Issue:Class Cost of Service/Rate DesignWitness:Jessica A. YorkType of Exhibit:Direct TestimonySponsoring Parties:Missouri Industrial Energy ConsumersCase Nos.:WR-2022-0303 & SR-2022-0304Date Testimony Prepared:December 16, 2022

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Missouri-American Water Company's Request for Authority to Implement General Rate Increase for Water and Sewer Service Provided in Missouri Service Areas.

Case Nos. WR-2022-0303/ SR-2022-0304

Direct Testimony and Schedules of

Jessica A. York

On behalf of

Missouri Industrial Energy Consumers

REDACTED VERSION

December 16, 2022



Project 11350

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

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In the Matter of Missouri-American Water Company's Request for Authority to Implement General Rate Increase for Water and Sewer Service Provided in Missouri Service Areas.

Case Nos. WR-2022-0303/ SR-2022-0304

STATE OF MISSOURI

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COUNTY OF ST. LOUIS

Affidavit of Jessica A. York

Jessica A. York, being first duly sworn, on his oath states:

1. My name is Jessica A. York. I am a consultant with Brubaker & Associates, Inc., having its principal place of business at 16690 Swingley Ridge Road, Suite 140, Chesterfield, Missouri 63017. We have been retained by the Missouri Industrial Energy Consumers in this proceeding on their behalf.

2. Attached hereto and made a part hereof for all purposes is my direct testimony and schedules which were prepared in written form for introduction into evidence in the Missouri Public Service Commission, Case Nos. WR-2022-0303 & SR-2022-0304.

3. I hereby swear and affirm that the testimony and schedules are true and correct and that they show the matters and things that they purport to show.

Subscribed and sworn to before me this 16th day of December, 2022.



Kloosner Notary Public

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

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In the Matter of Missouri-American Water Company's Request for Authority to Implement General Rate Increase for Water and Sewer Service Provided in Missouri Service Areas.

Case Nos. WR-2022-0303/ SR-2022-0304

Table of Contents to the <u>Direct Testimony of Jessica A. York</u>

I.	Introduction	1
11.	MAWC's Proposed Revenue Apportionment	3
III.	 MAWC's Class Cost of Service Study III.A. Purchased Power Expense Allocation III.B. Fixed Power and Pumping Expense Allocation III.C. Rate J Distribution Multiplier III.D. Transmission and Distribution Cost Allocation III.E. General Comments on MAWC's COSS Models 	
IV.	Company's Proposal for Consolidated Tariff Pricing	22

Appendix A: Qualifications of Jessica A. York

Schedules JAY-1 through JAY-3

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

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In the Matter of Missouri-American Water Company's Request for Authority to Implement General Rate Increase for Water and Sewer Service Provided in Missouri Service Areas.

Case Nos. WR-2022-0303/ SR-2022-0304

Direct Testimony of Jessica A. York

1		I. Introduction
2	Q	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
3	А	Jessica A. York. My business address is 16690 Swingley Ridge Road, Suite 140,
4		Chesterfield, MO 63017.
5	Q	WHAT IS YOUR OCCUPATION?
6	А	I am a consultant in the field of public utility regulation and an Associate at Brubaker &
7		Associates, Inc., energy, economic and regulatory consultants.
8	Q	PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE.
9	А	This information is included in Appendix A to my testimony.
10	Q	ON WHOSE BEHALF ARE YOU APPEARING IN THIS PROCEEDING?
11	А	I am appearing on behalf of Missouri Industrial Energy Consumers ("MIEC"), a
12		non-profit corporation that represents the interests of large customers in Missouri utility
13		matters. The MIEC represents the interests of companies purchasing substantial
14		amounts of water from Missouri-American Water Company ("MAWC" or "Company").

1 Q WHAT IS THE PURPOSE OF YOUR TESTIMONY?

- 2 А I will address the Company's class cost of service study ("COSS") and proposed 3 revenue apportionment. I will also respond to the Company's proposal for consolidated 4 tariff pricing ("CTP") for its operating districts throughout Missouri. For the reasons 5 described in my testimony, I recommend that the Company's proposal for consolidated 6 pricing be rejected, and that the Company maintain the two-district structure (St. Louis 7 County, and Non-St. Louis County) agreed upon in the settlement, which was approved 8 by the Missouri Public Service Commission ("Commission") in the Company's last rate 9 case. 10 My silence on any issues addressed by the Company's testimony should not
- 11 be taken as tacit approval or agreement regarding those issues.

12 Q PLEASE SUMMARIZE YOUR CONCLUSIONS AND RECOMMENDATIONS.

- 13 A My conclusions and recommendations are as follows:
- I recommend the Commission reject MAWC's proposed revenue spread, as it is
 based on flawed and inaccurate COSS models.
- I recommend the Commission reject MAWC's proposal to continue consolidating rates for customers located inside and outside of St. Louis County. CTP violates cost causation principles, could erode system efficiency, and may reduce the incentive for MAWC to perform due diligence before acquiring additional water systems.
- I recommend the following corrections to MAWC's COSS model for St. Louis
 County:
- 23 o I recommend that Purchased Power expenses be allocated using Factor 6, instead of Factor 1.
- 25 o I recommend that fixed Power and Pumping expenses be allocated using
 26 Factor 3, instead of Factor 2.
- 27 o I recommend that the Rate J distribution multiplier used to develop Factor 4 be
 28 corrected to reflect the length of distribution mains serving these customers,
 29 rather than being based on water consumption as proposed by MAWC.

