

**Exhibit G**



**Cost of Capital**

**Direct Testimony of Paul G. Townsley**

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**Table of Contents**

- I. INTRODUCTION .....1**
- II. QUALIFICATIONS .....1**
- III. RISKS ASSOCIATED WITH OPERATING SMALL SYSTEMS .....2**
- IV. RISKS ASSOCIATED WITH IMBALANCE IN REGULATORY MECHANISMS .....15**

1 **I. INTRODUCTION**

2 **Q. What is the purpose of this testimony?**

3 A. The purpose of this testimony is to outline operational and regulatory risks  
4 that Cal Water faces and to request that the Commission increase its rate of  
5 return to compensate for those risks.

6

7 **II. QUALIFICATIONS**

8 **Q. What is your current position?**

9 A. I am Vice President of Regulatory Matters and Corporate Development for  
10 California Water Service Company.

11

12 **Q. What is your educational background?**

13 A. I received a Bachelor of Science degree in Marine Engineering from the  
14 United States Merchant Marine Academy at Kings Point, New York in 1980.  
15 During the time I have been in industry I have participated in numerous advanced  
16 programs for business executives.

17

18 **Q. Do you hold any professional certifications?**

19 A. Yes. I am a Professional Engineer in the States of Arizona and Hawaii. I also  
20 hold a United States Marine Engineering license from the U.S. Coast Guard.

1

2 **Q. Please summarize your business experience.**

3 A. I have been working in the utility business for over 35 years, including  
4 assignments in the electric sector, natural gas sector, telecommunications sector,  
5 and the water/wastewater sector. I have over 20 years of experience leading  
6 water utilities located in California, Arizona, New Mexico, Texas, Indiana, Illinois,  
7 Ohio, and Pennsylvania; first for Citizens Utilities, then for American Water, and  
8 then for EPCOR USA. I have been with California Water Service Company for four  
9 years and have been responsible at various times for its regulatory affairs,  
10 government and communications, purchasing and facilities, and corporate  
11 development teams.

12

13 **III. RISKS ASSOCIATED WITH OPERATING SMALL SYSTEMS**

14 **Q. Please provide a background on Cal Water's operations of small water**  
15 **systems.**

16 A. Cal Water operates a series of differently sized water systems, ranging  
17 from large urban operations in Bakersfield and East Los Angeles County serving  
18 50,000 or more service connections to districts, to very small communities such  
19 as Dillon Beach (249 connections) and Fremont in Kern County (76 connections).  
20 In addition, the Company's operations are distributed across the state, making it

1 difficult to obtain the economies of scale across small districts that can be  
2 obtained entirely within a larger district with the same total number of  
3 connections.

4

5 **Q. What ratemaking mechanisms has the Commission employed for small**  
6 **water utilities?**

7 A. The Commission has employed simplified, expedited, and supportive  
8 ratemaking practices for small utilities.<sup>1</sup> In addition to a number of  
9 administratively expedited processes, the Commission generally provides a  
10 higher rate of return for small systems. For instance, the Commission's  
11 compliance division developed a "short-form" filing method for Class D utilities in  
12 the 1990's that is used today. Commission staff performs "outreach" to Class C  
13 and D water systems to ensure that owners take advantage of opportunities for  
14 rate adjustments. Rate cases are processed by a Tier 3 advice letter, not an  
15 application, and annual CPI increases are granted to utilities who have submitted  
16 annual reports. Finally, small utilities can submit rate base offsets without prior

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<sup>1</sup> Standard Practice U-5-SM, Standard Practice for Determining Fixed Capital and Rate Base of Class B, C and D Water Utilities.

1 approval in a GRC. The Commission has also recognized the need for higher  
2 returns for these smaller water systems.<sup>2</sup>

3

4 **Q. Is Cal Water allowed to make use of the same regulatory mechanisms?**

5 A. Generally, no. Cal Water operations are treated as part of a single Class A  
6 water company, even though there are many systems that could be classified as  
7 Class B, Class C, or Class D.

8

9 **Q. What are some reasons the Commission has allowed higher returns to**  
10 **small water companies?**

11 A. First, there are operational risks in running a small system in that expenses  
12 can be more volatile than those of a large system. When something does go  
13 wrong, such as a pump failure or main leak, the cost of the repair could be quite  
14 large as a percentage of total revenue requirement than in a large system. The  
15 second reason for higher returns for small companies is their challenge in  
16 financing system improvements. In fact, due to the difficult time small systems  
17 have qualifying for bank loans, the Commission generally assumes these are  
18 100% equity financed operations. While a small system as part of Cal Water does  
19 not face the same financing difficulties, it will have similar operating risks as an

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<sup>2</sup> The annual rates of return for the Class C and Class D companies are from the annual letter to the Commission from Rami Kahlon, Director of Division of Water and Audits, dated February 24, 2017, and titled Rates of Return and Rates of Margin for Class C and Class D Water Utilities.

