

BUTLER | SNOW

June 21, 2021

VIA ELECTRONIC FILING

Hon. Kenneth C. Hill, Chairman
c/o Ectory Lawless, Docket Room Manager
Tennessee Public Utility Commission
502 Deaderick Street, 4th Floor
Nashville, TN 37243
TPUC.DocketRoom@tn.gov

RE: *Petition of Tennessee-American Water Company Regarding The 2021 Production Costs and Other Pass-Throughs Rider, TPUC Docket No. 21-00006*

Dear Chairman Hill:

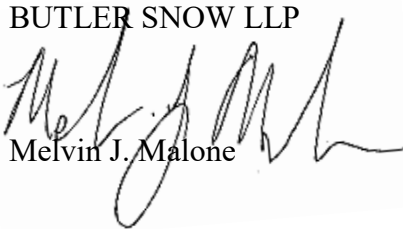
Attached for filing please find *Tennessee-American Water Company's Response to Second Data Requests of the Tennessee Public Utility Commission Staff* in the above-captioned matter.

As required, one (1) hard copy of this filing will be mailed to your office. Should you have any questions concerning this filing, or require additional information, please do not hesitate to contact me.

Very truly yours,

BUTLER SNOW LLP

Melvin J. Malone



clw

Attachments

cc: Todd Wright, TAWC

Karen H. Stachowski, Consumer Advocate Unit

*The Pinnacle at Symphony Place
150 3rd Avenue South, Suite 1600
Nashville, TN 37201*

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**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 21-00006
SECOND STAFF DATA REQUEST OF THE
TENNESSEE PUBLIC UTILITY COMMISSION**

Responsible Witness: Todd P. Wright

Question:

- 2.1 Please provide a re-calculation, including all supporting assumptions and workpapers in Excel format, of allowable expenses under the PCOP rider attributable solely to the Whitwell water system under the following scenarios (for all scenarios please also exclude all Jasper Highlands volumes from the calculations and assume the PCOP will not be assessed to Jasper Highlands' customers):
- a. Allowable Whitwell water system PCOP expenses for each year since inception of the rider assuming a base year amount of \$176,147 for the year ended June 30, 2011, and no recovery through the rider of the initial base year amount.
 - b. Allowable Whitwell water system PCOP expenses for each year since inception of the rider assuming a base year amount of \$301,357 for the year ended November 30, 2014, and no recovery through the rider of the initial base year amount.
 - c. Allowable Whitwell water system PCOP expenses for each year since inception of the rider assuming a base year amount of \$243,877 for the year ended November 30, 2015, and no recovery through the rider of the initial base year amount.

Response:

- 2.1
- a. Attached, the excel file TAW_R_TPUCDR2_001_062121_Attachment includes tabs labeled, "Staff Request 1a. \$176K". This shows the impact for each year with a base year amount of \$176,147. Also, included, in tabs labeled "Staff Request 1a. \$176K with WR" is the impact of the \$176,147 with also including the sale of Walden's Ridge. In order to quantify any adjustment looking back, retroactively, the company believes that Walden's Ridge should be included.
 - b. Attached, the excel file TAW_R_TPUCDR2_001_062121_Attachment includes tabs labeled, "Staff Request 1b. \$301K". This shows the impact for each year with a base year amount of \$301,357. Also, included, in tabs labeled "Staff Request 1b. \$301K with WR" is the impact of the \$301,357 with also including the sale of Walden's Ridge. In order to quantify any adjustment looking back, retroactively, the company believes that Walden's Ridge should be included. The \$301,357, included in Docket #13-00130, is being adjusted for the NRW limiter of 15% as authorized.
 - c. Attached, the excel file TAW_R_TPUCDR2_001_062121_Attachment includes tabs labeled, "Staff Request 1c. \$243K". This shows the impact for each year with a base year amount of \$243,877. Also, included, in tabs labeled "Staff Request 1c. \$243K with WR" is the impact of the \$243,877 with also including the sale of Walden's Ridge. In order to quantify any adjustment looking back, retroactively, the company believes that Walden's Ridge should be included.

Tennessee American Water Company
Response to TPUC Staff Discovery Set Request 2
Docket #21-00006

Staff Request 1a. \$176K

Calculation of Production Costs and Other Pass-Throughs ("PCOP") Including Non-Revenue Water
To Determine PCOP Tariff Rider

Number	Description	Whitwell Adjustment	Docket # 15-00001 Amount	Docket # 15-00131 Amount	Docket # 16-00148 Amount	Docket # 18-00009 Amount	Docket # 19-00010 Amount	Docket # 20-00008 Amount	Docket # 21-00006 Amount	PCOP Totals Amount
I. Calculation of the Base Rate Cost of Production Costs and Other Pass-Throughs as authorized in the Base Rate case (*):										
1	Pro Forma Production Costs and Other Pass-Throughs	\$176,147	\$ 4,238,314	\$ 4,238,314	\$4,238,314	\$4,238,314	\$4,238,314	\$4,238,314	\$4,238,314	\$4,238,314
2	Pro Forma Water Sales (WS) in 100 Gallons	1,527,738	102,116,803	102,116,803	102,106,392	102,106,392	102,106,392	102,106,392	102,106,392	102,106,392
3	Base Rate Cost per 100 Gallons WS (Line 1 / Line 2)	\$0.11530	\$0.04150	\$0.04150	\$0.04151	\$0.04151	\$0.04151	\$0.04151	\$0.04151	\$0.04151
II. Deferral calculation - Actual Non-Revenue Water Cost Production Costs and Other Pass-Throughs vs. the Base Rate Cost (**):										
4	Actual Production Costs and Other Pass-Throughs		\$3,806,190	\$3,606,078	\$3,959,063	\$3,564,211	\$3,606,941	\$3,488,871	\$3,636,606	\$25,667,960
5	Over-Under Collection Adjustment		(\$234,289)	\$129,135	\$83,758	(\$173,805)	(\$72,416)	\$43,494	\$114,026	(\$110,097)
6	Review Period PCOP Costs Adjusted for Over-Under Collections		\$3,571,901	\$3,735,214	\$4,042,821	\$3,390,407	\$3,534,525	\$3,532,365	\$3,750,632	\$25,557,863
7	Actual Water Sales (100 Gallons)		96,335,661	96,367,785	111,094,902	97,522,641	99,751,414	94,297,560	88,492,069	683,862,032
8	Actual Rate Cost Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 6 / Line 7)		\$0.03708	\$0.03876	\$0.03639	\$0.03477	\$0.03543	\$0.03746	\$0.04238	\$0.03737
9	Base Rate Cost per 100 Gallons WS (Line 3)		\$0.04150	\$0.04150	\$0.04151	\$0.04151	\$0.04151	\$0.04151	\$0.04151	\$0.04151
10	Incremental Change in Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 9 - Line 8)		(\$0.00443)	(\$0.00274)	(\$0.00512)	(\$0.00674)	(\$0.00608)	(\$0.00405)	\$0.00088	(\$0.00414)
11	Base Rate Case Water Sales 100 Gallons (Line 2)		102,116,803	102,116,803	102,106,392	102,106,392	102,106,392	102,106,392	102,106,392	
12	Deferral Amount (Line 10 * Line 11)		(\$452,062)	(\$280,269)	(\$522,591)	(\$688,552)	(\$620,345)	(\$413,432)	\$89,345	(\$2,887,906)
III. Calculation of Production Costs and Other Pass-Throughs ("PCOP") Tariff Rider										
13	Total Deferred Amount (Line 12)		(\$452,062)	(\$280,269)	(\$522,591)	(\$688,552)	(\$620,345)	(\$413,432)	\$89,345	(\$2,887,906)
14	Total Deferred Amount Grossed Up for revenue taxes (sum of Gross Receipts Tax and Uncollectibles)		(\$469,021)	(\$290,783)	(\$542,197)	(\$714,384)	(\$643,618)	(\$427,060)	\$92,290	(\$2,994,774)
15	Projected Annual Base Rate Revenue subject to PCOP (*)		47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724
16	PCOP % (Line 14 / Line 15)		-1.00%	-0.62%	-1.15%	-1.52%	-1.37%	-0.91%	0.20%	-6.36%
17	Change to Total Deferred Amount (Line 13)		(\$119,502)	(\$116,932)	(\$120,552)	(\$123,035)	(\$122,014)	(\$118,918)	(\$111,396)	(\$832,348)
18	Change to Total Deferred Amount Grossed Up for revenue taxes (sum of Gross Receipts Tax and Uncollectibles)		(\$123,985)	(\$121,319)	(\$125,074)	(\$127,651)	(\$126,592)	(\$122,838)	(\$115,067)	(\$862,526)
19			0	0	0	0	0	0	0	0
20	Change to PCOP % (Line 18 / Line 15)		-0.26%	-0.26%	-0.27%	-0.27%	-0.27%	-0.26%	-0.24%	-1.83%

(*) The numbers are taken from the settlement agreement in Docket No. 12-00049

(**) The numbers are actuals for the year ended November 30, 2014 including Non-Revenue Water for Purchased Power and Chemicals

Tennessee American Water Company
Response to TPUC Staff Discovery Set Request 2
Docket #21-00006

Staff Request 1b. \$301K

Calculation of Production Costs and Other Pass-Throughs ("PCOP") Including Non-Revenue Water
To Determine PCOP Tariff Rider