1 2 3 4		 I recommend that depreciation expense and plant investment in mains sized 10-inches to 16-inches be assigned to the Distribution functional cost category instead of Transmission, consistent with the classification of mains in MAWC's annual reports.
5 6 7		 Based on my corrections to MAWC's COSS, and the rejection of CTP, I recommend a revenue spread where no class receives an increase greater than 1.25 times the district average.
8 9		 If my corrections to the MAWC's COSS are not adopted, I continue to recommend that no class receive a rate increase greater than 1.25 times the district average.
10		II. MAWC's Proposed Revenue Apportionment
10 11	Q	II. MAWC's Proposed Revenue Apportionment HOW DO THE RESULTS OF MAWC'S COSS MODELS COMPARE TO ITS
	Q	
11	Q	HOW DO THE RESULTS OF MAWC'S COSS MODELS COMPARE TO ITS
11 12	Q A	HOW DO THE RESULTS OF MAWC'S COSS MODELS COMPARE TO ITS PROPOSED SPREAD OF THE CLAIMED REVENUE DEFICIENCY ACROSS

			TABLE	1				
		MAWC's	COSS vs. Propo	sed Reven	ue Spreac	<u>1</u>		
		Current	Increase t	o Reach CC	DS ¹	MAWC Prop	osed Incre	ase ²
Line	Customer Class	Revenue ¹	Amount	Percent	Index ³	Amount	Percent	Index
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
	St. Louis County							
1	Residential	\$ 167,224,457	\$ 68,650,658	41.1%	1.00	\$ 80,727,726	48.3%	1.00
2	Non-Residential	49,403,315	17,498,662	35.4%	0.86	25,506,820	51.6%	1.07
3	Rate J	6,252,876	5,514,402	88.2%	2.14	4,076,417	65.2%	1.35
4	Rate B	4,232,070	515,600	12.2%	0.30	1,041,295	24.6%	0.51
5	Rate P	3,977,486	2,643,997	66.5%	1.61	-	0.0%	-
6	Private Fire	3,759,239	1,901,207	50.6%	1.23	1,712,529	45.6%	0.95
7	Total	\$ 234,849,443	\$ 96,724,526	41.2%	1.00	\$ 113,064,788	48.1%	1.00
8	Proposed Increase	e More / (Less) than	COSS Increase			\$ 16,340,262	16.9%	
	Other							
9	Residential	\$ 48,975,492	\$ 30,726,037	62.7%	1.12	\$ 17,902,209	36.6%	1.00
10	Non-Residential	21,037,197	6,845,848	32.5%	0.58	8,195,946	39.0%	1.06
11	Rate J	9,050,666	2,863,757	31.6%	0.57	3,052,073	33.7%	0.92
12	Rate B	3,006,411	1,279,510	42.6%	0.76	753,746	25.1%	0.69
13	Rate P	1,113,066	2,612,936	234.8%	4.20	422,329	37.9%	1.04
14	Private Fire	1,441,810	2,976,837	206.5%	3.69	646,430	44.8%	1.22
15	Total	\$ 84,624,643	\$ 47,304,925	55.9%	1.00	\$ 30,972,733	36.6%	1.00
16	Proposed Increase	e More / (Less) than	COSS Increase			\$ (16,332,192)	-34.5%	
17	Total Water	\$ 319,474,085	\$ 144,029,451	45.1%		\$ 144,037,521	45.1%	
Sour	ces							
1	MAWC's COSS mo	dels Schedule WE	S-1 and WES 2					
2			0-1 anu VVE0-2.					
3	CAS 11 and CAS 12							

As shown in the table, MAWC's proposed revenue apportionment does not follow the results of its COSS models. The Company proposes to shift about \$16.3 million to St. Louis County water customers from customers outside of St. Louis County, in an effort to continue moving toward CTP. As a result, St. Louis County residential, non-residential, and Rate B customers would be paying rates significantly in excess of MAWC's cost of providing service to them.

7 The Company's St. Louis County COSS model indicates that the Rate J class
8 requires an increase of 88.2%, or 2.14 times the district average to reach cost of

service. MAWC's COSS models show that Rate J customers outside of St. Louis
 County would require an increase of 31.6% or 0.57 times the district average to reach
 cost of service. In total, the Rate J class would require a 54.7% increase, or 1.21 times
 the system average to reach cost of service, under the Company's proposed COSS
 models.

6 Under the Company's proposed revenue spread, St. Louis County Rate J
7 customers would receive an increase of about 65.2%, or 1.35 times the district average
8 increase, while Non-St. Louis County Rate J customers would receive an increase of
9 33.7%, or 0. 92 times the district average increase of 36.6%.

10QDOYOUAGREEWITHTHECOMPANY'SPROPOSEDREVENUE11APPORTIONMENT?

A No. The Company's proposed revenue apportionment is based on inaccurate COSS
 models that need to be corrected. In addition, MAWC's proposed revenue
 apportionment reflects continued movement toward CTP, which I do not support.

15 Q ARE YOU RECOMMENDING AN ALTERNATIVE REVENUE APPORTIONMENT?

A Yes. I am recommending an alternative revenue apportionment for St. Louis County customer classes based on my corrections to the Company's COSS model, and my recommendation to reject CTP in favor of maintaining the existing two-district structure, with rates based on each district's respective COSS, as was agreed upon and approved by the Commission in the last rate case. My primary recommended revenue apportionment is shown below in Table 2, using the Company's claimed revenue requirement.

		Current	Increase t	o Reach CC	DS ¹	MIEC Prop	osed Increa	ase ²
Line	Customer Class	Revenue ¹	Amount	Percent	Index	Amount	Percent	Index
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
	St. Louis County							
1	Residential	\$ 167,224,457	\$74,419,119	44.5%	1.08	\$74,419,119	44.5%	1.0
2	Non-Residential	49,403,315	18,028,920	36.5%	0.89	18,560,733	37.6%	0.9
3	Rate J	6,252,876	1,250,370	20.0%	0.49	1,317,680	21.1%	0.5
4	Rate B	4,232,070	(481,902)	-11.4%	(0.28)	(436,345)	-10.3%	(0.2
5	Rate P	3,977,486	885,183	22.3%	0.54	928,000	23.3%	0.5
6	Private Fire	3,759,239	2,622,836	69.8%	1.69	1,935,339	51.5%	1.2
7	Total	\$234,849,443	\$96,724,526	41.2%	1.00	\$96,724,526	41.2%	1.0

1If my recommended corrections to MAWC's COSS are adopted, I recommend2bringing all classes closer to cost of service, subject to the limitation that no class3receive an increase greater than 1.25 times the district average. The Company4proposed no rate change for St. Louis County Rate P customers, but the tariff does not5suggest Rate P customers are precluded from rate changes. In the event that Rate P6must receive no rate change, I recommend the alternative revenue apportionment7shown in Table 3.