1 independent utility of the same size. The Commission’s ratemaking process for  
2 multi-district utilities sets rates on a local cost of service basis, so the burden of  
3 extraordinary expenses still falls with customers of the (often small) system.

4

5 **Q. How would each of Cal Water’s water systems be classified if they were**  
6 **“stand-alone” companies?**

7 A. The following chart shows how the Commission currently classifies  
8 regulated water and sewer utilities:<sup>3</sup>

<b>Company Designation</b>	<b>Number of Services</b>
Class A	Over 10,000
Class B	2001 - 10,000
Class C	501 - 2,000
Class D	Less than 500

9

10 Cal Water’s districts are composed of differently-sized, non-contiguous operating  
11 systems. Each of these non-contiguous water systems is recognized as a separate  
12 Department of Drinking Water (“DDW”) water system, with a unique system  
13 identification number, specific source and storage requirements, and  
14 independent water quality reporting requirements. Each system is essentially  
15 independent from a water quality perspective. In addition, from a ratemaking  
16 perspective, many of these systems are regulated by the Commission with their

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<sup>3</sup> From GO-96-A Water industry Rule 1.2 and from Decision D. 85-04-076

1 own rate base, expenses, and revenue requirement. If Cal Water were to be  
 2 broken down into individual companies based on these systems using the  
 3 Commission's classifications for water companies, the result would be a group of  
 4 39 companies comprised of 14 Class A companies, 8 Class B companies, 9 Class C  
 5 companies, and 8 Class D companies. The following chart shows the breakdown  
 6 of Cal Water by individual water operating system:

7

<b>District</b>	<b>Customers</b>
AV – Leona Val/Lake Hughes	624
AV - Lancaster	672
AV - Fremont	76
Bakersfield	70,780
Bayshore - Mid Peninsula	36,617
Bayshore - So. San Francisco	16,959
Bear Gulch	18,914
Chico	29,025
Dixon	2,889
Dominguez	34,007
East Los Angeles	26,771
Hermosa Redondo	26,783
KRV - Kern River Valley	938
KRV - Arden	1,192
KRV - Bodfish	713
KRV - Kernville	585
KRV - Lakeland	198
KRV - Squirrel Mountain	416
KRV - Grand Oks	43
King City	2,611
Livermore	18,615
Los Altos Suburban	18,905
Marysville	3,760
Oroville	3,573



District	Customers
Palos Verdes	24,134
RDV - Lucerne	1,190
RDV - Armstrong Valley	377
RDV - Coast Springs	249
RDV - Hawkins	51
SLN - Salinas	24,645
SLN - Las Lomas	615
SLN - Oak Hills	814
SLN - Bolsa Knolls	2,231
SLN - Buena Vista	182
Selma	6,338
Stockton	43,570
Visalia	43,117
Westlake	7,076
Willows	2,403
TOTAL	472,658

1

2 The following chart shows the corresponding summary of systems by the  
3 Commission's classifications if Cal Water were broken down by water operating  
4 system:

System Type	Number of Systems	Number	Percent
A Systems	14	432,842	91.6%
B Systems	8	30,881	6.5%
C Systems	9	7,343	1.6%
D Systems	8	1,592	0.3%
Total	39	472,658	

5

6 **Q. How does Cal Water's currently authorized rate of return compare to**  
7 **what the Commission believes is appropriate for water utilities of different**  
8 **sizes?**

1 A. According to the Commission’s Water Division in its annual memorandum,  
2 Cal Water’s rate of return is below the average of Class A, and Class B water  
3 utilities, and below the Commission’s recommended rate of return for Class C  
4 and Class D water utilities.

<b>System Type</b>	<b>ROR<sup>4 5</sup></b>
Cal Water Authorized	7.94%
Class A Average	8.51%
Class B Average	10.07%
Class C Recommended	10.0% - 11.0%
Class D Recommended	10.5% - 11.5%

5  
6 As an earlier table indicates show, classifying the Company by operating  
7 system size would result in 6.5% of its operating systems classified as Class B  
8 water utilities, 1.6% of its operating systems classified as Class C water utilities,  
9 and 0.3% of its operating systems classified as Class D water utilities. All of these  
10 smaller operating systems would be able to earn a higher rate of return than Cal  
11 Water is now earning, if operated separately. The following chart shows the  
12 effect of including the rates of return for Class B, Class C and Class D companies  
13 on Cal Water’s similarly sized systems. Taking into account Cal Water’s currently  
14 authorized rate of return, this would have nearly a 20 basis point increase in the

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<sup>4</sup> Cal Water’s current authorized Rate of Return is 7.94% which is a weighted factor based on 9.43% return on equity, and 6.24% cost of long-term debt as determined in D.12-07-009, and modified by the WCCM in Advice Letter 2088.

<sup>5</sup> The annual rates of return for the Class C and Class D companies are from the annual letter to the Commission from Rami Kahlon, Director of Division of Water and Audits, dated February 24, 2017, and titled Rates of Return and Rates of Margin for Class C and Class D Water Utilities.