Number	Description	Whitwell Adjustment	Docket # 15-00001 Amount	Docket # 15-00131 Amount	Docket # 16-00148 Amount	Docket # 18-00009 Amount	Docket # 19-00010 Amount	Docket # 20-00008 Amount	Docket # 21-00006 Amount	PCOP Totals Amount
I. Calculation of the Base Rate Cost of Production Costs and Other Pass-Throughs as authorized in the Base Rate case (*):										
1	Pro Forma Production Costs and Other Pass-Throughs	244,701	\$ 4,306,868	\$ 4,306,868	\$4,306,868	\$4,306,868	\$4,306,868	\$4,306,868	\$4,306,868	\$4,306,868
2	Pro Forma Water Sales (WS) in 100 Gallons	1,300,550	101,889,615	101,889,615	101,879,204	101,879,204	101,879,204	101,879,204	101,879,204	101,879,204
3	Base Rate Cost per 100 Gallons WS (Line 1 / Line 2)	\$0.18815	\$0.04227	\$0.04227	\$0.04227	\$0.04227	\$0.04227	\$0.04227	\$0.04227	\$0.04227
II. Deferral calculation - Actual Non-Revenue Water Cost Production Costs and Other Pass-Throughs vs. the Base Rate Cost (**):										
4	Actual Production Costs and Other Pass-Throughs		\$3,806,190	\$3,606,078	\$3,959,063	\$3,564,211	\$3,606,941	\$3,488,871	\$3,636,606	\$25,667,960
5	Over-Under Collection Adjustment		(\$234,289)	\$129,135	\$83,758	(\$173,805)	(\$72,416)	\$43,494	\$114,026	(\$110,097)
6	Review Period PCOP Costs Adjusted for Over-Under Collections		\$3,571,901	\$3,735,214	\$4,042,821	\$3,390,407	\$3,534,525	\$3,532,365	\$3,750,632	\$25,557,863
7	Actual Water Sales (100 Gallons)		96,335,661	96,367,785	111,094,902	97,522,641	99,751,414	94,297,560	88,492,069	683,862,032
8	Actual Rate Cost Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 6 / Line 7)		\$0.03708	\$0.03876	\$0.03639	\$0.03477	\$0.03543	\$0.03746	\$0.04238	\$0.03737
9	Base Rate Cost per 100 Gallons WS (Line 3)		\$0.04227	\$0.04227	\$0.04227	\$0.04227	\$0.04227	\$0.04227	\$0.04227	\$0.04227
10	Incremental Change in Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 9 - Line 8)		(\$0.00519)	(\$0.00351)	(\$0.00588)	(\$0.00751)	(\$0.00684)	(\$0.00481)	\$0.00011	(\$0.00490)
11	Base Rate Case Water Sales 100 Gallons (Line 2)		101,889,615	101,889,615	101,879,204	101,879,204	101,879,204	101,879,204	101,879,204	
12	Deferral Amount (Line 10 * Line 11)		(\$529,039)	(\$357,628)	(\$599,413)	(\$765,004)	(\$696,949)	(\$490,497)	\$11,162	(\$3,427,368)
III. Calculation of Production Costs and Other Pass-Throughs ("PCOP") Tariff Rider										
13	Total Deferred Amount (Line 12)		(\$529,039)	(\$357,628)	(\$599,413)	(\$765,004)	(\$696,949)	(\$490,497)	\$11,162	(\$3,427,368)
14	Total Deferred Amount Grossed Up for revenue taxes (sum of Gross Receipts Tax and Uncollectibles)		(\$548,887)	(\$371,045)	(\$621,901)	(\$793,704)	(\$723,096)	(\$506,664)	\$11,530	(\$3,553,768)
15	Projected Annual Base Rate Revenue subject to PCOP (*)		47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724
16	PCOP % (Line 14 / Line 15)		-1.17%	-0.79%	-1.32%	-1.69%	-1.54%	-1.08%	0.02%	-7.55%
17	Change to Total Deferred Amount (Line 13)		(\$196,480)	(\$194,292)	(\$197,373)	(\$199,487)	(\$198,618)	(\$195,983)	(\$189,579)	(\$1,371,811)
18	Change to Total Deferred Amount Grossed Up for revenue taxes (sum of Gross Receipts Tax and Uncollectibles)		(\$203,851)	(\$201,581)	(\$204,778)	(\$206,971)	(\$206,070)	(\$202,443)	(\$195,828)	(\$1,421,521)
19			0	0	0	0	0	0	0	0
20	Change to PCOP % (Line 18 / Line 15)		-0.43%	-0.43%	-0.44%	-0.44%	-0.44%	-0.43%	-0.42%	-3.02%

(*) The numbers are taken from the settlement agreement in Docket No. 12-00049

(**) The numbers are actuals for the year ended November 30, 2014 including Non-Revenue Water for Purchased Power and Chemicals

Tennessee American Water Company
Response to TPUC Staff Discovery Set Request 2
Docket #21-00006

Staff Request 1c. \$243K

Calculation of Production Costs and Other Pass-Throughs ("PCOP") Including Non-Revenue Water
To Determine PCOP Tariff Rider

Number	Description	Whitwell Adjustment	Docket # 15-00001 Amount	Docket # 15-00131 Amount	Docket # 16-00148 Amount	Docket # 18-00009 Amount	Docket # 19-00010 Amount	Docket # 20-00008 Amount	Docket # 21-00006 Amount	PCOP Totals Amount
I. Calculation of the Base Rate Cost of Production Costs and Other Pass-Throughs as authorized in the Base Rate case (*):										
1	Pro Forma Production Costs and Other Pass-Throughs	243,877	\$ 4,306,044	\$ 4,306,044	\$4,306,044	\$4,306,044	\$4,306,044	\$4,306,044	\$4,306,044	\$4,306,044
2	Pro Forma Water Sales (WS) in 100 Gallons	1,300,550	101,889,615	101,889,615	101,879,204	101,879,204	101,879,204	101,879,204	101,879,204	101,879,204
3	Base Rate Cost per 100 Gallons WS (Line 1 / Line 2)	\$0.18752	\$0.04226	\$0.04226	\$0.04227	\$0.04227	\$0.04227	\$0.04227	\$0.04227	\$0.04227

II. Deferral calculation - Actual Non-Revenue Water Cost Production Costs and Other Pass-Throughs vs. the Base Rate Cost ():**

4	Actual Production Costs and Other Pass-Throughs	\$3,806,190	\$3,606,078	\$3,959,063	\$3,564,211	\$3,606,941	\$3,488,871	\$3,636,606	\$25,667,960
5	Over-Under Collection Adjustment	(\$234,289)	\$129,135	\$83,758	(\$173,805)	(\$72,416)	\$43,494	\$114,026	(\$110,097)
6	Review Period PCOP Costs Adjusted for Over-Under Collections	\$3,571,901	\$3,735,214	\$4,042,821	\$3,390,407	\$3,534,525	\$3,532,365	\$3,750,632	\$25,557,863
7	Actual Water Sales (100 Gallons)	96,335,661	96,367,785	111,094,902	97,522,641	99,751,414	94,297,560	88,492,069	683,862,032
8	Actual Rate Cost Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 6 / Line 7)	\$0.03708	\$0.03876	\$0.03639	\$0.03477	\$0.03543	\$0.03746	\$0.04238	\$0.03737
9	Base Rate Cost per 100 Gallons WS (Line 3)	\$0.04226	\$0.04226	\$0.04227	\$0.04227	\$0.04227	\$0.04227	\$0.04227	\$0.04227
10	Incremental Change in Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 9 - Line 8)	(\$0.00518)	(\$0.00350)	(\$0.00588)	(\$0.00750)	(\$0.00683)	(\$0.00481)	\$0.00012	(\$0.00489)
11	Base Rate Case Water Sales 100 Gallons (Line 2)	101,889,615	101,889,615	101,879,204	101,879,204	101,879,204	101,879,204	101,879,204	
12	Deferral Amount (Line 10 * Line 11)	(\$528,215)	(\$356,804)	(\$598,589)	(\$764,180)	(\$696,125)	(\$489,673)	\$11,986	(\$3,421,600)

III. Calculation of Production Costs and Other Pass-Throughs ("PCOP") Tariff Rider

13	Total Deferred Amount (Line 12)	(\$528,215)	(\$356,804)	(\$598,589)	(\$764,180)	(\$696,125)	(\$489,673)	\$11,986	(\$3,421,600)
14	Total Deferred Amount Grossed Up for revenue taxes (sum of Gross Receipts Tax and Uncollectibles)	(\$548,032)	(\$370,190)	(\$621,046)	(\$792,850)	(\$722,241)	(\$505,813)	\$12,381	(\$3,547,791)
15	Projected Annual Base Rate Revenue subject to PCOP (*)	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724
16	PCOP % (Line 14 / Line 15)	-1.16%	-0.79%	-1.32%	-1.68%	-1.53%	-1.07%	0.03%	-7.54%
17	Change to Total Deferred Amount (Line 13)	(\$195,656)	(\$193,468)	(\$196,549)	(\$198,663)	(\$197,794)	(\$195,159)	(\$188,755)	(\$1,366,043)
18	Change to Total Deferred Amount Grossed Up for revenue taxes (sum of Gross Receipts Tax and Uncollectibles)	(\$202,996)	(\$200,726)	(\$203,923)	(\$206,116)	(\$205,215)	(\$201,591)	(\$194,976)	(\$1,415,544)
19		0	0	0	0	0	0	0	0
20	Change to PCOP % (Line 18 / Line 15)	-0.43%	-0.43%	-0.43%	-0.44%	-0.44%	-0.43%	-0.41%	-3.01%

(*) The numbers are taken from the settlement agreement in Docket No. 12-00049

(**) The numbers are actuals for the year ended November 30, 2014 including Non-Revenue Water for Purchased Power and Chemicals

Tennessee American Water Company
Response to TPUC Staff Discovery Set Request 2
Docket #21-00006

Staff Request 1a. \$176 with WR

Calculation of Production Costs and Other Pass-Throughs ("PCOP") Including Non-Revenue Water
To Determine PCOP Tariff Rider

Number	Description	Whitwell Adjustment	Walden's Ridge Adjustment	Docket # 15-00001 Amount	Docket # 15-00131 Amount	Docket # 16-00148 Amount	Docket # 18-00009 Amount	Docket # 19-00010 Amount	Docket # 20-00008 Amount	Docket # 21-00006 Amount	PCOP Totals Amount
I. Calculation of the Base Rate Cost of Production Costs and Other Pass-Throughs as authorized in the Base Rate case (*):											
1	Pro Forma Production Costs and Other Pass-Throughs	176,147	(231,250)	\$ 4,238,314	\$ 4,103,418	\$4,007,064	\$4,007,064	\$4,007,064	\$4,007,064	\$4,007,064	\$4,007,064
2	Pro Forma Water Sales (WS) in 100 Gallons	1,527,738	(3,402,615)	102,116,803	100,131,945	98,703,777	98,703,777	98,703,777	98,703,777	98,703,777	98,703,777
3	Base Rate Cost per 100 Gallons WS (Line 1 / Line 2)	\$0.11530	\$0.06796	\$0.04150	\$0.04098	\$0.04060	\$0.04060	\$0.04060	\$0.04060	\$0.04060	\$0.04060

II. Deferral calculation - Actual Non-Revenue Water Cost Production Costs and Other Pass-Throughs vs. the Base Rate Cost ():**

4	Actual Production Costs and Other Pass-Throughs			\$3,806,190	\$3,606,078	\$3,959,063	\$3,564,211	\$3,606,941	\$3,488,871	\$3,636,606	\$25,667,960
5	Over-Under Collection Adjustment			(\$234,289)	\$129,135	\$83,758	(\$173,805)	(\$72,416)	\$43,494	\$114,026	(\$110,097)
6	Review Period PCOP Costs Adjusted for Over-Under Collections			\$3,571,901	\$3,735,214	\$4,042,821	\$3,390,407	\$3,534,525	\$3,532,365	\$3,750,632	\$25,557,863
7	Actual Water Sales (100 Gallons)			96,335,661	96,367,785	111,094,902	97,522,641	99,751,414	94,297,560	88,492,069	683,862,032
8	Actual Rate Cost Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 6 / Line 7)			\$0.03708	\$0.03876	\$0.03639	\$0.03477	\$0.03543	\$0.03746	\$0.04238	\$0.03737
9	Base Rate Cost per 100 Gallons WS (Line 3)			\$0.04150	\$0.04098	\$0.04060	\$0.04060	\$0.04060	\$0.04060	\$0.04060	\$0.04060
10	Incremental Change in Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 9 - Line 8)			(\$0.00443)	(\$0.00222)	(\$0.00421)	(\$0.00583)	(\$0.00516)	(\$0.00314)	\$0.00179	(\$0.00322)
11	Base Rate Case Water Sales 100 Gallons (Line 2)			102,116,803	100,131,945	98,703,777	98,703,777	98,703,777	98,703,777	98,703,777	
12	Deferral Amount (Line 10 * Line 11)			(\$452,062)	(\$222,306)	(\$415,165)	(\$575,595)	(\$509,661)	(\$309,644)	\$176,379	(\$2,308,052)