	MILC S	<u>COSS vs. Alterna</u>		Vevenue 3	predu ior	St.Louis Count	Y	
		Current	Increase t	o Reach C(DS ¹	MIEC Prop	osed Incre	ase ²
Line	Customer Class	Revenue ¹	Amount	Percent	Index	Amount	Percent	Index
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
	St. Louis County							
1	Residential	\$ 167,224,457	\$74,419,119	44.5%	1.08	\$74,419,119	44.5%	1.08
2	Non-Residential	49,403,315	18,028,920	36.5%	0.89	19,326,263	39.1%	0.95
3	Rate J	6,252,876	1,250,370	20.0%	0.49	1,414,572	22.6%	0.55
4	Rate B	4,232,070	(481,902)	-11.4%	(0.28)	(370,767)	-8.8%	(0.21
5	Rate P	3,977,486	885,183	22.3%	0.54	-	0.0%	-
6	Private Fire	3,759,239	2,622,836	69.8%	1.69	1,935,339	51.5%	1.25
7	Total	\$234,849,443	\$96,724,526	41.2%	1.00	\$96,724,526	41.2%	1.00
Sourc	es							

In the event that my corrections to MAWC's are not adopted, I continue to
 recommend that no class receive an increase greater than 1.25 times the system
 average. Such an increase will still make a movement toward cost of service, while
 mitigating rate shock.

5

III. MAWC's Class Cost of Service Study

6 Q DID YOU REVIEW MAWC'S CLASS COST OF SERVICE STUDIES SPONSORED 7 BY MR. WESLEY SELINGER?

A Yes. His class cost of service studies are based on the future test year ended May 31, 2023, and use the widely accepted Base-Extra Capacity method for functionalizing, classifying and allocating costs to MAWC's various customer classes. Investment in water utility plant and operating costs are first functionalized according to the role they play in providing water service: water supply, pumping, treatment, transmission, distribution, metering and billing. Next, these costs should be classified into cost categories that reflect the causation of these costs: Base, or average day rates of flow;
 Extra Capacity-Maximum Day and Extra Capacity-Maximum Hour rates of flow; and
 Customer-related costs, such as metering and billing. However, as will be discussed
 in greater detail below, MAWC's COSS model no longer explicitly shows this step of
 the COSS process.

6 Q IS MAWC'S CLASS COST OF SERVICE STUDY REASONABLE?

A In general, the Base-Extra Capacity cost allocation method is a reasonable approach.
However, I recommend correcting the allocation of Fuel and Power expenses from
Factor 1 to Factor 6. I recommend correcting the allocation of fixed Power and Pumping
expenses from Factor 2 to Factor 3. Factors 1, 2, 3 and 6 are discussed below in
greater detail.

12 In addition, I recommend correcting the distribution multiplier for Rate J 13 customers in the COSS models, and assigning the depreciation expenses and 14 investment in mains sized 10-inches to 16-inches to the distribution function, instead of 15 transmission.

16 III.A. Purchased Power Expense Allocation

17 Q HOW HAS MR. SELINGER ALLOCATED FUEL AND POWER EXPENSES IN HIS 18 COSS MODELS?

A Mr. Selinger used Factor 1 to allocate purchased power costs between customer
 classes. Mr. Selinger's Factor 1 allocates purchased power costs between customer
 classes based on each class's annual (or average daily) consumption. Mr. Selinger

describes Factor 1 as one that allocates costs that vary with the amount of water
 produced and consumed.¹

Q WHY IS IT INACCURATE TO USE FACTOR 1 TO ALLOCATE FUEL AND POWER 4 EXPENSES BETWEEN RATE CLASSES?

5 A The use of Factor 1 does not recognize how MAWC incurs purchased power expense. 6 Purchased power expense is based on demand and energy consumption. Demand 7 costs are based on the highest power demand in a month, not on average daily usage. 8 Therefore, the demand component of purchased power expense does not vary with the 9 amount of water consumed. Instead, it varies with the peak day and peak hour power 10 consumption.

11 In addition, the energy consumption portion of purchased power costs also 12 varies with time and seasonal use, and does not vary evenly with the daily amount of 13 water consumed. MAWC purchases power from Ameren Missouri for its St. Louis 14 County operations. Ameren Missouri's tariffs contain seasonally differentiated energy 15 charges for all rate schedules, and seasonally differentiated demand charges for 16 commercial and industrial customers with meters capable of measuring demand. 17 Ameren Missouri's energy charges and demand charges are higher during the summer 18 months of June through September than in the non-summer months.

19Thus, Ameren Missouri's commercial rates for St. Louis County customers20reflect the variation of energy prices based on when energy is actually consumed, and21the variability of energy costs across peak and non-peak periods.² As such, Missouri-

¹Direct Testimony of Wesley Selinger at 8.

²Ameren Missouri tariffs for Small General Service, Large General Service, Small Primary Service, Large Primary Service, and Large Transmission Service. Rates effective February 28, 2022.

American's cost of energy within its purchased power expense does not evenly vary across all water consumed, but rather the price increases during peak periods and summer season, and is lower during the off-peak periods and winter season.

4

5

Q WHAT FACTOR SHOULD BE USED TO ALLOCATE FUEL AND PURCHASED POWER COSTS IN MR. SELINGER'S COST OF SERVICE STUDY?

6 A The use of Factor 6 is more appropriate and more accurately allocates purchased 7 power expense between customer classes. Factor 6 allocates costs between customer 8 classes based on average flow, and peak day and peak hour demand. Average daily 9 usage reasonably allocates a portion of the energy component of purchased power, 10 and peak day and peak hour factors correspond to the demand component and higher 11 on-peak energy prices that correspond to MAWC's purchased power expense during 12 peak consumption periods.