1 authorized rate of return on a company-wide basis. This translates to a  
2 correspondingly higher return on equity.

Cal Water System Type	Percent	ROR	Weighting by System
A Systems	91.6%	7.94%	7.27%
B Systems	6.5%	10.07%	0.66%
C Systems	1.6%	10.50%	0.16%
D Systems	0.3%	11.00%	0.04%
Total	100.0%		8.13%

3

4 **Q. Are smaller water systems really any more difficult to operate than larger**  
5 **water systems?**

6 A. Yes. Smaller systems have complications associated with them that are not  
7 frequently encountered in larger districts. Smaller systems often do not have the  
8 redundancy in storage and supply that larger systems have, making them more  
9 susceptible to system failures, water outages, and other upsets. The smaller  
10 systems are also often located in remote areas, leading to reduced economies of  
11 scale, where fewer specialized vendors are available. Further, operations are  
12 often complicated by large distances between systems, leading to extended  
13 travel times for the certified water system operators. Alternative supplies such  
14 as imported surface water are also usually not economically feasible in small  
15 water systems.

16

1 **Q. Does having smaller districts complicate Cal Water's General Rate Case**  
2 **filings?**

3 A. Yes definitely. Different cost-of-service calculations for each district result  
4 in a significantly more complex set of supporting workpapers. For each district,  
5 and sometimes for each operating system, there will be separate capital projects  
6 and justifications, unique workforce needs, more granular cost allocations,  
7 different customer growth, and different consumption patterns. In addition, the  
8 need for multiple district workshops, tours, public participation hearings, and  
9 customer notices add complexities.

10 Cal Water has also experienced a higher ratio of rate case intervenors in  
11 Cal Water's smaller districts versus its larger districts. While having input from  
12 the community is generally a good thing, often there is a lack of understanding of  
13 the process by representatives from smaller system, having intervenors involved  
14 in a rate case generally increases the workload on the Company because the  
15 utility must respond to additional data requests, and substantially increases the  
16 settlement time because settlement discussions and negotiations include not  
17 only the ORA, but generally also include intervening parties.

18 The following charts show Cal Water recent experience with intervenors in  
19 its 2005, 2007, 2009, 2012, and 2015 GRCs. As the chart shows, approximately

- 1 70% of the intervenors for Cal Water’s last five GRCs were attributable to small
- 2 water systems.

<b>Intervenor System 2015 GRC</b>	<b>System 2016 Services</b>	<b>System CPUC Class</b>
Coast Springs	249	D
Leona Valley Town Council	624	C
City of Selma	6,338	A
City of Visalia	43,117	A
Kern County (represent Kern River Valley, Arden, Bodfish, Kernville, Lakeland, Squirrel Mountain)	4,042	C & D
Lake County (representing Lucerne)	1,190	C
City of Bakersfield	70,780	A
Kern River Valley (represent Kern River Valley, Arden, Bodfish, Kernville, Lakeland, Squirrel Mountain)	4,042	C & D
County of Butte (representing Chico & Oroville)	32,598	A
City of Marysville	3,760	B
City of Thousand Oaks	7,076	B
City of Chico	29,025	A

3

<b>Intervenor System 2012 GRC</b>	<b>System 2016 Services</b>	<b>System CPUC Class</b>
Coast Springs	249	D
Leona Valley	624	D
Selma	6,338	A
Visalia	43,117	A
Kern County (represent Kern River Valley, Arden, Bodfish, Kernville, Lakeland, Squirrel Mountain)	4,042	C & D
Lake County (representing Lucerne)	1,190	C
Lancaster	672	D
R.A.W (represent Kern River Valley Arden, Bodfish, Kernville, Lakeland, Squirrel Mountain)	4,042	C & D

1

<b>Intervenor System 2009 GRC</b>	<b>System 2015 Services</b>	<b>System CPUC Class</b>
Coast Springs	249	D
Leona Valley	624	C
Fremont Valley	76	D
Visalia	43,117	A

2

<b>Intervenor System 2007 GRC</b>	<b>System 2015 Services</b>	<b>System CPUC Class</b>
Coast Springs	249	D
Leona Valley	624	C
San Mateo (portion of Mid-Peninsula)	36,617	A
Los Altos	18,905	A

3

<b>Intervenor System 2005 GRC</b>	<b>System 2016 Services</b>	<b>System CPUC Class</b>
Coast Springs	249	D
Fremont Valley	76	D
Leona Valley	624	C
Lucerne	1,190	C
Armstrong & Hawkins (portion of Unified)	428	D

4

5 **Q. What is your experience with the LIRA program in small systems?**

6 A. Low Income Rate Assistance (“LIRA”) participation in the smaller Cal Water  
7 systems tends to be much higher than in larger systems, and demands more  
8 resources to manage. Under the Commission’s LIRA program, Cal Water tracks  
9 and reports on a variety of performance objectives. A LIRA account requires more

1 initial set-up time, and time to process LIRA documentation. The table below  
2 shows the LIRA participation by Cal Water’s system sizes.