III. Calculation of Production Costs and Other Pass-Throughs ("PCOP") Tariff Rider

13	Total Deferred Amount (Line 12)			(\$452,062)	(\$222,306)	(\$415,165)	(\$575,595)	(\$509,661)	(\$309,644)	\$176,379	(\$2,308,052)
14	Total Deferred Amount Grossed Up for revenue taxes (sum of Gross Receipts Tax and Uncollectibles)			(\$469,021)	(\$230,646)	(\$430,740)	(\$597,189)	(\$528,781)	(\$319,850)	\$182,193	(\$2,394,036)
15	Projected Annual Base Rate Revenue subject to PCOP (*)			47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724
16	PCOP % (Line 14 / Line 15)			-1.00%	-0.49%	-0.92%	-1.27%	-1.12%	-0.68%	0.39%	-5.09%
17	Change to Total Deferred Amount (Line 13)			(\$119,502)	(\$58,969)	(\$13,125)	(\$10,078)	(\$11,330)	(\$15,129)	(\$24,361)	(\$252,495)
18	Change to Total Deferred Amount Grossed Up for revenue taxes (sum of Gross Receipts Tax and Uncollectibles)			(\$123,985)	(\$61,181)	(\$13,617)	(\$10,456)	(\$11,755)	(\$15,628)	(\$25,164)	(\$261,788)
19				0	0	0	0	0	0	0	0
20	Change to PCOP % (Line 18 / Line 15)			-0.26%	-0.13%	-0.03%	-0.02%	-0.02%	-0.03%	-0.05%	-0.56%

(*) The numbers are taken from the settlement agreement in Docket No. 12-00049

(**) The numbers are actuals for the year ended November 30, 2014 including Non-Revenue Water for Purchased Power and Chemicals

Tennessee American Water Company
Response to TPUC Staff Discovery Set Request 2
Docket #21-00006

Staff Request 1b. \$301 with WR

Calculation of Production Costs and Other Pass-Throughs ("PCOP") Including Non-Revenue Water
To Determine PCOP Tariff Rider

Number	Description	Whitwell Adjustment	Walden's Ridge Adjustment	Docket # 15-00001 Amount	Docket # 15-00131 Amount	Docket # 16-00148 Amount	Docket # 18-00009 Amount	Docket # 19-00010 Amount	Docket # 20-00008 Amount	Docket # 21-00006 Amount	PCOP Totals Amount
I. Calculation of the Base Rate Cost of Production Costs and Other Pass-Throughs as authorized in the Base Rate case (*):											
1	Pro Forma Production Costs and Other Pass-Throughs	244,701	(231,250)	\$ 4,306,868	\$ 4,171,972	\$4,075,618	\$4,075,618	\$4,075,618	\$4,075,618	\$4,075,618	\$4,075,618
2	Pro Forma Water Sales (WS) in 100 Gallons	1,300,550	(3,402,615)	101,889,615	99,904,757	98,476,589	98,476,589	98,476,589	98,476,589	98,476,589	98,476,589
3	Base Rate Cost per 100 Gallons WS (Line 1 / Line 2)	\$0.18815	\$0.06796	\$0.04227	\$0.04176	\$0.04139	\$0.04139	\$0.04139	\$0.04139	\$0.04139	\$0.04139

II. Deferral calculation - Actual Non-Revenue Water Cost Production Costs and Other Pass-Throughs vs. the Base Rate Cost ():**

4	Actual Production Costs and Other Pass-Throughs			\$3,806,190	\$3,606,078	\$3,959,063	\$3,564,211	\$3,606,941	\$3,488,871	\$3,636,606	\$25,667,960
5	Over-Under Collection Adjustment			(\$234,289)	\$129,135	\$83,758	(\$173,805)	(\$72,416)	\$43,494	\$114,026	(\$110,097)
6	Review Period PCOP Costs Adjusted for Over-Under Collections			\$3,571,901	\$3,735,214	\$4,042,821	\$3,390,407	\$3,534,525	\$3,532,365	\$3,750,632	\$25,557,863
7	Actual Water Sales (100 Gallons)			96,335,661	96,367,785	111,094,902	97,522,641	99,751,414	94,297,560	88,492,069	683,862,032
8	Actual Rate Cost Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 6 / Line 7)			\$0.03708	\$0.03876	\$0.03639	\$0.03477	\$0.03543	\$0.03746	\$0.04238	\$0.03737
9	Base Rate Cost per 100 Gallons WS (Line 3)			\$0.04227	\$0.04176	\$0.04139	\$0.04139	\$0.04139	\$0.04139	\$0.04139	\$0.04139
10	Incremental Change in Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 9 - Line 8)			(\$0.00519)	(\$0.00300)	(\$0.00500)	(\$0.00662)	(\$0.00595)	(\$0.00393)	\$0.00100	(\$0.00401)
11	Base Rate Case Water Sales 100 Gallons (Line 2)			101,889,615	99,904,757	98,476,589	98,476,589	98,476,589	98,476,589	98,476,589	
12	Deferral Amount (Line 10 * Line 11)			(\$529,039)	(\$299,666)	(\$491,986)	(\$652,047)	(\$586,265)	(\$386,708)	\$98,196	(\$2,847,515)

III. Calculation of Production Costs and Other Pass-Throughs ("PCOP") Tariff Rider

13	Total Deferred Amount (Line 12)			(\$529,039)	(\$299,666)	(\$491,986)	(\$652,047)	(\$586,265)	(\$386,708)	\$98,196	(\$2,847,515)
14	Total Deferred Amount Grossed Up for revenue taxes (sum of Gross Receipts Tax and Uncollectibles)			(\$548,887)	(\$310,908)	(\$510,444)	(\$676,510)	(\$608,259)	(\$399,455)	\$101,433	(\$2,953,030)
15	Projected Annual Base Rate Revenue subject to PCOP (*)			47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724
16	PCOP % (Line 14 / Line 15)			-1.17%	-0.66%	-1.08%	-1.44%	-1.29%	-0.85%	0.22%	-6.27%
17	Change to Total Deferred Amount (Line 13)			(\$196,480)	(\$136,329)	(\$89,947)	(\$86,530)	(\$87,934)	(\$92,194)	(\$102,545)	(\$791,958)
18	Change to Total Deferred Amount Grossed Up for revenue taxes (sum of Gross Receipts Tax and Uncollectibles)			(\$203,851)	(\$141,444)	(\$93,321)	(\$89,776)	(\$91,233)	(\$95,233)	(\$105,925)	(\$820,782)
19				0	0	0	0	0	0	0	0
20	Change to PCOP % (Line 18 / Line 15)			-0.43%	-0.30%	-0.20%	-0.19%	-0.19%	-0.20%	-0.23%	-1.74%

(*) The numbers are taken from the settlement agreement in Docket No. 12-00049

(**) The numbers are actuals for the year ended November 30, 2014 including Non-Revenue Water for Purchased Power and Chemicals

Tennessee American Water Company
Response to TPUC Staff Discovery Set Request 2
Docket #21-00006

Staff Request 1c. \$243 with WR

Calculation of Production Costs and Other Pass-Throughs ("PCOP") Including Non-Revenue Water
To Determine PCOP Tariff Rider

Number	Description	Whitwell Adjustment	Walden's Ridge Adjustment	Docket # 15-00001 Amount	Docket # 15-00131 Amount	Docket # 16-00148 Amount	Docket # 18-00009 Amount	Docket # 19-00010 Amount	Docket # 20-00008 Amount	Docket # 21-00006 Amount	PCOP Totals Amount
I. Calculation of the Base Rate Cost of Production Costs and Other Pass-Throughs as authorized in the Base Rate case (*):											
1	Pro Forma Production Costs and Other Pass-Throughs	243,877	(231,250)	\$ 4,306,044	\$ 4,171,148	\$4,074,794	\$4,074,794	\$4,074,794	\$4,074,794	\$4,074,794	\$4,074,794
2	Pro Forma Water Sales (WS) in 100 Gallons	1,300,550	(3,402,615)	101,889,615	99,904,757	98,476,589	98,476,589	98,476,589	98,476,589	98,476,589	98,476,589
3	Base Rate Cost per 100 Gallons WS (Line 1 / Line 2)	\$0.18752	\$0.06796	\$0.04226	\$0.04175	\$0.04138	\$0.04138	\$0.04138	\$0.04138	\$0.04138	\$0.04138
II. Deferral calculation - Actual Non-Revenue Water Cost Production Costs and Other Pass-Throughs vs. the Base Rate Cost (**):											
4	Actual Production Costs and Other Pass-Throughs			\$3,806,190	\$3,606,078	\$3,959,063	\$3,564,211	\$3,606,941	\$3,488,871	\$3,636,606	\$25,667,960
5	Over-Under Collection Adjustment			(\$234,289)	\$129,135	\$83,758	(\$173,805)	(\$72,416)	\$43,494	\$114,026	(\$110,097)
6	Review Period PCOP Costs Adjusted for Over-Under Collections			\$3,571,901	\$3,735,214	\$4,042,821	\$3,390,407	\$3,534,525	\$3,532,365	\$3,750,632	\$25,557,863
7	Actual Water Sales (100 Gallons)			96,335,661	96,367,785	111,094,902	97,522,641	99,751,414	94,297,560	88,492,069	683,862,032
8	Actual Rate Cost Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 6 / Line 7)			\$0.03708	\$0.03876	\$0.03639	\$0.03477	\$0.03543	\$0.03746	\$0.04238	\$0.03737
9	Base Rate Cost per 100 Gallons WS (Line 3)			\$0.04226	\$0.04175	\$0.04138	\$0.04138	\$0.04138	\$0.04138	\$0.04138	\$0.04138
10	Incremental Change in Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 9 - Line 8)			(\$0.00518)	(\$0.00299)	(\$0.00499)	(\$0.00661)	(\$0.00594)	(\$0.00392)	\$0.00101	(\$0.00401)
11	Base Rate Case Water Sales 100 Gallons (Line 2)			101,889,615	99,904,757	98,476,589	98,476,589	98,476,589	98,476,589	98,476,589	
12	Deferral Amount (Line 10 * Line 11)			(\$528,215)	(\$298,842)	(\$491,162)	(\$651,223)	(\$585,441)	(\$385,884)	\$99,020	(\$2,841,747)
III. Calculation of Production Costs and Other Pass-Throughs ("PCOP") Tariff Rider											
13	Total Deferred Amount (Line 12)			(\$528,215)	(\$298,842)	(\$491,162)	(\$651,223)	(\$585,441)	(\$385,884)	\$99,020	(\$2,841,747)
14	Total Deferred Amount Grossed Up for revenue taxes (sum of Gross Receipts Tax and Uncollectibles)			(\$548,032)	(\$310,053)	(\$509,589)	(\$675,655)	(\$607,404)	(\$398,603)	\$102,284	(\$2,947,053)
15	Projected Annual Base Rate Revenue subject to PCOP (*)			47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724
16	PCOP % (Line 14 / Line 15)			-1.16%	-0.66%	-1.08%	-1.44%	-1.29%	-0.85%	0.22%	-6.26%
17	Change to Total Deferred Amount (Line 13)			(\$195,656)	(\$135,505)	(\$89,123)	(\$85,706)	(\$87,110)	(\$91,370)	(\$101,721)	(\$786,190)
18	Change to Total Deferred Amount Grossed Up for revenue taxes (sum of Gross Receipts Tax and Uncollectibles)			(\$202,996)	(\$140,589)	(\$92,466)	(\$88,921)	(\$90,378)	(\$94,382)	(\$105,073)	(\$814,805)
19				0	0	0	0	0	0	0	0
20	Change to PCOP % (Line 18 / Line 15)			-0.43%	-0.30%	-0.20%	-0.19%	-0.19%	-0.20%	-0.22%	-1.73%