Thus, Factor 6 more accurately allocates purchased power expense between
 customer classes based on how MAWC incurs purchased power expense to meet the
 seasonal, monthly and daily water demand of its customers.

16 III.B. Fixed Power and Pumping Expense Allocation

17 Q WHY SHOULD FIXED POWER AND PUMPING COSTS BE ALLOCATED USING 18 FACTOR 3?

A In this case, MAWC allocated fixed Power and Pumping expenses using Factor 2.
 Factor 2 recognizes each class's average load and its peak day requirements.
 Historically, these costs have been allocated using Factor 3.³ Factor 3 is appropriate

³Case No. WR-2017-0285, Direct Testimony of Constance Heppenstall, Schedule CEH-1.

because it reflects a component for fire protection. Pumping plant must be designed
 to meet the peak demand requirements of its customers, and also to provide pressure
 and flow rates required to fight fires. By using Factor 2, MAWC fails to allocate any of
 the fixed Power and Pumping expenses to fire protection. MAWC's Power and
 Pumping costs should continue to be allocated using Factor 3, and MAWC agreed that
 Factor 3 is appropriate for the allocation of these expenses in its response to Discovery
 Request MIEC 3-01.⁴

8

III.C. Rate J Distribution Multiplier

9 Q PLEASE DISCUSS THE DISTRIBUTION MULTIPLIER USED BY MAWC IN ITS 10 COSS MODELS.

11 А The Company's COSS models recognize that some large customers take service 12 directly from the transmission mains, and therefore it would not be appropriate to 13 allocate costs related to the smaller diameter distribution system to these customers.⁵ 14 MAWC has developed a distribution multiplier to adjust the water sales for the Rate J 15 and Sales for Resale customers, such that only the distribution-level sales in each class 16 are allocated distribution-related costs.⁶ I support MAWC's recommendation to continue reflecting a distinction in the size of mains used to provide service in the 17 18 allocation of distribution costs in its COSS models. However, I disagree with the 19 method that MAWC has used to accomplish this objective.

⁴Attached as Schedule JAY-2, pages 1 and 2. ⁵Selinger Direct Testimony at 11. ⁶Ibid.

1

2

Q WHAT IS THE DISTRIBUTION MULTIPLIER THAT MAWC HAS APPLIED TO THE RATE J AND SALES FOR RESALE (RATE B) CLASSES?

A In St. Louis County, MAWC has applied a distribution multiplier of 0.44 to the Rate J
 class's average hourly usage to develop its maximum hour usage for use in allocating
 distribution costs.⁷ For Rate B customers, MAWC has applied a distribution multiplier
 of 0.21.⁸

Outside of St. Louis County, the Rate J distribution multiplier is 0.11 and the
Rate B distribution multiplier is 0.56.⁹

9 Q HOW DID MAWC DEVELOP THESE DISTRIBUTION MULTIPLIERS?

10 A The calculation of MAWC's distribution multipliers was provided in the response to 11 Discovery Request MIEC 2-05, and MoPSC 243.¹⁰ As shown in the associated 12 attachment, MAWC reviewed annual water usage for the top 50 largest Rate J and Rate B customers in its service territory. The Company also reviewed the sizes of 13 14 mains used to serve each of the top 50 customers' annual water usage. MAWC then 15 developed a ratio of annual usage served by distribution mains, relative to total usage, 16 for the St. Louis County Rate J and Rate B customers in this subset, as well as for the 17 Rate J and Rate B customers outside of St. Louis County.

⁷Schedule WES-1, Usage Statistics tab, page 1 of 2. ⁸Ibid.

⁹Schedule WES-2, Usage Statistics tab, page 1 of 2. ¹⁰Attached as Schedule JAY-2 at pages 3-5.

1 Q DO YOU AGREE THAT THE DISTRIBUTION MULTIPLIER SHOULD BE BASED ON 2 USAGE SERVED BY DISTRIBUTION MAINS?

3 Using water consumption to develop the distribution multiplier significantly А No. 4 overstates the portion of distribution system investment and expenses that is required 5 to provide service to these large customers. MAWC needs to also consider the length 6 of distribution main serving the Rate J customers. In the past, it was determined that 7 while Rate J customers have a significant portion of water consumption served by small 8 distribution mains, the actual length of distribution mains used to connect these 9 customers to the transmission system represents a very small fraction of the total 10 distribution system, and this should be recognized in developing a distribution 11 multiplier.

12 Q WHAT WAS THE DISTRIBUTION MULTIPLIER IN MAWC'S PRIOR RATE CASES?

A In the last case, Case No. WR-2020-0344, Staff reflected a distribution multiplier of
 about 0.10 for Rate J customers both inside and outside of St. Louis County.¹¹ The 10
 percent distribution multiplier was developed by MAWC witness Paul Herbert in Case
 No. WR-2008-0311.

17QWHAT WAS THE BASIS FOR THE 10% DISTRIBUTION MULTIPLIER IN THE18PRIOR CASES?

A In Case No. WR-2008-0311, MAWC witness Paul Herbert developed the 10%
 distribution multiplier for Rate J customers in St. Louis County. For the industrial or
 Rate J classification, an analysis of the customers was performed to determine the size

¹¹Case No. WR-2020-0344. Staff's report on cost of service and rate design. St. Louis County usage adjustments are shown on Schedule 7, page 7 of 10, line 32. Non-St. Louis County usage adjustments are shown on Schedule 7, page 2 of 10, line 32.

of main each Rate J customer was served from.¹² The analysis showed that out of 215
 Rate J customers, 112 customers representing 61.8% of the Rate J consumption are
 connected to mains 12-inch and larger.¹³ The remaining 103 customers with 38.2% of
 the consumption were connected to mains smaller than 12-inch.¹⁴

5 For the 103 customers served from small mains, Mr. Herbert analyzed the length of distribution mains used to serve these customers from the transmission 6 7 system.¹⁵ The analysis showed that only about 225,000 feet of small mains were used 8 from the transmission system to the connection points of the 103 Rate J customers.¹⁶ 9 The 225,000 feet represented about 1.3% of the total feet of distribution mains on the system at the time.¹⁷ Mr. Herbert concluded that the analysis showed that although 10 11 certain Rate J customers are connected to smaller mains, the length of those mains 12 are only a small fraction of the total distribution main system.¹⁸ As a result, Mr. Herbert ultimately recommended a 10% distribution multiplier, but his testimony does not 13 explicitly explain how he arrived at 10%.¹⁹ 14

15 Q DO YOU AGREE WITH THE 10% DISTRIBUTION MULTIPLIER RECOMMENDED

BY PAUL HERBERT, AND RELIED ON IN COST OF SERVICE STUDIES IN PRIOR RATE CASES?