<b>System Type</b>	<b>Percent of Customers enrolled in LIRA</b>
A Systems	17.7%
B Systems	25.3%
C Systems	30.0%
D Systems	18.2%
Overall	18.4%

3

4 **Q. Are small water systems more difficult to manage from a water quality**  
5 **perspective?**

6 A. Yes, small systems require more water quality management time and  
7 effort than large systems. While DDW reporting requirements for small water  
8 systems are similar to those for large water systems, there are added  
9 complexities. As mentioned earlier in my testimony, many small systems lack the  
10 redundancy and reliability to seamlessly handle operational challenges, such as a  
11 power outage, pump repair or main repair. This leads to more frequent water  
12 outages, and potentially boil water notices for customers. Many of the small  
13 systems are in remote and hilly terrain; systems can have multiple zones across  
14 which to supply customers according to recommended pressure levels. Having  
15 many small pressure zones often means that a system requires more small tanks  
16 and boosters than a more level system would, and since the systems are small,  
17 there is not sufficient redundancy at many sites.

1           Because of geologic conditions found underneath many of the small water  
2 system areas, such as fractured rock that results in low well yields, it is often very  
3 difficult to construct wells that produce high quantities of good quality water.  
4 Even in small water systems, where there are fewer customers, multiple wells  
5 can often be required to simply meet the average day demand of the small  
6 system. In contrast to large water systems, where a single well may serve  
7 hundreds of customer connections, the small water systems often present supply  
8 problems.

9           No matter the size of the system, DDW requires annual reports,  
10 inspections, and consumer confidence reports for every system. This requires  
11 almost the same level of effort for a large system as a small system. Permitting a  
12 small well or small treatment system requires a similar amount of time as a larger  
13 facility. For a small system, this cost is not spread across as many customers. All  
14 of these issues lead to a much higher workload per customer connection for  
15 smaller systems compared to larger systems.

16

17 **Q.     What additional comments to you have about the costs of operating**  
18 **small water systems?**

19 A.     Smaller systems tend to be located in areas with struggling economies.

20 Local governments in these smaller systems often become more involved and



1 interested in the water system with regard to conservation, review of capital  
2 projects, rate impacts, and community involvement on the part of the company,  
3 all leading to more intensive management needs in the small system.  
4 Accordingly, the potential for condemnation attempts or threats also tends to be  
5 higher in smaller systems.

6

7 **Q. What is your recommendation in this proceeding with regard to**  
8 **operating small water systems?**

9 A. Because Cal Water operates a series of differently-sized water districts  
10 across the state, and since it is often difficult and costly to obtain the same  
11 economies of scale for small water systems as compared to larger water systems,  
12 the Commission should recognize the additional burdens imposed by Cal Water's  
13 small systems, as the Commission already does for Class B, C, and D companies.  
14 It should therefore consider adding 20 basis points to Cal Water's overall return  
15 on equity to compensate for the additional risks and challenges involved in  
16 operating a series of smaller districts that are not present for larger districts.

17 **IV. RISKS ASSOCIATED WITH IMBALANCE IN REGULATORY**  
18 **MECHANISMS**

19 **Q. Does setting a reasonable rate of return ensure a reasonable ability for a**  
20 **company to achieve that rate of return?**

1 A. No. Generally, setting a cost of capital that is “fair” assumes that the utility  
2 has an equal opportunity to earn above or below its authorized rate of return.  
3 The development of regulation at the Commission, however, has made it almost  
4 impossible for a utility like Cal Water to earn above its authorized rate of return,  
5 and instead increasingly likely that a utility will earn below its rate of return.  
6 Specifically, "advice letter" rate base offsets, the earnings tests, one-way  
7 balancing accounts, the 3-year General Rate Case plan, and the increasing use of  
8 memorandum and balancing accounts in lieu of test year forecasts all contribute  
9 to the likelihood that a utility will earn below its rate of return.

10

11 **Q. What are the positive attributes of the Commission’s regulatory scheme?**

12 A. Yes. The Commission utilizes the use of a future test year for expense  
13 forecasting, multiple future test years for plant additions, use of memorandum  
14 and balancing accounts particularly for production expenses, and providing  
15 interim rates if a rate case cannot be processed in a timely fashion.

16

17 **Q. Is expense estimating a concern under the Rate Case Plan?**

18 A. Yes, Cal Water must estimate expenses before filing, approximately 24-30  
19 months in advance of the test year, and use a historical average for forecasting.  
20 The Rate Case Plan allows an update of recorded figures, but not a deviation in

1 estimating methods, so if for instance the utility estimated costs using a five-year  
2 average in its GRC application, and its subsequent data shows a divergence from  
3 this trend, there is no opportunity in the procedural schedule for the utility to  
4 modify its estimates to achieve a reasonable recovery of its expenses. In  
5 addition, legitimate historic expenses are often disputed by ORA as non-recurring  
6 expenses and eliminated from the average, notwithstanding that other non-  
7 recurring expenses are likely to occur in the future. ORA and other participants in  
8 the proceeding face no such restriction, so when updated data comes in, they are  
9 free to lower estimates where data so indicates, but they are under no obligation  
10 to increase estimates when the data would support a higher expense than the  
11 utility originally forecast.