(*) The numbers are taken from the settlement agreement in Docket No. 12-00049

(**) The numbers are actuals for the year ended November 30, 2014 including Non-Revenue Water for Purchased Power and Chemicals

Tennessee American Water Company
Response to TPUC Staff Discovery Set Request 2
Docket #21-00006

PCOP Calcs Original

Calculation of Production Costs and Other Pass-Throughs ("PCOP") Including Non-Revenue Water
To Determine PCOP Tariff Rider

		Docket # 15-00001	Docket # 15-00131	Docket # 16-00148	Docket # 18-00009	Docket # 19-00010	Docket # 20-00008	Docket # 21-00006	PCOP Totals
Number	Description	Amount	Amount	Amount	Amount	Amount	Amount	Amount	Amount
I. Calculation of the Base Rate Cost of Production Costs and Other Pass-Throughs as authorized in the Base Rate case (*):									
1	Pro Forma Production Costs and Other Pass-Throughs	\$4,062,167	\$4,062,167	\$4,062,167	\$4,062,167	\$4,062,167	\$4,062,167	\$4,062,167	\$4,062,167
2	Pro Forma Water Sales (WS) in 100 Gallons	100,589,065	100,589,065	100,578,654	100,578,654	100,578,654	100,578,654	100,578,654	100,578,654
3	Base Rate Cost per 100 Gallons WS (Line 1 / Line 2)	\$0.04038	\$0.04038	\$0.04039	\$0.04039	\$0.04039	\$0.04039	\$0.04039	\$0.04039
II. Deferral calculation - Actual Non-Revenue Water Cost Production Costs and Other Pass-Throughs vs. the Base Rate Cost (**):									
4	Actual Production Costs and Other Pass-Throughs	\$3,806,190	\$3,606,078	\$3,959,063	\$3,564,211	\$3,606,941	\$3,488,871	\$3,636,606	\$25,667,960
5	Over-Under Collection Adjustment	(\$234,289)	\$129,135	\$83,758	(\$173,805)	(\$72,416)	\$43,494	\$114,026	(\$110,097)
6	Review Period PCOP Costs Adjusted for Over-Under Collections	\$3,571,901	\$3,735,214	\$4,042,821	\$3,390,407	\$3,534,525	\$3,532,365	\$3,750,632	\$25,557,863
7	Actual Water Sales (100 Gallons)	96,335,661	96,367,785	111,094,902	97,522,641	99,751,414	94,297,560	88,492,069	683,862,032
8	Actual Rate Cost Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 6 / Line 7)	\$0.03708	\$0.03876	\$0.03639	\$0.03477	\$0.03543	\$0.03746	\$0.04238	\$0.03737
9	Base Rate Cost per 100 Gallons WS (Line 3)	\$0.04038	\$0.04038	\$0.04039	\$0.04039	\$0.04039	\$0.04039	\$0.04039	\$0.04039
10	Incremental Change in Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 9 - Line 8)	(\$0.00331)	(\$0.00162)	(\$0.00400)	(\$0.00562)	(\$0.00495)	(\$0.00293)	\$0.00200	(\$0.00302)
11	Base Rate Case Water Sales 100 Gallons (Line 2)	100,589,065	100,589,065	100,578,654	100,578,654	100,578,654	100,578,654	100,578,654	
12	Deferral Amount (Line 10 * Line 11)	(\$332,560)	(\$163,337)	(\$402,040)	(\$565,517)	(\$498,330)	(\$294,514)	\$200,740	(\$2,055,557)
III. Calculation of Production Costs and Other Pass-Throughs ("PCOP") Tariff Rider									
13	Total Deferred Amount (Line 12)	(\$332,560)	(\$163,337)	(\$402,040)	(\$565,517)	(\$498,330)	(\$294,514)	\$200,740	(\$2,055,557)
14	Total Deferred Amount Grossed Up for revenue taxes (sum of Gross Receipts Tax and Uncollectibles	(\$345,036)	(\$169,464)	(\$417,123)	(\$586,733)	(\$517,026)	(\$304,222)	\$207,357	(\$2,132,248)
15	Projected Annual Base Rate Revenue subject to PCOP (*)	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724	47,073,724
16	PCOP % (Line 14 / Line 15)	-0.73%	-0.36%	-0.89%	-1.25%	-1.10%	-0.65%	0.44%	-4.53%

(*) The numbers are taken from the settlement agreement in Docket No. 12-00049

(**) The numbers are actuals for the year ended November 30, 2014 including Non-Revenue Water for Purchased Power and Chemicals

Tennessee American Water Company
Docket No. 15-00001

Calculation of Production Costs and Other Pass-Throughs ("PCOP") Including Non-Revenue Water
To Determine PCOP Tariff Rider
Actuals for the Year Ending November 30, 2014

Number	Description	Amount
<u>I. Calculation of the Base Rate Cost of Production Costs and Other Pass-Throughs as authorized in the Base Rate case (*):</u>		
1	Pro Forma Production Costs and Other Pass-Throughs	\$ 4,062,167
2	Pro Forma Water Sales (WS) in 100 Gallons	<u>100,589,065</u>
3	Base Rate Cost per 100 Gallons WS (Line 1 / Line 2)	<u>\$ 0.04038</u>
<u>II. Deferral calculation - Actual Non-Revenue Water Cost Production Costs and Other Pass-Throughs vs. the Base Rate Cost (**):</u>		
4	Actual Production Costs and Other Pass-Throughs	\$ 3,806,190
5	Over-Under Collection Adjustment	\$ (234,289)
6	Review Period PCOP Costs Adjusted for Over-Under Collections	\$ 3,571,901
7	Actual Water Sales (100 Gallons)	<u>96,335,661</u>
8	Actual Rate Cost Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 6 / Line 7)	\$ 0.03708
9	Base Rate Cost per 100 Gallons WS (Line 3)	<u>\$ 0.04038</u>
10	Incremental Change in Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 9 - Line 8)	\$ (0.00331)
11	Base Rate Case Water Sales 100 Gallons (Line 2)	<u>100,589,065</u>
12	Deferral Amount (Line 10 * Line 11)	<u>\$ (332,560)</u>
<u>III. Calculation of Production Costs and Other Pass-Throughs ("PCOP") Tariff Rider</u>		
13	Total Deferred Amount (Line 12)	\$ (332,560)
14	Total Deferred Amount Grossed Up for revenue taxes (sum of Gross Receipts Tax and Uncollectibles (Line 13 / (1.0-.03616))) (***)	\$ (345,036)
15	Projected Annual Base Rate Revenue subject to PCOP (*)	<u>47,073,724</u>
16	PCOP % (Line 14 / Line 15)	<u>-0.73%</u>

(*) The numbers are taken from the settlement agreement in Docket No. 12-00049

(**) The numbers are actuals for the year ended November 30, 2014 including Non-Revenue Water for Purchased Power and Chemicals

(***) Assumes Gross Receipts Tax @ 3.0%, Uncollectibles @ 1.0571%, TRA Fee @ 0.4250%, and Forfeited Discount Rate @ -0.8661%

Tennessee American Water Company
Docket No. 15-00001
For the Twelve Months Ending November 30, 2014
PCOP Actual Expenses

Total Company		A	B	C	D	E	F
					C - B		E - D
		For the 12 Months Ending 11/30/2014	**NRW Limited 12 Mos Ending 11/2014 (Column A, Lines 1 and 2 x Line 18 Recoverable %)	Authorized Amount Per Docket 12-00049	Difference NRW Limited from Authorized Docket 12-00049	Adjust Difference for TRA Fee Recovered Via SEC, EDI, or QHP 12 Months Ending 11/30/2014	Adjusted Difference
Line #	Description						
1	Purchased Water Including Wheeling Charges	\$ 43,465	\$ 43,465	\$ 51,331	\$ (7,866)		\$ (7,866)
2	Purchased Power***	2,641,148	2,399,543	2,678,772	(279,229)		(279,229)
3	Chemicals	918,055	834,074	986,930	(152,856)		(152,856)
4	Waste Disposal	347,764	347,764	213,308	134,456		134,456
5	TRA Inspection Fee	181,344	181,344	131,826	49,518		49,518
6							
7	Total	<u>\$ 4,131,775</u>	<u>\$ 3,806,190</u>	<u>\$ 4,062,167</u>	<u>\$ (255,977)</u>	<u>\$ -</u>	<u>\$ (255,977)</u>
8							
9							
10	Sales in 100 Gallons	96,335,661	96,335,661	100,589,065		96,335,661	
11							
12	Cost per 100 Gallons (Line 7 / Line 10)	<u>\$ 0.04289</u>	<u>\$ 0.03951</u>	<u>\$ 0.04038</u>	<u>\$ (0.00087)</u>	<u>\$ -</u>	<u>\$ (0.00087)</u>
Recoverable % for Production Costs		For the 12 Months Ending 11/30/2014					
13	Sales	96,335,661					
14	System Delivery	127,004,287					
15	Non-Revenue Water % [1 - (Line 13 / Line 14)]	24.1%					
16	Non-Revenue Water % Authorized	15.0%					
17	Variance (If Line 15 > Line 16 then Line 15 - Line 16)	9.1%					
18	Recoverable % (1 - Line 17)	<u>90.9%</u>					

**Non-Revenue Water is only applied to purchased power and chemicals.

*** Purchased Power has been adjusted with the removal of \$196.33 in late fees on Sequachee Valley Electric bills

Tennessee American Water Company
Docket No. 15-00001
For the Twelve Months Ending November 30, 2014
PCOP Actual Expenses