A No. The 10 percent distribution multiplier appears to be arbitrary, and still overstates
 the costs associated with the distribution system that are incurred to serve Rate J

¹²Case No. WR-2008-0311, Direct Testimony of Paul Herbert at 10.

- ¹³Ibid.
- ¹⁴Ibid.
- ¹⁵lbid. ¹⁶lbid.
- ¹⁷Ibid.
- ¹⁸Ibid.
- ¹⁹Ibid.

customers. I recommend that the distribution multiplier be based on the length of small
 distribution mains required to provide service to Rate J customers.

Q HAVE YOU RECALCULATED THE DISTRIBUTION MULTIPLIER BASED ON THE
 LENGTH OF DISTRIBUTION MAINS ON MAWC'S SYSTEM?

A Yes. I am not aware of an updated study of the length of small distribution mains used
to connect Rate J customers to the transmission system. Thus, I have assumed
225,000 feet of small distribution mains, based on the study completed for the 2008
rate case. The length of distribution mains in St. Louis County is 21,706,675 feet.²⁰
The ratio of 225,000 to 21,706,675 is 1.04 percent.

10 A Rate J distribution multiplier of 1.04 percent is likely conservative, given that 11 the number of Rate J customers has decreased since the 2008 rate case.²¹ This means 12 that the length of distribution mains serving Rate J customers may be less than 225,000 13 feet, and the current distribution multiplier may be less than 1.04 percent.

A similar analysis should be performed for customers outside of St. LouisCounty.

16 **III.D. Transmission and Distribution Cost Allocation**

17QWHAT IS YOUR CONCERN WITH RESPECT TO THE TRANSMISSION AND18DISTRIBUTION COST CATEGORIES?

- 19 A MAWC's COSS model for St. Louis County identifies a Transmission function cost of
- 20 service of \$52,498,217, and a Distribution function cost of service of \$104,250,210.²²

²⁰Schedule WES-1, Usage Statistics tab, page 2 of 2.

²¹Case No. WR-2008-0311 identifies 215 Rate J customers in St. Louis County. Case No. WR-2022-0303, Schedule WES-1, Usage Statistics tab, page 1 identifies 135 Rate J customers in St. Louis County.

²²Schedule WES-1, Summary tab, page 1 of 1.

Thus, MAWC's COSS shows that about 33.5% of the Transmission and Distribution
cost of service is related to Transmission, and 66.5% is related to Distribution.
Transmission costs are allocated by MAWC using Factor 3. Distribution costs have
been allocated by MAWC using Factor 4, which reflects the distribution multiplier that I
have previously discussed.

6 My concern is that MAWC has overstated the amount of costs that should be7 included in the Transmission function.

8 Q WHY DO YOU SAY THAT MAWC HAS OVERSTATED THE AMOUNT OF COSTS 9 INCLUDED IN THE TRANSMISSION CATEGORY?

10 A MAWC's 2021 Annual Report shows that in St. Louis County, there are 2,268,236 feet 11 of transmission mains and 21,706,675 feet of distribution mains installed on the 12 system.²³ This is consistent with the length of main for St. Louis County shown on 13 Schedule WES-1, Usage Statistics tab, page 2, which is used to assign costs to the 14 Transmission and Distribution functions in the COSS model.

15 According to the 2021 Annual Report, transmission mains include mains with 16 diameters of size 16-inches and larger, while distribution mains consist of mains sized 17 12-inches and less. However, MAWC's COSS assigns a significant amount of 18 depreciation expense and plant investment for distribution mains sized 10-inches to 19 16-inches to the Transmission function, instead of the Distribution function. 20 Specifically, MAWC assigns \$4.708 million of distribution-related depreciation expense 21 to the Transmission function, and \$294.653 million of distribution plant investment to the Transmission function.²⁴ 22

²³Attached as Schedule JAY-3, pages 1-3.

²⁴Schedule WES-1, Account Detail tab, page 4, and 7, respectively.

1 Q WHAT IS YOUR RECOMMENDATION TO CORRECT THIS ISSUE?

2 А I recommend moving the depreciation expense and plant investment associated with 3 the category of mains sized 10- to 16-inches from the Transmission function to the 4 Distribution function. This change improves the consistency between the COSS 5 models, and the 2021 Annual Report, in terms of the classification of various sizes of 6 mains between the Transmission and Distribution functions. In addition, it results in 7 about 14.2% of total Transmission and Distribution functional costs being Transmission 8 related, and 85.8% being Distribution related. This is much more closely aligned with 9 the proportions of length of main, as well.

10QDO YOU HAVE ANY OTHER OBSERVATIONS WITH RESPECT TO THE11ALLOCATION OF TRANSMISSION AND DISTRIBUTION COSTS IN THE COSS12MODELS?

A Yes. In past rate cases, such as Case No. WR-2017-0285, Transmission and
Distribution costs were not separated between the two functions. Instead, these costs
remained combined into a single category, and were allocated using Factor 6. Factor 6
was a weighted combination of Factor 3 and Factor 4, with the weights being based on
the length of transmission and distribution mains installed on the system.

