 2015 (Bridge)	Jan 2015	1,321		1,321	20	66	Dec 2034	66	132	1,189
	Hydrant Meter 2016 (2")	Apr 2016	1,546		1,546	20	77	Mar 2036	58	58	1,488
	Parrish	Sep 2016	406		406	20	20	Aug 2036	7	7	399
	Parrish, Soot Transportation of Equipment	Dec 2016 May 2016	405 66		405 66	20 20	20	Nov 2036 May 2036	2	2	403 64
	Transportation of Equipment	Way 2010	00		00	20	3	Way 2030	2	2	04
335	Hydrants	Various	13,559	_	13,559	40	339	Various	268	7,575	5,984
	Hydrants	Jan 1961	664		664	40	17	Dec 2000	-	664	-
	Hydrants	Jan 1962	24		24	40	1	Dec 2001	-	24	-
	Hydrants	Jan 1963	44		44	40	1	Dec 2002	-	44	-
	Hydrants	Jan 1964	24		24	40	1	Dec 2003	-	24	-
	Hydrants	Jan 1971	403		403	40	10	Dec 2010	-	403	-
	Hydrants	Jan 1973	40		40	40	1	Dec 2012	-	40	-
	Hydrants Hydrants	Jan 1974 Jan 1975	26 64		26 64	40 40	2	Dec 2013 Dec 2014	-	26 64	-
	Hydrants	Jan 1976	75		75	40	2	Dec 2014 Dec 2015	_	75	
	Hydrants	Jan 1978	234		234	40	6	Dec 2017	6	228	6
	Hydrants	Jan 1980	640		640	40	16	Dec 2019	16	592	48
	Hydrants	Sep 1981	2,938		2,938	40	73	Sep 2021	73	2,595	343
	UW 145Hydrants	Jun 1995	1,716		1,716	40	43	May 2035	43	926	790
	UW 145Hydrants	Jun 1995	158		158	40	4	May 2035	4	85	73
	UW 145Hydrants	Jun 1999	4,000		4,000	40	100		100	1,758	2,242
	Hydrants Hydrants	Aug 2016 Aug 2016	495 2,014		495 2,014	40 40	12 50	Jul 2056 Jul 2056	5 21	5 21	490 1,993
	, aditto	7 NUE 2010	2,014		2,014	40		Jui 2000	41	21	1,333
336	Cross Connection Control	Various	-	-	-	15	-	Various	-	-	-
	Other Plant	Various	-	-	-	30		Various	-	-	-
340	Office Furniture and Equipment	Various	2,850	-	2,850	20	143	Various	27	2,570	280
	Desk	Jan 1963	35		35	20	2	Dec 1982	-	35	-
	UW 145 Misc.	Jan 1983	1,006		1,006	20	50	Dec 2002	-	1,006	-
	UW 145Fax	Aug 1989	795		795	20	40	Jul 2009	-	795	-
	UW 145Printer	Jun 1991	477		477	20	24	Jun 2011	-	477	-
	UW 145Copier	Jun 2007	537		537	20	27	May 2027	27	257	280
341	Transportation Equipment	Various	12,021	_	12,021	7	1 676	Various		12,021	
241	Snow Kat	Jan 1961	450	-	450	20	23		_	450	-
	UW 145Buick-auto	Jan 2005	5,000		5,000	7	714	Dec 1980 Dec 2011	_	5,000	-
	Truck	Jan 1963	2,571		2,571	7	367		-	2,571	-
	UW 145Snow Cat	Jun 1977	4,000		4,000	7	571	May 1984	-	4,000	-
_											
343	Tools, Shop, and Garage Equipment	Various	7,347	-	7,347	15	490		361	5,893	1,454
	UW 145Pipe Detector	Jun 2000	500		500	15		May 2015	-	500	-
	UW 145Camcorder UW 145Tools	Jun 2000 Jun 2002	1,434 1,936		1,434 1,936	15 15	96 129	May 2015 May 2017	- 129	1,434 1,882	<u>-</u> 54
	UW 145Tools	Jun 2002	969		969	15	65	May 2017	65	684	285
	UW 145Tool/Meter used in flushing hydrants	Sep 2008	2,508		2,508	15	167	Sep 2023	167	1,393	1,115
	0.1, 2.1		_,000		_,,,,,			, , _J_J_J	/	_,555	-,
344	Laboratory Equipment	Various	-	-	-	15		Various	-	-	-
345	Power Operated Equipment	Various	174	-	174	10	17	Various	-	174	-
	Thawer	Jan 1973	174		174	10	17	Dec 1982	-	174	-
					-	10	-		-	-	-
					-	10	-		-	-	-
					-	10	-		-	-	-
346	Communication Equipment	Various		-	_	10	_	Various	_	_ [-
	Communication Equipment Electronic/Computer Equipment	Various Various	- 1,246	-	- 1,246	10 5	- 249	Various Various	-	- 1,246	-
					- 1,246 1,246		- 249 249			- 1,246 1,246	
	Electronic/Computer Equipment	Various	1,246			5		Various	- - -	-	-
	Electronic/Computer Equipment	Various	1,246			5		Various	- - - -	-	-

Plant - Invested page 23 of 25

2	л	0	

8	Miscellaneous Equipment	Various	25,517	-	25,517	10	2,552	Various	591	23,792	1,725
	General Equipment	Jan 1961	207		207	10	21	Dec 1970	-	207	-
	General Equipment	Jan 1962	9,588		9,588	10	959	Dec 1971	-	9,588	-
	General Equipment	Jan 1963	282		282	10	28	Dec 1972	-	282	-
	General Equipment	Jan 1971	522		522	10	52	Dec 1980	-	522	-
	Miscellaneous	Jan 1977	930		930	10	93	Dec 1986	-	930	-
	General Equipment	Jan 1978	804		804	10	80	Dec 1987	-	804	-
	Miscellaneous Equipment	Jun 2000	7,271		7,271	10	727	May 2010	-	7,271	-
	Mapping Project	Dec 2009	5,913		5,913	10	591	Dec 2019	591	4,188	1,725
					-	10	-		-	-	-

TOTALS	Various	993,416	993,416 Various	26,237 Various	21,236	518,694	474,722

Original Plant In Service Cost	993,416
Less: Excess Capacity	-
"Used & Useful" Plant	993,416
Less Accum Depreciation	518,694
NET PLANT	474,722

Depreciation Expense	21.236

Company Name: Gov't Camp Docket No. UW 174 Test Year: 2016

CIAC Plant

Final Less Excess Accum. Acct Date **Utility Plant** Capacity Adj Total Adi NARUC Annual Month of Before Deprec. Remaining to Plant Asset Life 1985 Ending 2016 Plant No. Acquired **Orig Cost** Plant Deprec Deprec **Account Description** 2016 301 Organization Various Various 302 Franchises Various Various 303 Land and Land Rights Various Various 304 **Structures and Improvements** Various 35 Various 305 Collecting and Impounding Reservoirs Various 50 Various 306 Lake, River and Other Intakes Various 35 Various 25 307 Wells and Springs Various Various 308 Infiltration Galleries and Tunnels Various 25 Various 300 Supply Main Various 50 Various 310 Power Generation Equipment Various 30 Various 311 Pumping Equipment Various 20 Various Water Treatment Equipment 20 Various 320 Various 330 **Distribution Reservoir and Standpipes** Various 50 Various 1,077,641 195,867 1,077,641 50 21,553 Various 881.774 331 Transmission and Distribution Mains Various 21,553 50 335,071 6,701 Oct 2052 6,701 94,937 240,134 12" line Lige to Gov Camp Loop 335.071 Nov 2002 12" line Multorpor to Skibowl Oct 2006 198,285 198,285 50 3,966 Sep 2056 3,966 40,648 157,637 50 119,822 8" line WyEast to Blossom Oct 2006 150,719 150,719 3,014 Sep 2056 3,014 30,897 12" Bore Line under Hwy 26 to Tyrolean Sep 2007 85,000 85,000 50 1,700 Aug 2057 1,700 15,867 69,133 50 Tyrolean Overruns - TIF Portion Jan 2008 14,419 14,419 288 Dec 2057 288 2,595 11,824 50 ODOT Project 4" line replacement 50,000 50,000 1.000 Jul 2013 1.000 Jun 2063 3.500 46.500 Nov 2013 14,419 14,419 50 288 Nov 2063 288 913 13,506 Tyrolean Overruns - Berman Portion 12" line from Tyrolean to SkiBowl West Aug 2015 229,728 229,728 50 4.595 Jul 2065 4.595 6.509 223,219 58 50

Services	Various	-	-	-	30	-	Various	-	-	-	-
Meters and Meter Installations	Various	-	-	-	20	-	Various	-	-	-	-
Hydrants	Various	-	-	-	40		Various		-	-	-
Cross Connection Control	Various	-	-	-	15	-	Various	-	-	-	-
Other Plant	Various	-	-	-	30	-	Various	-	-	-	-
Office Furniture and Equipment	Various	-	-	-	20		Various		-	-	-
Transportation Equipment	Various	-	-	-	7	-	Various	-	-	-	-
Tools, Shop, and Garage Equipment	Various	-	-	-	15		Various	-	-	-	-
Laboratory Equipment	Various	-	-	-	15		Various		-	-	-
Power Operated Equipment	Various	-	-	-	10	-	Various	-	-	-	-
Communication Equipment	Various	-	-	-	10	-	Various	-	-	-	-
Electronic/Computer Equipment	Various	-	-	-	5		Various	-	-	-	-
Miscellaneous Equipment	Various	-	-	-	10	-	Various	-	-	-	-
TOTALS	Various	1,077,641	-	1,077,641	Various	21,553	Various	-	21,553	195,867	881,774

50 50

Original Plant In Service Cost	1,077,641
Less: Excess Capacity	-
"Used & Useful" Plant	1,077,641
Less Accum Amort of CIAC	195,867
NET PLANT	881,774

Depreciation Expense	21,553
----------------------	--------

Plant - CIAC page 25 of 25

Date	Supplier	Test	Description	Total	
1/13/2016	Citi Cards	115.16	Maintenance	\$115.16	
1/25/2016	US Bank	33.45	Fuel	\$33.45	
2/19/2016	DMV	86.00	Registration	\$86.00	Ck #20
3/11/2016	AAA	51.00	Semi Annual	\$51.00	
3/22/2016	US Bank	43.17	Fuel	\$43.17	
4/11/2016	Cunningham Consulting,	231.12	Mileage	\$231.12	
5/2/2016	Weston Dealership	79.59	Buick	\$79.59	crec
5/10/2016	US Bank	31.73	Fuel	\$31.73	
5/23/2016	US Bank	22.05	Fuel	\$22.05	
5/24/2016	WHO, Ltd	66.13	Mileage	\$0.00	
6/29/2016	Weston Dealership	944.55	Buick Repair	\$944.55	crec
7/5/2016	Cunningham Consulting,	170.32	Mileage	\$170.32	
7/18/2016	WHO, Ltd	132.83	Mileage	\$132.83	
8/1/2016	US Bank	22.13	Maintenance	\$22.13	
8/14/2016	WHO Ltd	89.00	minus over	\$65.59	lı
8/18/2016	WHO, Ltd	64.98	Mileage	\$64.98	
8/22/2016	US Bank	80.61	Fuel &	\$80.61	
9/19/2016	WHO, Ltd	64.98	Mileage	\$64.98	
9/23/2016	Cunningham Consulting,	96.12	Mileage	\$96.12	
10/18/2016	Citi Cards	30.70	Maintenance	\$30.70	
10/23/2016	WHO, Ltd	129.50	Mileage	\$129.50	
10/25/2016	Nordstrom Visa	24.87	Maintenance	\$24.87	
11/21/2016	WHO, Ltd	64.98	Mileage	\$64.98	
12/30/2016	Weston Dealership	67.15	Buick Repair	\$67.15	
				\$0.00	
				\$0.00	
TOTAL		\$2,742.12		\$2,652.58	

Check #	
1038	
1040	
33 Charlomont Hill Acct-written of	f this
1078	
1082	
1092	
it cd approval cd 07699P - Ck # 106	3 5
1055	
1062	
1064 - Moved to Capital Plant	
it cd approval cd 950020 - Ck # 110	80
1104	
1110 Moved from Repairs	
1116	
voice #106 - net mileage expense	
1119 - Moved from Repairs	
1124	
1130	
1134	
1141	
1143 Moved from Repairs	
1145	
1159 - Moved from Repairs	
credit cd approval cd 63576Z	

Use of Buick Based on Mileage

33.45 US Bank
43.17 US Bank
31.73 US Bank
22.05 US Bank
80.61 US Bank
211.01 Total Gas Receipts
\$ 84.40 gallons used @ 2.50 per gallon
1,350 Mileage based on 16 mpg
\$ 736.00 Government Mileage Reimbursement

231.12 Cunningham Consulting
170.32 Cunningham Consulting
132.83 WHO Ltd
22.13 WHO Ltd
65.59 WHO Ltd
64.98 WHO Ltd
64.98 WHO Ltd
96.12 Cunningham Consulting
129.5 WHO Ltd
64.98 WHO Ltd
64.98 WHO Ltd
64.98 WHO Ltd
64.98 WHO Ltd

736 mileage 1043 contractor

1779 total

Company	2652
Staff	1779
Difference	873

Government Camp Water Co., Inc. Custom Transaction Detail Report January through December 2016

Туре	Date	Num	Name	Item	Item Description	Account	Split	Qty	Debit	Credit	Staff Check Difference
Invoice+C901:L902	10/01/2016	12-7182	Fritsch, Oliver 022	RM 3/4"	Quarterly base rate	461.1 · Residential Metered	141 · Accounts Receivable	1.00		47.58	only one bill, no consumption
Invoice	01/01/2016	12-6224	ODOT Compound 249	RM 3/4"	Quarterly base rate	461.1 · Residential Metered	141 · Accounts Receivable	10.00		475.80	no consumption
Invoice	04/01/2016	12-6593	ODOT Compound 249	RM 3/4"	Quarterly base rate	461.1 · Residential Metered	141 · Accounts Receivable	10.00		475.80	no consumption
Invoice	07/01/2016	12-6960	ODOT Compound 249	RM 3/4"	Quarterly base rate	461.1 · Residential Metered	141 · Accounts Receivable	10.00		475.80	no consumption
Invoice	10/01/2016	12-7333	ODOT Compound 249	RM 3/4"	Quarterly base rate	461.1 · Residential Metered	141 · Accounts Receivable	10.00		475.80	no consumption
Invoice	10/01/2016	12-7375	Sandler, Scott & Janet 323	R. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.1 · Residential Metered	141 · Accounts Receivable	1,354.50		15.17	only one month of consumption
Invoice	01/01/2016	12-6265	Sandler, Scott & Janet 323	RM 3/4"	Quarterly base rate	461.1 · Residential Metered	141 · Accounts Receivable	1.00		47.58	only one month of consumption
Invoice	04/01/2016	12-6634	Sandler, Scott & Janet 323	RM 3/4"	Quarterly base rate	461.1 · Residential Metered	141 · Accounts Receivable	1.00		47.58	only one month of consumption
Invoice	07/01/2016	12-7001	Sandler, Scott & Janet 323	RM 3/4"	Quarterly base rate	461.1 · Residential Metered	141 · Accounts Receivable	1.00		47.58	only one month of consumption
Invoice	10/01/2016	12-7375	Sandler, Scott & Janet 323	RM 3/4"	Quarterly base rate	461.1 · Residential Metered	141 · Accounts Receivable	1.00		47.58	only one month of consumption
Invoice	10/01/2016	12-7122	Best Western Mt Hood Inn 006	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	219.25		2.46	Best Western billed on one quarter, usage does not appear correct
Invoice	10/01/2016	12-7251	Johnson, Peter 046	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	590.25		6.61	only this consumption witn 2 base rates
Invoice	07/01/2016	12-6878	Johnson, Peter 046	CM 3/4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	2.00		95.16	only this consumption witn 2 base rates
Invoice	10/01/2016	12-7251	Johnson, Peter 046	CM 3/4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	2.00		95.16	only this consumption witn 2 base rates
Invoice	10/01/2016	12-7318	Mt Hood Ski Patrol 057	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	9,347.50		104.69	only one base rate and consumption, no other meters read when new on 10/1, plase explain
Invoice	10/01/2016	12-7318	Mt Hood Ski Patrol 057	CM 1"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		59.46	only one base rate and consumption, no other meters read when new on 10/1, plase explain
Invoice	01/01/2016	12-6233	Parmelee, Brandon & Melissa 171	CM 3/4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		47.58	no consumption
Invoice	04/01/2016	12-6601	Parmelee, Brandon & Melissa 171	CM 3/4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		47.58	no consumption
Invoice	07/01/2016	12-6968	Parmelee, Brandon & Melissa 171	CM 3/4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		47.58	no consumption
Invoice	10/01/2016	12-7341	Parmelee, Brandon & Melissa 171	CM 3/4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		47.58	no cosumption
Invoice	03/12/2016	12-6361	Skibowl E 361	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	126,985.00		1,422.23	billed for 4 qtrs of base rate, only 2 consumption rates
Invoice	03/12/2016	12-6361	Skibowl E 361	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	126,985.00		1,422.23	billed for 4 qtrs of base rate, only 2 consumption rates
Invoice	01/01/2016	12-6279	Skibowl E 361	MH 4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		104.64	billed for 4 qtrs of base rate, only 2 consumption rates
Invoice	04/01/2016	12-6649	Skibowl E 361	MH 4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		104.64	billed for 4 qtrs of base rate, only 2 consumption rates
Invoice	07/01/2016		Skibowl E 361	MH 4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		104.64	billed for 4 qtrs of base rate, only 2 consumption rates
Invoice	10/01/2016	12-7390	Skibowl E 361	MH 4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		104.64	billed for 4 qtrs of base rate, only 2 consumption rates
Credit Memo	12/31/2016	12-8224	Skibowl West 364	CM 2"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	-1.00			?
Invoice	01/01/2016	12-6306	Summit Ski Area 367.1	MH 2"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		89.43	no consumption
Invoice	04/01/2016	12-6676	Summit Ski Area 367.1	MH 2"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		89.43	no consumption
Invoice	07/01/2016	12-7044	Summit Ski Area 367.1	MH 2"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		89.43	no consumption
Invoice	10/01/2016	12-7418	Summit Ski Area 367.1	MH 2"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		89.43	no consumption