Whitwell Only		A	B	C	D	E	F
					C - B		E - D
		For the 12 Months Ending 11/30/2014	**NRW Limited 12 Mos Ending 11/2014 (Column A, Lines 1 and 2 x Line 18 Recoverable %)	Authorized Amount Per Docket 12-00049	Difference NRW Limited from Authorized Docket 12-00049	Adjust Difference for TRA Fee Recovered Via SEC, EDI, or QHP 12 Months Ending 11/30/2014	Adjusted Difference
Line #	Description						
1	Purchased Water Including Wheeling Charges	\$ -					
2	Purchased Power	78,337					
3	Chemicals	68,533					
4	Waste Disposal	154,488					
5	TRA Inspection Fee	-					
6							
7	Total	\$ 301,357	\$ -	\$ -	\$ -	\$ -	\$ -
8							
9							
10	Sales in 100 Gallons	1,300,550					
11							
12	Cost per 100 Gallons (Line 7 / Line 10)	\$ 0.23172	#DIV/0!	\$ -	#DIV/0!	#DIV/0!	#DIV/0!
Recoverable % for Production Costs		For the 12 Months Ending 11/30/2014					
13	Sales	1,300,550					
14	System Delivery	2,801,450					
15	Non-Revenue Water % [1 - (Line 13 / Line 14)]	53.6%					
16	Non-Revenue Water % Authorized	15.0%					
17	Variance (If Line 15 > Line 16 then Line 15 - Line 16)	38.6%					
18	Recoverable % (1 - Line 17)	61.4%					

**Non-Revenue Water is only applied to purchased power and chemicals.

Tennessee American Water Company
Docket No. 15-00001
For the Twelve Months Ending November 30, 2014
PCOP Actual Expenses

Total Company Without Whitwell		A	B	C	D	E	F
					C - B		E - D
			**NRW Limited		Difference	Adjust Difference for	
		For the 12	12 Mos Ending 11/2014	Authorized	NRW Limited	TRA Fee Recovered Via	
		Months Ending	(Column A, Lines 1 and 2	Amount Per	from Authorized	SEC, EDI, or QHP	
		11/30/2014	x Line 18 Recoverable %)	Docket 12-00049	Docket 12-00049	12 Months Ending	Adjusted
Line #	Description					11/30/2014	Difference
1	Purchased Water Including Wheeling Charges	\$ 43,465	\$ 43,465	\$ 51,331	\$ (7,866)		\$ (7,866)
2	Purchased Power	2,563,008	2,345,563	2,678,772	(333,209)		(333,209)
3	Chemicals	849,523	777,450	986,930	(209,480)		(209,480)
4	Waste Disposal	193,276	193,276	213,308	(20,032)		(20,032)
5	TRA Inspection Fee	181,344	181,344	131,826	49,518		49,518
6							
7		0 \$ 3,830,615	\$ 3,541,098	\$ 4,062,167	\$ (521,069)	\$ -	\$ (521,069)
8							
9							
10	Sales in 100 Gallons	95,035,111	95,035,111	100,589,065		95,035,111	
11							
12	Cost per 100 Gallons (Line 7 / Line 10)	\$ 0.04031	\$ 0.03726	\$ 0.04038	\$ (0.00312)	\$ -	\$ (0.00312)
Recoverable % for Production Costs		For the 12					
		Months Ending					
		11/30/2014					
13	Sales	95,035,111					
14	System Delivery	124,202,837					
15	Non-Revenue Water % [1 - (Line 13 / Line 14)]	23.5%					
16	Non-Revenue Water % Authorized	15.0%					
17	Variance (If Line 15 > Line 16 then Line 15 - Line 16)	8.5%					
18	Recoverable % (1 - Line 17)	91.5%					

**Non-Revenue Water is only applied to purchased power and chemicals.

Tennessee American Water Usage
Production Costs and Other Pass-Throughs

	System		
	Water Usage	Delivery	NRW
2013 Dec	744,837	1,001,207	25.61%
2014 Jan	819,151	1,179,870	30.57%
2014 Feb	762,538	989,679	22.95%
2014 Mar	691,299	1,048,486	34.07%
2014 Apr	898,655	1,018,425	11.76%
2014 May	763,322	1,096,802	30.40%
2014 Jun	802,012	1,072,813	25.24%
2014 Jul	928,446	1,163,358	20.19%
2014 Aug	832,785	1,122,070	25.78%
2014 Sep	843,014	1,029,569	18.12%
2014 Oct	843,620	1,032,446	18.29%
2014 Nov	703,886	945,704	25.57%
	9,633,566	12,700,429	24.05%

Tennessee American Water Usage
Production Costs and Other Pass-Throughs
Whitwell Only

	System		
	Water Usage	Delivery	NRW
2013 Dec	-	-	0.00%
2014 Jan	9,553	29,425	67.53%
2014 Feb	13,081	24,252	46.06%
2014 Mar	10,348	24,605	57.94%
2014 Apr	10,937	24,370	55.12%
2014 May	11,164	25,945	56.97%
2014 Jun	11,164	23,566	52.63%
2014 Jul	11,263	25,029	55.00%
2014 Aug	13,101	26,438	50.45%
2014 Sep	13,917	25,733	45.92%
2014 Oct	11,860	26,166	54.67%
2014 Nov	13,667	24,616	44.48%
	130,055	280,145	53.34%

Tennessee American Water Company
Docket No. 15-00001
For the Twelve Months Ending November 30, 2014
PCOP Actual Expenses
[Link In Page](#)

Description	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Total
Purchased Water	\$ 3,464	\$ 2,692	\$ 2,781	\$ 2,325	\$ 2,946	\$ 5,263	\$ 4,007	\$ 4,059	\$ 3,984	\$ 3,560	\$ 4,712	\$ 3,671	\$ 43,465
Purchased Power	196,426	235,499	232,546	222,579	214,782	227,103	226,211	233,909	221,407	219,579	210,459	200,845	2,641,344
Chemicals	68,178	69,127	67,084	65,179	75,380	76,908	76,926	81,523	109,869	105,150	65,079	57,652	918,055
Waste Disposal	7,254	30,553	45,541	19,135	27,737	43,692	18,961	40,796	36,410	44,184	18,586	14,916	347,764
TRA Inspection Fee (Amortized in 16530000)	11,561	11,561	11,561	27,055	11,561	15,435	15,435	15,435	15,435	15,435	15,435	15,435	181,344
Total	\$ 286,884	\$ 349,432	\$ 359,512	\$ 336,273	\$ 332,405	\$ 368,400	\$ 341,539	\$ 375,722	\$ 387,106	\$ 387,909	\$ 314,271	\$ 292,519	\$ 4,131,972

Amounts Approved in Docket 12-00049

Total
Purchased Power \$ 2,678,772
Chemicals 986,930
Purchased Water 51,331
TRA Inspection Fee 131,826
Waste Disposal 213,308

Authorized Sales in 100 Gallons 100,589,065

Authorized Water Sales \$ 47,073,724

	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Total
System Delivery	1,001,207	1,179,870	989,679	1,048,486	1,018,425	1,096,802	1,072,813	1,163,358	1,122,070	1,029,569	1,032,446	945,704	12,700,429
Water Sales	744,837	819,151	762,538	691,299	898,655	763,322	802,012	928,446	832,785	843,014	843,620	703,886	9,633,566
2014 Under recovery	-\$234,288.75												

Whitwell Only

Description	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Total
Purchased Water	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Purchased Power	-	7,397	8,980	8,409	7,594	6,327	6,747	6,437	6,733	6,871	6,276	6,566	78,337
Chemicals	-	3,197	4,833	11,236	8,591	7,644	3,128	8,152	10,618	-	6,468	4,666	68,533
Waste Disposal	-	-	24,788	-	20,588	24,425	-	24,225	31,661	28,581	220	-	154,488
TRA Inspection Fee (Amortized in 16530000)	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	\$ -	\$ 10,595	\$ 38,600	\$ 19,646	\$ 36,773	\$ 38,396	\$ 9,875	\$ 38,814	\$ 49,011	\$ 35,452	\$ 12,965	\$ 11,232	\$ 301,357

Whitwell Only

	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Total
System Delivery	-	29,425	24,252	24,605	24,370	25,945	23,566	25,029	26,438	25,733	26,166	24,616	280,145
Water Sales	-	9,553	13,081	10,348	10,937	11,164	11,164	11,263	13,101	13,917	11,860	13,667	130,055

Tennessee American Water Company
Docket No. 15-00131

Calculation of Production Costs and Other Pass-Throughs ("PCOP") Including Non-Revenue Water
To Determine PCOP Tariff Rider
Actuals for the Year Ending November 30, 2015

Number	Description	Amount
<u>I. Calculation of the Base Rate Cost of Production Costs and Other Pass-Throughs as authorized in the Base Rate case (*):</u>		
1	Pro Forma Production Costs and Other Pass-Throughs	\$ 4,062,167
2	Pro Forma Water Sales (WS) in 100 Gallons	<u>100,589,065</u>
3	Base Rate Cost per 100 Gallons WS (Line 1 / Line 2)	<u>\$ 0.04038</u>
<u>II. Deferral calculation - Actual Non-Revenue Water Cost Production Costs and Other Pass-Throughs vs. the Base Rate Cost (**):</u>		
4	Actual Production Costs and Other Pass-Throughs	\$ 3,606,078
5	Over-Under Collection Adjustment	\$ 129,135
6	Review Period PCOP Costs Adjusted for Over-Under Collections	\$ 3,735,214
7	Actual Water Sales (100 Gallons)	<u>96,367,785</u>
8	Actual Rate Cost Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 6 / Line 7)	\$ 0.03876
9	Base Rate Cost per 100 Gallons WS (Line 3)	<u>\$ 0.04038</u>
10	Incremental Change in Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 9 - Line 8)	\$ (0.00162)
11	Base Rate Case Water Sales 100 Gallons (Line 2)	<u>100,589,065</u>
12	Deferral Amount (Line 10 * Line 11)	<u>\$ (163,337)</u>
<u>III. Calculation of Production Costs and Other Pass-Throughs ("PCOP") Tariff Rider</u>		
13	Total Deferred Amount (Line 12)	\$ (163,337)
14	Total Deferred Amount Grossed Up for revenue taxes (sum of Gross Receipts Tax and Uncollectibles (Line 13 / (1.0-.03616))) (***)	\$ (169,464)
15	Projected Annual Base Rate Revenue subject to PCOP (*)	<u>47,073,724</u>
16	PCOP % (Line 14 / Line 15)	<u>-0.36%</u>

(*) The numbers are taken from the settlement agreement in Docket No. 12-00049

(**) The numbers are actuals for the year ended November 30, 2015 including Non-Revenue Water for Purchased Power and Chemicals

(***) Assumes Gross Receipts Tax @ 3.0%, Uncollectibles @ 1.0571%, TRA Fee @ 0.4250%, and Forfeited Discount Rate @ -0.8661%

Tennessee American Water Company
Docket No. 15-00131
For the Twelve Months Ending November 30, 2015
PCOP Actual Expenses