12 In addition to this, the utility is not allowed to forecast expenses beyond  
13 the first test year. Expenses for the second and third year of the rate case cycle  
14 are escalated by CPI and other indices that often do not account for the utility's  
15 actual expenses.

16

17 **Q. How is the mechanism of "Advice Letter" Rate Base Offsets biased?**

18 A. Rate Base Offsets that only allow capital projects to be reflected in rates  
19 via an "Advice Letter" after project completion are often used in rate cases as a  
20 means of pre-approving projects whose scope or timing is uncertain at the time

1 of the GRC filing. The main reason for uncertainty in these instances, however, is  
2 that Cal Water is required to prepare its general rate case 3-4 years in advance of  
3 the expected completion date of a large project.<sup>6</sup> ORA, the primary reviewer of  
4 Class A utility filings, has an incentive to reduce the immediate impact on rates by  
5 proposing that many projects be handled by advice letter rather than reflecting  
6 them in adopted rates. ORA reports annually to the legislature and measures its  
7 success in terms of dollar and percentage reductions of utility requests.<sup>7</sup> Further  
8 complicating this trend is the Commission’s General Order 96-B, which allows for  
9 “capped” advice letters to be processed as Tier 2 (30-day administrative  
10 approval), while uncapped advice letters are Tier 3 (indefinite approval by  
11 Commission resolution). Since these advice letters can only be filed after project  
12 completion, the utility has an incentive to accept a “capped” amount because it  
13 can begin to recover its costs sooner. This leads to a situation where either the  
14 costs come below the cap and ratepayers pay only the final cost of the project  
15 (minus the regulatory lag), or the costs come in above the cap, wherein the utility  
16 receives no consideration of additional revenue requirement until the next GRC  
17 test year. Furthermore, actual use of this “advice letter” track is not insignificant,

---

<sup>6</sup> For example, if Cal Water forecasts the need for a well in 2021, the second rate base “test year,” Cal Water has to estimate the costs and completion date for the project in 2017 in order to request the project in the May 2018 “Proposed Application” of its 2018 General Rate Case.

<sup>7</sup> See ORA 2015 Annual Report to the Legislature, “ORA’s \$27.7 million budget represents a small fraction of total benefit to ratepayers compared with the more than \$5.3 billion in savings ORA helped to achieve on behalf of ratepayers in 2015. This savings was realized in the form of lower utility revenues and avoided rate increases.”

1 as demonstrated by Cal Water’s agreement to give advice letter treatment to  
2 \$197 million in projects, potentially generating \$30 million annual revenue  
3 requirement, in its 2015 GRC.

4

5 **Q. Why does the escalation earnings test inhibit a water utility’s ability to**  
6 **earn its authorized return?**

7 A. The escalation earnings test is filed before the second escalation year and  
8 the third escalation year of a triennial rate case filing cycle. If the Company does  
9 not pass the earnings test, prior authorized rate increases may not be  
10 implemented. Only the water industry is required to “pass” an earnings test in  
11 order to obtain an inflation or rate base adjustment in an escalation year. Energy  
12 utilities in California are allowed to implement post-test-year changes to  
13 revenues without filing or passing an earnings test. To make matters worse, each  
14 of Cal Water’s regulated districts must pass their own individual earnings test,  
15 rather than having one warnings test for the whole utility.

16 While the test for escalation years is called an “earnings test” it is actually  
17 not a test of earnings at all. The mechanics of the test only incorporate changes  
18 in weighted average rate base, as compared to rate base authorized in the rate  
19 case, and changes in customer count. Other changes that could affect earnings,  
20 such as changes in expenses beyond CPI indexes are excluded from the

1 calculation. The net result is that it is extraordinarily difficult for Cal Water to  
2 actually earn its authorized rate of return because (1) Cal Water must pass  
3 individual “earnings tests” in each of its 25 ratemaking areas in order to achieve  
4 the full authorized escalation year increase for the utility, and (2) any changes in  
5 expenses beyond CPI and other Commission approved indexes is excluded in  
6 calculating rates for the escalation year.

7

8 **Q. Is the earnings test biased against utilities?**

9 A. Of course. As I have just described, in the case of a large multi-district  
10 water utility such as Cal Water, the earnings test represents a one-way  
11 adjustment that biases the Commission’s ratemaking process. No extra revenue  
12 is given for ratemaking areas which under-earn in a given year. Operating  
13 expenses and capital improvements can be outside the utility’s control, for  
14 instance if materials prices change, if permitting costs are beyond those  
15 forecasted, or if governmental agencies interfere with timing of projects. While  
16 these changes are obviously risks the utility has undertaken, the earnings test  
17 makes those risks asymmetric by penalizing one deviation from normal while not  
18 commensurately rewarding the other deviations.