Invoice	10/01/2016	12-7122	Best Western Mt Hood Inn 006	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	219.25	2.46 0	Only one month of consumption, too low
Invoice	01/01/2016		Best Western Mt Hood Inn 006	CM 6"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		Only one month of consumption, too low
Invoice	04/01/2016		Best Western Mt Hood Inn 006	CM 6"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		Only one month of consumption, too low
Invoice	07/01/2016		Best Western Mt Hood Inn 006	CM 6"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		Only one month of consumption, too low
	10/01/2016		Best Western Mt Hood Inn 006	CM 6"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		
Invoice										Only one month of consumption, too low
Invoice	01/01/2016		Huckelberry / Motel 279	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	8,326.75		consumption seems low
Invoice	04/01/2016		Huckelberry / Motel 279	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	8,326.75		consumption seems low
Invoice	07/01/2016	12-6867	Huckelberry / Motel 279	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	8,326.75		consumption seems low
Invoice	10/01/2016	12-7240	Huckelberry / Motel 279	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	9,905.75	110.94 c	consumption seems low
Invoice	01/01/2016	12-6132	Huckelberry / Motel 279	CM 4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00	104.64 c	consumption seems low
Invoice	04/01/2016	12-6500	Huckelberry / Motel 279	CM 4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00	104.64 c	consumption seems low
Invoice	07/01/2016		Huckelberry / Motel 279	CM 4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		consumption seems low
Invoice			Huckelberry / Motel 279	CM 4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		consumption seems low
Invoice	10/01/2016		Johnson, Peter 046	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	590.25		why so low, why only one month of consumption
					1 1 1 1	461.2 · Commercial Metered	141 · Accounts Receivable			
Invoice	07/01/2016		Johnson, Peter 046	CM 3/4"	Quarterly base rate			2.00		why so low, why only one month
Invoice	.,.,		Johnson, Peter 046	CM 3/4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	2.00		vhy so low, why only one month
Invoice			Mazama Lodge 164	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	6,100.00		consumption seemsl low
Invoice	04/01/2016	12-6551	Mazama Lodge 164	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	6,100.00	68.32 c	consumption seemsl low
Invoice	07/01/2016	12-6918	Mazama Lodge 164	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	6,100.00	68.32 c	consumption seemsl low
Invoice	10/01/2016	12-7291	Mazama Lodge 164	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	7,676.00	85.97 c	consumption seemsl low
Invoice	01/01/2016	12-6182	Mazama Lodge 164	CM 1"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00	59.46 c	consumption seemsl low
Invoice			Mazama Lodge 164	CM 1"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		consumption seemsl low
Invoice			Mazama Lodge 164	CM 1"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		consumption seemsl low
Invoice	10/01/2016		Mazama Lodge 164	CM 1"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	1.00		consumption seems! low
Invoice	01/01/2016		Mt Hd LLC II/North Lodge 347.2	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 - Accounts Receivable	21,075.75		consumption for 3/4 inch meter higher than 1 inch meter
Invoice	04/01/2016		Mt Hd LLC II/North Lodge 347.2	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	21,075.75		consumption for 3/4 inch meter higher than 1 inch meter
Invoice	07/01/2016		Mt Hd LLC II/North Lodge 347.2	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	21,075.75		consumption for 3/4 inch meter higher than 1 inch meter
Invoice	10/01/2016		Mt Hd LLC II/North Lodge 347.2	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	21,725.25		consumption for 3/4 inch meter higher than 1 inch meter
Invoice	01/01/2016		Mt Hd LLC II/North Lodge 347.2	CM 3/4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	32.00		consumption for 3/4 inch meter higher than 1 inch meter
Invoice	04/01/2016	12-6570	Mt Hd LLC II/North Lodge 347.2	CM 3/4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	32.00	1,522.56 c	consumption for 3/4 inch meter higher than 1 inch meter
Invoice	07/01/2016		Mt Hd LLC II/North Lodge 347.2	CM 3/4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	32.00		consumption for 3/4 inch meter higher than 1 inch meter
Invoice	10/01/2016		Mt Hd LLC II/North Lodge 347.2	CM 3/4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	32.00		consumption for 3/4 inch meter higher than 1 inch meter
Invoice	01/01/2016		Mt Hd LLC II/Noi til Lodge 347.2 Mt Hd LLC II/Pool & Clb Hse 347.1	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	4,614.25		consumption for 3/4 inch meter higher than 1 inch meter
					1 1 1 1					
Invoice	04/01/2016		Mt Hd LLC II/Pool & Clb Hse 347.1	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	4,614.25		consumption for 3/4 inch meter higher than 1 inch meter
Invoice	07/01/2016		Mt Hd LLC II/Pool & Clb Hse 347.1	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	4,614.25		consumption for 3/4 inch meter higher than 1 inch meter
Invoice	10/01/2016	12-7311	Mt Hd LLC II/Pool & Clb Hse 347.1	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	3,305.50	37.02 c	consumption for 3/4 inch meter higher than 1 inch meter
Invoice	01/01/2016	12-6202	Mt Hd LLC II/Pool & Clb Hse 347.1	CM 1"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	2.00	118.92 c	consumption for 3/4 inch meter higher than 1 inch meter
Invoice	04/01/2016	12-6571	Mt Hd LLC II/Pool & Clb Hse 347.1	CM 1"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	2.00	118.92 c	consumption for 3/4 inch meter higher than 1 inch meter
Invoice	07/01/2016	12-6938	Mt Hd LLC II/Pool & Clb Hse 347.1	CM 1"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	2.00	118.92 c	consumption for 3/4 inch meter higher than 1 inch meter
Invoice	10/01/2016		Mt Hd LLC II/Pool & Clb Hse 347.1	CM 1"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	2.00		consumption for 3/4 inch meter higher than 1 inch meter
Invoice			Mt Hd LLC II/South Lodge 347.3	C. Cf's used	Water consumption for the guarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	13,946.25		consumption for 3/4 inch meter higher than 1 inch meter
			, ,							
Invoice	04/01/2016		Mt Hd LLC II/South Lodge 347.3	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	13,946.25		consumption for 3/4 inch meter higher than 1 inch meter
Invoice	07/01/2016		Mt Hd LLC II/South Lodge 347.3	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	13,946.25		consumption for 3/4 inch meter higher than 1 inch meter
Invoice			Mt Hd LLC II/South Lodge 347.3	C. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	18,122.25		consumption for 3/4 inch meter higher than 1 inch meter
Invoice	01/01/2016	12-6203	Mt Hd LLC II/South Lodge 347.3	CM 3/4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	16.00	761.28 c	consumption for 3/4 inch meter higher than 1 inch meter
		10 (5770	Maildiculculcauth Ladaa 247.2	Ch 4 2 / All	Quarterly base rate					and the state of t
Invoice	04/01/2016	12-65/2	Mt Hd LLC II/South Lodge 347.3	CM 3/4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	16.00	761.28 c	onsumption for 3/4 inch meter higher than 1 inch meter
	04/01/2016 07/01/2016			CM 3/4"		461.2 · Commercial Metered 461.2 · Commercial Metered	141 · Accounts Receivable 141 · Accounts Receivable	16.00 16.00		
Invoice	07/01/2016	12-6939	Mt Hd LLC II/South Lodge 347.3	CM 3/4"	Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	16.00	761.28 c	consumption for 3/4 inch meter higher than 1 inch meter
Invoice Invoice	07/01/2016 10/01/2016	12-6939 12-7312	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3	CM 3/4" CM 3/4"	Quarterly base rate Quarterly base rate	461.2 · Commercial Metered 461.2 · Commercial Metered	141 · Accounts Receivable 141 · Accounts Receivable	16.00 16.00	761.28 c 761.28 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter
Invoice Invoice	07/01/2016 10/01/2016 01/01/2016	12-6939 12-7312 12-6204	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183	CM 3/4" CM 3/4" C. Cf's used	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered 461.2 · Commercial Metered 461.2 · Commercial Metered	141 · Accounts Receivable 141 · Accounts Receivable 141 · Accounts Receivable	16.00 16.00 2,256.00	761.28 c 761.28 c 25.27 a	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter gain, 2 inch meter, less consumption
Invoice Invoice Invoice	07/01/2016 10/01/2016 01/01/2016 04/01/2016	12-6939 12-7312 12-6204 12-6573	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Academy 183	CM 3/4" CM 3/4" C. Cf's used C. Cf's used	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered 461.2 · Commercial Metered 461.2 · Commercial Metered 461.2 · Commercial Metered	141 · Accounts Receivable 141 · Accounts Receivable 141 · Accounts Receivable 141 · Accounts Receivable	16.00 16.00 2,256.00 2,256.00	761.28 c 761.28 c 25.27 a 25.27 a	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter bigain, 2 inch meter, less consumption ugain, 2 inch meter, less consumption
Invoice Invoice Invoice Invoice	07/01/2016 10/01/2016 01/01/2016 04/01/2016 07/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Academy 183 Mt Hood Academy 183	CM 3/4" CM 3/4" C. Cf's used C. Cf's used C. Cf's used	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered 461.2 · Commercial Metered 461.2 · Commercial Metered 461.2 · Commercial Metered 461.2 · Commercial Metered	141 · Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption ligain, 2 inch meter, less consumption ligain, 2 inch meter, less consumption
Invoice Invoice Invoice	07/01/2016 10/01/2016 01/01/2016 04/01/2016 07/01/2016 10/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183	CM 3/4" CM 3/4" C. Cf's used	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered 461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a 20.25 a	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter igain, 2 inch meter, less consumption igain, 2 inch meter, less consumption igain, 2 inch meter, less consumption igain, 2 inch meter, less consumption
Invoice Invoice Invoice Invoice	07/01/2016 10/01/2016 01/01/2016 04/01/2016 07/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Academy 183 Mt Hood Academy 183	CM 3/4" CM 3/4" C. Cf's used C. Cf's used C. Cf's used	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered 461.2 · Commercial Metered 461.2 · Commercial Metered 461.2 · Commercial Metered 461.2 · Commercial Metered	141 · Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a 20.25 a	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption ligain, 2 inch meter, less consumption ligain, 2 inch meter, less consumption
Invoice Invoice Invoice Invoice Invoice	07/01/2016 10/01/2016 01/01/2016 04/01/2016 07/01/2016 10/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6204	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183	CM 3/4" CM 3/4" C. Cf's used	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered 461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a 20.25 a 89.43 a	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter igain, 2 inch meter, less consumption igain, 2 inch meter, less consumption igain, 2 inch meter, less consumption igain, 2 inch meter, less consumption
Invoice Invoice Invoice Invoice Invoice Invoice Invoice	07/01/2016 10/01/2016 01/01/2016 04/01/2016 07/01/2016 10/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6204 12-6573	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183	CM 3/4" CM 3/4" C. Cf's used	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered 461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption
Invoice Invoice Invoice Invoice Invoice Invoice Invoice Invoice Invoice	07/01/2016 10/01/2016 01/01/2016 04/01/2016 07/01/2016 10/01/2016 01/01/2016 04/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6204 12-6573 12-6940	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183	CM 3/4" CM 3/4" C. Cf's used CM 2" CM 2"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter sigain, 2 inch meter, less consumption again, 2 inch meter, less consumption
Invoice	07/01/2016 10/01/2016 01/01/2016 04/01/2016 07/01/2016 10/01/2016 01/01/2016 04/01/2016 07/01/2016 10/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6204 12-6573 12-6940 12-7313	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183	CM 3/4" CM 3/4" C. Cf's used CM 2" CM 2" CM 2" CM 2"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 89.43 a	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter igain, 2 inch meter, less consumption
Invoice	07/01/2016 10/01/2016 01/01/2016 04/01/2016 07/01/2016 10/01/2016 01/01/2016 04/01/2016 07/01/2016 07/01/2016 01/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6204 12-6573 12-6940 12-7313 12-6207	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250	CM 3/4" CM 3/4" C. Cf's used C. M 2" CM 2" CM 2" CM 2" CM 2" CM 2" CM 2"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 2,767.50	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 89.43 a 89.43 a	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter igain, 2 inch meter, less consumption inconsumption?
Invoice	07/01/2016 10/01/2016 01/01/2016 04/01/2016 04/01/2016 10/01/2016 01/01/2016 04/01/2016 07/01/2016 07/01/2016 01/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6204 12-6573 12-6940 12-7313 12-6207 12-6576	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250	CM 3/4" CM 3/4" CM 3/4" C S sused C. Cf's used C. CM 2" CM 2" CM 2" C. Cf's used C. Cf's used C. Cf's used	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 2,767.50 2,767.50	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ugain, 2 inch meter, less consumption upain, 2 inch meter, less consumption 2 incsumption 3 incsum
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016 01/01/2016 01/01/2016 07/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6204 12-6573 12-6940 12-7313 12-6207 12-6576 12-6943	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250	CM 3/4" CM 3/4" C. Cf's used CM 2" CM 2" CM 2" CM 2" C. Cf's used C. Cf's used C. Cf's used	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ugain, 2 inch meter, less consumption consumption?
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016 04/01/2016 07/01/2016 01/01/2016 04/01/2016 04/01/2016 04/01/2016 04/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6204 12-6573 12-7313 12-6207 12-7313 12-6207 12-6943 12-6943	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250	CM 3/4" CM 3/4" C. Cf's used C. Cf's used C. Cf's used C. Cf's used CM 2" CM 2" CM 2" CCM 5 used C. Cf's used C. Cf's used	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,620.00	761.28 c 761.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption igain, 2 inch meter, less consump
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016 10/01/2016 01/01/2016 04/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 04/01/2016 07/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6204 12-7313 12-6207 12-6573 12-6940 12-7313 12-6207 12-6543 12-7316	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250	CM 3/4" CM 3/4" C. Cf's used CM 2" CM 2" CM 2" CCM 2" CM 2"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,620.00 4.00	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption igain, 2 inch meter, less consump
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016 10/01/2016 01/01/2016 04/01/2016 07/01/2016 10/01/2016 01/01/2016 04/01/2016 07/01/2016 10/01/2016 07/01/2016 10/01/2016 10/01/2016 04/01/2016 04/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6204 12-3313 12-6207 12-6576 12-6943 12-316 12-316 12-316 12-316 12-316 12-316	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250	CM 3/4" CM 3/4" CM 3/4" C. Cf's used CM 2" CM 2" CM 2" CM 2" CM 5" CM 15" CM 15"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,520.00 4,00 4,00	761.28 c 761.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption igain, 2 inch meter, less consump
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016 10/01/2016 01/01/2016 07/01/2016 07/01/2016 10/01/2016 04/01/2016 04/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 04/01/2016 04/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6204 12-3313 12-6207 12-6576 12-6943 12-316 12-316 12-316 12-316 12-316 12-316	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250	CM 3/4" CM 3/4" C. Cf's used CM 2" CM 2" CM 2" CCM 2" CM 2"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,620.00 4.00 4.00 4.00	761.28 c 761.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption igain, 2 inch meter, less consump
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016 01/01/2016 07/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6204 12-6573 12-6940 12-7313 12-6207 12-6943 12-7316 12-6207 12-6207 12-6576 12-6207	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250	CM 3/4" CM 3/4" CM 3/4" C. Cf's used CM 2" CM 2" CM 2" CM 2" CM 5" CM 15" CM 15"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,520.00 4,00 4,00	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption igain, 2 inch meter, less consump
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 04/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 04/01/2016 04/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6204 12-7313 12-6207 12-6576 12-6943 12-6943 12-6943 12-6576 12-6576 12-6576 12-6576 12-6576 12-6576	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250	CM 3/4" CM 3/4" C. Cf's used C. Cf's used C. Cf's used C. Cf's used CM 2" CM 2" CM 2" CCM 2" CCM 2" CCM 5'' CM 5'' CM 5'' CM 5'' CM 1.5" CM 1.5" CM 1.5" CM 1.5"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,620.00 4.00 4.00 4.00	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 289.20 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption igain, 2 inch meter, less consump
Invoice	07/01/2016 10/01/2016 01/01/2016 04/01/2016 07/01/2016 07/01/2016 10/01/2016 07/01/2016 07/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6204 12-6573 12-6207 12-6576 12-6943 12-7316 12-6943 12-6943 12-7316 12-6943 12-7316	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250	CM 3/4" CM 3/4" CM 3/4" C. Cf's used C. M 2" CM 2" CM 2" C. Cf's used CM 1.5" CM 1.5" CM 1.5" CM 1.5" C. M 1.5" C. M 1.5" C. M 1.5" C. Cf's used	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,620.00 4.00 4.00 4.00 4.00 4.00 8,753.00	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 289.20 c 289.20 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption igain, 2 inch meter, less consump
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6204 12-7313 12-6207 12-6576 12-6943 12-7316 12-6207 12-6576 12-6943 12-7316 12-6207 12-6576 12-6943 12-7316 12-6207 12-6576	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1	CM 3/4" CM 3/4" C. Cf's used CM 2" CM 2" CM 2" CM 2" CM 5" CM 5" CM 5" CM 1.5"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,620.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00	761.28 c 761.28 c 751.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 289.20 c 289.20 c 289.20 c 289.20 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ugain, 2 inch meter, less consumption ugain, 2 inch meter, less consumpt
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016 01/01/2016 07/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6204 12-7313 12-6207 12-6376 12-6943 12-7316 12-6207 12-6943 12-7316 12-6207 12-6943 12-7316 12-6207 12-6943 12-7316	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1 Mt Hood Resort Lodging 250.1 Mt Hood Resort Lodging 250.1	CM 3/4" CM 3/4" C. Cf's used CM 2" CM 2" CM 2" C. Cf's used CM 1.5" CM 1.5" CM 1.5" CC 1.5" CC 1.5" CC 1.5" CC 1.5" CC 1.5" CM 1.5"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 · Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,620.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 289.20 c 289.20 c 289.20 c 98.03 c 98.03 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter sigain, 2 inch meter, less consumption sonsumption? Consumption?
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016 01/01/2016 07/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6204 12-7313 12-6207 12-6943 12-7316 12-6207 12-6576 12-6943 12-7316 12-6207 12-6576 12-6943 12-7316	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1	CM 3/4" CM 3/4" C. Cf's used CM 2" CM 2" CM 2" CCM 2" C. Cf's used CM 1.5" CM 1.5" CM 1.5" CC 1.5"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 4.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00 8,753.00 8,753.00	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 289.20 c 289.20 c 289.20 c 289.20 c 98.03 c 98.03 c 98.03 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption gain, 2 inch meter, less consumption consumption?
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016 01/01/2016 07/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6204 12-6207 12-6207 12-6576 12-6943 12-7316 12-6208 12-6207 12-6576 12-6943 12-7316 12-6208 12-6208 12-6208 12-6208 12-637 12-634 12-637 12-634 12-7316	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1	CM 3/4" CM 3/4" CM 3/4" C. Cf's used CM 2" CM 2" CM 2" CM 1" CM 2" CM 5" CM 1.5" CM	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,620.00 4.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00 8,8462.57 6.00	761.28 c 761.28 c 751.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 289.20 c 289.20 c 289.20 c 289.20 c 98.03 c 98.03 c 98.03 c 98.03 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ugain, 2 inch meter, less consumption consumption?
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016 07/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6940 12-7313 12-697 12-6576 12-6943 12-7316 12-6207 12-6576 12-6207 12-6576 12-6207 12-6207 12-6207 12-6208 12-7316 12-6207 12-6208 12-7316 12-6208 12-6207 12-6208 12-6	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1	CM 3/4" CM 3/4" C. Cf's used	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 4.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00 8,462.57 6.00 6.00	761.28 c 761.28 c 761.28 c 761.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 29.34 c 289.20 c 289.20 c 289.20 c 289.20 c 289.20 c 289.30 a 98.33 c 98.33 c 98.33 c 98.34 c 285.48 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption gain, 2 inch meter, less consumption gonsumption? consumption?
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6940 12-7313 12-6207 12-6943 12-7316 12-6943 12-6943 12-7316 12-6943 12-6943 12-6943 12-6943 12-6943 12-6943 12-6944 12-6947 12-6944 12-6947 12-6944 12-6947 12-6944	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1	CM 3/4" CM 3/4" C. Cf's used CM 2" CM 2" CM 2" CM 2" CM 2" CM 5'' CM 5'' CM 5'' CS used C. Cf's used CM 1.5" CM 1.5	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,620.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00 8,462.57 6.00 6.00	761.28 c 761.28 c 761.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption again, 2 inch meter, less consump
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6207 12-6576 12-6943 12-7316 12-6207 12-6576 12-6943 12-7316 12-6208 12-6208 12-6577 12-6944 12-7317 12-6208 12-6577 12-6208 12-6577 12-6208 12-6577 12-6208 12-6577 12-6208 12-6577 12-6208 12-6577 12-6208 12-6577 12-6208 12-6577 12-6208 12-6577 12-6208 12-6577	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1	CM 3/4" CM 3/4" C. Cf's used	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 4.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00 8,462.57 6.00 6.00	761.28 c 761.28 c 761.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption gain, 2 inch meter, less consumption gonsumption? consumption?
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6207 12-6576 12-6943 12-7316 12-6207 12-6576 12-6943 12-7316 12-6208 12-6208 12-6577 12-6944 12-7317 12-6208 12-6577 12-6208 12-6577 12-6208 12-6577 12-6208 12-6577 12-6208 12-6577 12-6208 12-6577 12-6208 12-6577 12-6208 12-6577 12-6208 12-6577 12-6208 12-6577	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1	CM 3/4" CM 3/4" C. Cf's used CM 2" CM 2" CM 2" CM 2" CM 2" CM 5'' CM 5'' CM 5'' CS used C. Cf's used CM 1.5" CM 1.5	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,620.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00 8,462.57 6.00 6.00	761.28 c 761.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter gain, 2 inch meter, less consumption gonsumption? consumption?
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6204 12-573 12-6940 12-576 12-6943 12-7316 12-6207 12-6576 12-6943 12-7316 12-6208 12-6208 12-6577 12-6944 12-7317 12-6944 12-7317 12-6944 12-7318	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1	CM 3/4" CM 3/4" CM 3/4" C. Cf's used CM 2" CM 2" CM 2" CM 2" CM 1.5" CM 3/4" CM 3/4" CM 3/4"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,620.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00 8,462.57 6.00 6.00 6.00	761.28 c 761.28 c 751.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter usgain, 2 inch meter, less consumption 2 inconsumption 2 inconsumption 3 inch usgain, 2 inch usgain, 2 inch meter, less consumption 2 inconsumption 3 inconsumption 3 inconsumption 4 inconsumption 5 inconsumption 5 inconsumption 6 inconsumption 7 inconsumption 7 inconsumption 9 in
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 07/01/2016 01/01/2016 07/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6204 12-7313 12-6207 12-6576 12-6943 12-7316 12-6943 12-7316 12-6943 12-7316 12-6207 12-6576 12-6943 12-7316 12-6207 12-6576 12-6208 12-6207 12-6208 12-6207 12-6208 12-7316 12-6208 12-7317 12-6944 12-7317 12-6944 12-7317 12-6944 12-7317 12-6944 12-7317 12-6944 12-7317	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1	CM 3/4" CM 3/4" C. Cf's used CM 3/4" CM 3/4"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 4.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00 8,763.00 6,00 6.00 6.00 6.00 6.00 9,347.50 1.00	761.28 c 761.28 c 761.28 c 761.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption gain, 2 inch meter, less consumption gonsumption? consumption? consumpti
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6940 12-7313 12-6207 12-6943 12-7316 12-6207 12-6943 12-7316 12-6208 12-6343 12-7316 12-6208 12-6944 12-7317 12-6208 12-6944 12-7317 12-6208 12-6944 12-7317 12-6208 12-6348	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1 Mt Hood Ski Patrol 057 Parmelee, Brandon & Melissa 171	CM 3/4" CM 3/4" C. Cf's used CM 2" CM 2" CM 2" CM 2" C. Cf's used CM 1.5"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,767.50 3,767.50 2,763.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00 8,753.00 8,753.00 6.00 6.00 6.00 6.00 6.00 9,347.50 1.00	761.28 c 761.28 c 761.28 c 761.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 289.30 c 289.40 c 289.	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter gain, 2 inch meter, less consumption consumption? consumption ope bill? why only one bill?
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6940 12-7316 12-6207 12-6576 12-6943 12-7316 12-6208 12-6577 12-6944 12-7317 12-6208 12-6577 12-6944 12-7317 12-6944 12-7317 12-6944 12-7317 12-6944 12-7318 12-7318 12-7318	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1 Mt Hood Ski Patrol 057 Parmelee, Brandon & Melissa 171 Parmelee, Brandon & Melissa 171	CM 3/4" CM 3/4" CM 3/4" C 3/4" C 6 5 used C 7 used C 6 1 used C 7 used C 7 used C 7 used C 7 used C 8 used C 7 used C 1 used C 2" CM 2" C 1 used C 1 used C 1 used C 2 used C 3 used C 6 used C 6 used C 7 used C 1 used C 2 used C 3/4"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,620.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00 8,753.00 6,00 6.00 6.00 6.00 6.00 9,347.50 1.00 1.00	761.28 c 761.28 c 751.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 289.	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ugain, 2 inch meter, less consumption upain, 2 inch meter, less consumption upain, 2 inch meter, less consumption 2 consumption ? consumption up
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 01/01/2016 07/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6204 12-6576 12-6943 12-7316 12-6207 12-6576 12-6943 12-7316 12-6207 12-6577 12-6944 12-7317 12-6208 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-633	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1 Mt Hood Ski Patrol 057 Mt Hood Ski Patrol 057 Parmelee, Brandon & Melissa 171 Parmelee, Brandon & Melissa 171	CM 3/4" CM 3/4" CM 3/4" C. Cf's used CM 3/4"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,620.00 4.00 4.00 4.00 4.00 8,753.00	761.28 c 761.28 c 761.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 489.20 c 289.20 c 289.	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption gain, 2
Invoice	07/01/2016 10/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6207 12-6973 12-6940 12-7313 12-6207 12-6576 12-6943 12-7316 12-6576 12-6943 12-7316 12-6576 12-6944 12-7317 12-6944 12-7317 12-6944 12-7317 12-6948 12-7317 12-6948 12-7317 12-6948 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1	CM 3/4" CM 3/4" C. Cf's used C. M 3/4" CM 3/4"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,763.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00 8,753.00 6.00 6.00 6.00 6.00 6.00 9,337.50 1.00 1.00 1.00 1.00 1.00	761.28 c 761.28 c 761.28 c 761.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 289.30 c 289.	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption gain, 2 inch meter, less consumption gronsumption? consumption? consumption or bill? why only one bill? why only one bill? to consumption to consumption to consumption
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 01/01/2016 07/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6940 12-7313 12-6207 12-6576 12-6943 12-7316 12-6207 12-6576 12-6943 12-7316 12-6208 12-6577 12-6574 12-7317 12-6208 12-6577 12-6944 12-7317 12-6968 12-6961 12-6968 12-6968	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1 Mt Hood Ski Patrol 057 Parmelee, Brandon & Melissa 171 Skibowl E 361	CM 3/4" CM 3/4" CM 3/4" C. Cf's used CM 1.5" CM 1.5" CM 1.5" CM 1.5" C. Cf's used CM 3/4" CM 5/4" CM 5/4" CM 5/5 used	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,767.50 2,763.00 4.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00 8,753.00 6.00 6.00 6.00 6.00 6.00 9,347.50 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	761.28 c 761.28 c 761.28 c 761.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 289.30 c 289.	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter gain, 2 inch meter, less consumption gronsumption? consumption gronsumption gr
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 07/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6940 12-7313 12-6941 12-6276 12-6943 12-7316 12-6208 12-6577 12-6944 12-7317 12-6208 12-6577 12-6944 12-7317 12-6208 12-637 12-6948 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-6968 12-7341 12-6968 12-7341	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1 Mt Hood	CM 3/4" CM 3/4" CM 3/4" C 3/4" C 5/5 used C 6/5 used C 7/5 used C 7/5 used C 7/5 used C 6/5 used C 6/5 used C 6/5 used C 7/5 used C 1.5" CM 1.5" CM 1.5" CM 1.5" CM 1.5" CM 1.5" C 1/5 used C 6/5 used C 6/5 used C 6/5 used C 6/5 used C 7/5 used C 6/5 used C 7/5 used C 6/5 used C 7/5 used C 1/5 used	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,763.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00 8,753.00 6.00 6.00 6.00 6.00 6.00 9,337.50 1.00 1.00 1.00 1.00 1.00	761.28 c 761.28 c 761.28 c 761.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 289.30 c 289.	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter gagin, 2 inch meter, less consumption gronsumption? consumption? consumption? consumption? consumption? consumption? consumption? consumption? consumption? consumption good gaging ga
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 01/01/2016 07/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6940 12-7313 12-6941 12-6276 12-6943 12-7316 12-6208 12-6577 12-6944 12-7317 12-6208 12-6577 12-6944 12-7317 12-6208 12-637 12-6948 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-6968 12-7341 12-6968 12-7341	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1 Mt Hood Ski Patrol 057 Parmelee, Brandon & Melissa 171 Skibowl E 361	CM 3/4" CM 3/4" CM 3/4" C. Cf's used CM 3/4" C. Cf's used CM 3/4"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 · Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,767.50 2,763.00 4.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00 8,753.00 6.00 6.00 6.00 6.00 6.00 9,347.50 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	761.28 c 761.28 c 751.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 47.88 c 285.48 c 285.48 c 285.48 c 285.48 c 47.58 n 47.58 n 47.58 n 47.58 n 47.58 n	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter gagin, 2 inch meter, less consumption gonsumption? consumption? consumption on consumption to consumption to consumption con consumption con consumption why only 2 bills for consumption
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 01/01/2016 07/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 01/01/2016 03/12/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6940 12-7313 12-6576 12-6943 12-7316 12-6576 12-6943 12-7316 12-6207 12-6577 12-6944 12-7317 12-6944 12-7317 12-6944 12-7317 12-6948 12-6577 12-6948 12-6577 12-6948 12-7318	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1 Mt Hood	CM 3/4" CM 3/4" CM 3/4" C 3/4" C 5/5 used C 6/5 used C 7/5 used C 7/5 used C 7/5 used C 6/5 used C 6/5 used C 6/5 used C 7/5 used C 1.5" CM 1.5" CM 1.5" CM 1.5" CM 1.5" CM 1.5" C 1/5 used C 6/5 used C 6/5 used C 6/5 used C 6/5 used C 7/5 used C 6/5 used C 7/5 used C 6/5 used C 7/5 used C 1/5 used	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,620.00 4.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00 8,753.00 8,753.00 8,753.00 10.00 1.00 1.00 1.00 1.00 1.00 1.00	761.28 c 761.28 c 761.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 40.28 c 289.20 c 289.2	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter gagin, 2 inch meter, less consumption growsumption? consumption? consumption good gaging gagin
Invoice	07/01/2016 10/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6207 12-6976 12-6976 12-6976 12-6976 12-6976 12-6976 12-6976 12-6976 12-6976 12-6976 12-6976 12-6976 12-6976 12-6976 12-6978 12-7316 12-6277 12-6944 12-7317 12-6278	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1 Mt Hood Resort	CM 3/4" CM 3/4" C. Cf's used CM 3/4" CM	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,767.50 2,763.00 4.00 4.00 4.00 4.00 4.00 6.00 6.00 6	761.28 c 761.28 c 761.28 c 761.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 47.58 a	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption gain, 2 inch meter, less consumption gronsumption? consumption? consumption on gain, 2 inch meter, less consumption? consumption? consumption? consumption on gain, 2 inch meter, less consumption why only 2 bills for consumption
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 01/01/2016 07/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6940 12-7316 12-6279 12-6576 12-6943 12-7316 12-6208 12-6577 12-6944 12-7317 12-6208 12-6577 12-6944 12-7317 12-6208 12-6577 12-6944 12-7317 12-6208 12-6577 12-6944 12-7317 12-6208 12-6577 12-6944 12-7317 12-6208 12-6577 12-6944 12-7317 12-6361 12-6361 12-6361 12-6361 12-6361 12-6361 12-6369	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1 Mt Hood Ski Patrol 057 Parmelee, Brandon & Melissa 171 Skibowl E 361 Skibowl E 361 Skibowl E 361 Skibowl E 361	CM 3/4" CM 3/4" CM 3/4" CM 3/4" C. Cf's used CM 1.5" CM 1.5" C. Cf's used C. Cf's used C. Cf's used CM 1.5" C. Cf's used CM 1.5" C. Cf's used CM 3/4" CM 3/4	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,620.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00 8,753.00 6.00 6.00 6.00 6.00 6.00 1.00 1.00 1	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 40.20 c 289.20 c 289.20 c 40.20 c 40.	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption gain, 2 inch meter, less consumption igain, 2 inch meter, less consumpt
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 01/01/2016 07/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6940 12-7313 12-6941 12-6576 12-6943 12-7316 12-6208 12-6577 12-6944 12-7317 12-6208 12-631 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-6694 12-7319 12-6649 12-6649 12-6649 12-6649 12-6649 12-6799	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1 Mt Hood Ski Patrol 057 Parmelee, Brandon & Melissa 171 Skibowl E 361	CM 3/4" CM 3/4" CM 3/4" C. Cf's used CM 1.5" CM 1.5" CM 1.5" CM 1.5" CM 1.5" CM 1.5" C. Cf's used CM 3/4" MH 4" MH 4" MH 4"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,620.00 4.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00 8,753.00 8,753.00 8,753.00 10.00 1.00 1.00 1.00 1.00 1.00 1.00	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 40.20 c 289.20 c 289.20 c 40.20 c 40.	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption gain, 2 inch meter, less consumption gronsumption? consumption? consumption? consumption gronsumption gronsumption gronsumption gronsumption? consumption gronsumption gronsump
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 01/01/2016 07/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6940 12-7313 12-6576 12-6943 12-7316 12-6576 12-6943 12-7316 12-6207 12-6576 12-6944 12-7317 12-6944 12-7317 12-6944 12-7317 12-6948 12-6577 12-6948 12-7318	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1 Mt Hood Ski Patrol 057 Parmelee, Brandon & Melissa 171 Skibowl E 361 Skibowl E 361 Skibowl E 361 Skibowl West 364	CM 3/4" CM 3/4" CM 3/4" C. Cf's used CM 3/4" CM 3/4" CM 3/4" C. Cf's used CM 1" CM 3/4" C. Cf's used CM 1" CM 3/4"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,767.50 2,767.50 3,753.00 4.00 4.00 4.00 4.00 4.00 6.00 6.00 6	761.28 c 761.28 c 761.28 c 751.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 47.58 a 285.48 c 285.4	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption gain, 2 inch meter, less consumption igain, 2 inch meter, less consumpt
Invoice	07/01/2016 10/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6207 12-6976 12-6976 12-6976 12-6976 12-6976 12-6977 12-6976 12-6977 12-6976 12-6977 12-6978 12-7316 12-6277 12-6944 12-7317 12-6278 12-627	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1 Mt Hood Resort	CM 3/4" CM 3/4" C. Cf's used CM 2" CM 2" CM 2" CM 2" CM 2" CM 1.5" CM 3/4" C	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,620.00 4.00 4.00 4.00 4.00 4.00 6.00 6.00	761.28 c 761.28 c 761.28 c 761.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 47.58 a 47.	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter gagin, 2 inch meter, less consumption gain, 2 i
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 01/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 07/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6940 12-7316 12-6576 12-6943 12-7316 12-6208 12-6577 12-6944 12-7317 12-6208 12-6577 12-6944 12-7317 12-6208 12-6577 12-6944 12-7317 12-6208 12-6577 12-6944 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-6208 12-6601 12-6601 12-6279 12-6649 12-7016 12-7390 12-8224 12-7390 12-8224	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1 Mt Hood Ski Patrol 057 Parmelee, Brandon & Melissa 171 Skibowl E 361 Skibowl E 361 Skibowl E 361 Skibowl E 361 Skibowl West 364 Summit Ski Area 367.1 Summit Ski Area 367.1	CM 3/4" CM 3/4" CM 3/4" CM 3/4" C. Cf's used CM 1.5" CM 1.5" CM 1.5" C. Cf's used CM 3/4" MH 4" MH 2" MH 2"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 1.00 1.00 2,767.50 2,767.	761.28 c 761.28 c 25.27 a 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 29.34 c 289.20 c 40.20	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter gagin, 2 inch meter, less consumption gronsumption? consumption? consumption? consumption? consumption? consumption? consumption? consumption gronsumption consumption oconsumption consumption consumption consumption consumption why only 2 bills for consumption
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 01/01/2016 07/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6940 12-7313 12-6207 12-6576 12-6943 12-7316 12-6208 12-6207 12-6576 12-6943 12-7316 12-6208 12-6207 12-6944 12-7317 12-6208 12-6208 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-6201 12-6649 12-7341 12-6361 12-6279 12-6649 12-7390 12-8224 12-6306 12-7390 12-8224 12-6306 12-7044	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1 Sti Hood Resort Lodging 250.1 Mt Hood	CM 3/4" CM 3/4" CM 3/4" C. Cf's used CM 3/4" CM 3/	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 1.00 1.00 2,767.50 2,767.50 2,767.50 2,767.50 2,620.00 4.00 4.00 4.00 4.00 4.00 8,753.00 8,753.00 8,753.00 8,753.00 8,753.00 8,753.00 10.00 1.00 1.00 1.00 1.00 1.00 1.00	761.28 c 761.28 c 761.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 32.00 c 289.20 c 47.58 a 47.	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption gain, 2 inch meter, less consumption gronsumption? consumption ? consumption oconsumption consumption to consumption why only 2 bills for consumption
Invoice	07/01/2016 10/01/2016 01/01/2016 01/01/2016 01/01/2016 07/01/2016 01/01/2016	12-6939 12-7312 12-6204 12-6573 12-6940 12-7313 12-6940 12-7313 12-6940 12-7313 12-6207 12-6576 12-6943 12-7316 12-6208 12-6207 12-6576 12-6943 12-7316 12-6208 12-6207 12-6944 12-7317 12-6208 12-6208 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-7318 12-6201 12-6649 12-7341 12-6361 12-6279 12-6649 12-7390 12-8224 12-6306 12-7390 12-8224 12-6306 12-7044	Mt Hd LLC II/South Lodge 347.3 Mt Hd LLC II/South Lodge 347.3 Mt Hood Academy 183 Mt Hood Resort Lodging 250 Mt Hood Resort Lodging 250.1 Mt Hood Ski Patrol 057 Parmelee, Brandon & Melissa 171 Skibowl E 361 Skibowl E 361 Skibowl E 361 Skibowl E 361 Skibowl West 364 Summit Ski Area 367.1 Summit Ski Area 367.1	CM 3/4" CM 3/4" CM 3/4" CM 3/4" C. Cf's used CM 1.5" CM 1.5" CM 1.5" C. Cf's used CM 3/4" MH 4" MH 2" MH 2"	Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate Quarterly base rate Quarterly base rate Quarterly base rate Water consumption for the quarter (\$1.12/100Cf) Quarterly base rate	461.2 · Commercial Metered	141 - Accounts Receivable	16.00 16.00 2,256.00 2,256.00 2,256.00 1,808.16 1.00 1.00 1.00 1.00 1.00 1.00 2,767.50 2,767.	761.28 c 761.28 c 761.28 c 25.27 a 25.27 a 20.25 a 89.43 a 89.43 a 89.43 a 31.00 c 31.00 c 32.00 c 289.20 c 47.58 a 47.	consumption for 3/4 inch meter higher than 1 inch meter consumption for 3/4 inch meter higher than 1 inch meter ligain, 2 inch meter, less consumption gain, 2 inch meter, less consumption gronsumption? consumption? consumption? consumption gronsumption gronsumption gronsumption gronsumption? consumption gronsumption

Туре	Date	Num	Name	Item
Invoice	01/01/2016	12-5997	Ackerson / Paraskeva 331	C. Cf's used
Invoice	04/01/2016	12-6365	Ackerson / Paraskeva 331	C. Cf's used
Invoice	07/01/2016	12-6732	Ackerson / Paraskeva 331	C. Cf's used
Invoice	10/01/2016	12-7102	Ackerson / Paraskeva 331	C. Cf's used
Invoice	01/01/2016	12-6003	Arp, Tom 004	C. Cf's used
Invoice	04/01/2016	12-6371	Arp, Tom 004	C. Cf's used
Invoice	07/01/2016	12-6738	Arp, Tom 004	C. Cf's used
Invoice	10/01/2016	12-7108	Arp, Tom 004	C. Cf's used
Invoice	01/01/2016	12-6007	Barlow Pass West 005	C. Cf's used
Invoice	04/01/2016	12-6375	Barlow Pass West 005	C. Cf's used
Invoice	07/01/2016	12-6742	Barlow Pass West 005	C. Cf's used
Invoice	10/01/2016	12-7112	Barlow Pass West 005	C. Cf's used
Invoice	01/01/2016	12-6008	Barton, John & Julie 177	C. Cf's used
Invoice	04/01/2016	12-6376	Barton, John & Julie 177	C. Cf's used
Invoice	07/01/2016	12-6743	Barton, John & Julie 177	C. Cf's used
Invoice	10/01/2016	12-7113	Barton, John & Julie 177	C. Cf's used
Invoice	01/01/2016	12-6018	Big Blue Capital, LLC 313	C. Cf's used
Invoice	04/01/2016	12-6386	Big Blue Capital, LLC 313	C. Cf's used
Invoice	07/01/2016	12-6753	Big Blue Capital, LLC 313	C. Cf's used
Invoice	10/01/2016	12-7124	Big Blue Capital, LLC 313	C. Cf's used
Invoice	01/01/2016	12-6024	Branson, Margaret 032	C. Cf's used
Invoice	04/01/2016	12-6392	Branson, Margaret 032	C. Cf's used
Invoice	07/01/2016	12-6759	Branson, Margaret 032	C. Cf's used
Invoice	10/01/2016	12-7130	Branson, Margaret 032	C. Cf's used
Invoice	01/01/2016	12-6036	Campbell, Jim & Laura 160	C. Cf's used
Invoice	04/01/2016	12-6405	Campbell, Jim & Laura 160	C. Cf's used
Invoice	07/01/2016	12-6772	Campbell, Jim & Laura 160	C. Cf's used
Invoice	10/01/2016	12-7143	Campbell, Jim & Laura 160	C. Cf's used
Invoice	01/01/2016	12-6040	Carrier/OR Exprnce LLC 100	C. Cf's used
Invoice	04/01/2016	12-6409	Carrier/OR Exprnce LLC 100	C. Cf's used
Invoice	07/01/2016	12-6776	Carrier/OR Exprnce LLC 100	C. Cf's used
Invoice	10/01/2016	12-7147	Carrier/OR Exprnce LLC 100	C. Cf's used
Invoice	01/01/2016	12-6053	Collins Lake Chalet 311	C. Cf's used
Invoice	04/01/2016	12-6422	Collins Lake Chalet 311	C. Cf's used
Invoice	07/01/2016	12-6789	Collins Lake Chalet 311	C. Cf's used
Invoice	10/01/2016	12-7160	Collins Lake Chalet 311	C. Cf's used
Invoice	01/01/2016	12-6055	Cordan, Robyn N. & Michael, Jeffrey 01	C. Cf's used
Invoice	04/01/2016	12-6424	Cordan, Robyn N. & Michael, Jeffrey 01	C. Cf's used
Invoice	07/01/2016	12-6791	Cordan, Robyn N. & Michael, Jeffrey 01	C. Cf's used
Invoice	10/01/2016	12-7162	Cordan, Robyn N. & Michael, Jeffrey 01	C. Cf's used
Invoice	01/01/2016	12-6068	Edelweiss HOA 258	C. Cf's used
Invoice	04/01/2016	12-6436	Edelweiss HOA 258	C. Cf's used
Invoice	07/01/2016	12-6803	Edelweiss HOA 258	C. Cf's used
Invoice	10/01/2016	12-7174	Edelweiss HOA 258	C. Cf's used
Invoice	01/01/2016	12-6098	Guettler/Zuber 097	C. Cf's used