18 Transmission and Distribution costs are reported on a combined basis in 19 MAWC's Annual Reports, and MAWC confirmed in a discovery response that the 20 separation of Transmission and Distribution costs in the COSS is done with the use of 21 an allocator, instead of based on direct assignments to these functions.²⁵ Therefore, 22 as acknowledged by MAWC, the split of these costs between the two functions is

 $^{^{25}\}mbox{MAWC's}$ response to Discovery Request MIEC 3-04, attached as Schedule JAY-2 at pages 6-8.

largely an estimate, and may not be accurate, or consistent with the methods used in
 the Company's prior rate case COSS models.

If Factor 6 was used to allocate the functionalized Transmission and Distribution
costs in this case, along with the other adjustments discussed herein, the required
increase for Rate J customers in St. Louis County would be about 13.2%, instead of
the 20% increase shown in Table 2.

7 III.E. General Comments on MAWC's COSS Models

8 Q DO YOU HAVE ANY OTHER CONCERNS ABOUT THE COMPANY'S COSS 9 MODELS?

10 Yes. The Company has changed the structure of its COSS models since Case No. А 11 WR-2017-0285. The new structure of the COSS was introduced in the prior rate case, 12 Case No. WR-2020-0344. However, the new model was not approved by the 13 Commission, as the parties reached a settlement, which relied on Staff's COSS 14 modeling. It is not clear whether or to what extent MAWC has benchmarked the 15 accuracy of the new model structure with the previous one, to verify that the two 16 versions produce consistent results by customer class. MIEC has issued some 17 discovery requests on this topic, but responses will not be due until after this testimony 18 is filed.

19 Q PLEASE DISCUSS THE CHANGE IN STRUCTURE OF MAWC'S COSS MODELS IN

20

THIS CASE RELATIVE TO PRIOR CASES.

A MAWC has simplified its COSS models, which may not fully capture cost-causing differences among customers that should be recognized. This is a change from the detailed COSS models that were provided prior to the last rate case. It is difficult to 1 reconcile MAWC's studies in this case with the model provided in Case No. WR-2017-2 0285 to confirm that costs have been functionalized, classified and allocated 3 consistently, and in accordance with the Base-Extra Capacity method.

4 In past COSS models, the process of functionalizing and classifying costs was 5 very clear, and one could assess the reasonableness of MAWC's selected allocation 6 factors. In this simplified model, MAWC does not show how each cost is allocated to 7 the Base, Maximum Day, Maximum Hour, Meters, Services, Billing and Collecting, and 8 Fire Service functional cost components, as described in the American Water Works 9 Association's ("AWWA") M-1 Manual. Instead, MAWC develops a total revenue 10 requirement by business function. The business functions identified by MAWC do not 11 completely align with the standard functional cost components described by the AWWA 12 M-1 Manual. MAWC then allocates each business function's revenue requirement to 13 its customer classes based on a single, externally developed, allocation factor.

14

HAS THE REQUIRED INCREASE FOR RATE J TO REACH COST OF SERVICE. Q

15 RELATIVE TO THE SYSTEM AVERAGE INCREASE, GENERALLY BEEN 16 CONSISTENT BETWEEN CASES?

17 Α No. While there may be some variation between rate cases in the relative increase 18 required for Rate J to reach cost of service, the variations between cases that I have 19 observed are extreme. For example, the St. Louis County COSS in this case shows 20 that the Rate J class needs a 2.14 times system average increase (88.2%) to reach 21 parity. In the Staff's COSS model in Case No. WR-2017-0285, the St. Louis County Rate J class required an increase of 0.94 times the system average.²⁶ The Staff's 22

²⁶Case No. WR-2017-0285. Staff's report on cost of service and rate design. Schedule 1, page 1 of 3. Rate J customers in St. Louis County required an increase of 2.36% to reach cost of service, relative to a system average of 2.50%, for an index of 0.94 times system average.

COSS model in the last case (Case No. WR-2020-0344), showed that Rate J required
 a rate reduction of 12.34%, about 3.34 times larger than the St. Louis County district
 average rate reduction of 3.66%.²⁷

On a combined basis (i.e. St. Louis County and Other Missouri), the COSS
models in the current case show that the Rate J class requires an increase of 1.21
times the system average to reach cost of service.²⁸ In WR-2017-0285, the combined
Rate J class required an increase of 0.52 times the system average.²⁹

8 Given the results of the more detailed COSS models provided by Staff in Case
9 No. WR-2020-0345 and by the Company in Case No. WR-2017-0285, it is questionable
10 that Rate J customers in St. Louis County would now require an increase of 2.14 times
11 the district average, or 88.2%.

12QHAS THE COMPANY OFFERED ANY INSIGHT INTO THE DRIVERS OF THE13SIGNIFICANT RATE J INCREASE IN ST. LOUIS COUNTY?

14 A No. In Discovery Request MIEC 3-01,³⁰ MIEC asked MAWC to provide a detailed

15 explanation of the drivers of the 88.2% increase for Rate J in St. Louis County. The

16 Company responded by referring to the \$769 million of capital investment it has or will

17 invest since the 2020 rate case, by the operation of law date in this case.³¹

²⁷Case No. WR-2020-0344. Staff's St. Louis County COSS model workpaper, Schedule 1-WD2 Proposed Rate Summary.

²⁸See Table 1. The total Rate J increase required to reach cost of service based on MAWC's models is \$8.4 million (sum of lines 3 and 11), or 54.7%. This is 1.21 times the system average of 45.1%.

²⁹Case No. WR-2017-0285, Direct Testimony of Constance Heppenstall, Schedule CEH-1. Rate J needed an increase of 17.1% to reach cost of service, relative to a system average increase of 33%, for an index of 0.52 times the system average.

³⁰Attached as Schedule JAY-2 at page 1. ³¹Ibid.

1QDOES THE COMPANY'S REFERENCE TO THE \$769 MILLION OF INVESTMENT2ADEQUATELY EXPLAIN WHY ST. LOUIS COUNTY RATE J CUSTOMERS3REQUIRE AN 88.2% INCREASE TO REACH COST OF SERVICE IN THIS CASE?