19 While the earnings test measures historical variables such as capital  
20 project completion and customer count in order to apply a reduction to future

1 revenue escalation, “excess earnings” as calculated by the earnings test ignores  
2 any cost increases above CPI that the utility has incurred and therefore most  
3 likely are not “excess earnings” at all. Moreover the earnings test assumes that  
4 any “excess earnings” as compared to authorized for a past period will uniformly  
5 continue to occur in future periods. The adjustment to revenue recovery is  
6 permanent until the next general rate case. There is no make-up provision if a  
7 later period reflects earnings at or below authorized. Customer numbers can, at  
8 a later point, return to normal levels if a development occurred more quickly or  
9 slowly than anticipated. Rate base can “catch up” if projects were delayed but  
10 completed at a later point. In fact, since the earnings test uses weighted average  
11 rate base, it is possible that all authorized plant improvements were actually  
12 placed into service, but later in the year than anticipated in the rate case.

13

14 **Q. Please describe memorandum and balancing accounts and how they**  
15 **work.**

16 A. A memorandum account is a mechanism that allows the utility to track  
17 charges and credits related to a specific activity or event. Details governing the  
18 memorandum account, such as the purpose of the account, applicable parties  
19 involved, accounting procedures, and the rate component are stipulated in the  
20 Preliminary Statement of the utility’s tariff. The balance of the account will be

1 recovered or refunded upon approval by the Commission after the utility  
2 provides a showing of reasonableness for the entries into the account. The  
3 ratemaking treatment of a balancing account is similar to a memorandum  
4 account, except that recovery of a balancing account does not require  
5 Commission disposition through a resolution.

6

7 **Q. Why are memorandum and balancing accounts considered to be**  
8 **beneficial?**

9 A. Rate case revenue is largely based on a utility's projection of future costs  
10 using historical data, as determined during a general rate case proceeding. Many  
11 costs, such as local taxes and fees, are fairly stable and predictable. Other costs  
12 are more difficult to predict, and an incorrect estimation of those costs will result  
13 in the under- or over-collection of revenue from a utility's ratepayers in the  
14 absence of a memo or balancing account. The best example is if wholesale water  
15 prices rise or fall dramatically, the Commission's balancing accounts can ensure  
16 that ratepayers only pay the actual amount, not an estimate made three years  
17 earlier. Memorandum and balancing accounts benefit ratepayers by collecting  
18 only exact costs from them.

19

20 **Q. How many memorandum and balancing accounts does Cal Water have?**



- 1 A. In its most recent GRC, the Commission authorized 36 memorandum and
- 2 balancing accounts for Cal Water. These are listed in Table 1 and 2 below.

<b>Cal Water's Balancing and Memorandum Accounts (Table 1 of 2)</b>			
<b>Prel. St. &amp; Abbrev.</b>	<b>REGULATORY ACCOUNT</b>	<b>Issues Raised in Proceeding</b>	<b>Summary of Settlement</b>
AJCA	Amer. Job Creation Act	No issues to resolve.	No CPUC action needed.
F MTBE MA	MTBE Memo Account	CWS' request to allocate net proceeds 75/25 (shareholders/ratepayers)	See discussion. Apply additional MTBE litigation proceeds to offset the additional estimated costs of capital additions in Bayshore District and allocate remainder 75/25 (shareholders/ratepayers).
H LIRA MA	LIRA Memo Account	CWS' request to recover admin costs of \$267K via Tier 1, and later costs via Tier 2.	Recover \$198K via a Tier 1 AL, and any other costs via Tier 3.
J2 CCPP MA	Credit Card Pilot MA (Modified)	CWS' request to amortize balance, close account, and adopt permanent program (see SR #17).	See discussion. Refund balance to ratepayers and close account; make Credit Card Payment Program permanent.
K WMA	Wausau Memo Account	No issues to resolve.	No CPUC action needed.
M WRAM/MCB A	WRAM/MCBA	CWS' request to eliminate 10% cap on WRAM amortization (SR #18).	See SR #18 discussion. As part of settlement, CWS withdraws request to eliminate cap.
P DTSC MA	Dept of Tox. Subs. Cont. MA	No issues to resolve.	No CPUC action needed.
Q HomeSer MA	A.08-05-019 MA (HomeSer)	No issues to resolve.	No CPUC action needed.
S WCCM	Water CoC Adjust. Mech.	No issues to resolve.	No CPUC action needed.
T LCBA	Lucerne BA	No issues to resolve.	No CPUC action needed.
U TLMA	Tort Litigation Memo Account	No issues to resolve. (CWS to close account without amortization.)	No CPUC action needed.
V PCE MA	PCE Litigation Memo Account	No issues to resolve.	No CPUC action needed.
W TCP MA	TCP Litigation Memo Account	CWS' request to expand to apply to any districts with TCP contamination, and to recover capital projects costs quickly.	Expand Preliminary Statement to apply to all districts. CWS may seek recovery for completed projects once every 12 months.
X OEEP MA	Oper. Energy Efficiency Program MA	CWS' request to put plant in rates and recover carrying costs.	Put depreciated plant into rates, but include carrying costs through end of 2014.
Z1 CEBA1	Conservation Expense One-Way BA 1	No issues to resolve.	No CPUC action needed.
Z2 CEBA2	Conservation Expense One-Way BA 2	(1) CWS' request to modify prelim to offset costs with grant money; (2) CWS' request to open new CEBA with same terms.	(1) Modify prelim to offset costs with grant money; (2) Authorize new CEBA under same terms.
AA1 PCBA1	Pension Cost Balancing Account 1	No issues to resolve.	No CPUC action needed.