Invoice	04/01/2016	12-6467	Guettler/Zuber 097	C. Cf's used
Invoice	07/01/2016	12-6834	Guettler/Zuber 097	C. Cf's used
Invoice	10/01/2016	12-7207	Guettler/Zuber 097	C. Cf's used
Invoice	01/01/2016	12-6113	Harris, Rod & Linda 317	C. Cf's used
Invoice	04/01/2016	12-6481	Harris, Rod & Linda 317	C. Cf's used
Invoice	07/01/2016	12-6848	Harris, Rod & Linda 317	C. Cf's used
Invoice	10/01/2016	12-7221	Harris, Rod & Linda 317	C. Cf's used
Invoice	10/01/2016	12-7251	Johnson, Peter 046	C. Cf's used
Invoice	01/01/2016	12-6145	Kamikawa, James 319	C. Cf's used
Invoice	04/01/2016	12-6514	Kamikawa, James 319	C. Cf's used
Invoice	07/01/2016	12-6881	Kamikawa, James 319	C. Cf's used
Invoice	10/01/2016	12-7254	Kamikawa, James 319	C. Cf's used
Invoice	01/01/2016	12-6160	Landauer, Larry 242	C. Cf's used
Invoice	04/01/2016	12-6529	Landauer, Larry 242	C. Cf's used
Invoice	07/01/2016	12-6896	Landauer, Larry 242	C. Cf's used
Invoice	10/01/2016	12-7269	Landauer, Larry 242	C. Cf's used
Invoice	01/01/2016	12-6165	Leitgeb, Sherman&Lark 332	C. Cf's used
Invoice	04/01/2016	12-6534	Leitgeb, Sherman&Lark 332	C. Cf's used
Invoice	07/01/2016	12-6901	Leitgeb, Sherman&Lark 332	C. Cf's used
Invoice	10/01/2016	12-7274	Leitgeb, Sherman&Lark 332	C. Cf's used
Invoice	01/01/2016	12-6167	Lettunich, Michael /24-7 280	C. Cf's used
Invoice	04/01/2016	12-6536	Lettunich, Michael /24-7 280	C. Cf's used
Invoice	07/01/2016	12-6903	Lettunich, Michael /24-7 280	C. Cf's used
Invoice	10/01/2016	12-7276	Lettunich, Michael /24-7 280	C. Cf's used
Invoice	01/01/2016	12-6169	Little Trail Lodge 024	C. Cf's used
Invoice	04/01/2016	12-6538	Little Trail Lodge 024	C. Cf's used
Invoice	07/01/2016	12-6905	Little Trail Lodge 024	C. Cf's used
Invoice	10/01/2016	12-7278	Little Trail Lodge 024	C. Cf's used
Invoice	01/01/2016	12-6171	Lloyd Scroggins Construction 156	C. Cf's used
Invoice	04/01/2016	12-6540	Lloyd Scroggins Construction 156	C. Cf's used
Invoice	07/01/2016	12-6907	Lloyd Scroggins Construction 156	C. Cf's used
Invoice	10/01/2016	12-7280	Lloyd Scroggins Construction 156	C. Cf's used
Invoice	01/01/2016	12-6176	Lynott/Parson 307	C. Cf's used
Invoice	04/01/2016	12-6545	Lynott/Parson 307	C. Cf's used
Invoice	07/01/2016	12-6912	Lynott/Parson 307	C. Cf's used
Invoice	10/01/2016	12-7285	Lynott/Parson 307	C. Cf's used
Invoice	01/01/2016	12-6185	McLean, Terry&Elizabeth 007	C. Cf's used
Invoice	04/01/2016	12-6554	McLean, Terry&Elizabeth 007	C. Cf's used
Invoice	07/01/2016	12-6921	McLean, Terry&Elizabeth 007	C. Cf's used
Invoice	10/01/2016	12-7294	McLean, Terry&Elizabeth 007	C. Cf's used
Invoice	01/01/2016	12-6199	Morse, Dorte&Greg 114	C. Cf's used
Invoice	04/01/2016	12-6568	Morse, Dorte&Greg 114	C. Cf's used
Invoice	07/01/2016	12-6935	Morse, Dorte&Greg 114	C. Cf's used
Invoice	10/01/2016	12-7308	Morse, Dorte&Greg 114	C. Cf's used
Invoice	01/01/2016	12-6201	Mt Hd LLC II/North Lodge 347.2	C. Cf's used
Invoice	04/01/2016	12-6570	Mt Hd LLC II/North Lodge 347.2	C. Cf's used
Invoice	07/01/2016	12-6937	Mt Hd LLC II/North Lodge 347.2	C. Cf's used

Invoice					
Invoice	Invoice	10/01/2016	12-7310	Mt Hd LLC II/North Lodge 347.2	C. Cf's used
Invoice	Invoice	01/01/2016	12-6202	Mt Hd LLC II/Pool & Clb Hse 347.1	C. Cf's used
Invoice	Invoice	04/01/2016	12-6571	Mt Hd LLC II/Pool & Clb Hse 347.1	C. Cf's used
Invoice	Invoice	07/01/2016	12-6938	Mt Hd LLC II/Pool & Clb Hse 347.1	C. Cf's used
Invoice	Invoice	10/01/2016	12-7311	Mt Hd LLC II/Pool & Clb Hse 347.1	C. Cf's used
Invoice	Invoice	01/01/2016	12-6203	Mt Hd LLC II/South Lodge 347.3	C. Cf's used
Invoice	Invoice	04/01/2016	12-6572	Mt Hd LLC II/South Lodge 347.3	C. Cf's used
Invoice	Invoice	07/01/2016	12-6939	Mt Hd LLC II/South Lodge 347.3	C. Cf's used
Invoice	Invoice	10/01/2016	12-7312	Mt Hd LLC II/South Lodge 347.3	C. Cf's used
Invoice	Invoice	01/01/2016	12-6208	Mt Hood Resort Lodging 250.1	C. Cf's used
Invoice	Invoice	04/01/2016	12-6577	Mt Hood Resort Lodging 250.1	C. Cf's used
Invoice 04/01/2016 12-6586 Neth, Warren 034 C. Cf's use Invoice 07/01/2016 12-6953 Neth, Warren 034 C. Cf's use Invoice 10/01/2016 12-6223 Neth, Warren 034 C. Cf's use Invoice 01/01/2016 12-6223 Nogeire, Mary F 071 C. Cf's use Invoice 04/01/2016 12-6959 Nogeire, Mary F 071 C. Cf's use Invoice 07/01/2016 12-6959 Nogeire, Mary F 071 C. Cf's use Invoice 01/01/2016 12-6959 Nogeire, Mary F 071 C. Cf's use Invoice 01/01/2016 12-6324 Parmelee, Mark 214 C. Cf's use Invoice 04/01/2016 12-6602 Parmelee, Mark 214 C. Cf's use Invoice 04/01/2016 12-6969 Parmelee, Mark 214 C. Cf's use Invoice 10/01/2016 12-6969 Parmelee, Mark 214 C. Cf's use Invoice 01/01/2016 12-6334 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 07/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 07/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6349 Parmelee, Mark 214 D. Cf's use Invoice 01/01/2016 12-6349 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6240 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6397 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6976 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6986 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6986 Ravi & Putnam 060 C. Cf's use Invoice 01/01/2016 12-6988 Ravi & Putnam 060 C. Cf's use Invoice 01/01/2016 12-6987 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-638 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-638 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-638 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-638 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-69	Invoice	07/01/2016	12-6944	Mt Hood Resort Lodging 250.1	C. Cf's used
Invoice	Invoice	10/01/2016	12-7317	Mt Hood Resort Lodging 250.1	C. Cf's used
Invoice	Invoice	04/01/2016	12-6586	Neth, Warren 034	C. Cf's used
Invoice 01/01/2016 12-6223 Nogeire, Mary F 071 C. Cf's use Invoice 04/01/2016 12-6592 Nogeire, Mary F 071 C. Cf's use Invoice 07/01/2016 12-6595 Nogeire, Mary F 071 C. Cf's use Invoice 10/01/2016 12-6332 Nogeire, Mary F 071 C. Cf's use Invoice 10/01/2016 12-6234 Parmelee, Mark 214 C. Cf's use Invoice 04/01/2016 12-6602 Parmelee, Mark 214 C. Cf's use Invoice 07/01/2016 12-6602 Parmelee, Mark 214 C. Cf's use Invoice 07/01/2016 12-6602 Parmelee, Mark 214 C. Cf's use Invoice 10/01/2016 12-6349 Parmelee, Mark 214 C. Cf's use Invoice 01/01/2016 12-7342 Parmelee, Mark 214 C. Cf's use Invoice 01/01/2016 12-6338 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6607 Payne, Brian 025 C. Cf's use Invoice 07/01/2016 12-6607 Payne, Brian 025 C. Cf's use Invoice 10/01/2016 12-6607 Payne, Brian 025 C. Cf's use Invoice 10/01/2016 12-6349 Parrodin, Gloria & J A 126 C. Cf's use Invoice 04/01/2016 12-6609 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6349 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6349 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6498 Ravi & Putnam 060 C. Cf's use Invoice 01/01/2016 12-6385 Ravi & Putnam 060 C. Cf's use Invoice 01/01/2016 12-6385 Ravi & Putnam 060 C. Cf's use Invoice 01/01/2016 12-6389 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6400 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6400 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6400 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6600 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6600 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6600 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6600 Payne, Brian 025 C. Cf's use Invoi	Invoice	07/01/2016	12-6953	Neth, Warren 034	C. Cf's used
Invoice	Invoice	10/01/2016	12-7326	Neth, Warren 034	C. Cf's used
Invoice 07/01/2016 12-6959 Nogeire, Mary F 071 C. Cf's use Invoice 10/01/2016 12-7332 Nogeire, Mary F 071 C. Cf's use Invoice 01/01/2016 12-6234 Parmelee, Mark 214 C. Cf's use Invoice 04/01/2016 12-6602 Parmelee, Mark 214 C. Cf's use Invoice 07/01/2016 12-6969 Parmelee, Mark 214 C. Cf's use Invoice 10/01/2016 12-7342 Parmelee, Mark 214 C. Cf's use Invoice 01/01/2016 12-6238 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6607 Payne, Brian 025 C. Cf's use Invoice 07/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 07/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6240 Perrodin, Gloria & J A 126 C. Cf's use Invoice 04/01/2016 12-6609 Perrodin, Gloria & J A 126 C. Cf's use Invoice 07/01/2016 12-6976 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6976 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6249 Ravi & Putnam 060 C. Cf's use Invoice 04/01/2016 12-6249 Ravi & Putnam 060 C. Cf's use Invoice 07/01/2016 12-6249 Ravi & Putnam 060 C. Cf's use Invoice 07/01/2016 12-6249 Ravi & Putnam 060 C. Cf's use Invoice 07/01/2016 12-6385 Ravi & Putnam 060 C. Cf's use Invoice 04/01/2016 12-6274 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6274 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6274 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6274 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6274 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6274 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6274 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6274 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6274 Payne, Brian 025 C. Cf's use Invoice 04/	Invoice	01/01/2016	12-6223	Nogeire, Mary F 071	C. Cf's used
Invoice	Invoice	04/01/2016	12-6592	Nogeire, Mary F 071	C. Cf's used
Invoice 01/01/2016 12-6234 Parmelee, Mark 214 C. Cf's use Invoice 04/01/2016 12-6602 Parmelee, Mark 214 C. Cf's use Invoice 07/01/2016 12-6969 Parmelee, Mark 214 C. Cf's use Invoice 10/01/2016 12-7342 Parmelee, Mark 214 C. Cf's use Invoice 01/01/2016 12-6238 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6607 Payne, Brian 025 C. Cf's use Invoice 07/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 10/01/2016 12-6340 Parrodin, Gloria & J A 126 C. Cf's use Invoice 04/01/2016 12-6609 Parrodin, Gloria & J A 126 C. Cf's use Invoice 07/01/2016 12-6609 Parrodin, Gloria & J A 126 C. Cf's use Invoice 07/01/2016 12-6976 Parrodin, Gloria & J A 126 C. Cf's use Invoice 10/01/2016 12-7349 Parrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6349 Parrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6618 Ravi & Putnam 060 C. Cf's use Invoice 07/01/2016 12-6985 Ravi & Putnam 060 C. Cf's use Invoice 07/01/2016 12-6985 Ravi & Putnam 060 C. Cf's use Invoice 01/01/2016 12-6388 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6388 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6389 Payne, Brian 025 C. Cf's use Invoice 07/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6976 Parrodin, Gloria & J A 126 C. Cf's use Invoice 04/01/2016 12-6976 Parrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6981 Parrodin, Gloria	Invoice	07/01/2016	12-6959	Nogeire, Mary F 071	C. Cf's used
Invoice	Invoice	10/01/2016	12-7332	Nogeire, Mary F 071	C. Cf's used
Invoice	Invoice	01/01/2016	12-6234	Parmelee, Mark 214	C. Cf's used
Invoice	Invoice	04/01/2016	12-6602	Parmelee, Mark 214	C. Cf's used
Invoice 01/01/2016 12-6238 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6607 Payne, Brian 025 C. Cf's use Invoice 10/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 10/01/2016 12-6240 Perrodin, Gloria & J A 126 C. Cf's use Invoice 04/01/2016 12-6609 Perrodin, Gloria & J A 126 C. Cf's use Invoice 04/01/2016 12-6609 Perrodin, Gloria & J A 126 C. Cf's use Invoice 07/01/2016 12-6976 Perrodin, Gloria & J A 126 C. Cf's use Invoice 10/01/2016 12-7349 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6249 Ravi & Putnam 060 C. Cf's use Invoice 04/01/2016 12-6618 Ravi & Putnam 060 C. Cf's use Invoice 07/01/2016 12-6985 Ravi & Putnam 060 C. Cf's use Invoice 10/01/2016 12-638 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6238 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6607 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6240 Perrodin, Gloria & J A 126 C. Cf's use Invoice 04/01/2016 12-6609 Perrodin, Gloria & J A 126 C. Cf's use Invoice 04/01/2016 12-6976 Perrodin, Gloria & J A 126 C. Cf's use Invoice 07/01/2016 12-6976 Perrodin, Gloria & J A 126 C. Cf's use Invoice 07/01/2016 12-6976 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6281 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6281 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails O	Invoice	07/01/2016	12-6969	Parmelee, Mark 214	C. Cf's used
Invoice 04/01/2016 12-6607 Payne, Brian 025 C. Cf's use Invoice 07/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 10/01/2016 12-7347 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6240 Perrodin, Gloria & J A 126 C. Cf's use Invoice 04/01/2016 12-6609 Perrodin, Gloria & J A 126 C. Cf's use Invoice 07/01/2016 12-6976 Perrodin, Gloria & J A 126 C. Cf's use Invoice 10/01/2016 12-7349 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6249 Ravi & Putnam 060 C. Cf's use Invoice 04/01/2016 12-6618 Ravi & Putnam 060 C. Cf's use Invoice 07/01/2016 12-6985 Ravi & Putnam 060 C. Cf's use Invoice 10/01/2016 12-6388 Ravi & Putnam 060 C. Cf's use Invoice 01/01/2016 12-6388 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6607 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6607 Payne, Brian 025 C. Cf's use Invoice 07/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6240 Perrodin, Gloria & J A 126 C. Cf's use Invoice 04/01/2016 12-6609 Perrodin, Gloria & J A 126 C. Cf's use Invoice 07/01/2016 12-6976 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6760 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6281 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6281 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's	Invoice	10/01/2016	12-7342	Parmelee, Mark 214	C. Cf's used
Invoice	Invoice	01/01/2016	12-6238	Payne, Brian 025	C. Cf's used
Invoice	Invoice	04/01/2016	12-6607	Payne, Brian 025	C. Cf's used
Invoice	Invoice	07/01/2016	12-6974	Payne, Brian 025	C. Cf's used
Invoice	Invoice	10/01/2016	12-7347	Payne, Brian 025	C. Cf's used
Invoice	Invoice	01/01/2016	12-6240	Perrodin, Gloria & J A 126	C. Cf's used
Invoice	Invoice	04/01/2016			C. Cf's used
Invoice	Invoice	07/01/2016	12-6976	Perrodin, Gloria & J A 126	C. Cf's used
Invoice 04/01/2016 12-6618 Ravi & Putnam 060 C. Cf's use Invoice 07/01/2016 12-6985 Ravi & Putnam 060 C. Cf's use Invoice 10/01/2016 12-7358 Ravi & Putnam 060 C. Cf's use Invoice 01/01/2016 12-6238 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6607 Payne, Brian 025 C. Cf's use Invoice 07/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 10/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-7347 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6240 Perrodin, Gloria & J A 126 C. Cf's use Invoice 04/01/2016 12-6609 Perrodin, Gloria & J A 126 C. Cf's use Invoice 07/01/2016 12-6976 Perrodin, Gloria & J A 126 C. Cf's use Invoice 10/01/2016 12-7349 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6281 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6281 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Invoice Invoice Invoice Invoice Invoice Invoice Invoice Invo	Invoice	10/01/2016	12-7349	Perrodin, Gloria & J A 126	C. Cf's used
Invoice	Invoice	01/01/2016	12-6249	Ravi & Putnam 060	C. Cf's used
Invoice 10/01/2016 12-7358 Ravi & Putnam 060 C. Cf's use Invoice 01/01/2016 12-6238 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6607 Payne, Brian 025 C. Cf's use Invoice 07/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 10/01/2016 12-7347 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6240 Perrodin, Gloria & J A 126 C. Cf's use Invoice 04/01/2016 12-6609 Perrodin, Gloria & J A 126 C. Cf's use Invoice 07/01/2016 12-6976 Perrodin, Gloria & J A 126 C. Cf's use Invoice 10/01/2016 12-7349 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6281 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use	Invoice	04/01/2016	12-6618	Ravi & Putnam 060	C. Cf's used
Invoice 01/01/2016 12-6238 Payne, Brian 025 C. Cf's use Invoice 04/01/2016 12-6607 Payne, Brian 025 C. Cf's use Invoice 07/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 10/01/2016 12-7347 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6240 Perrodin, Gloria & J A 126 C. Cf's use Invoice 04/01/2016 12-6609 Perrodin, Gloria & J A 126 C. Cf's use Invoice 07/01/2016 12-6976 Perrodin, Gloria & J A 126 C. Cf's use Invoice 10/01/2016 12-7349 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6281 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use	Invoice		12-6985	Ravi & Putnam 060	C. Cf's used
Invoice 04/01/2016 12-6607 Payne, Brian 025 C. Cf's use Invoice 07/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 10/01/2016 12-7347 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6240 Perrodin, Gloria & J A 126 C. Cf's use Invoice 04/01/2016 12-6609 Perrodin, Gloria & J A 126 C. Cf's use Invoice 07/01/2016 12-6976 Perrodin, Gloria & J A 126 C. Cf's use Invoice 10/01/2016 12-7349 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6281 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use					C. Cf's used
Invoice 07/01/2016 12-6974 Payne, Brian 025 C. Cf's use Invoice 10/01/2016 12-7347 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6240 Perrodin, Gloria & J A 126 C. Cf's use Invoice 04/01/2016 12-6609 Perrodin, Gloria & J A 126 C. Cf's use Invoice 07/01/2016 12-6976 Perrodin, Gloria & J A 126 C. Cf's use Invoice 10/01/2016 12-7349 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6281 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use		01/01/2016		Payne, Brian 025	C. Cf's used
Invoice 10/01/2016 12-7347 Payne, Brian 025 C. Cf's use Invoice 01/01/2016 12-6240 Perrodin, Gloria & J A 126 C. Cf's use Invoice 04/01/2016 12-6609 Perrodin, Gloria & J A 126 C. Cf's use Invoice 07/01/2016 12-6976 Perrodin, Gloria & J A 126 C. Cf's use Invoice 10/01/2016 12-7349 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6281 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use	Invoice	04/01/2016	12-6607	Payne, Brian 025	C. Cf's used
Invoice 01/01/2016 12-6240 Perrodin, Gloria & J A 126 C. Cf's use Invoice 04/01/2016 12-6609 Perrodin, Gloria & J A 126 C. Cf's use Invoice 07/01/2016 12-6976 Perrodin, Gloria & J A 126 C. Cf's use Invoice 10/01/2016 12-7349 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6281 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use	Invoice		12-6974		C. Cf's used
Invoice 04/01/2016 12-6609 Perrodin, Gloria & J A 126 C. Cf's use Invoice 07/01/2016 12-6976 Perrodin, Gloria & J A 126 C. Cf's use Invoice 10/01/2016 12-7349 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6281 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use					C. Cf's used
Invoice 07/01/2016 12-6976 Perrodin, Gloria & J A 126 C. Cf's use Invoice 10/01/2016 12-7349 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6281 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use					C. Cf's used
Invoice 10/01/2016 12-7349 Perrodin, Gloria & J A 126 C. Cf's use Invoice 01/01/2016 12-6281 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use					C. Cf's used
Invoice 01/01/2016 12-6281 Skowhede / Trails Out 157 C. Cf's use Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use	Invoice				C. Cf's used
Invoice 04/01/2016 12-6651 Skowhede / Trails Out 157 C. Cf's use	Invoice				C. Cf's used
	Invoice	01/01/2016	12-6281	Skowhede / Trails Out 157	C. Cf's used
Invoice 07/01/2016 12-7018 Skowhede / Trails Out 157 C Cf's use					C. Cf's used
[t.] 17/01/1010 12 /010 0.000 10/00 10/00 10/00 10/00 10/00 10/00 10/00 10/00 10/00	Invoice	07/01/2016	12-7018	Skowhede / Trails Out 157	C. Cf's used

	40/04/2046	12 7202	Ic. 1 1 7 11 0 1 457	0.00
Invoice	10/01/2016	12-7392	Skowhede / Trails Out 157	C. Cf's used
Invoice	01/01/2016	12-6302	Summit Apartments 129	C. Cf's used
Invoice	04/01/2016	12-6672	Summit Apartments 129	C. Cf's used
Invoice	07/01/2016	12-7040	Summit Apartments 129	C. Cf's used
Invoice	10/01/2016	12-7414	Summit Apartments 129	C. Cf's used
Invoice	01/01/2016	12-6051	Summit Chevron 245	C. Cf's used
Invoice	04/01/2016	12-6420	Summit Chevron 245	C. Cf's used
Invoice	07/01/2016	12-6787	Summit Chevron 245	C. Cf's used
Invoice	10/01/2016	12-7158	Summit Chevron 245	C. Cf's used
Invoice	01/01/2016	12-6303	Summit LLC, House Inn 055	C. Cf's used
Invoice	04/01/2016	12-6673	Summit LLC, House Inn 055	C. Cf's used
Invoice	07/01/2016	12-7041	Summit LLC, House Inn 055	C. Cf's used
Invoice	10/01/2016	12-7415	Summit LLC, House Inn 055	C. Cf's used
Invoice	01/01/2016	12-6310	The Lodge at G.C. 338	C. Cf's used
Invoice	04/01/2016	12-6679	The Lodge at G.C. 338	C. Cf's used
Invoice	07/01/2016	12-7047	The Lodge at G.C. 338	C. Cf's used
Invoice	10/01/2016	12-7421	The Lodge at G.C. 338	C. Cf's used
Invoice	01/01/2016	12-6311	The Lodge at G.C. Office 338.1	C. Cf's used
Invoice	04/01/2016	12-6680	The Lodge at G.C. Office 338.1	C. Cf's used
Invoice	07/01/2016	12-7048	The Lodge at G.C. Office 338.1	C. Cf's used
Invoice	10/01/2016	12-7422	The Lodge at G.C. Office 338.1	C. Cf's used
Invoice	01/01/2016	12-6312	The Lodge at G.C. Store 338.2	C. Cf's used
Invoice	04/01/2016	12-6681	The Lodge at G.C. Store 338.2	C. Cf's used
Invoice	07/01/2016	12-7049	The Lodge at G.C. Store 338.2	C. Cf's used
Invoice	10/01/2016	12-7423	The Lodge at G.C. Store 338.2	C. Cf's used
Invoice	01/01/2016	12-6316	Thompson, Terry&Wendi 340	C. Cf's used
Invoice	04/01/2016	12-6685	Thompson, Terry&Wendi 340	C. Cf's used
Invoice	07/01/2016	12-7053	Thompson, Terry&Wendi 340	C. Cf's used
Invoice	10/01/2016	12-7427	Thompson, Terry&Wendi 340	C. Cf's used
Invoice	01/01/2016	12-6317	Tichy, Martin 011	C. Cf's used
Invoice	04/01/2016	12-6686	Tichy, Martin 011	C. Cf's used
Invoice	07/01/2016	12-7054	Tichy, Martin 011	C. Cf's used
Invoice	10/01/2016	12-7428	Tichy, Martin 011	C. Cf's used
Invoice	01/01/2016	12-6320	Tipi Mato LLC 326	C. Cf's used
Invoice	04/01/2016	12-6689	Tipi Mato LLC 326	C. Cf's used
Invoice	07/01/2016	12-7057	Tipi Mato LLC 326	C. Cf's used
Invoice	10/01/2016	12-7431	Tipi Mato LLC 326	C. Cf's used
Invoice	01/01/2016	12-6325	True, Sidney 003	C. Cf's used
Invoice	04/01/2016	12-6694	True, Sidney 003	C. Cf's used
Invoice	07/01/2016	12-7062	True, Sidney 003	C. Cf's used
Invoice	10/01/2016	12-7436	True, Sidney 003	C. Cf's used
Invoice	01/01/2016	12-6327	Turpack, Lynn 125	C. Cf's used
Invoice	04/01/2016	12-6696	Turpack, Lynn 125	C. Cf's used
Invoice	07/01/2016	12-7064	Turpack, Lynn 125	C. Cf's used
Invoice	10/01/2016	12-7438	Turpack, Lynn 125	C. Cf's used
Invoice	01/01/2016	12-6348	Wilcox, Calumet Rentals LLC 237	C. Cf's used
Invoice	04/01/2016	12-6348	Wilcox, Calumet Rentals LLC 237 Wilcox, Calumet Rentals LLC 237	C. Cf's used
IIIVUICE	04/01/2010	12-0/1/	vviicos, Calumet Nemais LLC 237	c. ci s use

Invoice	07/01/2016	12-7085	Wilcox, Calumet Rentals LLC 237	C. Cf's used
Invoice	10/01/2016	12-7459	Wilcox, Calumet Rentals LLC 237	C. Cf's used
Invoice	01/01/2016	12-6349	WilliamLloyd Developments, Inc. 356	C. Cf's used
Invoice	04/01/2016	12-6718	WilliamLloyd Developments, Inc. 356	C. Cf's used
Invoice	07/01/2016	12-7086	WilliamLloyd Developments, Inc. 356	C. Cf's used
Invoice	10/01/2016	12-7460	WilliamLloyd Developments, Inc. 356	C. Cf's used
Invoice	01/01/2016	12-6353	Wong, Nadine & Scott 324	C. Cf's used
Invoice	04/01/2016	12-6722	Wong, Nadine & Scott 324	C. Cf's used
Invoice	07/01/2016	12-7090	Wong, Nadine & Scott 324	C. Cf's used
Invoice	10/01/2016	12-7464	Wong, Nadine & Scott 324	C. Cf's used

Invoice	10/01/2016	12-7251	Johnson, Peter	046	C. Cf's used
Invoice	07/01/2016	12-6878	Johnson, Peter	046	CM 3/4"
Invoice	10/01/2016	12-7251	Johnson, Peter	046	CM 3/4"

Item Description	Account
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1

Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Met		
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Met	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Met	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar		461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar		
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar		
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar		
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar		
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar		
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar		
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar		
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar		
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar		
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar		
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar	Water consumption for the quarter (\$1.12/100Cf)	
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar		461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar		461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for		
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for		
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered		
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar		
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered		
Water consumption for the quarter (\$1.12/100Cf) Water consumption for the quar		
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered		
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered		
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered		
Water consumption for the quarter (\$1.12/100Cf)		
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered		
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered		
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered		461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered		461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered		
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered		
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered		
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered		
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered		
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered		
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered		
Water consumption for the quarter (\$1.12/100Cf) 461.2 · Commercial Metered		
	Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered

Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
12 12 pr 12 12 12 12 13 13 14 15 (\$\frac{1}{4} = 12 - 1 \)	

Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered

Summarized CF usage
461.2 · Commercial Metered
461.2 · Commercial Metered 461.2 · Commercial Metered

Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered
Quarterly base rate	461.2 · Commercial Metered
Quarterly base rate	461.2 · Commercial Metered

Split	Qty -CF	Debit	Credit
141 · Accounts Receivable	10,802.50		120.99
141 · Accounts Receivable	10,802.50		120.99
141 · Accounts Receivable	10,802.50		120.99
141 · Accounts Receivable	7,673.50		85.94
141 · Accounts Receivable	62.00		0.69
141 · Accounts Receivable	62.00		0.69
141 · Accounts Receivable	62.00		0.69
141 · Accounts Receivable	661.50		7.41
141 · Accounts Receivable	1,090.00		12.21
141 · Accounts Receivable	1,090.00		12.21
141 · Accounts Receivable	1,090.00		12.21
141 · Accounts Receivable	2,932.50		32.84
141 · Accounts Receivable	340.00		3.81
141 · Accounts Receivable	340.00		3.81
141 · Accounts Receivable	340.00		3.81
141 · Accounts Receivable	203.00		2.27
141 · Accounts Receivable	3,640.00		40.77
141 · Accounts Receivable	3,640.00		40.77
141 · Accounts Receivable	3,640.00		40.77
141 · Accounts Receivable	4,375.25		49.00
141 · Accounts Receivable	1,749.75		19.60
141 · Accounts Receivable	1,749.75		19.60
141 · Accounts Receivable	1,749.75		19.60
141 · Accounts Receivable	1,039.50		11.64
141 · Accounts Receivable	1,315.00		14.73
141 · Accounts Receivable	1,315.00		14.73
141 · Accounts Receivable	1,315.00		14.73
141 · Accounts Receivable	1,028.50		11.52
141 · Accounts Receivable	4,994.75		55.94
141 · Accounts Receivable	4,994.75		55.94
141 · Accounts Receivable	4,994.75		55.94
141 · Accounts Receivable	1,611.25		18.05
141 · Accounts Receivable	96,339.00		1,079.00
141 · Accounts Receivable	96,339.00		1,079.00
141 · Accounts Receivable	96,339.00		1,079.00
141 · Accounts Receivable	101,789.75		1,140.05
141 · Accounts Receivable	230.75		2.58
141 · Accounts Receivable	230.75		2.58
141 · Accounts Receivable	230.75		2.58
141 · Accounts Receivable	212.00		2.37
141 · Accounts Receivable	7,834.00		87.74
141 · Accounts Receivable	7,834.00		87.74
141 · Accounts Receivable	7,834.00		87.74
141 · Accounts Receivable	8,790.11		98.45
141 · Accounts Receivable	4,905.75		54.94