4 А No. The Company has not explained what portion of this investment was associated 5 with the water system in St. Louis County, as opposed to being invested outside of St. Louis County, or in the wastewater system. MAWC also did not provide any details 6 7 about whether the investment was primarily in the distribution system, transmission 8 system, storage, or production facilities. To the extent that a significant portion of 9 investment has been in small distribution mains in St. Louis County, and given that the 10 Rate J class is primarily served from the transmission system, it does not seem logical 11 that investment in the distribution system would be driving the Rate J increase in St. 12 Louis County to more than double the system average.

13 Q HAVE YOU PREPARED A SCHEDULE THAT SHOWS THE RESULTS OF YOUR 14 CORRECTIONS TO THE ST. LOUIS COUNTY COSS MODEL?

A Yes. Schedule JAY-1 shows the results of my corrections to MAWC's COSS for St.
Louis County. If my corrections are adopted, similar corrections should be applied to
the COSS for customers outside of St. Louis County as well.

18 Q PLEASE SUMMARIZE YOUR RECOMMENDATIONS WITH RESPECT TO COST OF 19 SERVICE AND REVENUE SPREAD.

A For the reasons described above, the Company's COSS models are inadequate, inaccurate, and require several corrections. I recommend correcting the allocation of Purchased Power expense to use Factor 6 instead of Factor 1. I recommend allocating fixed Power and Pumping costs using Factor 3, instead of Factor 2. I recommend correcting the distribution multiplier for the Rate J class in St. Louis County to 1.04
 percent. Lastly, I recommend functionalizing the depreciation expense and plant
 investment in mains sized 10-inches to 16-inches as distribution, rather than
 transmission. These corrections would also need to be made to the COSS for
 customers outside of St. Louis County.

6 MIEC would welcome the opportunity to discuss these proposed changes to the 7 COSS with the Company, Staff, Office of the Public Counsel, and any other interested 8 party, in the interest of seeking a joint resolution to these COSS modeling issues.

9 Due to the inadequacy of MAWC's COSS in this case, it should not be relied 10 upon as the basis for spreading the Company's claimed revenue deficiency across 11 customer classes in this case. If MIEC's recommended corrections to the COSS are 12 adopted, I recommend bringing the St. Louis County customer classes closer to cost 13 of service based on the results of my corrected COSS model, as described in Section 14 II of my testimony.

15

IV. Company's Proposal for Consolidated Tariff Pricing

16 Q PLEASE DESCRIBE MAWC'S PROPOSAL FOR CONSOLIDATED TARIFF 17 PRICING.

A As discussed in the direct testimony of Mr. Rea, the Company is proposing to continue its movement toward CTP. Specifically, the Company proposes to equalize the volumetric rates for Rate A between St. Louis County and non-St. Louis County customers to complete the process of CTP for those rates.³² Mr. Rea also notes that the Company is proposing to move Rate J rates closer together by increasing Rate J

³²Direct Testimony of Charles Rea at 10.

for St. Louis County customers by 200% of the increase for non-St. Louis County
 customers.³³

Q WHAT REASONS DOES MR. REA PROVIDE IN SUPPORT OF THE COMPANY'S PROPOSAL FOR CTP?

5 A Mr. Rea's comments on CTP are limited to the Company's intention for rate design,
6 and he does not offer specific evidence in support of continuing the movement toward
7 CTP.

8 Q DO YOU SUPPORT THE COMPANY'S PROPOSAL TO CONTINUE MOVING 9 TOWARD CTP?

10 A No. CTP violates cost-causation principles. I recommend the Commission reject any
 11 further consolidation of MAWC's districts and customer classes.

12 Q HOW WOULD CONSOLIDATION AFFECT THE TWO EXISTING DISTRICTS? ARE 13 THE ST. LOUIS COUNTY AND NON-ST. LOUIS COUNTY DISTRICTS RECEIVING

14SERVICE UNDER SUBSTANTIALLYSIMILARCONDITIONSOR15CIRCUMSTANCES?

A No. A statewide consolidation would result in St. Louis County customers subsidizing
 customers outside of the County. As shown in Table 1, MAWC proposes to shift about
 \$16.3 million from the non-St. Louis County district to customers inside of St. Louis
 County. In addition, St. Louis County customers use significantly higher levels of water

³³*Id.* at 11.

1	than other customers. ³⁴ A significant level of MAWC's proposed revenue requirement
2	is collected through usage-based rates. Given their higher usage, St. Louis County
3	customers would be paying a significant level of fixed costs incurred to serve customers
4	outside of their district.
F	If rates were concelled a current St. Louis County systematic would be

If rates were consolidated, current St. Louis County customers would be 5 6 significantly subsidizing Non-St. Louis County customers. This would not reflect 7 cost-causation.

8 WHY DID THE COMMISSION DETERMINE IN CASE NO. WR-2017-0285, THAT ST. Q

9 LOUIS COUNTY SHOULD REMAIN A SEPARATE DISTRICT?

10 А In that case, the Commission rejected MAWC's proposal to implement consolidated

11 pricing and instead utilize two districts. Specifically, the Commission found that:

12 "Full consolidation would increase the potential for imprudent spending by MAWC, since the impact of increases will be shared by more 13 customers. By combining Districts 2 and 3, the Company can still seek 14 to acquire small struggling systems and make system improvements 15 while avoiding rate shock."35 16

17 Q IS THE COMMISSION'S REASONING FROM THE PRIOR RATE CASE STILL

- 18 VALID?
- 19 Α Yes.

³⁴For example, St. Louis County's average monthly Residential use per customer is approximately 50% higher than Residential use per customer outside of St. Louis County. Average monthly use per customer for commercial, industrial, and sales for resale customers in St. Louis County exceeds the average monthly use of customers outside St. Louis County by about 279%.

³⁵Case No. WR-2017-0285. Final Order at 30-31.