<b>Cal Water's Balancing and Memorandum Accounts (Table 2 of 2)</b>			
<b>Prel. St., Abbrev.</b>	<b>REGULATORY ACCOUNT</b>	<b>Issues Raised in Proceeding</b>	<b>Settlement</b>
<b>AA2 PCBA2</b>	Pension Cost Balancing Account 2	(1) ORA's request to adjust recovery calculations; (2) CWS' request to open new PCBA with same terms.	(1) Adjust calculations; (2) Open new PCBA excluding SERP.
<b>AB2 HCBA</b>	Health Cost Balancing Account 2	(1) ORA's request to adjust recovery calculations; (2) CWS' request to open new HCBA with same terms.	(1) Adjust calculations; (2) Open new HCBA.
<b>AC PRV MA</b>	Pressure Reducing Valve MA	No issues to resolve.	No CPUC action needed.
<b>AD SLMA</b>	Stockton East Litigation MA	No issues to resolve.	No CPUC action needed.
<b>AE Bonus Tax MA</b>	Bonus Tax Depreciation MA	CWS' request to refund corrected amounts.	Refund corrected amounts to customers.
<b>AG CEMA</b>	Catastrophic Event MA	No issues to resolve.	No CPUC action needed.
<b>AI CR6 MA</b>	Chromium-6 Memo Account	No request in Application, but see Rebuttal.	Modify to allow account to continue.
<b>AJ LIRA BA</b>	LIRA Balancing Account	CWS' request to eliminate cap on LIRA credit (see SR #3).	No CPUC action needed.
<b>AK 2012 IRMA</b>	2012 GRC Interim Rate MA	No issues to resolve.	No CPUC action needed.
<b>AL DRMA</b>	Drought Memo Account	CWS' request to recover amounts via Tier 1 and Tier 2.	CWS sought partial recovery through Tier 3 on 7/15/16, so requests are moot.
<b>AM RSF BA</b>	Rate Support Fund BA	(1) CWS' request to annually recalculate surcharge; (2) Parties' proposals to phase out or modify program (see SR #2).	(1) Agree to annual re-calculation; (2) See discussion of Special Request #2.
<b>AN Infra MA</b>	Infrastructure Act MA	No issues to resolve.	No CPUC action needed.
<b>AO Contam MA</b>	Water Contamination Lit. MA	No issues to resolve.	No CPUC action needed.
<b>AP Gen BA</b>	General District BAs	No issues to resolve.	No CPUC action needed.
<b>AQ ELAMA</b>	East Los Angeles Memo Account	CWS' request to put capital projects into rates and recover carrying costs.	Put depreciated value of capital projects into rate base; recovery carrying costs; defer Phase 2 building improvements.
<b>AR SRM</b>	Sales Recon. Mech. BA	CWS' request to eliminate account.	Eliminate account.
<b>AS ALMA</b>	Asbestos Memo Account	No issues to resolve.	No CPUC action needed.
<b>IFRS MA</b>	Int'l Financial Rep Stds MA	(Has not been triggered.)	Agree to let account lapse.
<b>[none]</b>	Old Interim Rate Surch. Residuals	CWS' request to move residual balances into District-specific Balancing Accounts.	Agree to amortize high balances and credits again, and to transfer low balances to District BAs.

1

2

1 **Q. Who are the beneficiaries of these accounts?**

2 A. In some accounts, the beneficiary is the ratepayer. In other accounts, the  
3 beneficiary is both Cal Water and the ratepayer.

4

5 **Q. How did you determine whether or not Cal Water benefits from a**  
6 **particular memorandum account?**

7 A. Cal Water benefits from a memorandum or balancing account if there is  
8 the potential for Cal Water to recover costs it otherwise would not be able to  
9 collect. As an example, Cal Water maintains a Catastrophic Event Memo Account  
10 (“CEMA”) in which to capture extraordinary costs associated with an earthquake,  
11 dam failure, or other catastrophic event beyond its control. At the time of Cal  
12 Water’s next rate case, or through a separate filing with the Commission, Cal  
13 Water can seek approval to recover those costs even though they may be  
14 classified as non-recurring under normal ratemaking practices.