141 · Accounts Receivable	4,905.75	54.94
141 · Accounts Receivable	4,905.75	54.94
141 · Accounts Receivable	2,856.50	31.99
141 · Accounts Receivable	1,485.25	35.47
141 · Accounts Receivable	1,485.25	35.47
141 · Accounts Receivable	1,485.25	35.47
141 · Accounts Receivable	487.00	11.63
141 · Accounts Receivable	590.25	6.61
141 · Accounts Receivable	1,224.75	14.83
141 · Accounts Receivable	1,224.75	14.83
141 · Accounts Receivable	1,224.75	14.83
141 · Accounts Receivable	1,223.25	14.81
141 · Accounts Receivable	1,379.50	15.45
141 · Accounts Receivable	1,379.50	15.45
141 · Accounts Receivable	1,379.50	15.45
141 · Accounts Receivable	1,382.75	15.49
141 · Accounts Receivable	856.75	15.98
141 · Accounts Receivable	856.75	15.98
141 · Accounts Receivable	856.75	15.98
141 · Accounts Receivable	769.00	14.34
141 · Accounts Receivable	1,494.75	16.74
141 · Accounts Receivable	1,494.75	16.74
141 · Accounts Receivable	1,494.75	16.74
141 · Accounts Receivable	1,807.75	20.25
141 · Accounts Receivable	1,801.00	20.17
141 · Accounts Receivable	1,801.00	20.17
141 · Accounts Receivable	1,801.00	20.17
141 · Accounts Receivable	5,548.13	62.14
141 · Accounts Receivable	182.25	2.04
141 · Accounts Receivable	182.25	2.04
141 · Accounts Receivable	182.25	2.04
141 · Accounts Receivable	3.75	0.04
141 · Accounts Receivable	2,819.25	31.58
141 · Accounts Receivable	2,819.25	31.58
141 · Accounts Receivable	2,819.25	31.58
141 · Accounts Receivable	4,331.00	48.51
141 · Accounts Receivable	1,197.00	13.41
141 · Accounts Receivable	1,197.00	13.41
141 · Accounts Receivable	1,197.00	13.41
141 · Accounts Receivable	1,834.89	20.55
141 · Accounts Receivable	480.50	5.38
141 · Accounts Receivable	480.50	5.38
141 · Accounts Receivable	480.50	5.38
141 · Accounts Receivable	347.25	3.89
141 · Accounts Receivable	21,075.75	236.05
141 · Accounts Receivable	21,075.75	236.05
141 · Accounts Receivable	21,075.75	236.05

141 · Accounts Receivable	21,725.25	243.32
141 · Accounts Receivable	4,614.25	51.68
141 · Accounts Receivable	4,614.25	51.68
141 · Accounts Receivable	4,614.25	51.68
141 · Accounts Receivable	3,305.50	37.02
141 · Accounts Receivable	13,946.25	156.20
141 · Accounts Receivable	13,946.25	156.20
141 · Accounts Receivable	13,946.25	156.20
141 · Accounts Receivable	18,122.25	202.97
141 · Accounts Receivable	8,753.00	98.03
141 · Accounts Receivable	8,753.00	98.03
141 · Accounts Receivable	8,753.00	98.03
141 · Accounts Receivable	8,462.57	94.78
141 · Accounts Receivable	2,917.50	32.68
141 · Accounts Receivable	2,917.50	32.68
141 · Accounts Receivable	2,555.00	28.62
141 · Accounts Receivable	862.75	9.66
141 · Accounts Receivable	862.75	9.66
141 · Accounts Receivable	862.75	9.66
141 · Accounts Receivable	1,217.50	13.64
141 · Accounts Receivable	2,378.50	26.64
141 · Accounts Receivable	2,378.50	26.64
141 · Accounts Receivable	2,378.50	26.64
141 · Accounts Receivable	920.00	10.30
141 · Accounts Receivable	1,135.70	12.72
141 · Accounts Receivable	1,135.70	12.72
141 · Accounts Receivable	1,135.70	12.72
141 · Accounts Receivable	1,296.46	14.52
141 · Accounts Receivable	1,111.75	12.45
141 · Accounts Receivable	1,111.75	12.45
141 · Accounts Receivable	1,111.75	12.45
141 · Accounts Receivable	1,387.75	15.54
141 · Accounts Receivable	1,632.00	18.28
141 · Accounts Receivable	1,632.00	18.28
141 · Accounts Receivable	1,632.00	18.28
141 · Accounts Receivable	1,868.75	20.93
141 · Accounts Receivable	419.54317	83.23
141 · Accounts Receivable	408.5183	84.77
141 · Accounts Receivable	397.49342	86.31
141 · Accounts Receivable	386.46854	87.85
141 · Accounts Receivable	331.34414	95.57
141 · Accounts Receivable	320.31926	97.11
141 · Accounts Receivable	309.29438	98.65
141 · Accounts Receivable	298.2695	100.20
141 · Accounts Receivable	2,159.00	24.18
141 · Accounts Receivable	2,159.00	24.18
141 · Accounts Receivable	2,159.00	24.18

141 · Accounts Receivable	2 204 75	25.59
141 · Accounts Receivable	2,284.75 21,472.50	240.49
141 · Accounts Receivable	21,472.50	240.49
141 · Accounts Receivable	21,472.50	240.49
141 · Accounts Receivable	20,580.00	230.50
141 · Accounts Receivable	1,323.25	14.82
141 · Accounts Receivable	1,323.25	14.82
141 · Accounts Receivable	1,323.25	14.82
141 · Accounts Receivable	1,383.50	15.50
141 · Accounts Receivable	4,751.00	53.21
141 · Accounts Receivable	4,751.00	53.21
141 · Accounts Receivable	4,751.00	53.21
141 · Accounts Receivable	4,775.75	53.49
141 · Accounts Receivable	10,537.50	118.02
141 · Accounts Receivable	10,537.50	118.02
141 · Accounts Receivable	10,537.50	118.02
141 · Accounts Receivable	11,422.50	127.93
141 · Accounts Receivable	2,144.167	24.01
141 · Accounts Receivable	2,144.167	24.01
141 · Accounts Receivable	2,144.167	24.01
141 · Accounts Receivable	2,144.167	24.01
141 · Accounts Receivable	2,144.167	24.01
141 · Accounts Receivable	2,144.167	24.01
141 · Accounts Receivable	2,144.167	24.01
141 · Accounts Receivable	2,144.167	24.01
141 · Accounts Receivable 141 · Accounts Receivable	1,507.75	16.89 16.89
141 · Accounts Receivable	1,507.75 1,507.75	16.89
141 · Accounts Receivable	1,648.25	18.46
141 · Accounts Receivable	1,856.50	20.79
141 · Accounts Receivable	1,856.50	20.79
141 · Accounts Receivable	1,856.50	20.79
141 · Accounts Receivable	3,549.50	39.75
141 · Accounts Receivable	834.75	9.35
141 · Accounts Receivable	834.75	9.35
141 · Accounts Receivable	834.75	9.35
141 · Accounts Receivable	802.75	8.99
141 · Accounts Receivable	1,630.75	18.26
141 · Accounts Receivable	1,630.75	18.26
141 · Accounts Receivable	1,630.75	18.26
141 · Accounts Receivable	1,318.75	14.77
141 · Accounts Receivable	531.08	5.95
141 · Accounts Receivable	531.08	5.95
141 · Accounts Receivable	531.08	5.95
141 · Accounts Receivable	2,150.40	24.08
141 · Accounts Receivable	1,017.25	11.39
141 · Accounts Receivable	1,017.25	11.39

Difference billed/staff checker	\$797.65	
•		
Staff Checker units * \$1.12	\$11,623.93	
Per units (cf/100)	10378.51	
e for CM 3/4 inch customers	1,037,850.98670	\$12,421.58
	cf per Co.	\$\$ billed
141 · Accounts Receivable	215.50	3.58
141 · Accounts Receivable	183.75	3.06
141 · Accounts Receivable	183.75	3.06
141 · Accounts Receivable	183.75	3.06
141 · Accounts Receivable	2.25	0.03
141 · Accounts Receivable	88.75	0.99
141 · Accounts Receivable	88.75	0.99
141 · Accounts Receivable	88.75	0.99
141 · Accounts Receivable	613.25	6.87
141 · Accounts Receivable	1,017.25	11.39

141 · Accounts Receivable	590.25	6.61
141 · Accounts Receivable	2.00	95.16
141 · Accounts Receivable	2.00	95.16

Staff Check	Difference
\$120.99	\$0.00
\$120.99	\$0.00
\$120.99	\$0.00
\$85.94	\$0.00
\$0.69	\$0.00
\$0.69	\$0.00
\$0.69	\$0.00
\$7.41	\$0.00
\$12.21	\$0.00
\$12.21	\$0.00
\$12.21	\$0.00
\$32.84	\$0.00
\$3.81	\$0.00
\$3.81	\$0.00
\$3.81	\$0.00
\$2.27	\$0.00
\$40.77	\$0.00
\$40.77	\$0.00
\$40.77	\$0.00
\$49.00	\$0.00
\$19.60	\$0.00
\$19.60	\$0.00
\$19.60	\$0.00
\$11.64	\$0.00
\$14.73	\$0.00
\$14.73	\$0.00
\$14.73	\$0.00
\$11.52	\$0.00
\$55.94	\$0.00
\$55.94	\$0.00
\$55.94	\$0.00
\$18.05	\$0.00
\$1,079.00	\$0.00
\$1,079.00	\$0.00
\$1,079.00	\$0.00
\$1,140.05	\$0.00
\$2.58	\$0.00
\$2.58	\$0.00
\$2.58	\$0.00
	-
\$2.37	\$0.00
\$87.74	\$0.00
\$87.74	\$0.00
\$87.74	\$0.00
\$98.45	\$0.00
\$54.94	\$0.00

??? ??? ???

\$54.94	\$0.00
\$54.94	\$0.00
\$31.99	\$0.00
\$16.63	-\$18.84
\$16.63	-\$18.84
\$16.63	-\$18.84
\$5.45	-\$6.18
\$6.61	\$0.00
\$13.72	-\$1.11
\$13.72	-\$1.11
\$13.72	-\$1.11
\$13.70	-\$1.11
\$15.45	\$0.00
\$15.45	\$0.00
\$15.45	\$0.00
\$15.49	\$0.00
\$9.60	-\$6.38
\$9.60	-\$6.38
\$9.60	-\$6.38
\$8.61	-\$5.73
\$16.74	\$0.00
\$16.74	\$0.00
\$16.74	\$0.00
\$20.25	\$0.00
\$20.17	\$0.00
\$20.17	\$0.00
\$20.17	\$0.00
\$62.14	\$0.00
\$2.04	\$0.00
\$2.04	\$0.00
\$2.04	\$0.00
\$0.04	\$0.00
\$31.58	\$0.00
\$31.58	\$0.00
\$31.58	\$0.00
\$48.51	\$0.00
\$13.41	\$0.00
\$13.41	\$0.00
\$13.41	\$0.00
\$20.55	\$0.00
\$5.38	\$0.00
\$5.38	\$0.00
\$5.38	\$0.00
\$3.89	\$0.00
\$236.05	\$0.00
\$236.05	\$0.00
\$236.05	\$0.00

\$243.32	\$0.00
\$51.68	\$0.00
\$51.68	\$0.00
\$51.68	\$0.00
\$37.02	\$0.00
•	\$0.00
\$156.20	
\$156.20	\$0.00
\$156.20	\$0.00
\$202.97	\$0.00
\$98.03	\$0.00
\$98.03	\$0.00
\$98.03	\$0.00
\$94.78	\$0.00
\$32.68	\$0.00
\$32.68	\$0.00
\$28.62	\$0.00
	-
\$9.66	\$0.00
\$9.66	\$0.00
\$9.66	\$0.00
\$13.64	\$0.00
\$26.64	\$0.00
\$26.64	\$0.00
\$26.64	\$0.00
\$10.30	\$0.00
\$12.72	\$0.00
\$12.72	\$0.00
\$12.72	\$0.00
\$14.52	\$0.00
\$12.45	\$0.00
•	-
\$12.45	\$0.00
\$12.45	\$0.00
\$15.54	\$0.00
\$18.28	\$0.00
\$18.28	\$0.00
\$18.28	\$0.00
\$20.93	\$0.00
\$4.70	-\$78.53
\$4.58	-\$80.19
\$4.45	-\$21.26
\$4.73	\$02.50
\$4.55	- -
\$3.71	-\$91.86
\$3.59	-\$93.52
\$3.46	-\$95.19
\$3.34	-\$96.86
\$24.18	\$0.00
\$24.18	\$0.00
\$24.18	\$0.00

\$240.49 \$0.00 \$240.49 \$0.00 \$240.49 \$0.00 \$230.50 \$0.00 \$14.82 \$0.00 \$14.82 \$0.00 \$14.82 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00		
\$240.49 \$0.00 \$240.49 \$0.00 \$230.50 \$0.00 \$14.82 \$0.00 \$14.82 \$0.00 \$14.82 \$0.00 \$15.50 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.49 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$127.93 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$20.79 \$0.00 \$20.70 \$0.00	\$25.59	\$0.00
\$240.49 \$0.00 \$230.50 \$0.00 \$14.82 \$0.00 \$14.82 \$0.00 \$14.82 \$0.00 \$15.50 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.49 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$418.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$518.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$50.00	\$240.49	\$0.00
\$230.50 \$0.00 \$14.82 \$0.00 \$14.82 \$0.00 \$14.82 \$0.00 \$15.50 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.49 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$127.93 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$59.35 \$0.00 \$50.00	\$240.49	\$0.00
\$14.82 \$0.00 \$14.82 \$0.00 \$14.82 \$0.00 \$15.50 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.49 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$127.93 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.70 \$0.00 \$20.70 \$0.00 \$20.70 \$0.00 \$20.70 \$0.00	\$240.49	\$0.00
\$14.82 \$0.00 \$14.82 \$0.00 \$14.82 \$0.00 \$15.50 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.49 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$127.93 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$18.26 \$0.00	\$230.50	\$0.00
\$14.82 \$0.00 \$14.82 \$0.00 \$15.50 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.49 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$127.93 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.35 \$0.00 \$18.26 \$0.00	\$14.82	-
\$14.82 \$0.00 \$15.50 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.49 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$127.93 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.35 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$14.77 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00		
\$15.50 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.49 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$127.93 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.35 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$5.95 \$0.00 \$55.95 \$0.00 \$24.08 \$0.00		
\$53.21 \$0.00 \$53.21 \$0.00 \$53.21 \$0.00 \$53.49 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$127.93 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$5.95 \$0.00 \$55.95 \$0.00 \$55.95 \$0.00 \$24.08 \$0.00	•	
\$53.21 \$0.00 \$53.49 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$127.93 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00		
\$53.21 \$0.00 \$53.49 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$127.93 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.80 \$0.00	•	•
\$53.49 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$127.93 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00	•	
\$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$118.02 \$0.00 \$127.93 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00		-
\$118.02 \$0.00 \$118.02 \$0.00 \$127.93 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$18.26 \$0.00		
\$118.02 \$0.00 \$127.93 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$14.77 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00	\$118.02	-
\$127.93 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00	\$118.02	\$0.00
\$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00	\$118.02	\$0.00
\$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00	\$127.93	\$0.00
\$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$29.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00	\$24.01	\$0.00
\$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00	\$24.01	\$0.00
\$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$518.26 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00	\$24.01	\$0.00
\$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$518.26 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00	\$24.01	
\$24.01 \$0.00 \$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$24.08 \$0.00		
\$24.01 \$0.00 \$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$24.08 \$0.00	-	
\$24.01 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$24.08 \$0.00	•	
\$16.89 \$0.00 \$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$29.75 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$14.77 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$11.39 \$0.00	•	
\$16.89 \$0.00 \$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$14.77 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$24.08 \$0.00		
\$16.89 \$0.00 \$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00		
\$18.46 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$24.08 \$0.00	-	
\$20.79 \$0.00 \$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$18.26 \$0.00		
\$20.79 \$0.00 \$20.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$8.99 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$14.77 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$24.08 \$0.00		
\$20.79 \$0.00 \$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$8.99 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$14.77 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$24.08 \$0.00	\$20.79	
\$39.75 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$8.99 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$15.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$24.08 \$0.00		
\$9.35 \$0.00 \$9.35 \$0.00 \$9.35 \$0.00 \$8.99 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$14.77 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$13.95 \$0.00		
\$9.35 \$0.00 \$9.35 \$0.00 \$8.99 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$14.77 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$14.00 \$0.00	\$39.75	\$0.00
\$9.35 \$0.00 \$8.99 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$14.77 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$13.95 \$0.00	\$9.35	\$0.00
\$9.35 \$0.00 \$8.99 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$14.77 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$13.95 \$0.00	\$9.35	\$0.00
\$8.99 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$14.77 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$14.77 \$0.00		\$0.00
\$18.26 \$0.00 \$18.26 \$0.00 \$18.26 \$0.00 \$14.77 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$14.78 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00		\$0.00
\$18.26 \$0.00 \$18.26 \$0.00 \$14.77 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$11.39 \$0.00		
\$18.26 \$0.00 \$14.77 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$24.08 \$0.00 \$11.39 \$0.00		
\$14.77 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$24.08 \$0.00 \$11.39 \$0.00	-	
\$5.95 \$0.00 \$5.95 \$0.00 \$5.95 \$0.00 \$24.08 \$0.00 \$11.39 \$0.00		
\$5.95 \$0.00 \$5.95 \$0.00 \$24.08 \$0.00 \$11.39 \$0.00		
\$5.95 \$0.00 \$24.08 \$0.00 \$11.39 \$0.00		
\$24.08 \$0.00 \$11.39 \$0.00		
\$11.39 \$0.00		
	-	
\$11.39 \$0.00	-	-
	\$11.39	\$0.00

\$11.39	\$0.00
\$6.87	\$0.00
\$0.99	\$0.00
\$0.99	\$0.00
\$0.99	\$0.00
\$0.03	\$0.00
\$2.06	-\$1.00
\$2.06	-\$1.00
\$2.06	-\$1.00
\$2.41	-\$1.17
\$11,623.93	-\$797.65

two base, one consumption two base, one consumption two base, one consumption

Туре	Date	Num	Name	Item
Invoice	01/01/2016	12-5995	Abdie, Jerry&Colette 152	C. Cf's used
Invoice	04/01/2016	12-6363	Abdie, Jerry&Colette 152	C. Cf's used
Invoice	07/01/2016	12-6730	Abdie, Jerry&Colette 152	C. Cf's used
Invoice	10/01/2016	12-7100	Abdie, Jerry&Colette 152	C. Cf's used
Invoice	01/01/2016	12-6004	ASB 50 Ventures/Berke 302	C. Cf's used
Invoice	04/01/2016	12-6372	ASB 50 Ventures/Berke 302	C. Cf's used
Invoice	07/01/2016	12-6739	ASB 50 Ventures/Berke 302	C. Cf's used
Invoice	10/01/2016	12-7109	ASB 50 Ventures/Berke 302	C. Cf's used
Invoice	01/01/2016	12-6061	Deane, Kristin 040	C. Cf's used
Invoice	04/01/2016	12-6430	Deane, Kristin 040	C. Cf's used
Invoice	07/01/2016	12-6797	Deane, Kristin 040	C. Cf's used
Invoice	10/01/2016	12-7168	Deane, Kristin 040	C. Cf's used
Invoice	01/01/2016	12-6142	Jondahl, Terry 036	C. Cf's used
Invoice	04/01/2016	12-6512	Jondahl, Terry 036	C. Cf's used
Invoice	07/01/2016	12-6879	Jondahl, Terry 036	C. Cf's used
Invoice	10/01/2016	12-7252	Jondahl, Terry 036	C. Cf's used
Invoice	01/01/2016	12-6157	Kropacek, Dasha&Slava 059	C. Cf's used
Invoice	04/01/2016	12-6526	Kropacek, Dasha&Slava 059	C. Cf's used
Invoice	07/01/2016	12-6893	Kropacek, Dasha&Slava 059	C. Cf's used
Invoice	10/01/2016	12-7266	Kropacek, Dasha&Slava 059	C. Cf's used
Invoice	01/01/2016	12-6177	Lynott/Parson 307.1	C. Cf's used
Invoice	04/01/2016	12-6546	Lynott/Parson 307.1	C. Cf's used
Invoice	07/01/2016	12-6913	Lynott/Parson 307.1	C. Cf's used
Invoice	10/01/2016	12-7286	Lynott/Parson 307.1	C. Cf's used
Invoice	01/01/2016	12-6182	Mazama Lodge 164	C. Cf's used
Invoice	04/01/2016	12-6551	Mazama Lodge 164	C. Cf's used
Invoice	07/01/2016		Mazama Lodge 164	C. Cf's used
Invoice	10/01/2016	12-7291	Mazama Lodge 164	C. Cf's used
Invoice	01/01/2016		Mt Hd LLC II/Pool & Clb Hse 347.1	C. Cf's used
Invoice	04/01/2016		Mt Hd LLC II/Pool & Clb Hse 347.1	C. Cf's used
Invoice	07/01/2016	12-6938	Mt Hd LLC II/Pool & Clb Hse 347.1	C. Cf's used
Invoice	10/01/2016	12-7311	Mt Hd LLC II/Pool & Clb Hse 347.1	C. Cf's used
Invoice	10/01/2016	12-7318	Mt Hood Ski Patrol 057	C. Cf's used
Invoice	01/01/2016	12-6248	<u> </u>	C. Cf's used
Invoice	04/01/2016	12-6617	<u> </u>	C. Cf's used
Invoice	07/01/2016	12-6984	U ·	C. Cf's used
Invoice	10/01/2016	12-7357		C. Cf's used
Invoice	01/01/2016	12-6225	·	C. Cf's used
Invoice	04/01/2016	12-6594	·	C. Cf's used
Invoice	07/01/2016	12-6961		C. Cf's used
Invoice	10/01/2016	12-7334	·	C. Cf's used
Invoice	01/01/2016		Patterson, Lowell & Bev 175	C. Cf's used
Invoice	04/01/2016	12-6606		C. Cf's used
Invoice	07/01/2016	12-6973		C. Cf's used
Invoice	10/01/2016	12-7346	Patterson, Lowell & Bev 175	C. Cf's used

Invoice	01/01/2016	12-6182	Mazama Lodge 164	C. Cf's used
Invoice	04/01/2016	12-6551	Mazama Lodge 164	C. Cf's used
Invoice	07/01/2016	12-6918	Mazama Lodge 164	C. Cf's used
Invoice	10/01/2016	12-7291	Mazama Lodge 164	C. Cf's used
Invoice	01/01/2016	12-6182	Mazama Lodge 164	CM 1"
Invoice	04/01/2016	12-6551	Mazama Lodge 164	CM 1"
Invoice	07/01/2016	12-6918	Mazama Lodge 164	CM 1"
Invoice	10/01/2016	12-7291	Mazama Lodge 164	CM 1"
Invoice	01/01/2016	12-6202	Mt Hd LLC II/Pool & Clb Hse 347.1	C. Cf's used
Invoice	04/01/2016	12-6571	Mt Hd LLC II/Pool & Clb Hse 347.1	C. Cf's used
Invoice	07/01/2016	12-6938	Mt Hd LLC II/Pool & Clb Hse 347.1	C. Cf's used
Invoice	10/01/2016	12-7311	Mt Hd LLC II/Pool & Clb Hse 347.1	C. Cf's used
Invoice	01/01/2016	12-6202	Mt Hd LLC II/Pool & Clb Hse 347.1	CM 1"
Invoice	04/01/2016	12-6571	Mt Hd LLC II/Pool & Clb Hse 347.1	CM 1"
Invoice	07/01/2016	12-6938	Mt Hd LLC II/Pool & Clb Hse 347.1	CM 1"
Invoice	10/01/2016	12-7311	Mt Hd LLC II/Pool & Clb Hse 347.1	CM 1"
Invoice	10/01/2016	12-7318	Mt Hood Ski Patrol 057	C. Cf's used
Invoice	10/01/2016	12-7318	Mt Hood Ski Patrol 057	CM 1"

Account	Split
0461.2 · Commercial Metered	141 · Accounts Receiv
0461.2 · Commercial Metered	141 · Accounts Receiv
0461.2 · Commercial Metered	141 · Accounts Receiv
0461.2 · Commercial Metered	141 · Accounts Receiv
0461.2 · Commercial Metered	141 · Accounts Receiv
0461.2 · Commercial Metered	141 · Accounts Receiv
0461.2 · Commercial Metered	141 · Accounts Receiv
0461.2 · Commercial Metered	141 · Accounts Receiv
0461.2 · Commercial Metered	141 · Accounts Receiv
0461.2 · Commercial Metered	141 · Accounts Receiv
0461.2 · Commercial Metered	141 · Accounts Receiv
0461.2 · Commercial Metered	141 · Accounts Receiv
0461.2 · Commercial Metered	141 · Accounts Receiv
0461.2 · Commercial Metered	141 · Accounts Receiv
0461.2 · Commercial Metered	141 · Accounts Receiv
0461.2 · Commercial Metered	141 · Accounts Receiv
0461.2 · Commercial Metered	141 · Accounts Receiv
0461.2 · Commercial Metered	141 · Accounts Receiv
0461.2 · Commercial Metered	141 · Accounts Receiv
	Account OC 461.2 · Commercial Metered

Water consumption for the quarter (\$1.12/100461.2 · Commercial Metered 141 · Accounts Receiv Water consumption for the quarter (\$1.12/100461.2 · Commercial Metered 141 · Accounts Receive Water consumption for the quarter (\$1.12/10 461.2 · Commercial Metere 141 · Accounts Receiv Water consumption for the quarter (\$1.12/100461.2 · Commercial Metere 141 · Accounts Receiv Water consumption for the quarter (\$1.12/10 461.2 · Commercial Metere 141 · Accounts Receiv Water consumption for the quarter (\$1.12/100461.2 · Commercial Metere 141 · Accounts Receiv Water consumption for the quarter (\$1.12/10Q461.2 · Commercial Metere 141 · Accounts Receiv Water consumption for the quarter (\$1.12/100461.2 · Commercial Metered 141 · Accounts Receive Water consumption for the quarter (\$1.12/100461.2 · Commercial Metered 141 · Accounts Receive Water consumption for the quarter (\$1.12/10Q461.2 · Commercial Metere 141 · Accounts Receiv Water consumption for the quarter (\$1.12/10 461.2 · Commercial Metere 141 · Accounts Receiv Water consumption for the quarter (\$1.12/100461.2 · Commercial Metered 141 · Accounts Receive Water consumption for the quarter ($\$1.12/100461.2\cdot$ Commercial Metere $4141\cdot$ Accounts Receiv. Water consumption for the quarter (\$1.12/100461.2 · Commercial Metere 141 · Accounts Receiv Water consumption for the quarter (\$1.12/10 461.2 · Commercial Metere 141 · Accounts Receiv Water consumption for the quarter (\$1.12/100461.2 · Commercial Metered 141 · Accounts Receive Water consumption for the quarter (\$1.12/10Q461.2 · Commercial Metere 141 · Accounts Receiv Water consumption for the quarter (\$1.12/10Q461.2 · Commercial Metere 141 · Accounts Receiv Water consumption for the quarter (\$1.12/10 461.2 · Commercial Metere 141 · Accounts Receiv Water consumption for the quarter (\$1.12/100461.2 · Commercial Metered 141 · Accounts Receive Water consumption for the quarter ($\$1.12/100461.2\cdot$ Commercial Metere $\P141\cdot$ Accounts Receiv. Water consumption for the quarter (\$1.12/10 461.2 · Commercial Metere 141 · Accounts Receiv Water consumption for the quarter (\$1.12/10Q461.2 · Commercial Metere 141 · Accounts Receiv Water consumption for the quarter (\$1.12/100461.2 · Commercial Metered 141 · Accounts Receive Water consumption for the quarter (\$1.12/10Q461.2 · Commercial Metere 141 · Accounts Receiv Water consumption for the quarter (\$1.12/100461.2 · Commercial Metere 141 · Accounts Receiv

Summarized CF usage for CM 1	Linch customers	
	Per units (cf/100)	
	Staff Checker units * 5	\$1.12
	Difference billed/staf	f checker

Water consumption for the quarter (\$1.12/100	461.2 · Commercial Metere 141 · Accounts Receiv
Water consumption for the quarter (\$1.12/100	461.2 · Commercial Metere 141 · Accounts Receiv
Water consumption for the quarter (\$1.12/100	461.2 · Commercial Metere 141 · Accounts Receiv
Water consumption for the quarter (\$1.12/100	461.2 · Commercial Metere 141 · Accounts Receiv
Quarterly base rate	461.2 · Commercial Metere 141 · Accounts Receiv
Quarterly base rate	461.2 · Commercial Metere 141 · Accounts Receiv
Quarterly base rate	461.2 · Commercial Metere 141 · Accounts Receiv
Quarterly base rate	461.2 · Commercial Metere 141 · Accounts Receiv
Water consumption for the quarter (\$1.12/100	461.2 · Commercial Metere 141 · Accounts Receiv
Water consumption for the quarter (\$1.12/100	461.2 · Commercial Metere 141 · Accounts Receiv
Water consumption for the quarter (\$1.12/100	461.2 · Commercial Metere 141 · Accounts Receiv
Water consumption for the quarter (\$1.12/100	461.2 · Commercial Metere 141 · Accounts Receiv
Quarterly base rate	461.2 · Commercial Metere 141 · Accounts Receiv
Quarterly base rate	461.2 · Commercial Metere 141 · Accounts Receiv
Quarterly base rate	461.2 · Commercial Metere 141 · Accounts Receiv
Quarterly base rate	461.2 · Commercial Metere 141 · Accounts Receiv
Water consumption for the quarter (\$1.12/100	461.2 · Commercial Metere 141 · Accounts Receiv
Quarterly base rate	461.2 · Commercial Metere 141 · Accounts Receiv