Line #	Description	A For the 12 Months Ending 11/30/2015	B **NRW Limited 12 Mos Ending 11/2015 (Column A, Lines 1 and 2 x Line 18 Recoverable %)	C Authorized Amount Per Docket 12-00049	D C - B Difference NRW Limited from Authorized Docket 12-00049	E Adjust Difference for TRA Fee Recovered Via SEC, EDI, or QHP 12 Months Ending 11/30/2015	F E - D Adjusted Difference
1	Purchased Water Including Wheeling Charges	\$ 51,841	\$ 51,841	\$ 51,331	\$ 510		\$ 510
2	Purchased Power***	2,419,901	2,256,687	2,678,772	(422,085)		(422,085)
3	Chemicals	775,728	723,408	986,930	(263,522)		(263,522)
4	Waste Disposal	387,332	387,332	213,308	174,024		174,024
5	TRA Inspection Fee	186,811	186,811	131,826	54,985	-	54,985
6							
7	Total	<u>\$ 3,821,613</u>	<u>\$ 3,606,078</u>	<u>\$ 4,062,167</u>	<u>\$ (456,089)</u>	<u>\$ -</u>	<u>\$ (456,089)</u>
8							
9							
10	Sales in 100 Gallons	96,367,785	96,367,785	100,589,065		96,367,785	
11							
12	Cost per 100 Gallons (Line 7 / Line 10)	<u>\$ 0.03966</u>	<u>\$ 0.03742</u>	<u>\$ 0.04038</u>	<u>\$ (0.00296)</u>	<u>\$ -</u>	<u>\$ (0.00296)</u>

Recoverable % for Production Costs	For the 12 Months Ending 11/30/2015
13 Sales	96,367,785
14 System Delivery	123,145,321
15 Non-Revenue Water % [1 - (Line 13 / Line 14)]	21.7%
16 Non-Revenue Water % Authorized	15.0%
17 Variance (If Line 15 > Line 16 then Line 15 - Line 16)	6.7%
18 Recoverable % (1 - Line 17)	<u>93.3%</u>

***Non-Revenue Water is only applied to purchased power and chemicals.

Tennessee American Water Usage
Production Costs and Other Pass-Throughs

	Water Usage	System Delivery	NRW
2014 Dec	713,000	954,926	25.33%
2015 Jan	856,650	1,028,422	16.70%
2015 Feb	658,520	954,501	31.01%
2015 Mar	773,739	1,046,402	26.06%
2015 Apr	752,111	975,829	22.93%
2015 May	729,112	1,048,213	30.44%
2015 Jun	902,014	1,054,349	14.45%
2015 Jul	921,893	1,134,693	18.75%
2015 Aug	905,596	1,142,008	20.70%
2015 Sep	888,736	1,038,257	14.40%
2015 Oct	852,882	998,560	14.59%
2015 Nov	682,526	938,372	27.26%
	9,636,778	12,314,532	21.74%
	Average NRW		21.89%

Tennessee American Water Company
Docket No. 16-00148

Calculation of Production Costs and Other Pass-Throughs ("PCOP") Including Non-Revenue Water
To Determine PCOP Tariff Rider
Actuals for the Year Ending November 30, 2016

Number	Description	Amount
<u>I. Calculation of the Base Rate Cost of Production Costs and Other Pass-Throughs as authorized in the Base Rate case (*):</u>		
1	Pro Forma Production Costs and Other Pass-Throughs	\$4,062,167
2	Pro Forma Water Sales (WS) in 100 Gallons	100,578,654
3	Base Rate Cost per 100 Gallons WS (Line 1 / Line 2)	<u>\$0.04039</u>
<u>II. Deferral calculation - Actual Non-Revenue Water Cost Production Costs and Other Pass-Throughs (adjusted for 15% NRW) vs. the Base Rate Cost (**):</u>		
4	Actual Production Costs and Other Pass-Throughs	\$3,959,063
5	Over-Under Collection Adjustment	83,758
6	Review Period PCOP Costs Adjusted for Over-Under Collections	4,042,821
7	Actual Water Sales (100 Gallons)	<u>111,094,902</u>
8	Actual Rate Cost Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 6 / Line 7)	\$0.03639
9	Base Rate Cost per 100 Gallons WS (Line 3)	<u>0.04039</u>
10	Incremental Change in Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 9 - Line 8)	(\$0.00400)
11	Base Rate Case Water Sales 100 Gallons (Line 2)	<u>100,578,654</u>
12	Deferral Amount (Line 10 * Line 11)	<u>(\$402,040)</u>
<u>III. Calculation of Production Costs and Other Pass-Throughs ("PCOP") Tariff Rider</u>		
13	Total Deferred Amount (Line 12)	(\$402,040)
14	Total Deferred Amount Grossed Up for revenue taxes (Line 13 / (1.0-.03616)) (***)	(417,123)
15	Projected Annual Base Rate Revenue subject to PCOP (*)	<u>47,073,724</u>
16	PCOP % (Line 14 / Line 15)	<u>-0.89%</u>

(*) The numbers are taken from the settlement agreement in Docket No. 12-00049

(**) The numbers are actuals for the year ended November 30, 2016 including Non-Revenue Water for Purchased Power and Chemicals

(***) Assumes Gross Receipts Tax @ 3.0%, Uncollectibles @ 1.0571%, TRA Fee @ 0.4250%, and Forfeited Discount Rate @ -0.8661%

Tennessee American Water Company
Docket No. 16-00148
For the Twelve Months Ending November 30, 2016
PCOP Actual Expenses

Line #	Description	A	B	C	D	E	F
		For the 12 Months Ending 11/30/2016	**NRW Limited 12 Mos Ending 11/2016 (Column A, Lines 2 and 3 x Line 18 Recoverable %)	Authorized Amount Per Docket 12-00049	C - B Difference NRW Limited from Authorized Docket 12-00049	Adjust Difference for TRA Fee Recovered Via SEC, EDI, or QIIP 12 Months Ending 11/30/2016	E - D Adjusted Difference
1	Purchased Water Including Wheeling Charges	\$40,296	\$40,296	\$51,331	(\$11,035)	\$0	(\$11,035)
2	Purchased Power**	2,466,470	2,390,646	2,678,772	(288,126)		(288,126)
3	Chemicals**	1,055,858	1,023,399	986,930	36,469		36,469
4	Waste Disposal	311,083	311,083	213,308	97,775		97,775
5	TRA Inspection Fee	193,639	193,639	131,826	61,813		61,813
6							
7	Total	<u>\$4,067,346</u>	<u>\$3,959,063</u>	<u>\$4,062,167</u>	<u>(\$103,104)</u>	<u>\$0</u>	<u>(\$103,104)</u>
8							
9							
10	Sales in 100 Gallons	111,094,902	111,094,902	100,578,654		111,094,902	
11							
12	Cost per 100 Gallons (Line 7 / Line 10)	<u>\$0.03661</u>	<u>\$0.03564</u>	<u>\$0.04039</u>	<u>(\$0.00475)</u>	<u>\$0.00000</u>	<u>(\$0.00475)</u>
	Recoverable % for Production Costs	For the 12 Months Ending 11/30/2016					
13	Sales	111,094,902					
14	System Delivery	135,604,277					
15	Non-Revenue Water % [1 - (Line 13 / Line 14)]	18.1%					
16	Non-Revenue Water % Authorized	15.0%					
17	Variance (If Line 15 > Line 16 then Line 15 - Line 16)	3.1%					
18	Recoverable % (1 - Line 17)	<u>96.9%</u>					

**Non-Revenue Water is only applied to purchased power and chemicals.

Tennessee American Water Usage
Docket No. 16-00148
12 Months Ending November 2016

	Water Usage	System Delivery	NRW
2015 Dec	751,832	1,011,753	25.69%
2016 Jan	785,438	1,146,463	31.49%
2016 Feb	743,181	1,063,021	30.09%
2016 Mar	915,245	1,126,768	18.77%
2016 Apr	931,434	1,025,541	9.18%
2016 May	865,370	1,101,963	21.47%
2016 Jun	972,751	1,216,570	20.04%
2016 Jul	1,063,834	1,213,460	12.33%
2016 Aug	989,555	1,126,248	12.14%
2016 Sep	1,000,426	1,168,113	14.36%
2016 Oct	1,172,109	1,222,049	4.09%
2016 Nov	918,317	1,138,479	19.34%
	11,109,490	13,560,428	18.07%
	Average NRW		18.25%

Tennessee American Water Company
Docket No. 18-00009

Calculation of Production Costs and Other Pass-Throughs ("PCOP") Including Non-Revenue Water
To Determine PCOP Tariff Rider
Actuals for the Year Ending November 30, 2017

Number	Description	Amount
<u>I. Calculation of the Base Rate Cost of Production Costs and Other Pass-Throughs as authorized in the Base Rate case (*):</u>		
1	Pro Forma Production Costs and Other Pass-Throughs	\$4,062,167
2	Pro Forma Water Sales (WS) in 100 Gallons	100,578,654
3	Base Rate Cost per 100 Gallons WS (Line 1 / Line 2)	<u>\$0.04039</u>
<u>II. Deferral calculation - Actual Non-Revenue Water Cost Production Costs and Other Pass-Throughs (adjusted for 15% NRW) vs. the Base Rate Cost (**):</u>		
4	Actual Production Costs and Other Pass-Throughs	\$3,564,211
5	Over-Under Collection Adjustment	(173,805)
6	Review Period PCOP Costs Adjusted for Over-Under Collections	3,390,407
7	Actual Water Sales (100 Gallons)	<u>97,522,641</u>
8	Actual Rate Cost Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 6 / Line 7)	\$0.03477
9	Base Rate Cost per 100 Gallons WS (Line 3)	<u>0.04039</u>
10	Incremental Change in Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 9 - Line 8)	(\$0.00562)
11	Base Rate Case Water Sales 100 Gallons (Line 2)	<u>100,578,654</u>
12	Deferral Amount (Line 10 * Line 11)	<u>(\$565,517)</u>
<u>III. Calculation of Production Costs and Other Pass-Throughs ("PCOP") Tariff Rider</u>		
13	Total Deferred Amount (Line 12)	(\$565,517)
14	Total Deferred Amount Grossed Up for revenue taxes (Line 13 / (1.0-.03616)) (***)	(586,733)
15	Projected Annual Base Rate Revenue subject to PCOP (*)	<u>47,073,724</u>
16	PCOP % (Line 14 / Line 15)	<u>-1.25%</u>

(*) The numbers are taken from the settlement agreement in Docket No. 12-00049

(**) The numbers are actuals for the year ended November 30, 2017 including Non-Revenue Water for Purchased Power and Chemicals

(***) Assumes Gross Receipts Tax @ 3.0%, Uncollectibles @ 1.0571%, TRA Fee @ 0.4250%, and Forfeited Discount Rate @ -0.8661%

Tennessee American Water Company
Docket No. 18-00009
For the Twelve Months Ending November 30, 2017
PCOP Actual Expenses