15 One type of memorandum or balancing account in which Cal Water does  
16 not benefit is the one-way memorandum account. This is a memorandum  
17 account in which Cal Water must refund an over-collection, but is not authorized  
18 to recover from an under-collection. An example of this is the Conservation  
19 Expense One-Way Balancing Account (“CEBA”) that has been adopted in every  
20 general rate case since Cal Water’s 2009 GRC. This account tracks the differences

1 between the actual costs associated with specified conservation efforts and the  
2 projected, or authorized costs. If Cal Water spends less than the authorized  
3 amount, it will refund the difference to the ratepayers. However, if Cal Water  
4 spends more than what was authorized the company will absorb the difference.

5 Another type of memorandum or balancing account Cal Water does not  
6 benefit from would be an account that tracks a public purpose program such as  
7 the Low Income Ratepayer Assistance (“LIRA”) account or Rate Support Fund  
8 (“RSF”) account. Public purpose programs are set up to assist a group or  
9 classification of Cal Water’s ratepayers usually in the form of a discount or credit.  
10 The costs of these programs are spread out among Cal Water’s ratepayers  
11 through a nominal surcharge. If the revenues supporting the programs are less  
12 than the costs of the programs, Cal Water will request to raise the surcharge. If  
13 the revenues collected exceed the cost of the programs, Cal Water will refund  
14 the over-collected portion. While Cal Water appreciates the benefits of these  
15 programs, Cal Water does not directly benefit from these programs.

16

17 **Q. Are there memorandum accounts that only serve to benefit the utility?**

18 A. No. According to Standard Practice U-27-W, upon filing to establish a  
19 memorandum account, the utility must address the following four factors:<sup>8</sup>

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<sup>8</sup> Standard Practice U-27-W, Section 44.

- 1 • The expense is caused by an event of an exceptional nature that is not  
2 under the utility’s control,
- 3 • The expense cannot have been reasonably foreseen in the utility’s last  
4 GRC and will occur before the utility’s next schedule rate case,
- 5 • The expense is of a substantial nature in the amount of money  
6 involved, and
- 7 • The ratepayers will benefit by the memorandum account treatment.

8  
9 In the instances where Cal Water receives Commission approval to recover  
10 an under-collection in a memorandum account, the ratepayer is not harmed for  
11 three main reasons. First, they are paying for the true cost of the service  
12 associated with the account. Second, the utility is required to adhere to specific  
13 guidelines in determining what costs should be included in a memorandum  
14 account. Finally, in order for a utility to recover or refund the balances of the  
15 memorandum accounts, the Commission must scrutinize and deem the costs  
16 reasonable.

17

18 **Q. Do you have any additional concerns regarding the use of memorandum**  
19 **and balancing accounts?**

20 A. Yes. While memorandum and balancing accounts have the potential to  
21 mitigate some risk to the utility and ensure the ratepayer pays the true cost  
22 associated with a particular event or circumstance, Cal Water has concerns  
23 regarding the number of memorandum and balancing accounts, and the lag time  
24 between when the costs occur and when the utility is able to recover those costs.

1           As mentioned above, Cal Water has 39 active memorandum or balancing  
2 accounts. When Cal Water filed its last Cost of Capital application in 2011, it had  
3 21 active memorandum or balancing accounts. Along with the increase in the  
4 number of memorandum accounts comes an increase in the use of Cal Water's  
5 resources to establish, track, maintain, periodically report on and ultimately  
6 attempt to recover the balance in each memorandum account. Also memo  
7 accounts do not adequately compensate Cal Water for the time-value of the  
8 funds it has recorded in the accounts until authorized to recover these costs,  
9 often years into the future. As mentioned before, recovery of the balance of  
10 memorandum accounts is not guaranteed, as the Commission must review and  
11 determine whether the costs associated with each memorandum account are  
12 prudent before Cal Water is able to recover its costs.

13

14 **Q.     What are you requesting in the Cost of Capital proceeding regarding the**  
15 **imbalance in regulatory mechanisms?**

16 A.     The Commission should conclude that the implementation of the earnings  
17 test, the use of capped rate base offset advice letters, and the use of numerous  
18 memorandum and balancing accounts, along with the Commission's other  
19 ratemaking practices, do not provide a uniformly supportive regulatory structure  
20 for water utilities. In fact, many of these mechanisms are designed specifically by

1 the Commission to restrict the earnings of water utilities, not to benefit them.  
2 Therefore the Commission should consider adding basis points to Cal Water's  
3 overall return on equity to compensate for the additional risks and challenges  
4 associated with the asymmetrical regulatory mechanisms.

5

6 **Q. Does this conclude your prepared direct testimony?**

7 A. Yes, it does.