446.75 5.00 375.50 4.21 1,117.50 12.52 1,117.50 12.52 1,117.50 12.52 1,117.50 12.52 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 10.26 956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 6,100.00 68.32 4,614.25 51.68 </th <th>Qty -CF</th> <th>Debit</th> <th>Credit</th>	Qty -CF	Debit	Credit
446.75 5.00 375.50 4.21 1,117.50 12.52 1,117.50 12.52 1,117.50 12.52 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,161.99 13.01 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,278.08 14.26 1,610.99 13.01 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78	446.75		5.00
375.50 4.21 1,117.50 12.52 1,117.50 12.52 1,117.50 12.52 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,161.99 13.01 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,610.99 13.01 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 <tr< td=""><td>446.75</td><td></td><td>5.00</td></tr<>	446.75		5.00
1,117.50 12.52 1,117.50 12.52 1,117.50 12.52 183.25 2.05 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,161.99 13.01 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,161.99 13.01 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,594.75 40.26 956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,793.08 14	446.75		5.00
1,117.50 12.52 1,117.50 12.52 183.25 2.05 1,273.08 14.26 1,273.08 14.26 1,161.99 13.01 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,161.99 13.01 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,594.75 40.26 956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,794.00 46	375.50		4.21
1,117.50 12.52 183.25 2.05 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,161.99 13.01 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,161.99 13.01 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,594.75 40.26 956.00 10.71 956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 <td>1,117.50</td> <td></td> <td>12.52</td>	1,117.50		12.52
183.25 2.05 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,161.99 13.01 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,161.99 13.01 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,594.75 40.26 956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94	1,117.50		12.52
1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,161.99 13.01 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,161.99 13.01 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,594.75 40.26 956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 <	1,117.50		12.52
1,273.08 14.26 1,273.08 14.26 1,161.99 13.01 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,161.99 13.01 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,594.75 40.26 956.00 10.71 956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26	183.25		
1,273.08 14.26 1,161.99 13.01 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,161.99 13.01 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,594.75 40.26 956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,794.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26			14.26
1,161.99 13.01 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26 1,161.99 13.01 3,819.25 42.78 3,819.25 42.78 3,594.75 40.26 956.00 10.71 956.00 10.71 956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26	1,273.08		14.26
1,273.08 14.26 1,273.08 14.26 1,161.99 13.01 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,594.75 40.26 956.00 10.71 956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	1,273.08		14.26
1,273.08 14.26 1,273.08 14.26 1,161.99 13.01 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,594.75 40.26 956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	1,161.99		13.01
1,273.08 14.26 1,161.99 13.01 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,594.75 40.26 956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	1,273.08		14.26
1,161.99 13.01 3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,594.75 40.26 956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26	1,273.08		14.26
3,819.25 42.78 3,819.25 42.78 3,819.25 42.78 3,594.75 40.26 956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26	1,273.08		14.26
3,819.25 42.78 3,819.25 42.78 3,594.75 40.26 956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,794.00 46.94 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	1,161.99		13.01
3,819.25 42.78 3,594.75 40.26 956.00 10.71 956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	3,819.25		42.78
3,594.75 40.26 956.00 10.71 956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,794.00 46.94 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	3,819.25		42.78
956.00 10.71 956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	3,819.25		42.78
956.00 10.71 956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	3,594.75		40.26
956.00 10.71 1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	956.00		10.71
1,259.75 14.11 6,100.00 68.32 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	956.00		10.71
6,100.00 68.32 6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26			10.71
6,100.00 68.32 6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	1,259.75		14.11
6,100.00 68.32 7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	6,100.00		68.32
7,676.00 85.97 4,614.25 51.68 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	6,100.00		68.32
4,614.25 51.68 4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26			68.32
4,614.25 51.68 4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	7,676.00		
4,614.25 51.68 3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	4,614.25		51.68
3,305.50 37.02 9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26			51.68
9,347.50 104.69 13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26			51.68
13,794.00 154.49 13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	3,305.50		37.02
13,794.00 154.49 13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	9,347.50		104.69
13,794.00 154.49 13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	· · · · · · · · · · · · · · · · · · ·		154.49
13,988.75 156.67 4,191.00 46.94 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26			154.49
4,191.00 46.94 4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	13,794.00		154.49
4,191.00 46.94 4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	· · · · · · · · · · · · · · · · · · ·		
4,191.00 46.94 4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	4,191.00		46.94
4,889.71 54.76 1,273.08 14.26 1,273.08 14.26 1,273.08 14.26	· · · · · · · · · · · · · · · · · · ·		46.94
1,273.08 14.26 1,273.08 14.26 1,273.08 14.26			
1,273.08 14.26 1,273.08 14.26			54.76
1,273.08 14.26	1,273.08		14.26
			14.26
1,161.99 13.01			14.26
-	1,161.99		13.01

Staff Check	Difference
\$5.00	\$0.00
\$5.00	\$0.00
\$5.00	\$0.00
\$4.21	\$0.00
\$12.52	\$0.00
\$12.52	\$0.00
\$12.52	\$0.00
\$2.05	\$0.00
\$14.26	\$0.00
\$14.26	\$0.00
\$14.26	\$0.00
\$13.01	\$0.00
\$14.26	\$0.00
\$14.26	\$0.00
\$14.26	\$0.00
\$13.01	\$0.00
\$42.78	\$0.00
\$42.78	\$0.00
\$42.78	\$0.00
\$40.26	\$0.00
\$10.71	\$0.00
\$10.71	\$0.00
\$10.71	\$0.00
\$14.11	\$0.00
\$68.32	\$0.00
\$68.32	\$0.00
\$68.32	\$0.00
\$85.97	\$0.00
\$51.68	\$0.00
\$51.68	\$0.00
\$51.68	\$0.00
\$37.02	\$0.00
\$104.69	\$0.00
\$154.49	\$0.00
\$154.49	\$0.00
\$154.49	\$0.00
\$156.67	\$0.00
\$46.94	\$0.00
\$46.94	\$0.00
\$46.94	\$0.00
\$54.76	\$0.00
\$14.26	\$0.00
\$14.26	\$0.00
\$14.26	\$0.00
\$14.26	\$0.00
\$13.UI	Ş0.00

cf per Co 164,680.65 1647 \$1,844.42 \$0.01

\$\$ Billed	Total	\$1,844.42	-\$0.01
\$1,844.43			

		_
6,100.00	68.32	consumption seems low
6,100.00	68.32	consumption seems low
6,100.00	68.32	consumption seems low
7,676.00	85.97	consumption seems low
1.00	59.46	consumption seems low
1.00	59.46	consumption seems low
1.00	59.46	consumption seems low
1.00	59.46	consumption seems low
4,614.25	51.68	consumption seems low
4,614.25	51.68	consumption seems low
4,614.25	51.68	consumption seems low
3,305.50	37.02	consumption seems low
2.00	118.92	consumption seems low
2.00	118.92	consumption seems low
2.00	118.92	consumption seems low
2.00	118.92	consumption seems low
9,347.50	104.69	why only one quarter
1.00	59.46	why only one quarter

Type	Date	Num	Name	Item
Invoice	01/01/2016	12-6054	Collins Lake Pool & Clubhouse 311.2	C. Cf's used
Invoice	04/01/2016	12-6423	Collins Lake Pool & Clubhouse 311.2	C. Cf's used
Invoice	07/01/2016	12-6790	Collins Lake Pool & Clubhouse 311.2	C. Cf's used
Invoice	10/01/2016	12-7161	Collins Lake Pool & Clubhouse 311.2	C. Cf's used
Invoice	01/01/2016	12-6206	Mt Hood Museum 306	C. Cf's used
Invoice	04/01/2016	12-6575	Mt Hood Museum 306	C. Cf's used
Invoice	07/01/2016	12-6942	Mt Hood Museum 306	C. Cf's used
Invoice	10/01/2016	12-7315	Mt Hood Museum 306	C. Cf's used
Invoice	01/01/2016	12-6207	Mt Hood Resort Lodging 250	C. Cf's used
Invoice	04/01/2016	12-6576	Mt Hood Resort Lodging 250	C. Cf's used
Invoice	07/01/2016	12-6943	Mt Hood Resort Lodging 250	C. Cf's used
Invoice	10/01/2016	12-7316	Mt Hood Resort Lodging 250	C. Cf's used

Item Description	Account	Split
Water consumption for the quarter (\$1.12	461.2 · Commercial Metered	141 · Accounts Receiv
Water consumption for the quarter (\$1.12	461.2 · Commercial Metered	141 · Accounts Receiv
Water consumption for the quarter (\$1.12	461.2 · Commercial Metered	141 · Accounts Receiv
Water consumption for the quarter (\$1.12	461.2 · Commercial Metered	141 · Accounts Receiv
Water consumption for the quarter (\$1.12	461.2 · Commercial Metered	141 · Accounts Receiv
Water consumption for the quarter (\$1.12	461.2 · Commercial Metered	141 · Accounts Receiv
Water consumption for the quarter (\$1.12	461.2 · Commercial Metered	141 · Accounts Receiv
Water consumption for the quarter (\$1.12	461.2 · Commercial Metered	141 · Accounts Receiv
Water consumption for the quarter (\$1.12	461.2 · Commercial Metered	141 · Accounts Receiv
Water consumption for the quarter (\$1.12	461.2 · Commercial Metered	141 · Accounts Receiv
Water consumption for the quarter (\$1.12	461.2 · Commercial Metered	141 · Accounts Receiv
Water consumption for the quarter (\$1.12	461.2 · Commercial Metered	141 · Accounts Receiv
Summarized CF usage for C	M 1.5 inch customers	
	Per units (cf/100)	
	Staff Checker units * \$1.12	
	Difference billed/staff checker	

Qty - CF	Debit	Credit	nce
6,850.00		76.72	
6,850.00		76.72	
6,850.00		76.72	
11,327.50		126.87	
2,100.00		23.52	
2,100.00		23.52	
2,100.00		23.52	
2,298.25		25.74	
2,767.50		31.00	
2,767.50		31.00	
2,767.50		31.00	
2,620.00		29.34	
cf per Co		Total Billed	
51,398.25		575.67	
514			
\$575.66			

\$0.01

Staff Checker	Difference
\$76.72	\$0.00
\$76.72	\$0.00
\$76.72	\$0.00
\$126.87	\$0.00
\$23.52	\$0.00
\$23.52	\$0.00
\$23.52	\$0.00
\$25.74	\$0.00
\$31.00	\$0.00
\$31.00	\$0.00
\$31.00	\$0.00
\$29.34	\$0.00
\$575.66	-\$0.01

Туре	Date	Num	Name	Item
Invoice	01/01/2016	12-6023	Boy Scouts of America 008	C. Cf's used
Invoice	04/01/2016	12-6391	Boy Scouts of America 008	C. Cf's used
Invoice	07/01/2016	12-6758	Boy Scouts of America 008	C. Cf's used
Invoice	10/01/2016	12-7129	Boy Scouts of America 008	C. Cf's used
Invoice	01/01/2016	12-6042	Cascade Ski Club 010 metered	C. Cf's used
Invoice	04/01/2016	12-6411	Cascade Ski Club 010 metered	C. Cf's used
Invoice	07/01/2016	12-6778	Cascade Ski Club 010 metered	C. Cf's used
Invoice	10/01/2016	12-7149	Cascade Ski Club 010 metered	C. Cf's used
Invoice	01/01/2016	12-6133	Huckelberry / Restaurant 098	C. Cf's used
Invoice	04/01/2016	12-6501	Huckelberry / Restaurant 098	C. Cf's used
Invoice	07/01/2016	12-6868	Huckelberry / Restaurant 098	C. Cf's used
Invoice	10/01/2016	12-7241	Huckelberry / Restaurant 098	C. Cf's used
Invoice	01/01/2016	12-6204	Mt Hood Academy 183	C. Cf's used
Invoice	04/01/2016	12-6573	Mt Hood Academy 183	C. Cf's used
Invoice	07/01/2016	12-6940	Mt Hood Academy 183	C. Cf's used
Invoice	10/01/2016	12-7313	Mt Hood Academy 183	C. Cf's used
Invoice	01/01/2016	12-6205	Mt Hood Holding 086	C. Cf's used
Invoice	04/01/2016	12-6574	Mt Hood Holding 086	C. Cf's used
Invoice	07/01/2016	12-6941	Mt Hood Holding 086	C. Cf's used
Invoice	10/01/2016	12-7314	Mt Hood Holding 086	C. Cf's used
Invoice	01/01/2016	12-6210	Multorpor Lodge 363	C. Cf's used
Invoice	04/01/2016	12-6579	Multorpor Lodge 363	C. Cf's used
Invoice	07/01/2016	12-6946	Multorpor Lodge 363	C. Cf's used
Invoice	10/01/2016	12-7319	Multorpor Lodge 363	C. Cf's used
Invoice	01/01/2016	12-6227	Oregon Travel Exp. 035	C. Cf's used
Invoice	04/01/2016	12-6596	Oregon Travel Exp. 035	C. Cf's used
Invoice	07/01/2016	12-6963	Oregon Travel Exp. 035	C. Cf's used
Invoice	10/01/2016	12-7336	Oregon Travel Exp. 035	C. Cf's used
Invoice	01/01/2016	12-6230	Palmer Lodge 037	C. Cf's used
Invoice	04/01/2016	12-6598	Palmer Lodge 037	C. Cf's used
Invoice	07/01/2016	12-6965	Palmer Lodge 037	C. Cf's used
Invoice	10/01/2016	12-7338	Palmer Lodge 037	C. Cf's used
Invoice	01/01/2016	12-6323	Trails Club 056	C. Cf's used
Invoice	04/01/2016	12-6692	Trails Club 056	C. Cf's used
Invoice	07/01/2016	12-7060	Trails Club 056	C. Cf's used
Invoice	10/01/2016	12-7434	Trails Club 056	C. Cf's used

Invoice	01/01/2016	12-6306	Summit Ski Area	367.1	MH 2"
Invoice	04/01/2016	12-6676	Summit Ski Area	367.1	MH 2"
Invoice	07/01/2016	12-7044	Summit Ski Area	367.1	MH 2"
Invoice	10/01/2016	12-7418	Summit Ski Area	367.1	MH 2"

Item Description

Account

Ttem Bescription	Account	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
Water consumption for the quarter (\$1.12/100Cf)	461.2 · Commercial Metered	
(4===,===,		
6		
Summarized CF usage for CM 2 in	ncn customers	
	Per units (cf/100)	
	Staff Checker units * \$1.	
	Difference billed/staff ch	
	Difference billed/staff to	

Quarterly base rate	461.2 · Commercial Metered
Quarterly base rate	461.2 · Commercial Metered
Quarterly base rate	461.2 · Commercial Metered
Quarterly base rate	461.2 · Commercial Metered

Split	Qty - CF	Debit	Credit		Staff Checker
141 · Accounts Receivable	1,255.00		14.06		\$14.06
141 · Accounts Receivable	1,255.00		14.06		\$14.06
141 · Accounts Receivable	1,255.00		14.06		\$14.06
141 · Accounts Receivable	1,492.50		16.72		\$16.72
141 · Accounts Receivable	3,181.82		35.64		\$35.64
141 · Accounts Receivable	3,181.82		35.64		\$35.64
141 · Accounts Receivable	3,181.82		35.64		\$35.64
141 · Accounts Receivable	4,241.31		47.50		\$47.50
141 · Accounts Receivable	29,532.50		330.76		\$330.76
141 · Accounts Receivable	29,532.50		330.76		\$330.76
141 · Accounts Receivable	29,532.50		330.76		\$330.76
141 · Accounts Receivable	28,240.00		316.29		\$316.29
141 · Accounts Receivable	2,256.00		25.27		\$25.27
141 · Accounts Receivable	2,256.00		25.27		\$25.27
141 · Accounts Receivable	2,256.00		25.27		\$25.27
141 · Accounts Receivable	1,808.16		20.25		\$20.25
141 · Accounts Receivable	5,702.50		63.87		\$63.87
141 · Accounts Receivable	5,702.50		63.87		\$63.87
141 · Accounts Receivable	5,702.50		63.87		\$63.87
141 · Accounts Receivable	12,427.50		139.19		\$139.19
141 · Accounts Receivable	17,805.00		199.42		\$199.42
141 · Accounts Receivable	17,805.00		199.42		\$199.42
141 · Accounts Receivable	17,805.00		199.42		\$199.42
141 · Accounts Receivable	18,445.00		206.58		\$206.58
141 · Accounts Receivable	45,525.00		509.88		\$509.88
141 · Accounts Receivable	45,525.00		509.88		\$509.88
141 · Accounts Receivable	45,525.00		509.88		\$509.88
141 · Accounts Receivable	49,520.00		554.62		\$554.62
141 · Accounts Receivable	8,841.00		99.02		\$99.02
141 · Accounts Receivable	8,841.00		99.02		\$99.02
141 · Accounts Receivable	8,841.00		99.02		\$99.02
141 · Accounts Receivable	9,992.98		111.92		\$111.92
141 · Accounts Receivable	7,480.00		83.78		\$83.78
141 · Accounts Receivable	7,480.00		83.78		\$83.78
141 · Accounts Receivable	7,480.00		83.78		\$83.78
141 · Accounts Receivable	26,842.50		300.64		\$300.64
	cf per Co		Total Billed	Total	\$5,798.76
	517,746.41		5,798.81		
				1	
	5177				
12	\$5,798.76				
necker	\$0.05				

141 · Accounts Receivable	1.00	89.43	no consumption
141 · Accounts Receivable	1.00	89.43	no consumption
141 · Accounts Receivable	1.00	89.43	no consumption
141 · Accounts Receivable	1.00	89.43	no consumption

Difference

\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0.00 \$0.00 \$0.00 \$0.00
\$0.00 \$0.00 \$0.00
\$0.00 \$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
-\$0.05

Type	Date	Num	Name	Item
Invoice	10/01/2016	12-7122	Best Western Mt Hood Inn 006	C. Cf's used

Consumption billed for only one quarter and is no

Item Description	Account	Split	Qty -CF
Water consumption for the quarte	461.2 · Commercial Metered	141 · Acco	219.25
			cf per Co
Summarized CF usa	ge for CM 6 inch customers		219.25
	Per units (cf/100)		2
	Staff Checker units * \$1.12		\$2.46
	Difference billed/staff checker		\$0.00

ot viable for 6 inch hotel customer

Debit	Credit
	2.46

Туре	Date	Num	Name		Item
Invoice	01/01/2016	12-6132	Huckelberry / Motel	279	C. Cf's used
Invoice	04/01/2016	12-6500	Huckelberry / Motel	279	C. Cf's used
Invoice	07/01/2016	12-6867	Huckelberry / Motel	279	C. Cf's used
Invoice	10/01/2016	12-7240	Huckelberry / Motel	279	C. Cf's used
Invoice	03/12/2016	12-6361	Skibowl E 361		C. Cf's used
Invoice	03/12/2016	12-6361	Skibowl E 361		C. Cf's used

Only two quarters of usage for Custo

Item Description	Account	Split	Qty -CF	Debit
Water consumption for the quarter	461.2 · Commercial Met	141 · Account	8,326.75	
Water consumption for the quarter	461.2 · Commercial Met	141 · Account	8,326.75	
Water consumption for the quarter	461.2 · Commercial Met	141 · Account	8,326.75	
Water consumption for the quarter	461.2 · Commercial Met	141 · Account	9,905.75	
Water consumption for the quarter	461.2 · Commercial Met	141 · Account	126,985.00	
Water consumption for the quarter	461.2 · Commercial Met	141 · Account	126,985.00	
			cf per Co	Total
Summarized CF usage for CN	1 4 inch customers		cf per Co 288,856.00	Total
Summarized CF usage for CN	1 4 inch customers		•	Total
Summarized CF usage for CN	1 4 inch customers Per units (cf/100)		•	Total
Summarized CF usage for CN		\$1.12	288,856.00	
Summarized CF usage for CN	Per units (cf/100)		288,856.00	

mer: Skibowl E 361, not four.

Credit	Staff Checker	Difference
93.26	\$93.26	\$0.00
93.26	\$93.26	\$0.00
93.26	\$93.26	\$0.00
110.94	\$110.94	\$0.00
1,422.23	\$1,422.23	\$0.00
1,422.23	\$1,422.23	\$0.00
3,235.18 Total	\$3,235.19	\$0.01

Invoice	10/01/2016	12-7413	20/20 Properties 330	R. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.1 · Residential Metered	141 · Accounts Receivable	0.00	0.00	No consumption
Invoice	01/01/2016	12-6224	ODOT Compound 249	RM 3/4"	Quarterly base rate	461.1 · Residential Metered	141 · Accounts Receivable	10.00	475.80	No consumption-10 units?
Invoice	04/01/2016	12-6593	ODOT Compound 249	RM 3/4"	Quarterly base rate	461.1 · Residential Metered	141 · Accounts Receivable	10.00	475.80	No consumption-10 units?
Invoice	07/01/2016	12-6960	ODOT Compound 249	RM 3/4"	Quarterly base rate	461.1 · Residential Metered	141 · Accounts Receivable	10.00	475.80	No consumption-10 units?
Invoice	10/01/2016	12-7333	ODOT Compound 249	RM 3/4"	Quarterly base rate	461.1 · Residential Metered	141 · Accounts Receivable	10.00	475.80	No consumption-10 units?
Invoice	10/01/2016	12-7375	Sandler, Scott & Janet 323	R. Cf's used	Water consumption for the quarter (\$1.12/100Cf)	461.1 · Residential Metered	141 · Accounts Receivable	1,354.50	15.17	Billed all 4 quarters for base rate, but only this month for consumption
Invoice	01/01/2016	12-6281	Skowhede / Trails Out 157	RM 3/4"	Quarterly base rate	461.1 · Residential Metered	141 · Accounts Receivable	1.00	47.58	No consumption
Invoice	04/01/2016	12-6651	Skowhede / Trails Out 157	RM 3/4"	Quarterly base rate	461.1 · Residential Metered	141 · Accounts Receivable	1.00	47.58	No consumption
Invoice	07/01/2016	12-7018	Skowhede / Trails Out 157	RM 3/4"	Quarterly base rate	461.1 · Residential Metered	141 · Accounts Receivable	1.00	47.58	No consumption
Invoice	10/01/2016	12-7392	Skowhede / Trails Out 157	RM 3/4"	Quarterly base rate	461.1 · Residential Metered	141 · Accounts Receivable	1.00	47.58	No consumption

Туре	Date	Num	Name	Item
Invoice	01/01/2016	12-6013	Beighley, Harold 314	R. Cf's used
Invoice	04/01/2016	12-6381	Beighley, Harold 314	R. Cf's used
Invoice	07/01/2016	12-6748	Beighley, Harold 314	R. Cf's used
Invoice	10/01/2016	12-7118	Beighley, Harold 314	R. Cf's used
Invoice	01/01/2016	12-6015	Bersaas, Eric & Ann 318	R. Cf's used
Invoice	04/01/2016	12-6383	Bersaas, Eric & Ann 318	R. Cf's used
Invoice	07/01/2016	12-6750	Bersaas, Eric & Ann 318	R. Cf's used
Invoice	10/01/2016	12-7121	Bersaas, Eric & Ann 318	R. Cf's used
Invoice	01/01/2016	12-6019	Bissonnette, John 342	R. Cf's used
Invoice	04/01/2016	12-6387	Bissonnette, John 342	R. Cf's used
Invoice	07/01/2016	12-6754	Bissonnette, John 342	R. Cf's used
Invoice	10/01/2016	12-7125	Bissonnette, John 342	R. Cf's used
Invoice	01/01/2016	12-6058	Darley, Jason 360	R. Cf's used
Invoice	04/01/2016	12-6427	Darley, Jason 360	R. Cf's used
Invoice	07/01/2016	12-6794	Darley, Jason 360	R. Cf's used
Invoice	10/01/2016	12-7165	Darley, Jason 360	R. Cf's used
Invoice	01/01/2016	12-6076	Gaither, Otto & Laurie 172.1	R. Cf's used
Invoice	04/01/2016	12-6444	Gaither, Otto & Laurie 172.1	R. Cf's used
Invoice	07/01/2016	12-6811	Gaither, Otto & Laurie 172.1	R. Cf's used
Invoice	10/01/2016	12-7183	Gaither, Otto & Laurie 172.1	R. Cf's used
Invoice	01/01/2016	12-6084	Godon, Peter & Krista 161	R. Cf's used
Invoice	04/01/2016	12-6452	Godon, Peter & Krista 161	R. Cf's used
Invoice	07/01/2016	12-6819	Godon, Peter & Krista 161	R. Cf's used
Invoice	10/01/2016	12-7191	Godon, Peter & Krista 161	R. Cf's used
Invoice	01/01/2016	12-6112	Hargreaves, Craig & Kim 339	R. Cf's used
Invoice	04/01/2016	12-6480	Hargreaves, Craig & Kim 339	R. Cf's used
Invoice	07/01/2016	12-6847	Hargreaves, Craig & Kim 339	R. Cf's used
Invoice	10/01/2016	12-7220	Hargreaves, Craig & Kim 339	R. Cf's used
Invoice	01/01/2016	12-6139	Johnson, Carol 358	R. Cf's used
Invoice	04/01/2016	12-6508	Johnson, Carol 358	R. Cf's used
Invoice	07/01/2016	12-6875	Johnson, Carol 358	R. Cf's used
Invoice	10/01/2016	12-7248	Johnson, Carol 358	R. Cf's used
Invoice	01/01/2016	12-6153	Klebleev, Konstantin 150	R. Cf's used
Invoice	04/01/2016	12-6522	Klebleev, Konstantin 150	R. Cf's used
Invoice	07/01/2016	12-6889	Klebleev, Konstantin 150	R. Cf's used
Invoice	10/01/2016	12-7262	Klebleev, Konstantin 150	R. Cf's used

Itam	Descri	ntınn
110111	DCJCII	puon

Account

item bescription	Account
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	
Water consumption for the qu	461.1 · Residential Metered
Water consumption for the qu	
Water consumption for the qu	461.1 · Residential Metered

Re	esider
taff Checker per Unit	

Split	Qty	Debit
141 · Accounts Receivable	902.75	
141 · Accounts Receivable	902.75	
141 · Accounts Receivable	902.75	
141 · Accounts Receivable	975.25	
141 · Accounts Receivable	256.50	
141 · Accounts Receivable	256.50	
141 · Accounts Receivable	256.50	
141 · Accounts Receivable	304.50	
141 · Accounts Receivable	550.75	
141 · Accounts Receivable	550.75	
141 · Accounts Receivable	550.75	
141 · Accounts Receivable	62.50	
141 · Accounts Receivable	1,507.75	
141 · Accounts Receivable	1,507.75	
141 · Accounts Receivable	1,507.75	
141 · Accounts Receivable	1,650.50	
141 · Accounts Receivable	189.50	
141 · Accounts Receivable	189.50	
141 · Accounts Receivable	189.50	
141 · Accounts Receivable	353.75	
141 · Accounts Receivable	332.00	
141 · Accounts Receivable	332.00	
141 · Accounts Receivable	332.00	
141 · Accounts Receivable	489.75	
141 · Accounts Receivable	699.50	
141 · Accounts Receivable	699.50	
141 · Accounts Receivable	699.50	
141 · Accounts Receivable	1,823.75	
141 · Accounts Receivable	1,235.50	
141 · Accounts Receivable	1,235.50	
141 · Accounts Receivable	1,235.50	
141 · Accounts Receivable	1,530.00	
141 · Accounts Receivable	160.25	
141 · Accounts Receivable	160.25	
141 · Accounts Receivable	160.25	
141 · Accounts Receivable	239.75	
	Per CF	
ntial 3/4 inch Consumption	20,175.75	
Consumption by Unit (CF/100)	202	
Consumption \$\$ per Usage (Unit*1.12)	\$225.97	
Difference between Billed Amt/usage	\$39.28	
Consumption Difference	3507.29	

Credit		Staff Checker	Difference
8.49		\$10.11	\$1.62
8.49		\$10.11	\$1.62
8.49		\$10.11	\$1.62
9.18		\$10.92	\$1.74
3.18		\$2.87	-\$0.31
3.18		\$2.87	-\$0.31
3.18		\$2.87	-\$0.31
3.78		\$3.41	-\$0.37
6.17		\$6.17	\$0.00
6.17		\$6.17	\$0.00
6.17		\$6.17	\$0.00
0.70		\$0.70	\$0.00
16.89		\$16.89	\$0.00
16.89		\$16.89	\$0.00
16.89		\$16.89	\$0.00
18.49		\$18.49	\$0.00
2.12		\$2.12	\$0.00
2.12		\$2.12	\$0.00
2.12		\$2.12	\$0.00
3.96		\$3.96	\$0.00
3.75		\$3.72	-\$0.03
3.75		\$3.72	-\$0.03
3.75		\$3.72	-\$0.03
5.53		\$5.49	-\$0.04
8.02		\$7.83	-\$0.19
8.02		\$7.83	-\$0.19
8.02		\$7.83	-\$0.19
20.90		\$20.43	-\$0.47
11.51		\$13.84	\$2.33
11.51		\$13.84	\$2.33
11.51		\$13.84	\$2.33
14.26		\$17.14	\$2.88
1.79		\$1.79	\$0.00
1.79		\$1.79	\$0.00
1.79		\$1.79	\$0.00
2.69		\$2.69	\$0.00
\$\$ Billed	Total	\$279.25	\$14.00
\$265.25			
Ţ-33. 2 0			

	Date	Num	Name		Item
Invoice	01/01/2016	12-6138	Jensen, Kenneth	286	R. Cf's used
Invoice	04/01/2016	12-6507	Jensen, Kenneth	286	R. Cf's used
Invoice	07/01/2016	12-6874	Jensen, Kenneth	286	R. Cf's used
Invoice	10/01/2016	12-7247	Jensen, Kenneth	286	R. Cf's used
Invoice	01/01/2016	12-6266	Santilli, Lynn 312		R. Cf's used
Invoice	04/01/2016	12-6635	Santilli, Lynn 312		R. Cf's used
Invoice	07/01/2016	12-7002	Santilli, Lynn 312		R. Cf's used
Invoice	10/01/2016	12-7376	Santilli, Lynn 312		R. Cf's used

Item Description	Account
Water consumption for the qua	461.1 · Residential Metered
Water consumption for the qua	461.1 · Residential Metered
Water consumption for the qua	461.1 · Residential Metered
Water consumption for the qua	461.1 · Residential Metered
Water consumption for the qua	461.1 · Residential Metered
Water consumption for the qua	461.1 · Residential Metered
Water consumption for the qua	461.1 · Residential Metered
Water consumption for the qua	461.1 · Residential Metered

Residentia

Staff Checker per Unit

Split	Qty	Debit	Credit	
141 · Accounts Receivable	1,292.00		14.47	
141 · Accounts Receivable	1,292.00		14.47	
141 · Accounts Receivable	1,292.00		14.47	
141 · Accounts Receivable	1,031.08		11.55	
141 · Accounts Receivable	166.50		1.86	
141 · Accounts Receivable	166.50		1.86	
141 · Accounts Receivable	166.50		1.86	
141 · Accounts Receivable	121.00		1.36	
	Per CF		\$\$ Billed	Total
al 1 inch Consumption	5,527.58		\$61.90	
Consumption by Unit (CF/100)	55			
Consumption \$\$ per Usage (Unit*1.12)	\$61.91			
Difference between Billed Amt/usage	-\$0.01			
Consumption Difference	-0.79			

Staff Checker	Difference
Starr Checker	Difference
\$14.47	\$0.00
\$14.47	\$0.00
\$14.47	\$0.00
\$11.55	\$0.00
\$1.86	\$0.00
\$1.86	\$0.00
\$1.86	\$0.00
\$1.36	\$0.00
\$61.91	\$0.01

	Date	Num	Name		Item
Invoice	01/01/2016	12-6159	Lampi, Jeanne	362	R. Cf's used
Invoice	04/01/2016	12-6528	Lampi, Jeanne	362	R. Cf's used
Invoice	07/01/2016	12-6895	Lampi, Jeanne	362	R. Cf's used
Invoice	10/01/2016	12-7268	Lampi, Jeanne	362	R. Cf's used

Item Description	Account
Water consumption for the qua	461.1 · Residential Metered
Water consumption for the qua	461.1 · Residential Metered
Water consumption for the qua	461.1 · Residential Metered
Water consumption for the qua	461.1 · Residential Metered