Line #	Description	A For the 12 Months Ending 11/30/2017	B **NRW Limited 12 Mos Ending 11/2017 (Column A, Lines 2 and 3 x Line 18 Recoverable %)	C Authorized Amount Per Docket 12-00049	D C - B Difference NRW Limited from Authorized Docket 12-00049	E Adjust Difference for TRA Fee Recovered Via SEC, EDI, or QIIP 12 Months Ending 11/30/2017	F E - D Adjusted Difference
1	Purchased Water Including Wheeling Charges	\$31,610	\$31,610	\$51,331	(\$19,721)	\$0	(\$19,721)
2	Purchased Power**	2,281,013	2,123,434	2,678,772	(555,338)		(555,338)
3	Chemicals**	933,712	869,209	986,930	(117,721)		(117,721)
4	Waste Disposal	326,010	326,010	213,308	112,702		112,702
5	TRA Inspection Fee	213,948	213,948	131,826	82,122		82,122
6							
7	Total	\$3,786,293	\$3,564,211	\$4,062,167	(\$497,956)	\$0	(\$497,956)
8							
9							
10	Sales in 100 Gallons	97,522,641	97,522,641	100,578,654		97,522,641	
11							
12	Cost per 100 Gallons (Line 7 / Line 10)	\$0.03882	\$0.03655	\$0.04039	(\$0.00384)	\$0.00000	(\$0.00384)
	Recoverable % for Production Costs	For the 12 Months Ending 11/30/2017					
13	Sales	97,522,641					
14	System Delivery	124,882,147					
15	Non-Revenue Water % [1 - (Line 13 / Line 14)]	21.9%					
16	Non-Revenue Water % Authorized	15.0%					
17	Variance (If Line 15 > Line 16 then Line 15 - Line 16)	6.9%					
18	Recoverable % (1 - Line 17)	93.1%					

**Non-Revenue Water is only applied to purchased power and chemicals.

Tennessee American Water Usage
Docket No. 18-00009
12 Months Ending November 2017

	Water Usage	System Delivery	NRW
2016 Dec	847,698	1,077,278	21.31%
2017 Jan	811,783	1,053,983	22.98%
2017 Feb	730,241	898,772	18.75%
2017 Mar	760,454	989,982	23.19%
2017 Apr	627,403	997,622	37.11%
2017 May	901,925	967,456	6.77%
2017 Jun	862,657	1,068,100	19.23%
2017 Jul	805,145	1,124,167	28.38%
2017 Aug	913,173	1,162,307	21.43%
2017 Sep	901,371	1,074,406	16.11%
2017 Oct	850,269	1,086,657	21.75%
2017 Nov	740,146	987,484	25.05%
	9,752,264	12,488,215	21.91%
	Average NRW		21.84%

Tennessee American Water Company
Docket No. 19-00010

Calculation of Production Costs and Other Pass-Throughs ("PCOP") Including Non-Revenue Water
To Determine PCOP Tariff Rider
Actuals for the Year Ending November 30, 2018

Number	Description	Amount
<u>I. Calculation of the Base Rate Cost of Production Costs and Other Pass-Throughs as authorized in the Base Rate case (*):</u>		
1	Pro Forma Production Costs and Other Pass-Throughs	\$4,062,167
2	Pro Forma Water Sales (WS) in 100 Gallons	100,578,654
3	Base Rate Cost per 100 Gallons WS (Line 1 / Line 2)	<u>\$0.04039</u>
<u>II. Deferral calculation - Actual Non-Revenue Water Cost Production Costs and Other Pass-Throughs (adjusted for 15% NRW) vs. the Base Rate Cost (**):</u>		
4	Actual Production Costs and Other Pass-Throughs	\$3,606,941
5	Over-Under Collection Adjustment	(72,416)
6	Review Period PCOP Costs Adjusted for Over-Under Collections	3,534,525
7	Actual Water Sales & Accounted For Lost Water (100 Gallons)	<u>99,751,414</u>
8	Actual Rate Cost Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 6 / Line 7)	\$0.03543
9	Base Rate Cost per 100 Gallons WS (Line 3)	<u>0.04039</u>
10	Incremental Change in Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 9 - Line 8)	(\$0.00495)
11	Base Rate Case Water Sales 100 Gallons (Line 2)	<u>100,578,654</u>
12	Deferral Amount (Line 10 * Line 11)	<u>(\$498,330)</u>
<u>III. Calculation of Production Costs and Other Pass-Throughs ("PCOP") Tariff Rider</u>		
13	Total Deferred Amount (Line 12)	(\$498,330)
14	Total Deferred Amount Grossed Up for revenue taxes (Line 13 / (1.0-.03616)) (***)	(517,026)
15	Projected Annual Base Rate Revenue subject to PCOP (*)	<u>47,073,724</u>
16	PCOP % (Line 14 / Line 15)	<u>-1.10%</u>

(*) The numbers are taken from the settlement agreement in Docket No. 12-00049

(**) The numbers are actuals for the year ended November 30, 2018 including Non-Revenue Water for Purchased Power and Chemicals

(***) Assumes Gross Receipts Tax @ 3.0%, Uncollectibles @ 1.0571%, TRA Fee @ 0.4250%, and Forfeited Discount Rate @ -0.8661%

Tennessee American Water Company
Docket No. 19-00010
For the Twelve Months Ending November 30, 2018
PCOP Actual Expenses

Line #	Description	A	B	C	D	E	F
		For the 12 Months Ending 11/30/2018	**NRW Limited 12 Mos Ending 11/2018 (Column A, Lines 2 and 3 x Line 18 Recoverable %)	Authorized Amount Per Docket 12-00049	C - B Difference NRW Limited from Authorized Docket 12-00049	Adjust Difference for TRA Fee Recovered Via SEC, EDI, or QIIP 12 Months Ending 11/30/2018	E - D Adjusted Difference
1	Purchased Water Including Wheeling Charges	\$25,572	\$25,572	\$51,331	(\$25,759)	\$0	(\$25,759)
2	Purchased Power**	2,246,557	2,094,201	2,678,772	(584,571)		(584,571)
3	Chemicals**	922,281	859,734	986,930	(127,196)		(127,196)
4	Waste Disposal	416,185	416,185	213,308	202,877		202,877
5	TRA Inspection Fee	211,249	211,249	131,826	79,423		79,423
6							
7	Total	<u>\$3,821,844</u>	<u>\$3,606,941</u>	<u>\$4,062,167</u>	<u>(\$455,226)</u>	<u>\$0</u>	<u>(\$455,226)</u>
8							
9							
10	Sales & Accounted For Lost Water in 100 Gallons	99,751,414	99,751,414	100,578,654		99,751,414	
11							
12	Cost per 100 Gallons (Line 7 / Line 10)	<u>\$0.03831</u>	<u>\$0.03616</u>	<u>\$0.04039</u>	<u>(\$0.00423)</u>	<u>\$0.00000</u>	<u>(\$0.00423)</u>
	Recoverable % for Production Costs	For the 12 Months Ending 11/30/2018					
13	Sales & Accounted for Lost Water	99,751,414					
14	System Delivery	<u>127,529,621</u>					
15	Non-Revenue-Unaccounted for Water % [1 - (Line 13 / Line 14)]	21.8%					
16	Non-Revenue-Unaccounted for Water % Authorized	15.0%					
17	Variance (If Line 15 > Line 16 then Line 15 - Line 16)	<u>6.8%</u>					
18	Recoverable % (1 - Line 17)	<u>93.2%</u>					

**Non-Revenue Unaccounted for Water is only applied to purchased power and chemicals.

Tennessee American Water Usage
Docket No. 19-00010
12 Months Ending November 2018

	Water Usage & Accounted For Lost		Unaccounted for Water
	Water	System Delivery	Loss
2017 Dec	711,182	989,208	28.11%
2018 Jan	967,520	1,139,915	15.12%
2018 Feb	738,054	937,446	21.27%
2018 Mar	711,743	1,000,816	28.88%
2018 Apr	903,129	975,059	7.38%
2018 May	780,554	1,095,608	28.76%
2018 Jun	873,032	1,098,604	20.53%
2018 Jul	920,997	1,150,223	19.93%
2018 Aug	825,115	1,155,098	28.57%
2018 Sep	861,603	1,085,933	20.66%
2018 Oct	917,645	1,096,498	16.31%
2018 Nov	764,567	1,028,555	25.67%
	9,975,141	12,752,962	21.78%
		Average	21.76%

Tennessee American Water Company
Docket No. 20-00008

Calculation of Production Costs and Other Pass-Throughs ("PCOP") Including Non-Revenue Water
To Determine PCOP Tariff Rider
Actuals for the Year Ending November 30, 2019

Number	Description	Amount
<u>I. Calculation of the Base Rate Cost of Production Costs and Other Pass-Throughs as authorized in the Base Rate case (*):</u>		
1	Pro Forma Production Costs and Other Pass-Throughs	\$4,062,167
2	Pro Forma Water Sales (WS) in 100 Gallons	<u>100,578,654</u>
3	Base Rate Cost per 100 Gallons WS (Line 1 / Line 2)	<u>\$0.04039</u>
<u>II. Deferral calculation - Actual Non-Revenue Water Cost Production Costs and Other Pass-Throughs (adjusted for 15% NRW) vs. the Base Rate Cost (**):</u>		
4	Actual Production Costs and Other Pass-Throughs	\$3,488,871
5	Over-Under Collection Adjustment	43,494
6	Review Period PCOP Costs Adjusted for Over-Under Collections	3,532,365
7	Actual Water Sales (100 Gallons)	<u>94,297,560</u>
8	Actual Rate Cost Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 6 / Line 7)	<u>\$0.03746</u>
9	Base Rate Cost per 100 Gallons WS (Line 3)	<u>0.04039</u>
10	Incremental Change in Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 9 - Line 8)	<u>(\$0.00293)</u>
11	Base Rate Case Water Sales 100 Gallons (Line 2)	<u>100,578,654</u>
12	Deferral Amount (Line 10 * Line 11)	<u>(\$294,514)</u>
<u>III. Calculation of Production Costs and Other Pass-Throughs ("PCOP") Tariff Rider</u>		
13	Total Deferred Amount (Line 12)	(\$294,514)
14	Total Deferred Amount Grossed Up for revenue taxes (Line 13 / (1.0-.03191) (***)	(304,222)
15	Projected Annual Base Rate Revenue subject to PCOP (*)	<u>47,073,724</u>
16	PCOP % (Line 14 / Line 15)	<u>-0.65%</u>

(*) The numbers are taken from the settlement agreement in Docket No. 12-00049

(**) The numbers are actuals for the year ended November 30, 2019 including Non-Revenue Water for Purchased Power and Chemicals

(***) Assumes Gross Receipts Tax @ 3.0%, Uncollectibles @ 1.0571%, and Forfeited Discount Rate @ -0.8661%

Tennessee American Water Company
Docket No. 20-00008
For the Twelve Months Ending November 30, 2019
PCOP Actual Expenses