Residentia

Staff Checker per Unit

Split	Qty	Debit	Credit
141 · Accounts Receivable	2,097.50		23.49
141 · Accounts Receivable	2,097.50		23.49
141 · Accounts Receivable	2,097.50		23.49
141 · Accounts Receivable	2,932.50		32.84
	Per CF		\$\$ Billed
l 1.5 inch Consumption	9,225.00		\$103.31
Consumption by Unit (CF/100)	92		
Consumption \$\$ per Usage (Unit*1.12)	\$103.32		
Difference between Billed Amt/usage	-\$0.01		
Consumption Difference	-0.89		

Total

Staff Checker	Difference
\$23.49	\$0.00
\$23.49	\$0.00
\$23.49	\$0.00
\$32.84	\$0.00
\$103.32	\$0.01

	Date	Num	Name	Item	Item Description
Invoice	01/01/2016	12-6002	Allred, Tim & Laurie 341	R. Cf's used	Water consumption for th
Invoice	04/01/2016	12-6370	Allred, Tim & Laurie 341	R. Cf's used	Water consumption for th
Invoice	07/01/2016	12-6737	Allred, Tim & Laurie 341	R. Cf's used	Water consumption for th
Invoice	10/01/2016	12-7107	Allred, Tim & Laurie 341	R. Cf's used	Water consumption for th
Invoice	01/01/2016	12-6149	Kelly, Kevin 335	R. Cf's used	Water consumption for th
Invoice	04/01/2016	12-6518	Kelly, Kevin 335	R. Cf's used	Water consumption for th
Invoice	07/01/2016	12-6885	Kelly, Kevin 335	R. Cf's used	Water consumption for th
Invoice	10/01/2016	12-7258	Kelly, Kevin 335	R. Cf's used	Water consumption for th
Invoice	01/01/2016	12-6216	Nantz, John 344	R. Cf's used	Water consumption for th
Invoice	04/01/2016	12-6585	Nantz, John 344	R. Cf's used	Water consumption for th
Invoice	07/01/2016	12-6952	Nantz, John 344	R. Cf's used	Water consumption for th
Invoice	10/01/2016	12-7325	Nantz, John 344	R. Cf's used	Water consumption for th
Invoice	01/01/2016	12-6292	Sprunk, Eric 336	R. Cf's used	Water consumption for th
Invoice	04/01/2016	12-6662	Sprunk, Eric 336	R. Cf's used	Water consumption for th
Invoice	07/01/2016	12-7030	Sprunk, Eric 336	R. Cf's used	Water consumption for th
Invoice	10/01/2016	12-7404	Sprunk, Eric 336	R. Cf's used	Water consumption for th

Account	Split
461.1 · Residential Metered	141 · Accounts Receivable
461.1 · Residential Metered	141 · Accounts Receivable
461.1 · Residential Metered	141 · Accounts Receivable
461.1 · Residential Metered	141 · Accounts Receivable
461.1 · Residential Metered	141 · Accounts Receivable
461.1 · Residential Metered	141 · Accounts Receivable
461.1 · Residential Metered	141 · Accounts Receivable
461.1 · Residential Metered	141 · Accounts Receivable
461.1 · Residential Metered	141 · Accounts Receivable
461.1 · Residential Metered	141 · Accounts Receivable
461.1 · Residential Metered	141 · Accounts Receivable
461.1 · Residential Metered	141 · Accounts Receivable
461.1 · Residential Metered	141 · Accounts Receivable
461.1 · Residential Metered	141 · Accounts Receivable
461.1 · Residential Metered	141 · Accounts Receivable
461.1 · Residential Metered	141 · Accounts Receivable
Resident	tial 2 inch Consumption
Staff Checker per Unit	Consumption by Unit (CF/100)
	Consumption \$\$ per Usage (Unit*1.12)
	Difference between Billed Amt/usage
	Consumption Difference

Qty	Debit	Credit		S
160.00		1.79		
160.00		1.79		
160.00		1.79		
322.50		3.61		
45.00		0.50		
45.00		0.50		
45.00		0.50		
75.00		0.84		
180.00		2.02		
180.00		2.02		
180.00		2.02		
305.00		3.42		
175.00		1.96		
175.00		1.96		
175.00		1.96		
1,217.50		13.64		L
Per CF		\$\$ Billed	Total	
3,600.00		\$40.32		
36				
\$40.32				
\$0.00				
0.00				

Staff Checker	Difference
\$1.79	\$0.00
\$1.79	\$0.00
\$1.79	\$0.00
\$3.61	\$0.00
\$0.50	\$0.00
\$0.50	\$0.00
\$0.50	\$0.00
\$0.84	\$0.00
\$2.02	\$0.00
\$2.02	\$0.00
\$2.02	\$0.00
\$3.42	\$0.00
\$1.96	\$0.00
\$1.96	\$0.00
\$1.96	\$0.00
\$13.64	\$0.00
\$40.32	\$0.00

GCW UW 174 GRC ROE Modeling Three-Stage DCF Modeling Results Staff/202 Muldoon/1

UW 174 Staff ROE Summary

Component	Real Rate	TIPS Inflation Forecast	20-Yr Nominal Rate	Weight	Weighted Rate
Congressional Budget Office Long-Term 20-Year Budget Outlook			4.00%	100.0%	4.00%
Energy Information Administration	2.00%	1.99%	4.03%	12.50%	0.50%
PricewaterhouseCooper	1.80%	1.99%	3.83%	12.50%	0.48%
Social Security Administration	2.20%	1.99%	4.23%	12.50%	0.53%
Congressional Budget Office			4.00%	12.50%	0.50%
BEA Nominal Historical,1980 Q1 – 2017 Q4	2.76%	1.99%	4.80%	50.0%	2.40%
Composite			_	100%	4.41%
BEA Nominal Historical,1980 Q1 – 2017 Q4	2.76%	1.99%	4.80%	100.0%	4.80%

	Model X: 3 Stage DCF - Dividend Growth with Terminal Value as Perpetuity													
	X CBO 4.00% Composite 4.41% Historical 4.80%													
1 [Staff Screen	6.79%		7.15%		7.50%								
2	Low Cap (Small Cap & Mid Cap) Sensitivity	6.62%]	6.99%		7.38%								
3	Small Cap Sensitivity	6.91%		7.27%		7.62%								

	Model Y: 3 Stage DCF - Dividend Growth with Terminal Value as Sales based upon EPS Growth and Terminal Stock Sale													
	Y	СВО	4.00%	Composite	4.41%	Historical	4.80%							
1	Staff Screen	7.34%		7.67%		7.98%		Hamada						
2	Low Cap (Small Cap & Mid Cap) Sensitivity	7.22%		7.55%		7.86%		to Right						
3	Small Cap Sensitivity	7.58%		7.90%		8.21%		→						

	X	СВО	4.00%	Composite	4.41%	Historical	4.80%	!
Hamada	Staff Screen	7.22%		7.58%		7.93%		1
to Right	Low Cap (Small Cap & Mid Cap) Sensitivity	7.16%		7.53%		7.92%		2
→	Small Cap Sensitivity	7.47%		7.83%		8.18%		3
•					2			,

Model X: 3 Stage DCF - Dividend Growth with Terminal Value as Perpetuity (Hamada Adjusted)

1	Model Y: 3 Stage DCF - Dividend & EPS Growth with Terminal Value as Stock Sale (Hamada Adjusted)													
	Υ	СВО	4.00%	Composite	4.41%	Historical	4.80%							
Hamada	Staff Screen	7.77%		8.10%		8.41%		1						
to Right	Low Cap (Small Cap & Mid Cap) Sensitivity	7.76%		8.09%		8.40%		2						
→	Small Cap Sensitivity	8.14%		8.46%		8.77%		3						

Hamada Adjustments to Right Fully Account for Differences in the Amount of Debt in Capital Structure
 Common Stock Flotation Costs Adjustment Shifts Range of Reasonable ROE's Upward by :

 Sensitivity Study to Account for Difference in Capitalization Size -- Maximum Upward Shift: Informed Range of Model 8.41%

to

12.5 36.0 9.25% ROE

Point ROE Recommendation

9.25% ROE

Government Camp Water Peer Screen

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		Screen:	1	Water Utilities Followed by Value Line (VL) Passing	g Staff Screen										
Water l	Jtility	2		2 " that are Small & Medium Capitalization / VL		Note Below									
Gove	rnment Camp Water		3	" that are Small Capitalization / VL				Yahoo Fin.	٧L	Value Line	SNL or VL	VL 2017	VL	VL 2017	VL
	(GCW)	1	2		NYSE	٧L	Yahoo Fin.	4/21/2018	4/21/2018	Water Utility	No Div	LT Debt	2021-2023	Common	Preferred
Screen	Abbreviated	UW 174	UW 174 UW 174 VL Corporate Name		NSDQ	4/21/2018	4/21/2018	Mkt Cap	Mkt Cap	w VL Beta < 1	Declines	< 56%	LT Debt %	Equity %	Stock
#	Utility	VL Group	VL Low-Cap	Gas Utility	Ticker	Beta	Beta	\$ Billions	\$ Billions	4/21/2018	5 years	of Capital	of Capital	of Capital	of Capital
1	American States	Yes	Yes	American States Water Company	AWR	0.65	-0.20	2.03	1.90	Yes	Pass	37.7%	46.0%	62.3%	0.0%
2	American Water	No	No	American Water Works Company, Inc.	AWK	0.65	0.05	15.09	15.50	Yes	Fail	54.6%	57.5%	45.3%	0.1%
3	Aqua America	Yes	No	Aqua America, Inc.	WTR	0.70	0.24	6.08	6.00	Yes	Pass	50.1%	53.5%	49.4%	0.5%
4	California Water	Yes	Yes	California Water Service Group	CWT	0.75	0.26	1.90	1.80	Yes	Pass	42.7%	42.0%	57.3%	0.0%
5	Connecticut Water	Merger	Merger	Connecticut Water Services, Inc.	CTWS	0.65	-0.42	0.79	0.75	Yes	Pass	46.3%	45.0%	53.7%	0.0%
6	Consolidated Water	No	No	Consolidated Water Co. Ltd.	CWCO	0.95	0.43	0.21	0.20	Yes	Pass	0.0%	0.0%	99.0%	1.0%
7	Middlesex Water	Yes	Yes	Middlesex Water Company	MSEX	0.80	0.14	0.66	0.60	Yes	Pass	37.5%	37.0%	61.8%	0.7%
8	SJW	. ,		SJW	0.70	-0.03	1.16	1.10	Yes	Pass	48.2%	48.0%	51.8%	0.0%	
9	York Water			YORW	0.80	0.34	0.42	0.40	Yes	Pass	43.0%	42.5%	57.0%	0.0%	
	TOTAL PEERS	7	6	Note: Staff further segregates VL Small-Cap in sen	sitivity mod	deling to tes	t the effects of	of Capitalizati	on Size on I	modeling sesults	S.				

1	2	3	4	17	18	
Water L	Itility	Screen:	1 2			
Gover	nment Camp Water		3	VL		7
	(GCW)	1	2	Div. Growth	Notes	
Screen	Abbreviated	UW 174	UW 174	Rate	Notes	Screen
#	Utility	VL Group	VL Low-Cap	> 0%		#
1	American States	Yes	Yes	Pass	Also has 11 contracts for military installations	1
2	American Water	No	No	Pass	Strategy: Growth through acquisitions and controlling expenses.	2
3	Aqua America	Yes	No	Pass	Key Focus on infrastructure upgrades	3
4	California Water	Yes	Yes	Pass	Substantial run up on Stock Price	4
5	Connecticut Water	Merger	Merger	Pass	Both Eversource Energy and SJW have bid to buy CT Water. CT Water favors SJW Likely M&A	5
6	Consolidated Water	No	No	Fail	Flat Dividend Growth, Higher Risk International Desalination Projects	6
7	Middlesex Water	Yes	Yes	Pass	Also operates water and wastewater services and upgrades under contract with cities and private clients	7
8	SJW	Merger	Merger	Pass	Both Eversource Energy and SJW have bid to buy CT Water. CT Water favors SJW Likely M&A	8
9	York Water	Yes	Yes	Pass	Oldest Water Utility in US - in continuous operation since 1816.	9
	TOTAL PEERS	7	6			

VL Earnings per Share

	G (CW Water	Peer D	Dividend 4	S 5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29 le Estimate
	Screen	Abbreviated	UW 174	UW 174		2012	2013	2013	2013	2013	2013	2014	2014	2014	2014	2014	2015	2015	2015	2015	2015	2016	2016	2016	2016	2016	2014-16		2018
	#	Utility		VL Low-Cap	Ticker	Yr	Q1	Q2	Q3	Q4	Yr	Q1	Q2	Q3	Q4	Yr	Q1	Q2	Q3	Q4	Yr	Q1	Q2	Q3	Q4		Average		Yr
1	1	American States	Yes	Mid-Cap	AWR	0.64	0.1775	0.1775	0.2025	0.2025	0.76	0.2025	0.2025	0.213	0.213	0.83	0.213	0.213	0.224	0.224	0.87	0.224	0.224	0.224	0.242	0.91	0.87	0.99	1.07
2	3	Aqua America	Yes	Large-Cap	WTR	0.54	0.14	0.14	0.152	0.152	0.58	0.152	0.152	0.165	0.165	0.63	0.165	0.165	0.178	0.178	0.69	0.178	0.178	0.1913	0.1913	0.74	0.69	0.79	0.85
3	4	California Water	Yes	Mid-Cap	CWT	0.63	0.16	0.16	0.16	0.16	0.64	0.1625	0.1625	0.1625	0.1625	0.65	0.1675	0.1675	0.1675	0.1675	0.67	0.1725	0.1725	0.1725	0.1725	0.69	0.67	0.72	0.75
4	5	Connecticut Water	Merger	Merger	CTWS	0.96	0.2425	0.2425	0.2475	0.2475	0.98	0.2475	0.2475	0.2575	0.2575	1.01	0.2575	0.2575	0.2675	0.2675	1.05	0.2675	0.2825	0.2825	0.2825	1.12	1.06	1.18	1.24
5	7	Middlesex Water	Yes	Small-Cap	MSEX	0.74	0.19	0.1875	0.1875	0.19	0.75	0.19	0.19	0.19	0.1925	0.76	0.1925	0.1925	0.1925	0.19875	0.78	0.19875	0.19875	0.19875	0.21125	0.81	0.78	0.86	0.91
6	8	SJW	Merger	Merger	SJW	0.71	0.1825	0.1825	0.1825	0.1825	0.73	0.1875	0.1875	0.1875	0.1875	0.75	0.195	0.195	0.195	0.195	0.78	0.2025	0.2025	0.2025	0.2025	0.81	0.78	1.04	1.12
7	9	York Water	Yes	Small Cap	YORW	0.54	0.14	0.138	0.138	0.138	0.55	0.1431	0.1431	0.1431	0.1431	0.57	0.1495	0.1495	0.1495	0.1555	0.60	0.1555	0.1555	0.1555	0.1602	0.63	0.60	0.65	0.70
	GC 1	TOTAL CW Water	Peer E	EPS ₄	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	(Low-Cap
										,	Value Lin	e Estimate	d EPS														Value Line	e Estimate	ed Near Fut
	Screen	Abbreviated	UW 174	UW 174		2013	2014	2014	2014	2014	2014	2015	2015	2015	2015	2015	2016	2016	2016	2016	2016	2014-16	2017	2017	2017	2017	2017	2018	2018
	#	Utility	VL Group	VL Low-Cap	Ticker	Yr	Q1	Q2	Q3	Q4	Yr	Q1	Q2	Q3	Q4	Yr	Q1	Q2	Q3	Q4	Yr	Average	Q1	Q2	Q3	Q4	Yr	Q1	Q2
1	1	American States	Yes	Mid-Cap	AWR	1.61	0.28	0.39	0.54	0.36	1.57	0.32	0.41	0.56	0.31	1.60	0.28	0.45	0.59	0.30	1.62	1.60	0.34	0.62	0.57	0.35	1.88	0.35	0.50
2	3	Aqua America	Yes	Large-Cap	WTR	1.16	0.24	0.31	0.38	0.27	1.20	0.27	0.32	0.38	0.17	1.14	0.29	0.34	0.41	0.28	1.32	1.22	0.28	0.34	0.43	0.30	1.35	0.30	0.35
3	4	California Water	Yes	Mid-Cap	CWT	1.02	(0.11)	0.36	0.70	0.24	1.19	0.03	0.21	0.52	0.18	0.94	(0.02)	0.24	0.48	0.31	1.01	1.05	0.02	0.39	0.70	0.29	1.40	0.08	0.42

2.04

1.22

1.85

0.97

0.28

0.29

0.16

0.19

0.20

0.28

0.80

0.27

0.89

0.36

0.82

0.23

0.84

0.54

0.92

0.27

0.07

0.19

0.67

0.23

2.08

1.38

2.57

0.92

2.01

1.24

2.32

0.93

0.36

0.27

0.18

0.73

0.33

0.9

0.25

0.90

0.46

0.94

0.30

2.13

1.38

2.86

1.05

0.14

0.32

0.84

0.28

0.37

0.29

0.27

0.23

0.77

0.37

0.90

0.26

1.66

1.03

1.12

0.75

CTWS

MSEX

SJW

YORW

0.27

0.20

0.04

0.16

0.67

0.29

0.34

0.22

0.76

0.42

1.88

0.23

Small-Cap

Small Cap

Yes

Yes

TOTAL

5 Connecticut Water

7 Middlesex Water

SJW

9 York Water

0.22

0.22

0.28

0.28

0.28

0.22

0.23

0.20

1.92

1.13

2.54

0.89

0.77

0.31

0.36

0.22

0.79

0.41

0.46

0.28

VL Earnings per Share

	G	CW Water	Peer D	Dividend												
	1	2	3	4	5	30	31	32	33	34	35	•				
						d Near Fu	ture Divide	nds in Blue)	VL Avg	Div. Growth		_			
	Screen	Abbreviated	UW 174	UW 174		2019	2020	2021	2022	2020- 22	2020-22 vs.	Screen	1			
	#	Utility	VL Group	VL Low-Cap	Ticker	Yr	Yr	Yr	Yr	/ Yr	2014-16	#		_		
1	1	American States	Yes	Mid-Cap	AWR	1.16	1.25	1.35	1.45	1.35	7.5%	1	1			
2	3	Aqua America	Yes	Large-Cap	WTR	0.94	1.03	1.14	1.25	1.14	8.8%	3	2			
3	4	California Water	Yes	Mid-Cap	CWT	0.81	0.88	0.95	1.02	0.95	6.0%	4	3			
4	5	Connecticut Water	Merger	Merger	CTWS	1.31	1.38	1.45	1.52	1.45	5.4%	5	4			
5	7	Middlesex Water	Yes	Small-Cap	MSEX	0.96	1.01	1.06	1.11	1.06	5.2%	7	5			
6	8	SJW	Merger	Merger	SJW	1.19	1.27	1.36	1.45	1.36	9.7%	8	6			
7	9	York Water	Yes	Small Cap	YORW	0.77	0.84	0.92	1.00	0.92	7.4%	9	7			
		TOTAL	7	6					V	L H2O Screen	7.0%	Mean		_		
						= Small-	& Mid-Cap) VI	L (Low Cap	o) H2O Screen	6.5%					
			_					VL :	Small-Cap) H2O Screen	6.3%					
	G(CW Water	Peer E	:PS												
	1	2	3	4	5	30	31	32	33	34	35	36	37	38		
						ture Earnir	ngs per Sha	are in Blue					VL Avg	EPS Growth		_
	Screen	Screen Abbreviated UW 174 UW 174 UW 174 2018 2018 2018 2019 2020 2021 2022 2020 - 22 2020-22 vs. Screen # Utility VL Group VL Low-Cap Ticker Q3 Q4 Yr Yr Yr Yr Yr Yr /Yr 2014-16 #														
		# Utility VL Group VL Low-Cap Ticker Q3 Q4 Yr Yr Yr Yr Yr Yr /Yr 2014-16 #														
1	1	American States	Yes	Mid-Cap	AWR	0.60	0.40	1.85	1.99	2.13	2.29	2.45	2.29	6.2%	1	1
2	3	Aqua America	Yes	Large-Cap	WTR	0.44	0.31	1.40	1.52	1.66	1.81	1.95	1.81	6.7%	3	2
3	4	California Water	Yes	Mid-Cap	CWT	0.72	0.33	1.55	1.63	1.72	1.81	1.90	1.81	9.6%	4	3
4	5	Connecticut Water	Merger	Merger	CTWS	0.92	0.24	2.30	2.44	2.58	2.74	2.90	2.74	5.3%	5	4
5	7	Middlesex Water	Yes	Small-Cap	MSEX	0.55	0.34	1.55	1.67	1.81	1.96	2.10	1.96	7.8%	7	5
6	8	SJW	Merger	Merger	SJW	1.00	0.68	2.85	2.99	3.14	3.30	3.45	3.30	6.0%	8	6
7	9	York Water	Yes	Small Cap	YORW	0.32	0.29	1.10	1.19	1.29	1.40	1.51	1.40	7.1%	9	7
		TOTAL	8	6					(Low-Cap	= Small- & M	id-Cap)		L H2O Screen) H2O Screen		Mean	

	1	2	3	4	5	6	7	8	9	10	11	#	12	13	14	15	16	17	#	18	19		
	GCW G	RC				Y	ahoo Finan	ce													Hamada	ĺ	
	Staff Ha	ı <mark>mada Adjustme</mark> n	nts			\$ Sto	ock Closing	Price	3-Day	Div Yield	VL 2017		VL 2017 Ca	p Structure				Relevered			Adjustment		
						1st Tr	ading Day of	Month	Avg \$	at	Return on		% Long	%		2018	Hamada	Beta		Equity	Equity		_
	Screen	Abbreviated	UW 174	UW 174		Jan.	Feb.	Mar.	Stock	Recent	Common		Term	Common	٧L	VL	Unlevered	Equity at		Risk	At	Screen	1
	#	Utility	VL Group	VL Low-Cap	Ticker	1/1/2018	2/1/2018	3/1/2018	Price	Price	Equity		Debt	Equity	Beta	Tax Rate	Beta	50.0%		Premium	50.0%	#	
1	1	American States	Yes	Mid-Cap	AWR	55.22	53.12	53.06	53.80	1.7%	13.1%		37.7	62.3	0.75	23.0%	0.51	0.91		4.20%	0.65%	1	1
2	3	Aqua America	Yes	Large-Cap	WTR	36.21	34.19	34.06	34.82	2.1%	12.2%		50.6	49.4	0.70	9.0%	0.36	0.69		4.20%	-0.03%	3	2
3	4	California Water	Yes	Mid-Cap	CWT	40.70	37.95	37.25	38.63	1.8%	9.7%		42.7	57.3	0.75	21.0%	0.47	0.85		4.20%	0.40%	4	3
4	5	Connecticut Water	Merger	Merger	CTWS	53.05	51.63	60.53	55.07	2.0%	8.8%		46.3	53.7	0.65	21.0%	0.39	0.69		4.20%	0.18%	5	4
5	7	Middlesex Water	Yes	Small-Cap	MSEX	37.66	35.44	36.70	36.60	2.2%	9.8%		37.5	61.8	0.80	21.0%	0.54	0.97		4.20%	0.71%	7	5
6	8	SJW	Merger	Merger	SJW	59.84	52.94	52.71	55.16	1.5%	12.8%		48.2	51.8	0.70	21.0%	0.40	0.72		4.20%	0.09%	8	6
7	9	York Water	Yes	Small Cap	YORW	31.65	28.10	27.45	29.07	2.2%	10.9%		43.0	57.0	0.80	21.0%	0.50	0.90		4.20%	0.41%	9	7
		TOTAL	7	6														V	L H2	O Screen	0.43%	Mean	

Dividend Yield = (Annual Dividends per Share) / Price per Share

(Low-Cap = Small- & Mid-Cap) VL (Low Cap) H2O Screen

VL H2O Screen 0.43% Cap) H2O Screen 0.54%

VL Small-Cap) H2O Screen 0

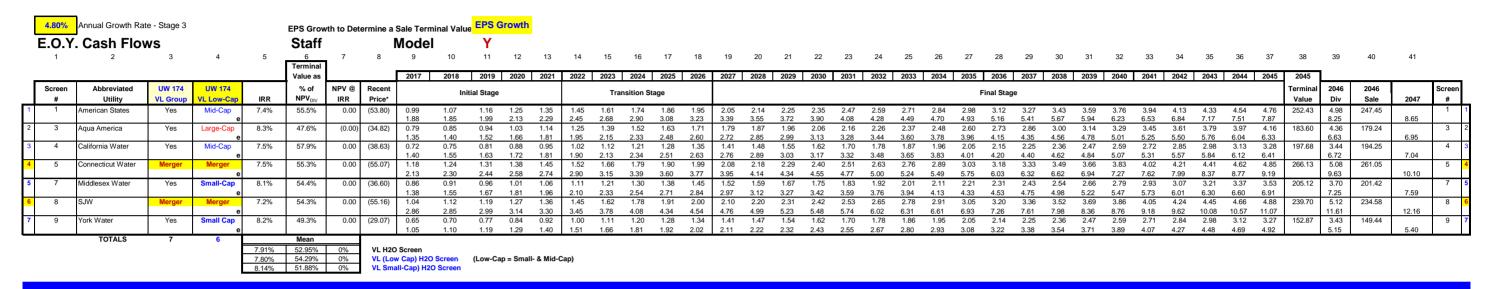
0.56%

When Value Line (VL) Beta ratio exceeds 99.9 or earnings are negative, VI shows "NMF" for 'no meaningful figure'.

4.80%	Annual Grow	th Rate - S	tage 3		Dividen	nd Grow	th with	Termina	al Value	as Per	petuity																													
E.O.)	'. Cash Flo	ws		Staff			N	l odel	X																															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
					Terminal	1																																		
					Value as			2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2045			
Screen	Abbreviated	UW 174	UW 174		% of	NPV @	Recent			.:::-! C:				T													:! C4	_									Terminal	2046	2046	Screen
#	Utility	VL Group	VL Low-Cap	IRR	NPVDIV	IRR	Price		li I	nitial Stage	9			ıra	nsition S	tage										-	inal Stag	e									Value	Div	Perpetuity	#
1 1	American States	Yes	Mid-Cap	7.1%	54.1%	0.00	(53.80)	0.99	1.07	1.16	1.25	1.35	1.45	1.61	1.74	1.86	1.95	2.05	2.14	2.25	2.35	2.47	2.59	2.71	2.84	2.98	3.12	3.27	3.43	3.59	3.76	3.94	4.13	4.33	4.54	4.76	229.49	4.98	224.50	1 1
2 3	Aqua America	Yes	Large-Cap		44.6%	0.00	(34.82)	0.79	0.85	0.94	1.03	1.14	1.25	1.39	1.52	1.63	1.71	1.79	1.87	1.96	2.06	2.16	2.26	2.37	2.48	2.60	2.73	2.86	3.00	3.14	3.29	3.45	3.61	3.79	3.97	4.16	151.89	4.36	147.53	3 2
3 4	California Water	Yes	Mid-Cap		55.1%	0.00	(38.63)	0.72	0.75	0.81	0.88	0.95	1.02	1.12	1.21	1.28	1.35	1.41	1.48	1.55	1.62	1.70	1.78	1.87	1.96	2.05	2.15	2.25	2.36	2.47	2.59	2.72	2.85	2.98	3.13	3.28	164.07	3.44	160.64	4 3
4 5	Connecticut Water		Merger		53.3%	(0.00)	(55.07)	1.18	1.24	1.31	1.38	1.45	1.52	1.66	1.79	1.90	1.99	2.08	2.18	2.29	2.40	2.51	2.63	2.76	2.89	3.03	3.18	3.33	3.49	3.66	3.83	4.02	4.21	4.41	4.62		232.49	5.08	227.41	5 <mark>4</mark>
5 7	Middlesex Water		Small-Cap		50.2%	0.00		0.86	0.91	0.96	1.01	1.06	1.11	1.21	1.30	1.38	1.45	1.52	1.59	1.67	1.75	1.83	1.92	2.01	2.11	2.21	2.31	2.43	2.54	2.66	2.79	2.93	3.07	3.21	3.37			3.70	151.21	7 5
<mark>6</mark> 8	SJW	Merger	Merger		54.1%	0.00	(55.16)	1.04	1.12	1.19	1.27	1.36	1.45	1.62	1.78	1.91	2.00	2.10	2.20	2.31	2.42	2.53	2.65	2.78	2.91	3.05	3.20	3.36	3.52	3.69	3.86	4.05	4.24	4.45	4.66			5.12	230.30	8 6
7 9	York Water	Yes	Small Cap	7.7%	46.3%	0.00	(29.07)	0.65	0.70	0.77	0.84	0.92	1.00	1.11	1.20	1.28	1.34	1.41	1.47	1.54	1.62	1.70	1.78	1.86	1.95	2.05	2.14	2.25	2.36	2.47	2.59	2.71	2.84	2.98	3.12	3.27	125.78	3.43	122.35	9 <mark>7</mark>
	TOTALS	7	4		Mean		l																																	
					50.05%	0%		O Screen																																
				7.32%	51.41%	0%				(Low-Cap	= Small-	& Mid-C	ap)																											
				7.55%	48.23%	0%	VL Sma	all-Cap) H	20 Scree	n																														
	_																																							
B.O.\	'. Cash Flo	WS		Staff			N	/lodel	Х																															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
•	-	ŭ	•	ŭ	Terminal	1 '	·	•		••				.0		••	.0							0			0			٥.	J_	30				٠.			.0	
					Value ee	I		2017	2010	2040	2020	2024	2022	2022	2024	2025	2020	2027	2020	2020	2020	2024	2022	2022	2024	2025	2026	2027	2020	2020	2040	2014	2042	2042	2044	2045	2045			