Line #	Description	A	B	C	D	E	F
		For the 12 Months Ending 11/30/2019	**NRW Limited 12 Mos Ending 11/2018 (Column A, Lines 2 and 3 x Line 18 Recoverable %)	Authorized Amount Per Docket 12-00049	C - B Difference NRW Limited from Authorized Docket 12-00049	Adjust Difference for TRA Fee Recovered Via SEC, EDI, or QIIP 12 Months Ending 11/30/2019	E - D Adjusted Difference
1	Purchased Water Including Wheeling Charges	\$24,509	\$24,509	\$51,331	(\$26,822)	\$0	(\$26,822)
2	Purchased Power**	2,414,683	2,099,041	2,678,772	(579,731)		(579,731)
3	Chemicals**	941,184	818,155	986,930	(168,775)		(168,775)
4	Waste Disposal	329,809	329,809	213,308	116,501		116,501
5	TRA Inspection Fee	217,358	217,358	131,826	85,532		85,532
6							
7	Total	\$3,927,543	\$3,488,871	\$4,062,167	(\$573,296)	\$0	(\$573,296)
8							
9							
10	Water Sales in 100 Gallons	94,297,560	94,297,560	100,578,654		94,297,560	
11							
12	Cost per 100 Gallons (Line 7 / Line 10)	\$0.04165	\$0.03700	\$0.04039	(\$0.00339)	\$0.00000	(\$0.00339)
	Recoverable % for Production Costs	For the 12 Months Ending 11/30/2019					
13	Water Sales	94,297,560					
14	System Delivery	131,099,553					
15	Non-Revenue-Unaccounted for Water % [1 - (Line 13 / Line 14)]	28.1%					
16	Non-Revenue-Unaccounted for Water % Authorized	15.0%					
17	Variance (If Line 15 > Line 16 then Line 15 - Line 16)	13.1%					
18	Recoverable % (1 - Line 17)	86.9%					

**Non-Revenue Unaccounted for Water is only applied to purchased power and chemicals.

Tennessee American Water Usage
Docket No. 20-00008
12 Months Ending November 2019

	Water Usage	System Delivery	NRW %
2018 Dec	621,988	1,005,233	38.12%
2019 Jan	767,484	1,044,201	26.50%
2019 Feb	735,912	936,375	21.41%
2019 Mar	638,444	1,024,006	37.65%
2019 Apr	698,980	1,030,388	32.16%
2019 May	804,195	1,200,831	33.03%
2019 Jun	815,854	1,118,478	27.06%
2019 Jul	785,229	1,193,824	34.23%
2019 Aug	965,191	1,190,087	18.90%
2019 Sep	898,864	1,186,940	24.27%
2019 Oct	970,105	1,164,677	16.71%
2019 Nov	727,510	1,014,915	28.32%
	9,429,756	13,109,955	28.07%
		Average	28.20%

Tennessee American Water Company
Docket No. 21-00006

Calculation of Production Costs and Other Pass-Throughs ("PCOP") Including Non-Revenue Water
To Determine PCOP Tariff Rider
Actuals for the Year Ending November 30, 2020

Number	Description	Amount
<u>I. Calculation of the Base Rate Cost of Production Costs and Other Pass-Throughs as authorized in the Base Rate case (*):</u>		
1	Pro Forma Production Costs and Other Pass-Throughs	\$4,062,167
2	Pro Forma Water Sales (WS) in 100 Gallons	100,578,654
3	Base Rate Cost per 100 Gallons WS (Line 1 / Line 2)	<u>\$0.04039</u>
<u>II. Deferral calculation - Actual Non-Revenue Water Cost Production Costs and Other Pass-Throughs (adjusted for 15% NRW) vs. the Base Rate Cost (**):</u>		
4	Actual Production Costs and Other Pass-Throughs	\$3,636,606
5	Over-Under Collection Adjustment	114,026
6	Review Period PCOP Costs Adjusted for Over-Under Collections	3,750,632
7	Actual Water Sales (100 Gallons)	<u>88,492,069</u>
8	Actual Rate Cost Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 6 / Line 7)	\$0.04238
9	Base Rate Cost per 100 Gallons WS (Line 3)	<u>0.04039</u>
10	Incremental Change in Production Costs and Other Pass-Throughs per 100 Gallons WS (Line 9 - Line 8)	\$0.00200
11	Base Rate Case Water Sales 100 Gallons (Line 2)	<u>100,578,654</u>
12	Deferral Amount (Line 10 * Line 11)	<u>\$200,740</u>
<u>III. Calculation of Production Costs and Other Pass-Throughs ("PCOP") Tariff Rider</u>		
13	Total Deferred Amount (Line 12)	\$200,740
14	Total Deferred Amount Grossed Up for revenue taxes (Line 13 / (1.0-.03191) (***)	207,357
15	Projected Annual Base Rate Revenue subject to PCOP (*)	<u>47,073,724</u>
16	PCOP % (Line 14 / Line 15)	<u>0.44%</u>

(*) The numbers are taken from the settlement agreement in Docket No. 12-00049

(**) The numbers are actuals for the year ended November 30, 2020 including Non-Revenue Water for Purchased Power and Chemicals

(***) Assumes Gross Receipts Tax @ 3.0%, Uncollectibles @ 1.0571%, and Forfeited Discount Rate @ -0.8661%

Tennessee American Water Company
Docket No. 21-00006
For the Twelve Months Ending November 30, 2020
PCOP Actual Expenses

Line #	Description	A	B	C	D	E	F
		For the 12 Months Ending 11/30/2020	**NRW Limited 12 Mos Ending 11/2020 (Column A, Lines 2 and 3 x Line 18 Recoverable %)	Authorized Amount Per Docket 12-00049	Difference NRW Limited from Authorized Docket 12-00049	Adjust Difference for TRA Fee Recovered Via SEC, EDI, or QIIP 12 Months Ending 11/30/2020	E - D
1	Purchased Water Including Wheeling Charges	\$27,005	\$27,005	\$51,331	(\$24,327)	\$0	(\$24,327)
2	Purchased Power**	2,242,544	1,939,572	2,678,772	(739,200)		(739,200)
3	Chemicals**	1,208,637	1,045,347	986,930	58,417		58,417
4	Waste Disposal	407,085	407,085	213,308	193,777		193,777
5	TRA Inspection Fee	217,597	217,597	131,826	85,771		85,771
6							
7	Total	\$4,102,867	\$3,636,606	\$4,062,167	(\$425,561)	\$0	(\$425,561)
8							
9							
10	Water Sales in 100 Gallons	88,492,069	88,492,069	100,578,654		88,492,069	
11							
12	Cost per 100 Gallons (Line 7 / Line 10)	\$0.04636	\$0.04110	\$0.04039	\$0.00071	\$0.00000	\$0.00071
	Recoverable % for Production Costs	For the 12 Months Ending 11/30/2020					
13	Water Sales	88,492,069					
14	System Delivery	123,782,790					
15	Non-Revenue-Unaccounted for Water % [1 - (Line 13 / Line 14)]	28.5%					
16	Non-Revenue-Unaccounted for Water % Authorized	15.0%					
17	Variance (If Line 15 > Line 16 then Line 15 - Line 16)	13.5%					
18	Recoverable % (1 - Line 17)	86.5%					

**Non-Revenue Unaccounted for Water is only applied to purchased power and chemicals.

Tennessee American Water Usage
Docket No. 21-00006
12 Months Ending November 2020

	Water Usage	System Delivery	NRW %
2019 Dec	652,165	1,011,089	35.50%
2020 Jan	757,961	1,007,335	24.76%
2020 Feb	647,302	949,930	31.86%
2020 Mar	709,012	966,762	26.66%
2020 Apr	653,086	912,804	28.45%
2020 May	673,363	1,015,744	33.71%
2020 Jun	747,079	1,053,726	29.10%
2020 Jul	881,765	1,237,278	28.73%
2020 Aug	698,471	1,141,376	38.80%
2020 Sep	948,053	1,076,397	11.92%
2020 Oct	737,931	1,044,946	29.38%
2020 Nov	743,019	960,891	22.67%
	8,849,207	12,378,279	28.51%
		Average	28.46%

Aquisitions_Sales
Base Year Amount Scenarios

Water Usage

	Staff Request 2	1a.	1b.	1c.	Staff Request 2	1a.	1b.	1c.
City of Whitwell			301,357					
City of Whitwell		176,147	244,701	243,877		1,527,738	1,300,550	1,300,550
Walden's Ridge		(231,250)	(231,250)	(231,250)		(3,402,615)	(3,402,615)	(3,402,615)
Total		(55,103)	13,451	12,627		(1,874,877)	(2,102,065)	(2,102,065)

Walden's Ridge Support

PCOP Cost	Amount	WR Portion %	WR Amount
Chemicals	986,930	3.38%	33,388
Power	2,678,772		209,538
			242,926
Authorized Recoverable %			90.39%
Adjusted Chemicals & Power			219,574
Waste Disposal	213,308	3.38%	7,216
Inspection Fee	131,826	3.38%	4,460
Total Walden's Ridge			231,250
Authorized NRW Docket No. 12-00049 NRW %			
Docket No. 12-00049 TAWC			24.61%
Docket No. 12-00049 Authorized			15%
Docket No. 12-00049 Unrecoverable			9.61%
Docket No. 12-00049 Recoverable			90.39%
Authorized WR's Usage in 100 Gallons 3,402,615			
Authorized Company Usage in 100 Gallons			100,578,654
			3.38%

from Docket No. 12-00049 TAWC Fuel and Power Workpaper for EPB Account # 481309000 TNAWC - Walden's Ridge Interconnect

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 21-00006
SECOND STAFF DATA REQUEST OF THE
TENNESSEE PUBLIC UTILITY COMMISSION**

Responsible Witness: Todd P. Wright

Question:

- 2.2 Please provide a recomputed PCOP percentage for the year ended November 30, 2020 under each of the three above scenarios for allowable Whitwell expenses (please also exclude all Jasper Highlands' volumes from the calculations and assume the PCOP will not be assessed to Jasper Highlands customers). Please provide all supporting documentation in Excel format.

Response:

- 2.2 Please refer to the attachment file, TAW_R_TPUCDR2_001_062121_Attachment provided in the response to Staff Discovery Request 2.1. The three scenarios are reflected on tabs labeled "Staff Request 1a. \$176K", "Staff Request 1b. \$301K" and "Staff Request 1c. \$243K" in column J.

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 21-00006
SECOND STAFF DATA REQUEST OF THE
TENNESSEE PUBLIC UTILITY COMMISSION**

Responsible Witness: Todd P. Wright

Question:

- 2.3 Please provide a recomputed cumulative PCOP percentage under each of the three above scenarios for allowable Whitwell expenses (please also exclude all Jasper Highlands volumes from the calculations and assume the PCOP will not be assessed to Jasper Highlands' customers). Please provide all supporting documentation in Excel format.

Response:

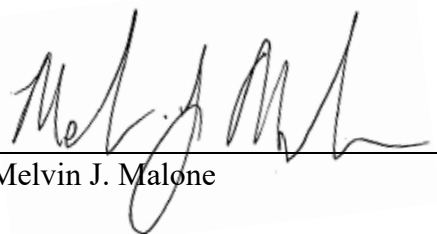
- 2.3 Please refer to the attachment file, TAW_R_TPUCDR2_001_062121_Attachment provided in the response to Staff Discovery Request 2.1. The three scenarios are reflected on tabs labeled "Staff Request 1a. \$176K with WR", "Staff Request 1b. \$301K with WR" and "Staff Request 1c. \$243K with WR" in column L.

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing was served via U.S. Mail or electronic mail upon:

Karen H. Stachowski
Assistant Attorney General
Office of the Tennessee Attorney General
Financial Division, Consumer Advocate Unit
P.O. Box 20207
Nashville, Tennessee 37202-0207
karen.stachowski@ag.tn.gov

This the 21st day of June, 2021.



Melvin J. Malone