						Terminal	ı																																		
						Value as	:		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2045			
8	Screen	Abbreviated	UW 174	UW 174		% of	NPV @	Recent		In	itial Stage	n			Trai	nsition S	itage											Final Sta	10									Terminal	2046	2046	Screen
	#	Utility	VL Group	VL Low-Cap	IRR	NPV _{DIV}	IRR	Price			a. Otag						.ugo											ma ota,	,-									Value	Div	Perpetuity	#
1	1	American States	Yes	Mid-Cap	7.25%	52.1%	(0.00)	(53.80)	1.07	1.16	1.25	1.35	1.45	1.61	1.74	1.86	1.95	2.05	2.14	2.25	2.35	2.47	2.59	2.71	2.84	2.98	3.12	3.27	3.43	3.59	3.76	3.94	4.13	4.33	4.54	4.76	4.98	228.87	5.22	223.65	1 1
2	3	Aqua America	Yes	Large-Cap	8.07%	42.3%	0.00	(34.82)	0.85	0.94	1.03	1.14	1.25	1.39	1.52	1.63	1.71	1.79	1.87	1.96	2.06	2.16	2.26	2.37	2.48	2.60	2.73	2.86	3.00	3.14	3.29	3.45	3.61	3.79	3.97	4.16	4.36	151.16	4.57	146.59	3 2
3	4	California Water	Yes	Mid-Cap	7.16%	52.4%	0.00	(38.63)	0.75	0.81	0.88	0.95	1.02	1.12	1.21	1.28	1.35	1.41	1.48	1.55	1.62	1.70	1.78	1.87	1.96	2.05	2.15	2.25	2.36	2.47	2.59	2.72	2.85	2.98	3.13	3.28	3.44	163.78	3.60	160.18	4 3
4	5	Connecticut Water	Merger	Merger	7.26%	51.6%	0.00	(55.07)	1.24	1.31	1.38	1.45	1.52	1.66	1.79	1.90	1.99	2.08	2.18	2.29	2.40	2.51	2.63	2.76	2.89	3.03	3.18	3.33	3.49	3.66	3.83	4.02	4.21	4.41	4.62	4.85	5.08	232.42	5.32	227.09	5 4
5	7	Middlesex Water	Yes	Small-Cap	7.49%	48.4%	0.00	(36.60)	0.91	0.96	1.01	1.06	1.11	1.21	1.30	1.38	1.45	1.52	1.59	1.67	1.75	1.83	1.92	2.01	2.11	2.21	2.31	2.43	2.54	2.66	2.79	2.93	3.07	3.21	3.37	3.53	3.70	154.85	3.88	150.97	7 5
6	8	SJW	Merger	Merger	7.25%	52.2%	0.00	(55.16)	1.12	1.19	1.27	1.36	1.45	1.62	1.78	1.91	2.00	2.10	2.20	2.31	2.42	2.53	2.65	2.78	2.91	3.05	3.20	3.36	3.52	3.69	3.86	4.05	4.24	4.45	4.66	4.88	5.12	234.91	5.36	229.55	8 6
7	9	York Water	Yes	Small Cap	7.89%	44.1%	0.00	(29.07)	0.70	0.77	0.84	0.92	1.00	1.11	1.20	1.28	1.34	1.41	1.47	1.54	1.62	1.70	1.78	1.86	1.95	2.05	2.14	2.25	2.36	2.47	2.59	2.71	2.84	2.98	3.12	3.27	3.43	125.28	3.59	121.69	9 7
		TOTALS	7	6		Mean																																			
					7.57%	47.88%	0%	VL H2C	Screen																																
					7.45%	48.50%	0%	VL (Lov	v Cap) H20	Screen	(Low-Ca	p = Small-	& Mid-C	ap)																											
					7.69%	46.26%	0%	VL Sma	all-Cap) H2	O Screen																															

	Avera	ge B.O.Y. 8	ξ E.O.\	/. Cash	Flows			M	lodel		X	
	1	2	3	4	5	6	7	8	9			
						Terminal				_		
						Value as	Aver	age 2017 -	2021	ĺ		
Ī	Screen	Abbreviated	UW 174	UW 174	Average	% of	Divide	end Growth	Rates	Screen		
	#	Utility	VL Group	VL Low-Cap	IRR	NPV_{DIV}	EOY	BOY	Average	#		
1	1	American States	Yes	Mid-Cap	7.19%	53.1%	8.1%	7.9%	8.0%	1	1	
2	3	Aqua America	Yes	Large-Cap	7.98%	43.5%	9.6%	10.0%	9.8%	3	2	
3	4	California Water	Yes	Mid-Cap	7.10%	53.8%	7.2%	8.0%	7.6%	4	3	1
4	5	Connecticut Water	Merger	Merger	7.20%	52.4%	5.3%	5.3%	5.3%	5	4	
5	7	Middlesex Water	Yes	Small-Cap	7.43%	49.3%	5.4%	5.2%	5.3%	7	5	
6	8	SJW	Merger	Merger	7.19%	53.1%	6.9%	6.6%	6.8%	8	6	1
7	9	York Water	Yes	Small Cap	7.81%	45.2%	9.1%	9.3%	9.2%	9	7	1
		TOTALS	7	6		Mean						-
					7.50%	48.96%	8%	VL H2C	Screen .			
					7.38%	50.34%	7%	VL (Lov	v Cap) H20	Screen	(Low-Ca	p = Small- & Mid-Cap)
					7.62%	47.25%	7%	VL Sma	all-Cap) H2	O Screen		



	B.O.Y	. Cash Flow	NS			Staff			Mode		Υ	EPS G	rowth																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
						Terminal	l																																			
_		1			_	Value as	<u> </u>		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	4				
	Screen	Abbreviated	UW 174	UW 174		% of	NPV @	Recent		In	itial Stage				Tra	ansition S	Stage											Final Stag	ne er								,	Terminal	2046	2046		
	#	Utility	VL Group	VL Low-Cap	IRR	NPV _{DIV}	IRR	Price*			a. Olago						.ugo											mai Otaş	,-									Value	Div	Sale	2047	#
1	1	American States	Yes	Mid-Cap	7.5%	53.6%	0.00	(53.80)	1.07	1.16	1.25	1.35	1.45	1.61	1.74	1.86	1.95	2.05	2.14	2.25	2.35	2.47	2.59	2.71	2.84	2.98	3.12	3.27	3.43	3.59	3.76	3.94	4.13	4.33	4.54	4.76	4.98	252.67	5.22	247.45	,	1 1
				е	9				1.88	1.85	1.99	2.13	2.29	2.45	2.68	2.90	3.08	3.23	3.39	3.55	3.72	3.90	4.08	4.28	4.49	4.70	4.93	5.16	5.41	5.67	5.94	6.23	6.53	6.84	7.17	7.51	7.87	L	8.25	ullet	8.65	
2	3	Aqua America	Yes	Large-Cap	8.5%	45.4%	0.00	(34.82)	0.85	0.94	1.03	1.14	1.25	1.39	1.52	1.63	1.71	1.79	1.87	1.96	2.06	2.16	2.26	2.37	2.48	2.60	2.73	2.86	3.00	3.14	3.29	3.45	3.61	3.79	3.97	4.16	4.36	183.81	4.57	179.24	, '	3 2
		0.17	.,	е	7.00/	E0 101	2.00	(00.00)	1.35	1.40	1.52	1.66	1.81	1.95	2.15	2.33	2.48	2.60	2.72	2.85	2.99	3.13	3.28	3.44	3.60	3.78	3.96	4.15	4.35	4.56	4.78	5.01	5.25	5.50	5.76	6.04	6.33	107.05	6.63	10105	6.95	
3	4	California Water	Yes	Mid-Cap	7.6%	56.1%	0.00	(38.63)	0.75	0.81	0.88	0.95	1.02	1.12	1.21	1.28	1.35	1.41	1.48	1.55	1.62	1./0	1./8	1.87	1.96	2.05	2.15	2.25	2.36	2.47	2.59	2.72	2.85	2.98	3.13	3.28 6.12	3.44	197.85	3.60 6.72	194.25	7 04	4 3
4	E	Canacation t Water	Mayees	Merger	7.60/	F2 70/	0.00	(EE 07)	1.40	1.55	1.03	1.72	1.81	1.90	4.70	2.34	2.51	2.63	2./6	2.89	3.03	3.17	3.32	3.48	3.05	3.83	4.01	2.22	4.40	4.62	4.84	5.07	5.31	5.57	5.84	0.12	6.41	200 27		261.05	7.04	5 4
4	э	Connecticut Water	Merger	werger	7.6%	53.7%	0.00	(55.07)	1.24 2.13	1.31	1.38	1.45	1.52	1.66	1.79	1.90	1.99	2.08	2.18	2.29	2.40	2.51	2.03	2.76	2.89	5.03	5.18	3.33	3.49	3.66	3.83	4.02	4.21	4.41	4.62	4.85 8.77	5.08 9.19	266.37	5.32 9.63	261.05	10.10	5 <mark>4</mark>
5	7	Middlesex Water	Yes	Small-Cap	8.2%	52.7%	0.00	(36.60)	0.91	0.96	1.01	1.06	1 11	1.90	1 30	1 38	1.45	1.52	1.59	1.67	1.75	1.00	1.02	2.00	2.24	2 21	2.73	2.43	2.54	2.66	2.70	2.03	3.07	3 21	3.37	3.53	0.10	205.30	3.88	201.42	10.10	7 5
ľ	,	Wildulesex Water	163	Oman-Cap	0.276	32.776	0.00	(30.00)	1.38	1.55	1.67	1.00	1.11	2 10	2 33	2.54	2.71	2 84	2 97	3 12	3 27	3.42	3 50	3.76	3 94	4 13	4 33	4.53	4.75	4 QR	5 22	5.47	5.73	6.01	6.30	6.60	6.91	200.00	7.25	201.42	7.59	, ,
6	8	SJW	Merger	Merger	7.3%	52.5%	0.00	(55.16)	1.12	1.19	1.27	1.36	1.45	1.62	1.78	1.91	2.00	2.10	2.20	2.31	2.42	2.53	2.65	2.78	2.91	3.05	3.20	3.36	3.52	3.69	3.86	4.05	4.24	4.45	4.66	4.88		239.95	5.36	234.58	7.00	8 6
				e	2			(00110)	2.86	2.85	2.99	3.14	3.30	3.45	3.78	4.08	4.34	4.54	4.76	4.99	5.23	5.48	5.74	6.02	6.31	6.61	6.93	7.26	7.61	7.98	8.36	8.76	9.18	9.62	10.08	10.57	11.07		11.61		12.16	
7	9	York Water	Yes	Small Cap	8.4%	47.3%	0.00	(29.07)	0.70	0.77	0.84	0.92	1.00	1.11	1.20	1.28	1.34	1.41	1.47	1.54	1.62	1.70	1.78	1.86	1.95	2.05	2.14	2.25	2.36	2.47	2.59	2.71	2.84	2.98	3.12	3.27	3.43	153.04	3.59	149.44	,——	9 7
				е	•				1.05	1.10	1.19	1.29	1.40	1.51	1.66	1.81	1.92	2.02	2.11	2.22	2.32	2.43	2.55	2.67	2.80	2.93	3.08	3.22	3.38	3.54	3.71	3.89	4.07	4.27	4.48	4.69	4.92	1	5.15	1 1	5.40	
		TOTALS	7	6		Mean																																				
					8.05%	51.03%	0%	VL H2	O Screen																																	
					7.93%	52.43%	0%		w Cap) H2O		(Low-Ca	ap = Smal	- & Mid-C	ар)																												
					8.28%	51.21%	0%	VL Sm	all-Cap) H20	O Screen																																

	Avera	ge B.O.Y. 8	& E.O.Y	′. Cash l	Flows					Model	Υ	EPS Growth
	1	2	3	4	5	6	7	8	9			
						Terminal				_		
						Value as	Aver	age 2016 -	2020			
	Screen	Abbreviated	UW 174	UW 174	Average	% of	Divide	end Growth	Rates	Screen	1	
	#	Utility	VL Group	VL Low-Cap	IRR	NPV _{DIV}	EOY	BOY	Average	#		
1	1	American States	Yes	Mid-Cap	7.4%	54.6%	8.1%	7.9%	8.0%	1	1]
2	3	Aqua America	Yes	Large-Cap	8.4%	46.5%	9.6%	10.0%	9.8%	3	2	
3	4	California Water	Yes	Mid-Cap	7.6%	57.0%	7.2%	8.0%	7.6%	4	3	
4	5	Connecticut Water	Merger	Merger	7.5%	54.5%	5.3%	5.3%	5.3%	5	4	
5	7	Middlesex Water	Yes	Small-Cap	8.1%	53.6%	5.4%	5.2%	5.3%	7	5	1
6	8	SJW	Merger	Merger	7.2%	53.4%	6.9%	6.6%	6.8%	8	6	1
7	9	York Water	Yes	Small Cap	8.3%	48.3%	9.1%	9.3%	9.2%	9	7	
		TOTALS	7	6		Mean						
					7.98%	52.55%	7.4%	VL H20	Screen Screen			
					7.86%	53.56%	7.0%	VL (Lo	w Cap) H2	O Screen	(Low-Ca	ap = Small- & Mid-Cap
					8.21%	52.12%	6.6%	VL Sm	all-Cap) H	20 Screen		

Simple Discounted Cash Flow (DCF) Model

AKA: Gordon Growth Model

This simple model presumes that whatever is happening next quarter will happen forever.

Р 0 $(1+L)^{1/4}-1$ (O/F)*(1+N) $(1+L+J)^4-1$

		_							Company	Quarterly	"Last"	t+1		SIMPLE DCF RO	E		
				Staff	Staff	Recent	٧L	VL	"Combined	Co.	Q-4 \$	Dividend		Staff	Staff		
			Staff	Low Cap	Small Cap	Stock	EPS	EPS	LT Growth	Growth	Quarterly	Yield	Staff	Low Cap	Small Cap		
	Utility	Ticker	Peers	Sensitivity	Sensitivity	Price	2017	2020-2022	Rate"	Rate	Dividend	Co. Growth Rate	Peers	Sensitivity	Sensitivity	Utility	
1	American States	AWR	Yes	Yes	No	53.80	1.88	2.29	6.2%	1.5%	0.2475	0.47%	8.16%	8.16%		American States	1
2	Aqua America	WTR	Yes	No	No	34.82	1.35	1.81	6.7%	1.6%	0.1975	0.58%	9.19%			Aqua America	2
3	California Water	CWT	Yes	Yes	No	38.63	1.40	1.81	9.6%	2.3%	0.1800	0.48%	11.61%	11.61%		California Water	3
4	Middlesex Water	MSEX	Yes	Yes	Yes	65.57	1.38	1.96	7.8%	1.9%	0.2150	0.33%	9.26%	9.26%	9.26%	Middlesex Water	4
5	York Water	YORW	Yes	Yes	Yes	75.19	1.05	1.40	7.1%	1.7%	0.1625	0.22%	8.05%	8.05%	8.05%	York Water	5
-												Average:	9.25%	9.27%	8.65%	i	_

In General, Staff Disagrees with this Simple Gordon Growth DCF Model

However, this model may provide a check on Staff's Three Stage DCF Modeling.

- ❖ Common Stock Flotation Costs Adjustment Shifts Range of Reasonable ROE's Upward by :
- Sensitivity Study to Account for Difference in Capitalization Size -- Maximum Upward Shift: 8.79% **Informed Range of Modeled Results**

1.6

to

12.5 bps bps 9.41% ROE

ROE

This is a tool used to introduce students to certain elementary concepts in finance. If dividends were to grow at a steady rate forever, regardless of everything known otherwise,

then:

 $P_0 = D_1 / (r - g)$

 P_0 The current stock price D_1 The quarterly dividend expected in the next quarter r The cost of equity capital

The perpetual growth rate

Top of Range for Commission Consideration

Point ROE Recommendation

ROE 9.41%

2028 through 2047 TIPs-Implied Average Annual Inflation Rate:

1.99%

Yr. End		Ind	ividually	Implied I	Price Lev	els	Impl	ied Forw	ard Curv	e/Price L	.evel	Implied	
MoYr.	Years	5-Yr	7-Yr	10-Yr	20-Yr	30-Yr	5-Yr	7-Yr	10-Yr	20-Yr	30-Yr	Price Level	Check
Dec-17	0	100.00	100.00	100.00	100.00	100.00	100.00				-	100.00	
Dec-18	1	101.75	101.81	101.87	101.89	101.95	101.75					101.75	
Dec-19	2	103.52	103.65	103.77	103.82	103.93	103.52					103.52	
Dec-20	3	105.33	105.52	105.72	105.79	105.95	105.33					105.33	
Dec-21	4	107.17	107.42	107.69	107.79	108.02	107.17					107.17	
Dec-22	5	109.04	109.37	109.71	109.83	110.12	109.04					109.04	
Dec-23	6		111.34	111.76	111.91	112.26		111.18				111.18	
Dec-24	7		113.35	113.85	114.03	114.45		113.35				113.35	
Dec-25	8			115.98	116.19	116.68			115.64			115.64	
Dec-26	9			118.15	118.39	118.95			117.97			117.97	
Dec-27	10			120.35	120.63	121.26			120.35			120.35	
Dec-28	11				122.91	123.62				122.66		122.66	122.74
Dec-29	12				125.24	126.03				125.01		125.01	125.18
Dec-30	13				127.61	128.48				127.41		127.41	127.67
Dec-31	14				130.03	130.99				129.85		129.85	130.20
Dec-32	15				132.49	133.54				132.34		132.34	132.78
Dec-33	16				135.00	136.13				134.88		134.88	135.42
Dec-34	17				137.56	138.78				137.46		137.46	138.11
Dec-35	18				140.16	141.49				140.10		140.10	140.85
Dec-36	19				142.81	144.24				142.78		142.78	143.65
Dec-37	20				145.52	147.05				145.52		145.52	146.50
Dec-38	21					149.91					148.51	148.51	149.40
Dec-39	22					152.83					151.56	151.56	152.37
Dec-40	23					155.80					154.67	154.67	155.39
Dec-41	24					158.84					157.84	157.84	158.48
Dec-42	25					161.93					161.08	161.08	161.63
Dec-43	26					165.08					164.39	164.39	164.83
Dec-44	27					168.30					167.77	167.77	168.11
Dec-45	28					171.57					171.21	171.21	171.44
Dec-46	29					174.91					174.73	174.73	174.85
Dec-47	30					178.32					178.32	178.32	178.32

Average Quarterly Values for FRB H15 Data

See FRB H.15 Tab for Data Feed Sources.

Staff TIPS Analysis

Quarterly Aggregation

A ¹	verage Mont	thly Inflation	Indexed Ra	ates by Qua	rter	, A	verage Mo	nthly Nomir	nal UST Rat	es by Quar	ter	Implie	d Market	-based In	flationary	/ Expecta	tions
Qtr	TIPS-05m	TIPS-07m	TIPS-10m	TIPS-20m	TIPS-30m	Qtr	UST-05m	UST-07m	UST-10m	UST-20m	UST-30m	Qtr	5-Yr	7-Yr	10-Yr	20-Yr	30-Yr
2003-Q1	1.33	1.81	2.07			2003-Q1	2.91	3.46	3.92	4.90		2003-Q1	1.58	1.65	1.85		
2003-Q2	1.15	1.61	1.94			2003-Q2	2.57	3.13	3.62	4.59		2003-Q2	1.42	1.52	1.68		
2003-Q3	1.36	1.84	2.21			2003-Q3	3.14	3.72	4.23	5.17		2003-Q3	1.78	1.87	2.03		
2003-Q4	1.24	1.65	2.01			2003-Q4	3.25	3.78	4.29	5.16		2003-Q4	2.01	2.13	2.28		
2004-Q1	0.82	1.26	1.71			2004-Q1	2.99	3.52	4.02	4.89		2004-Q1	2.17	2.26	2.31		
2004-Q2	1.26	1.69	2.05			2004-Q2	3.72	4.18	4.60	5.36		2004-Q2	2.47	2.50	2.55		
2004-Q3	1.17	1.55	1.89	2.28		2004-Q3	3.51	3.92	4.30	5.07		2004-Q3	2.34	2.37	2.41	2.79	
2004-Q4	0.93	1.30	1.69	2.08		2004-Q4	3.49	3.85	4.17	4.87		2004-Q4	2.56	2.55	2.48	2.79	
2005-Q1	1.17	1.41	1.71	1.93		2005-Q1	3.88	4.09	4.30	4.76		2005-Q1	2.72	2.68	2.58	2.83	
2005-Q2	1.30	1.44	1.68	1.83		2005-Q2	3.87	3.99	4.16	4.55		2005-Q2	2.57	2.55	2.48	2.72	
2005-Q3	1.59	1.70	1.82	1.98		2005-Q3	4.04	4.11	4.21	4.51		2005-Q3	2.44	2.41	2.39	2.52	
2005-Q4	1.92	1.98	2.04	2.13		2005-Q4	4.39	4.42	4.49	4.77		2005-Q4	2.47	2.44	2.45	2.64	
2006-Q1	2.00	2.05	2.09	2.08		2006-Q1	4.55	4.55	4.57	4.76	4.64	2006-Q1	2.55	2.50	2.48	2.69	
2006-Q2	2.34	2.39	2.46	2.48		2006-Q2	4.99	5.02	5.07	5.29	5.14	2006-Q2	2.65	2.62	2.61	2.80	
2006-Q3	2.37	2.37	2.37	2.38		2006-Q3	4.84	4.85	4.90	5.09	4.99	2006-Q3	2.47	2.48	2.52	2.71	
2006-Q4	2.40	2.36	2.32	2.29		2006-Q4	4.60	4.60	4.63	4.83	4.74	2006-Q4	2.20	2.24	2.31	2.54	
2007-Q1	2.28	2.33	2.33	2.36		2007-Q1	4.65	4.65	4.68	4.90	4.80	2007-Q1	2.36	2.32	2.35	2.54	
2007-Q2	2.35	2.40	2.44	2.49		2007-Q2	4.76	4.79	4.85	5.07	4.99	2007-Q2	2.41	2.39	2.41	2.58	
2007-Q3	2.38	2.44	2.45	2.46		2007-Q3	4.50	4.60	4.73	5.01	4.94	2007-Q3	2.13	2.16	2.28	2.55	
2007-Q4	1.54	1.81	1.92	2.11		2007-Q4	3.79	3.98	4.26	4.65	4.61	2007-Q4	2.24	2.17	2.34	2.54	
2008-Q1	0.58	1.02	1.32	1.81		2008-Q1	2.75	3.15	3.66	4.40	4.41	2008-Q1	2.17	2.13	2.34	2.59	
2008-Q2	0.79	1.17	1.48	2.03		2008-Q2	3.16	3.46	3.89	4.59	4.58	2008-Q2	2.37	2.29	2.40	2.56	
2008-Q3	1.18	1.47	1.70	2.16		2008-Q3	3.11	3.44	3.86	4.49	4.45	2008-Q3	1.93	1.96	2.16	2.33	
2008-Q4	2.73	2.92	2.60	2.73		2008-Q4	2.18	2.63	3.25	3.97	3.68	2008-Q4	-0.55	-0.29	0.65	1.24	
2009-Q1	1.37	1.54	1.79	2.34		2009-Q1	1.76	2.23	2.74	3.69	3.45	2009-Q1	0.39	0.69	0.95	1.35	
2009-Q2	1.12	1.37	1.72	2.31		2009-Q2	2.23	2.88	3.31	4.19	4.17	2009-Q2	1.11	1.51	1.60	1.88	
2009-Q3	1.17	1.41	1.74	2.22		2009-Q3	2.47	3.12	3.52	4.28	4.32	2009-Q3	1.30	1.72	1.77	2.06	
2009-Q4	0.58	0.94	1.37	1.98		2009-Q4	2.30	2.98	3.46	4.27	4.33	2009-Q4	1.72	2.04	2.09	2.29	
2010-Q1	0.47	0.94	1.43	2.00	2.16	2010-Q1	2.42	3.16	3.72	4.49	4.62	2010-Q1	1.96	2.22	2.28	2.49	2.47
2010-Q2	0.46	0.91	1.36	1.77	1.88	2010-Q2	2.25	2.93	3.49	4.20	4.37	2010-Q2	1.80	2.03	2.13	2.43	2.49
2010-Q3	0.20	0.57	1.06	1.68	1.76	2010-Q3	1.55	2.19	2.79	3.60	3.85	2010-Q3	1.35	1.63	1.73	1.92	2.09
2010-Q4	-0.11	0.28	0.75	1.48	1.65	2010-Q4	1.49	2.18	2.86	3.84	4.16	2010-Q4	1.59	1.90	2.12	2.36	2.51
2011-Q1	0.07	0.67	1.09	1.71	2.00	2011-Q1	2.12	2.83	3.46	4.32	4.56	2011-Q1	2.05	2.16	2.37	2.61	2.56
2011-Q2	-0.29	0.33	0.80	1.49	1.78	2011-Q2	1.86	2.55	3.21	4.07	4.34	2011-Q2	2.15	2.22	2.41	2.57	2.56
2011-Q3	-0.65	-0.22	0.28	0.95	1.25	2011-Q3	1.15	1.78	2.43	3.34	3.70	2011-Q3	1.81	2.00	2.15	2.39	2.45
2011-Q4	-0.75	-0.39	0.05	0.61	0.85	2011-Q4	0.95	1.50	2.05	2.75	3.04	2011-Q4	1.71	1.89	1.99	2.14	2.19
2012-Q1	-1.02	-0.60	-0.17	0.51	0.78	2012-Q1	0.90	1.44	2.04	2.80	3.14	2012-Q1	1.92	2.04	2.20 2.17	2.29	2.36
2012-Q2	-1.08	-0.75	-0.35	0.35	0.66	2012-Q2	0.79	1.24	1.82	2.55	2.94	2012-Q2	1.86	1.99		2.21	2.28
2012-Q3	-1.27	-1.01	-0.63	0.02	0.43	2012-Q3	0.67	1.08	1.64	2.37	2.75	2012-Q3	1.94	2.09	2.28	2.35	2.31
2012-Q4	-1.42	-1.15	-0.76	-0.02	0.36	2012-Q4	0.69	1.12	1.71	2.46	2.86	2012-Q4	2.11	2.27	2.47	2.48	2.50
2013-Q1	-1.40	-0.98	-0.59	0.19	0.56	2013-Q1	0.83	1.32	1.95	2.75	3.14	2013-Q1	2.23	2.31	2.54	2.55	2.58
2013-Q2	-1.04	-0.62	-0.25	0.47	0.80	2013-Q2	0.92	1.39	2.00	2.78	3.15	2013-Q2	1.95	2.01	2.25	2.32	2.34
2013-Q3	-0.32	0.17	0.56	1.16	1.43	2013-Q3	1.51	2.12	2.71	3.44	3.72	2013-Q3	1.82	1.95	2.15	2.29	2.29
2013-Q4	-0.29	0.25	0.57	1.19	1.50	2013-Q4	1.44	2.12	2.75	3.50	3.79	2013-Q4	1.73	1.86	2.17	2.31	2.29
2014-Q1	-0.16	0.37	0.58	1.11	1.39	2014-Q1	1.60	2.22	2.76	3.42	3.68	2014-Q1	1.77	1.85	2.18	2.30	2.29
2014-Q2	-0.25	0.27	0.43	0.88	1.14	2014-Q2	1.66	2.19	2.62	3.18	2.87	2014-Q2	1.90	1.92	2.20	2.30	1.73
2014-Q3	-0.13	0.24	0.32	0.72	0.98	2014-Q3	1.70	2.16	2.50	3.01	3.26	2014-Q3	1.83	1.92	2.18	2.28	2.29
2014-Q4	0.19	0.39	0.45	0.75	0.95	2014-Q4	1.60	2.00	2.28	2.69	2.97	2014-Q4	1.41	1.61	1.83	1.95	2.02
2015-Q1	0.11	0.23	0.27	0.52	0.71	2015-Q1	1.45	1.77	1.97	2.32	2.55	2015-Q1	1.35	1.54	1.70	1.79	1.85
2015-Q2	-0.10	0.22	0.30	0.67	0.91	2015-Q2	1.52	1.91	2.17	2.62	2.89	2015-Q2	1.63	1.69	1.86	1.95	1.97
2015-Q3	0.26	0.48	0.57	0.92	1.14	2015-Q3	1.55	1.94	2.22	2.65	2.96	2015-Q3	1.29	1.47	1.65	1.73	1.82
2015-Q4	0.36	0.51	0.66	1.02	1.24	2015-Q4	1.59	1.94	2.19	2.60	2.96	2015-Q4	1.23	1.43	1.53	1.58	1.72
2016-Q1	0.15	0.32	0.49	0.88	1.11	2016-Q1	1.37	1.69	1.92	2.32	2.72	2016-Q1	1.23	1.37	1.43	1.45	1.61
2016-Q2	-0.24	-0.05	0.19	0.62	0.85	2016-Q2	1.24	1.54	1.75	2.15	2.57	2016-Q2	1.48	1.58	1.56	1.53	1.72
2016-Q3	-0.22	-0.09	0.08	0.44	0.62	2016-Q3	1.13	1.40	1.56	1.91	2.28	2016-Q3	1.35	1.49	1.48	1.47	1.66
2016-Q4	-0.06	0.12	0.33	0.69	0.86	2016-Q4	1.61	1.93	2.13	2.52	2.82	2016-Q4	1.67	1.80	1.80	1.83	1.96
2017-Q1	0.07	0.33	0.44	0.75	0.95	2017-Q1	1.94	2.25	2.44	2.78	3.04	2017-Q1	1.87	1.92	2.01	2.03	2.10
2017-Q2	0.10	0.30	0.44	0.76	0.94	2017-Q2	1.81	2.07	2.26	2.64	2.90	2017-Q2	1.71	1.78	1.82	1.88	1.96
	0.17	0.36	0.45	0.75	0.94	2017-Q3	1.82	2.06	2.24	2.58	2.82	2017-Q3	1.65	1.70	1.79	1.83	1.88
2017-Q3	0.17	0.00	00	00	0.0.												

Staff

Staff Accessed , Mar.8, 2018 at: RIFLGFCY07_N.M RIFLGFCY10_N.M RIFLGFCY07_XII RIFLGFCY10_XII RIFLGFCY20 XII UST-07m UST-10n TIPS-07m TIPS-10m TIPS-20m TIPS-30m n UST-20m UST-30r 3.05 2.90 2.78 2.93 2.29 2.27 2.87 3.18 3.19 3.27 3.12 3.07 2.79 3.18 3.09 3.27 4.17 4.17 4.00 3.85 3.77 4.17 4.10 4.03 4.45 4.03 4.45 4.39 4.35 2003-01 2003-02 2003-03 2003-04 2003-05 1.99 1.94 2.18 1.91 1.72 2.11 2.32 2.19 2.08 1.96 1.98 1.76 1.47 3.45 3.34 3.47 3.07 2.84 3.45 3.96 3.74 3.75 3.81 3.79 3.90 3.81 3.93 3.98 4.27 4.15 4.29 4.30 4.27 4.15 4.28 4.29 4.20 4.10 4.19 4.21 4.22 4.33 4.10 4.14 4.24 4.27 4.50 4.28 4.29 4.30 4.29 4.30 4.29 4.30 4.29 4.30 4.29 4.30 4.20 4.30 2003-05 2003-05 2003-06 2003-07 2003-08 2003-09 2003-10 2003-11 2003-12 2003-06 2003-00 2003-07 2003-09 2003-10 2003-11 2003-12 2004-01 2004-02 2004-03 2004-04 2004-05 2004-06 2004-07 2004-08 2004-11 2004-12 2004-12 3.59 3.31 3.89 4.31 4.35 3.75 3.75 3.88 3.93 4.16 3.94 4.38 4.08 4.48 4.48 4.44 4.41 2004-02 2004-03 2004-04 2004-05 2004-06 2004-07 2004-08 2004-09 2004-10 2004-11 2004-12 1.90 2.09 2.15 2.02 1.86 1.80 1.73 1.68 1.67 1.72 1.63 1.79 TIPS-20 2.44 2.23 2.16 2.09 2.02 1.98 1.85 1.95 1.87 1.82 2.00 2.02 1.93 2.09 2.16 2.14 2005-02 2005-03 2005-02 2005-03 2005-04 2005-06 2005-07 2005-08 2005-09 2005-10 2005-11 2005-12 2006-01 2005-04 2005-05 2005-06 2005-07 2005-08 2005-09 2005-10 2005-11 2005-12 2006-01 1.71 1.65 1.67 1.88 1.89 1.70 1.94 2.06 2.12 4.54 4.73 5.06 2.05 2.20 2.41 2.45 2.53 2.51 2.05 2.01 2.17 2.43 2.48 2.54 2.54 2006-02 2006-03 2006-02 2006-03 2006-04 2006-04 2006-05 2006-06 2006-07 2006-05 2006-06 2006-07 2006-07 2006-08 2006-09 2006-10 2006-11 2006-12 2007-01 2007-02 2.29 2.32 2.41 2.29 2.31 2.31 2.38 2.23 2006-08 2006-09 2006-10 2006-11 2.25 2.44 2.36 2.18 2.26 2.37 2.69 2.26 2.42 2.38 2.27 2.35 2.45 2.67 2006-1 2.47 2.34 2.04 2.12 2.29 2.65 2007-03 2007-04 2007-05 2007-06 2007-03 2007-04 2007-05 2007-06 2007-07 2007-08 2007-09 2007-10 2007-11 2007-12 2008-01 2008-02 2008-03 2008-04 2.60 2.39 2.14 2.01 1.35 1.27 0.86 0.65 0.23 0.62 0.79 0.84 1.15 2.75 3.69 1.76 1.59 1.29 1.23 1.11 1.07 2.64 2.44 2.26 2.20 1.77 1.79 1.47 1.41 1.09 1.36 1.46 2.62 2.47 2.30 2.26 1.99 2.08 1.81 1.87 1.76 1.91 2.00 2.19 2.09 2.15 2007-07 2007-08 2007-09 2007-10 2007-11 2007-12 2008-01 2008-02 2008-03 2008-04 2008-05 2008-05 1.46 1.63 1.57 1.68 1.85 2.75 2.89 2008-06 2008-07 2008-08 2008-06 2008-07 2008-08 2008-09 2008-10 2008-11 2.25 2.87 3.00 2008-09 2008-10 2008-11 2008-12 2009-01 2009-02 2009-03 2009-04 2009-05 2009-06 2009-07 2008-12 2009-01 2009-02 2009-03 2009-04 3.18 3.46 3.83 3.78 4.22 4.51 4.38 4.33 4.14 4.16 4.24 4.40 4.50 4.48 4.49 3.80 3.52 3.80 3.52 3.82 3.82 3.82 3.83 2.17 1.91 1.75 1.71 1.57 1.72 1.86 1.82 1.77 1.64 1.48 1.28 1.36 2.32 2.46 2.31 2.26 2.36 2.36 2.31 2.22 2.04 1.90 2.00 2.03 1.98 1.72 1.69 1.69 1.55 1.58 1.58 2.87 3.13 3.59 4.23 4.52 4.41 4.37 4.60 4.62 4.64 4.69 4.29 4.13 3.99 3.80 3.87 4.19 2009-05 2009-06 2009-07 2009-07 2009-09 2009-10 2009-11 2009-12 2010-01 2009-08 2009-09 2009-10 2009-11 2009-12 2010-01 2010-02 2010-03 2010-04 2010-05 2010-06 2010-07 1.29 1.03 0.83 0.48 0.42 0.42 0.56 0.62 0.41 0.34 0.13 -0.32 -0.21 1.42 1.51 1.50 1.31 1.26 1.24 1.02 0.91 0.53 0.67 2.16 2.15 2.05 1.83 1.77 1.87 1.76 1.66 1.44 1.61 2010-08 2010-09 2010-10 2010-11 2010-09 2010-10 2010-11 0.21 0.06 0.25 -0.09 -0.14 -0.34 -0.38 -0.49 -0.75 -0.72 -0.63 0.65
0.62
0.62
0.84
0.54
0.09
0.21
0.09
-0.36
-0.39
-0.28
-0.46
-0.44
-0.55
-0.79
-0.82
-0.94
-1.17
-1.13
-1.13
-1.094
-0.97
-0.89
-0.91
-0.97
-0.90
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91
-0.91 2010-12 2011-01 2011-02 2011-03 2011-04 2011-05 2011-06 2011-07 2011-08 2011-09 2011-10 2011-11 2010-12 2011-01 2011-02 2011-03 2011-04 2011-05 2011-06 2011-07 2011-08 2011-09 2011-10 1.04 1.06 1.24 0.96 0.86 0.78 0.76 0.62 0.14 0.08 0.19 1.67
1.70
1.85
1.58
1.48
1.47
1.53
1.36
0.81
0.69
0.72
0.55
0.56
0.51
0.44
0.10
-0.01
0.06
0.02
-0.01
-0.06
0.000 1.89
1.97
2.13
1.89
1.79
1.77
1.78
1.62
0.99
0.78
0.78
0.74
0.72
0.87
0.69
0.39
0.47
0.41
0.35
0.33 4.17 4.28 4.27 4.28 4.01 3.91 3.95 3.24 2.83 2.87 2.72 2.67 2.70 2011-11 -0.85 -0.78 -0.92 -0.92 -1.01 -1.03 -1.06 -1.15 -1.15 -1.19 -1.47 -1.47 -1.39 -1.39 -1.43 -1.14 -0.59 -0.45 -0.33 0.00 2011-11 2011-12 2012-01 2012-02 2012-03 2012-04 2012-05 2012-06 2012-07 2012-08 -0.03 -0.11 -0.25 -0.14 -0.21 -0.34 -0.50 -0.60 -0.59 -0.71 -0.75 -0.77 -0.76 2011-12 2012-01 2012-02 2012-03 2012-04 2012-05 2012-06 2012-07 2012-08 2012-09 2012-10 2012-11 2.75 2.94 2.82 2.53 2.31 2.22 2.40 2.49 2.51 2.39 2.47 2012-09 2012-10 2012-11 2012-12 2012-12 2013-01 2013-02 2013-03 2013-04 2013-05 2013-06 2013-07 2013-08 -0.61 -0.57 -0.59 -0.65 -0.36 0.25 0.46 0.55 0.66 0.43 0.48 0.57 0.62 **0.48 0.72 1.21** 1.34 1.44 1.50 2.68 2.78 2.78 2.55 2.73 3.07 3.31 3.49 3.53 3.38 0.20 0.19 0.19 0.07 0.35 0.98 1.09 1.16 1.22 2013-09 **2013-10** 2013-11 -0.38 0.18 0.55 1.51 2013-11 2.07 2.72 3.50 3.80 2013-12 2014-01 2014-01 2014-02 2014-01 2014-02 2014-03 2014-04 2014-05 2014-06 2014-07 2014-08 2014-09 2014-08 2014-09 2014-08 2014-09 2015-03 2015-04 2015-03 2015-04 2015-03 2015-06 2015-07 2015-08 2015-06 2015-07 2015-08 2015-09 2015-10 2015-1 -0.09
-0.10
-0.26
-0.14
-0.37
-0.21
-0.10
-0.16
-0.17
-0.17
-0.17
-0.17
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19
-0.19 2013-12 2014-01 2014-02 2014-03 2014-04 2014-05 2014-06 2014-07 2014-08 2014-09 2014-10 2014-12 2015-01 2015-02 2015-03 2015-05 2015-05 2015-06 2015-07 2015-08 2015-09 2015-10 2015-12 2016-01 2016-02 2016-03 2016-06 2016-08 2016-08 2016-08 2016-08 2016-09 2016-10 2016-12 2017-01 2017-02 2016-12 2017-01 2017-02 2017-03 2017-04 2017-05 2017-06 2017-07 2017-08 2017-09 2017-02 2017-03 2017-04 2017-05 2017-06 2017-07 2017-08 2017-09 2017-10 UG 344 NWN

FRB H.15 Market Yield on U.S. Treasury (UST) Securities at Constant Maturity, Quoted on an Investment Basis in Percent per Year

State 1.5														
Accessed Mar. 8, 2018 at: http://federalreserve.gov/releases/h15/data.htm													Stat	FF
Name	f Acces	sed, Mar. 8	3, 2018 at:										Otal	•
Page TipS-05a TipS-07a TipS-10a TipS-20a TipS-30a Ti	S-05a S-07a S-10a S-20a	7 10 20	Year	Inflation		RIFLGFCY0 RIFLGFCY1 RIFLGFCY2	5_XII_N.A 7_XII_N.A 0_XII_N.A 0_XII_N.A	UST-05a UST-07a UST-10a UST-20a	7 10 20	Year	H.15 ID	RIFLGFC\\ RIFLGFC\	/07_N.A /10_N.A /20_N.A	
004 1.04 1.45 1.83 2.14 2004 3.43 3.87 4.27 5.04 005 1.50 1.63 1.81 1.97 2005 4.05 4.15 4.29 4.64 006 2.28 2.29 2.31 2.31 2006 4.75 4.76 4.80 5.00 4.91 008 1.30 1.63 1.77 2.18 2007 4.43 4.51 4.63 4.91 4.84 009 1.06 1.32 1.66 2.21 2009 2.20 2.82 3.26 4.11 4.08 4.29 010 0.28 0.68 1.15 1.73 1.82 2010 1.93 2.62 3.22 4.03 4.25 011 -0.41 0.09 0.55 1.19 1.47 2011 1.52 2.16 2.78 3.62 3.91 012 -1.19 -0.87 -0.48 0.22 0.56 201 1.52 2.1	'ear	TIPS-05a			TIPS-20a			Year	UST-05a			UST-20a	UST-30a	ļ
011	004 005 006 007 008 009	1.04 1.50 2.28 2.15 1.30 1.06	1.45 1.63 2.29 2.25 1.63 1.32	1.83 1.81 2.31 2.29 1.77 1.66	1.97 2.31 2.36 2.18 2.21			2004 2005 2006 2007 2008 2009	3.43 4.05 4.75 4.43 2.80 2.20	3.87 4.15 4.76 4.51 3.17 2.82	4.27 4.29 4.80 4.63 3.66 3.26	5.04 4.64 5.00 4.91 4.36 4.11	4.84 4.28 4.08	
917 0.17 0.36 0.48 0.75 0.92	011 012 013 014 015	-0.41 -1.19 0.76 -0.09 0.15	0.09 -0.87 -0.29 0.32 0.36	0.55 -0.48 0.07 0.44 0.45	1.19 0.22 0.75 0.86 0.78	1.47 0.56 1.07 1.11 1.00		2011 2012 2013 2014 2015	1.52 0.76 1.17 1.64 1.53	2.16 1.22 1.74 2.14 1.89	2.78 1.80 2.35 2.54 2.14	3.62 2.54 3.12 3.07 2.55	3.91 2.92 3.45 3.34 2.84	

tn-//www.	Annual s.bea.gov/national	urrent-Dollar and "Real"		tic Product (GI Quarterly onally adjusted		Mar	ch 6, 2018 1980 t	hrough 20)17 O4	
Yr	GDP in billions of current		Quarter	GDP in billions of	GDP in billions of	Qtr#	Average	2.67%	Real	OLS Regression
1929	dollars 104.6	dollars 1,056.6	1947Q1	dollars 243.1	chained 2009 dollars 1,934.5	1	1	8.783381	1980	Annualized Real LN GPD
1930 1931	92.2 77.4 59.5	966.7 904.8	1947Q2 1947Q3	246.3 250.1	1,932.3 1,930.3	2 3 4	2 3 4	8.762896 8.761378 8.779742		2.76%
1932 1933 1934	57.2 66.8	788.2 778.3 862.2	1947Q4 1948Q1 1948Q2	260.3 266.2 272.9	1,960.7 1,989.5 2,021.9	5 6	5 6	8.800219 8.792899	1981	Regression Statistics
1935 1936 1937	74.3 84.9	939.0 1,060.5	1948Q3 1948Q4 1949Q1	279.5 280.7 275.4	2,033.2 2,035.3	7 8	7 8 9	8.804310 8.792565 8.775704	1982	Multiple R 0.987298453 R Square 0.974758234
1938 1939	93.0 87.4 93.5	1,114.6 1,077.7 1,163.6	1949Q2 1949Q3	271.7 273.3	2,007.5 2,000.8 2,022.8	9 10 11	10 11	8.781125 8.777525	1902	Adjusted R Square 0.974589956 Standard Error 0.048462262 Observations 152
1940 1941 1942	102.9 129.4 166.0	1,266.1 1,490.3 1,771.8	1949Q4 1950Q1 1950Q2	271.0 281.2 290.7	2,004.7 2,084.6 2,147.6	12 13 14	12 13 14	8.778495 8.791516 8.814078	1983	ANOVA df
1943 1944	203.1 224.6	2,073.7 2,239.4	1950Q3 1950Q4	308.5 320.3	2,230.4 2,273.4	15 16	15 16	8.833463 8.853880		Regression 1 Residual 150
1945 1946 1947	228.2 227.8 249.9	2,217.8 1,960.9 1,939.4	1951Q1 1951Q2 1951Q3	336.4 344.5 351.8	2,304.5 2,344.5 2,392.8	17 18 19	17 18 19	8.873552 8.890961 8.900753	1984	Total 151 Coefficients 5
1948 1949	274.8 272.8	2,020.0 2,008.9	1951Q4 1952Q1	356.6 360.2	2,398.1 2,423.5	20 21	20 21	8.908695 8.918583	1985	Intercept 8.795133966 X Variable 1 0.006818244
1950 1951 1952	300.2 347.3 367.7	2,184.0 2,360.0 2,456.1	1952Q2 1952Q3 1952Q4	361.4 368.1 381.2	2,428.5 2,446.1 2,526.4	22 23 24	22 23 24	8.927699 8.943140 8.950611		GD
1953 1954	389.7 391.1	2,571.4 2,556.9	1953Q1 1953Q2	388.5 392.3	2,573.4 2,593.5	25 26	25 26	8.959838 8.964414	1986	an BE
1955 1956 1957	426.2 450.1 474.9	2,739.0 2,797.4 2,856.3	1953Q3 1953Q4 1954Q1	391.7 386.5 385.9	2,578.9 2,539.8 2,528.0	27 28 29	27 28 29	8.974441 8.979606 8.986572	1987	
1958 1959	482.0 522.5	2,835.3 3,031.0	1954Q2 1954Q3	386.7 391.6	2,530.7 2,559.4	30 31	30 31	8.997729 9.006754		
1960 1961 1962	543.3 563.3 605.1	3,108.7 3,188.1 3,383.1	1954Q4 1955Q1 1955Q2	400.3 413.8 422.2	2,609.3 2,683.8 2,727.5	32 33 34	32 33 34	9.023131 9.028735 9.041863	1988	Į.
1963 1964	638.6 685.8	3,530.4 3,734.0	1955Q3 1955Q4	430.9 437.8	2,764.1 2,780.8	35 36	35 36	9.047621 9.060784		United S
1965 1966 1967	743.7 815.0 861.7	3,976.7 4,238.9 4,355.2	1956Q1 1956Q2 1956Q3	440.5 446.8 452.0	2,770.0 2,792.9 2,790.6	37 38 39	37 38 39	9.070814 9.078647 9.086080	1989	Cells
1968 1969	942.5 1,019.9	4,569.0 4,712.5	1956Q4 1957Q1	461.3 470.6	2,836.2 2,854.5	40 41	40 41	9.088195 9.099085	1990	www.bes.gov
1970 1971 1972	1,075.9 1,167.8 1,282.4	4,722.0 4,877.6 5,134.3	1957Q2 1957Q3 1957Q4	472.8 480.3 475.7	2,848.2 2,875.9 2,846.4	42 43 44	42 43 44	9.102944 9.103189 9.094638		Note J
1973 1974	1,428.5 1,548.8	5,424.1 5,396.0	1958Q1 1958Q2	468.4 472.8	2,772.7 2,790.9	45 46	45 46	9.089934 9.097664	1991	a
1975 1976 1977	1,688.9 1,877.6 2,086.0	5,385.4 5,675.4 5,937.0	1958Q3 1958Q4 1959Q1	486.7 500.4 511.1	2,855.5 2,922.3 2,976.6	47 48 49	47 48 49	9.102454 9.106800 9.118554	1992	ri F
1978 1979	2,356.6 2,632.1	6,267.2 6,466.2	1959Q2 1959Q3	524.2 525.2	3,049.0 3,043.1	50 51	50 51	9.129510 9.139188		(
1980 1981 1982	2,862.5 3,211.0 3,345.0	6,450.4 6,617.7 6,491.3	1959Q4 1960Q1 1960Q2	529.3 543.3 542.7	3,055.1 3,123.2 3,111.3	52 53 54	52 53 54	9.149156 9.151026 9.156950	1993	(
1983 1984	3,638.1 4,040.7	6,792.0 7,285.0	1960Q3 1960Q4	546.0 541.1	3,119.1 3,081.3	55 56	55 56	9.161812 9.175076	4004	т
1985 1986 1987	4,346.7 4,590.2 4,870.2	7,593.8 7,860.5 8,132.6	1961Q1 1961Q2 1961Q3	545.9 557.4 568.2	3,102.3 3,159.9 3,212.6	57 58 59	57 58 59	9.184838 9.198409 9.204292	1994	
1988 1989 1990	5,252.6 5,657.7 5,979.6	8,474.5 8,786.4 8,955.0	1961Q4 1962Q1 1962Q2	581.6 595.2 602.6	3,277.7 3,336.8 3,372.7	60 61	60 61 62	9.215577 9.218993 9.222476	1995	
1991 1992	6,174.0 6,539.3	8,948.4 9,266.6	1962Q3 1962Q4	609.6 613.1	3,404.8 3,418.0	62 63 64	63 64	9.231005 9.238072		
1993 1994 1995	6,878.7 7,308.8 7,664.1	9,521.0 9,905.4 10,174.8	1963Q1 1963Q2 1963Q3	622.7 631.8 645.0	3,456.1 3,501.1 3,569.5	65 66 67	65 66 67	9.244616 9.261927 9.271134	1996	
1996 1997	8,100.2 8,608.5	10,561.0 11,034.9	1963Q4 1964Q1	654.8 671.1	3,595.0 3,672.7	68 69	68 69	9.281647 9.289235	1997	
1998 1999 2000	9,089.2 9,660.6 10,284.8	11,525.9 12,065.9 12,559.7	1964Q2 1964Q3 1964Q4	680.8 692.8 698.4	3,716.4 3,766.9 3,780.2	70 71 72	70 71 72	9.304213 9.316860 9.324588		
2001 2002	10,621.8 10,977.5	12,682.2 12,908.8	1965Q1 1965Q2	719.2 732.4	3,873.5 3,926.4	73 74	73 74	9.334432 9.344084	1998	
2003 2004 2005	11,510.7 12,274.9 13,093.7	13,271.1 13,773.5 14,234.2	1965Q3 1965Q4 1966Q1	750.2 773.1 797.3	4,006.2 4,100.6 4,201.9	75 76 77	75 76 77	9.357087 9.373369 9.381323	1999	
2006 2007	13,855.9 14,477.6	14,613.8 14,873.7	1966Q2 1966Q3	807.2 820.8	4,219.1 4,249.2	78 79	78 79	9.389532 9.402043		
2008 2009 2010	14,718.6 14,418.7 14,964.4	14,830.4 14,418.7 14,783.8	1966Q4 1967Q1 1967Q2	834.9 846.0 851.1	4,285.6 4,324.9 4,328.7	80 81 82	80 81 82	9.419247 9.422148 9.440857	2000	
2011	15,517.9 16,155.3	15,020.6 15,354.6	1967Q3 1967Q4	866.6 883.2	4,366.1 4,401.2	83 84	83 84	9.442063 9.447726	2004	
2013 2014 2015	16,691.5 17,427.6 18,120.7	15,612.2 16,013.3 16,471.5	1968Q1 1968Q2 1968Q3	911.1 936.3 952.3	4,490.6 4,566.4 4,599.3	85 86 87	85 86 87	9.444883 9.450168 9.447000	2001	
2016 2017	18,624.5 19,386.2	16,716.2 17,092.5	1968Q4 1969Q1 1969Q2	970.1 995.4 1,011.4	4,619.8 4,691.6 4,706.7	88 89 90	88 89 90	9.449775 9.458941 9.464440	2002	
			1969Q3 1969Q4	1,032.0 1,040.7	4,736.1 4,715.5	91 92	91 92	9.469299 9.469932		
			1970Q1 1970Q2 1970Q3		4,707.1 4,715.4 4,757.2	93 94 95	93 94 95	9.475102 9.484337 9.500948	2003	
			1970Q4 1971Q1	1,091.5 1,137.8	4,708.3 4,834.3	96 97	96 97	9.512569 9.518303	2004	
			1971Q2 1971Q3 1971Q4	1,159.4 1,180.3 1,193.6	4,861.9 4,900.0 4,914.3	98 99 100	98 99 100	9.525604 9.534653 9.543263		
			1972Q1 1972Q2	1,233.8 1,270.1	5,002.4 5,118.3	101 102	101 102	9.553866 9.559073	2005	
			1972Q3 1972Q4 1973Q1	1,293.8 1,332.0 1,380.7	5,165.4 5,251.2 5,380.5	103 104 105	103 104 105	9.567441 9.573135 9.585078	2006	
			1973Q2 1973Q3	1,417.6 1,436.8	5,441.5 5,411.9	106 107	106 107	9.588064 9.588955		
			1973Q4 1974Q1 1974Q2	1,479.1 1,494.7 1,534.2	5,462.4 5,417.0 5,431.3	108 109 110	108 109 110	9.596752 9.597370 9.604994	2007	
			1974Q3 1974Q4	1,563.4 1,603.0	5,378.7 5,357.2	111 112	111 112	9.611697 9.615259		
			1975Q1 1975Q2 1975Q3	1,619.6 1,656.4 1,713.8	5,292.4 5,333.2 5,421.4	113 114 115	113 114 115	9.608412 9.613362 9.608553	2008	
			1975Q4 1976Q1	1,765.9 1,824.5	5,494.4 5,618.5	116 117	116 117	9.587200 9.573246	2009	
			1976Q2 1976Q3 1976Q4	1,856.9 1,890.5 1,938.4	5,661.0 5,689.8 5,732.5	118 119 120	118 119 120	9.571895 9.575157 9.584789		
			1977Q1 1977Q2	1,992.5 2,060.2	5,799.2 5,913.0	121 122	121 122	9.589106 9.598720	2010	
			1977Q3 1977Q4 1978Q1		6,017.6 6,018.2 6,039.2	123 124 125	123 124 125	9.605452 9.611731 9.607861	2011	
			1978Q2 1978Q3	2,336.6 2,398.9	6,274.0 6,335.3	126 127	126 127	9.615112 9.617211		
			1978Q4 1979Q1 1979Q2 1979Q3	2,531.6 2,595.9 2,670.4	6,420.3 6,433.0 6,440.8 6,487.1	128 129 130 131	128 129 130 131	9.628412 9.635020 9.639678 9.640875	2012	
			1979Q4 1980Q1 1980Q2 1980Q3	2,796.5 2,799.9	6,503.9 6,524.9 6,392.6 6,382.9	132 133 134 135	132 133 134 135	9.641103 9.648073 9.649988 9.657670	2013	
			1980Q4 1981Q1	2,993.5 3,131.8	6,501.2 6,635.7	136 137	136 137	9.667379 9.665078	2014	
			1981Q2 1981Q3 1981Q4	3,261.2	6,587.3 6,662.9 6,585.1	138 139 140	138 139 140	9.676323 9.689025 9.694013	_	
			1982Q1 1982Q2 1982Q3	3,273.8 3,331.3	6,475.0 6,510.2 6,486.8	141 142 143	141 142 143	9.701983 9.708743 9.712787	2015	
			1982Q3 1982Q4 1983Q1		6,486.8 6,493.1 6,578.2	143 144 145	143 144 145	9.712787 9.713996 9.715446	2016	
			1983Q2		6,728.3		146	9.720976		

nualized Real LN GPD Q 2.76%

TPUT

df

SS MS F Significance F
1 13.60428747 13.60428747 5792.532028 9.4979E-122
150 0.352288621 0.002348591
151 13.95657609

 Coefficients
 Standard Error
 t Stat
 P-value
 Lower 95%
 Upper 95%
 Lower 95.0%
 Upper 95.0%

 8.795133966
 0.007900568
 1113.228024
 1.0678E-295
 8.779523191
 8.810744741
 8.779523191
 8.810744741

 0.006818244
 8.95856E-05
 76.10868563
 9.4979E-122
 0.006641231
 0.006995257
 0.06641231
 0.006995257

GDP is an array of expenditure and income data collected by BEA directly and through other government agencies.



July 31, 2013, 14th Comprehensive Significant Revision:
BEA revised its tables back to 1929 in to order to count:

1 Artistic Works
2 Research and Development
as Capital Investments that Depreciate Over Time
rather than one time expenditures

From an Economy based on (Industry and Manufacturing) to one based on (Knowledge and Information)

This comprehensive revision did not cause a large percentage jump. The relative difference of actual amounts over time changed little.

1984Q1	3.912.8	7.140.6	149	149	9.735258	2017	
1984Q2	4,015.0	7,266.0	150	150	9.742796		
1984Q3	4,087.4	7,337.5	151	151	9.750564		
1984Q4	4,147.6	7,396.0	152	152	9.756825		

1985Q1	4,237.0	7,469.5	153
1985Q2	4,302.3	7,537.9	154
1985Q3 1985Q4	4,394.6 4,453.1	7,655.2 7,712.6	155 156
1986Q1	4,516.3	7,784.1	157
1986Q2	4,555.2	7,819.8	158
1986Q3 1986Q4	4,619.6 4,669.4	7,898.6 7,939.5	159 160
1987Q1	4,736.2	7,995.0	161
1987Q2	4,821.5	8,084.7	162
1987Q3	4,900.5	8,158.0	163
1987Q4 1988Q1	5,022.7 5,090.6	8,292.7 8,339.3	164 165
1988Q2	5,207.7	8,449.5	166
1988Q3	5,299.5	8,498.3	167
1988Q4	5,412.7 5,527.4	8,610.9	168
1989Q1 1989Q2	5,628.4	8,697.7 8,766.1	169 170
1989Q3	5,711.6	8,831.5	171
1989Q4	5,763.4	8,850.2	172
1990Q1 1990Q2	5,890.8 5,974.7	8,947.1 8,981.7	173 174
1990Q3	6,029.5	8,983.9	175
1990Q4	6,023.3	8,907.4	176
1991Q1 1991Q2	6,054.9 6,143.6	8,865.6 8,934.4	177 178
1991Q3	6,218.4	8,977.3	179
1991Q4	6,279.3	9,016.4	180
1992Q1 1992Q2	6,380.8 6,492.3	9,123.0 9,223.5	181 182
1992Q2 1992Q3	6,586.5	9,313.2	183
1992Q4	6,697.6	9,406.5	184
1993Q1	6,748.2	9,424.1	185
1993Q2 1993Q3	6,829.6 6,904.2	9,480.1 9,526.3	186 187
1993Q4	7,032.8	9,653.5	188
1994Q1	7,136.3	9,748.2	189
1994Q2 1994Q3	7,269.8 7,352.3	9,881.4 9,939.7	190 191
1994Q3 1994Q4	7,352.3 7,476.7	10,052.5	191
1995Q1	7,545.3	10,086.9	193
1995Q2 1995Q3	7,604.9 7,706.5	10,122.1 10,208.8	194
1995Q3 1995Q4	7,706.5 7,799.5	10,208.8	195 196
1996Q1	7,893.1	10,348.7	197
1996Q2	8,061.5	10,529.4	198
1996Q3 1996Q4	8,159.0 8,287.1	10,626.8 10,739.1	199 200
1997Q1	8,402.1	10,820.9	201
1997Q2 1997Q3	8,551.9 8,691.8	10,984.2 11,124.0	202 203
1997Q3 1997Q4	8,788.3	11,124.0	203
1998Q1	8,889.7	11,321.2	205
1998Q2	8,994.7	11,431.0	206
1998Q3 1998Q4	9,146.5 9,325.7	11,580.6 11,770.7	207
1999Q1	9,447.1	11,864.7	209
1999Q2 1999Q3	9,557.0 9,712.3	11,962.5 12,113.1	210 211
1999Q4	9,926.1	12,323.3	212
2000Q1	##########	12,359.1	213
2000Q2 2000Q3	######################################	12,592.5 12,607.7	214 215
2000Q3 2000Q4	######################################	12,607.7	215 216
2001Q1	##########	12,643.3	217
2001Q2 2001Q3	######################################	12,710.3 12,670.1	218 219
2001Q3	##########	12,705.3	220
2002Q1	##########	12,822.3	221
2002Q2 2002Q3	######################################	12,893.0 12,955.8	222 223
2002Q4	############	12,964.0	224
2003Q1	##########	13,031.2	225
2003Q2 2003Q3	######################################	13,152.1 13,372.4	226 227
2003Q4	##########	13,528.7	228
2004Q1	##########	13,606.5	229
2004Q2 2004Q3	######################################	13,706.2 13,830.8	230 231
2004Q4	##########	13,950.4	232
2005Q1 2005Q2	######### ############################	14,099.1	233 234
2005Q2 2005Q3	###############	14,172.7 14,291.8	234
2005Q4	##########	14,373.4	236
2006Q1	##########	14,546.1	237
2006Q2 2006Q3	######################################	14,589.6 14,602.6	238 239
2006Q4	##########	14,716.9	240
2007Q1	##########	14,726.0	241
2007Q2 2007Q3	######################################	14,838.7 14,938.5	242 243
2007Q4	############	14,991.8	244
2008Q1	##########	14,889.5	245
2008Q2 2008Q3	######################################	14,963.4 14,891.6	246 247
2008Q4	###########	14,577.0	248
2009Q1 2009Q2	######################################	14,375.0 14,355.6	249 250
2009Q2 2009Q3	##########	14,402.5	251
2009Q4	############	14,541.9	252
2010Q1 2010Q2	######################################	14,604.8 14,745.9	253 254
2010Q2 2010Q3	###########	14,845.5	255
2010Q4	##########	14,939.0	256
2011Q1 2011Q2	######################################	14,881.3 14,989.6	257 258
2011Q3	############	15,021.1	259
2011Q4 2012Q1	######################################	15,190.3 15,291.0	260
2012Q1 2012Q2	######################################	15,291.0	261 262
2012Q3	############	15,380.8	263
2012Q4 2013Q1	#######################################	15,384.3 15,491.9	264 265
2013Q1 2013Q2	###########	15,491.9	266
2013Q3	##########	15,641.3	267
2013Q4 2014Q1	#######################################	15,793.9 15,757.6	268 269
2014Q2	##########	15,935.8	270
2014Q3	######################################	16,139.5 16,220.2	271
2014Q4 2015Q1	###########	16,350.0	272 273
2015Q2	##########	16,460.9	274
2015Q3 2015Q4	######################################	16,527.6 16,547.6	275 276
2015Q4 2016Q1	#######################################	16,547.6	276
2016Q2	############	16,663.5	276
2016Q3 2016Q4	######################################	16,778.1	276
	#######################################	16,851.4 16,903.2	277 278
2017Q1			-
2017Q2	##########	17,031.1	279
	########## ###########################	17,031.1 17,163.9 17,271.7	279 280 281