1 Q DOES CTP FOLLOW COST-CAUSATION PRINCIPLES?

A No. In general, the proposal for CTP ignores the principle of cost-causation. A
particular water district's rates should be based on the costs that MAWC incurs to
provide that district with service. MAWC's water system is not an integrated system.
CTP ignores the fact that not all of MAWC's water districts are interconnected and thus
the Company cannot serve all of its districts with the same group of water treatment
plants or other plant investment.

Q ARE YOU AWARE THAT CURRENTLY THE NON-ST. LOUIS COUNTY DISTRICT 9 IS COMPOSED OF SEVERAL WATER DISTRICTS THAT HAVE ALREADY BEEN 10 CONSOLIDATED FOR TARIFF PRICES?

A Yes. To be clear, I am not proposing the Commission reverse its previous decision to
have two districts. However, the move to consolidation of the two remaining districts
should be rejected.

14 Q PLEASE ELABORATE ON WHY CTP IGNORES COST-CAUSATION PRINCIPLES

15 AND IS NOT REASONABLE.

16 А In general, consolidated pricing is inappropriate for several reasons. First, the districts 17 are not interconnected to the same (or group of same) water treatment plants. Water 18 treatment plants serving the districts are supplied from district-specific raw water 19 sources (including both groundwater and surface water), which impact water treatment 20 costs. In contrast to power plants in a geographically dispersed, but interconnected 21 electric system, a water treatment plant in Joplin or St. Joseph, for example, cannot 22 provide treated water to the St. Louis County district since those districts are not 23 interconnected. The water treatment plants, distribution networks, pumping equipment

and even the electric utilities serving the various MAWC territories are distinct across
 the state, and the various geographic characteristics of each MAWC service territory
 impact costs related to storage, pressure, pumping, chemicals and other costs
 associated with providing water service in those areas.

5 Second, consolidated pricing ignores the differences in costs of providing 6 service in each non-interconnected water district including, but not limited to, water 7 treatment and supply, labor force, and delivery. Consolidated pricing also ignores the 8 differences in rate base investment that have occurred to provide water service in each 9 operating district. Consolidated pricing is inconsistent with traditional cost of service 10 principles and ignores the concept of cost-causation. In essence, consolidated pricing 11 results in price subsidies to customers in a high-cost district at great cost to customers 12 in a low-cost district. For example, the cost to install water pipe in a district with rocky 13 soil is higher than the cost to install water pipe in a district without rocky soil. Under 14 consolidated pricing, the customers in the lower-cost district with non-rocky soil would 15 subsidize a portion of the cost to install pipe in the higher-cost district with rocky soil.

16 Moreover, the unjust cross-subsidies created by consolidated pricing could 17 erode the efficiency of the water system. These rate subsidies would erode the 18 economic incentive for customers in high-cost districts to be more efficient in placing 19 demands on the water utility because the prices they pay do not accurately reflect the 20 cost of receiving water service. Hence, customers with subsidized prices may impose 21 greater and less efficient demand on a high-cost district, which could cause greater 22 cost at the high-cost district and increase customer subsidies required to bring that 23 district's price down to the consolidated rate. To better reflect cost-causation, it is 24 appropriate for the Company's rates in each district to be compensatory and free of 25 subsidies.

1 Q PLEASE EXPLAIN HOW CONSOLIDATED PRICING CAN ERODE SYSTEM 2 EFFICIENCY.

A Consolidated pricing could provide management teams in high cost districts disincentives for cost control, because those costs would be comingled with other, lower cost districts across the state. This would reduce the incentive to manage water costs. As indicated, the Commission recognized this possibility in its decision in the last case when it said, "[f]ull consolidation would increase the potential for imprudent spending by MAWC, since the impact of increases will be shared by more customers."

9 Q DO YOU HAVE ANY OTHER CONCERNS WITH CTP?

10 А Yes. CTP reduces the Company's incentive to perform due diligence before acquiring 11 new water systems. The impact of acquiring a new system will be significantly reduced 12 because all operation and maintenance costs will be consolidated into one tariff price. 13 This may result in MAWC acquiring a system that disguises the impact of the 14 acquisition on all customers. New systems could be acquired without adequate 15 consideration as to whether the costs to operate those systems are economical since 16 those costs would be rolled into existing rates under consolidated pricing. Besides, the 17 Commission already recognized in its last decision that the establishment of two 18 districts provides sufficient incentive for the Company to acquire "small struggling 19 systems."

20 Q HAS THE COMPANY ACQUIRED SMALL WATER SYSTEMS?

A Yes. MAWC has acquired many water systems over the years. Many of these
 acquisitions were made prior to rates being consolidated down to two districts. Clearly,

Jessica A. York Page 27 the creation of a consolidated state-wide rate was not needed for MAWC to acquire
 other small systems.

3 Q PLEASE STATE YOUR RECOMMENDATION WITH RESPECT TO CTP.

A I recommend that the Commission reject MAWC's proposal for CTP, and instead
maintain the two pricing districts approved by the Commission in the last rate case. I
recommend that the respective revenue requirement for St. Louis County customers
and Non-St. Louis County customers be recovered through proposed rates based on
each district's respective cost of service.

9 Q DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

10 A Yes, it does.

Qualifications of Jessica A. York

1	Q	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
2	А	Jessica York. My business address is 16690 Swingley Ridge Road, Suite 140,
3		Chesterfield, MO 63017.
4	Q	PLEASE STATE YOUR OCCUPATION.
5	А	I am a consultant in the field of public utility regulation and an Associate with the firm
6		of Brubaker & Associates, Inc. ("BAI"), energy, economic and regulatory consultants.
7	Q	PLEASE IDENTIFY THE JURISDICTIONS IN WHICH YOU HAVE PREVIOUSLY
8		SPONSORED TESTIMONY.
9	А	I have sponsored expert testimony in front of the Illinois Commerce Commission, the
10		Indiana Utility Regulatory Commission, the Michigan Public Service Commission, the
11		Minnesota Public Utilities Commission, the Missouri Public Service Commission, the
12		Public Utilities Commission of Nevada, and the Oklahoma Corporation Commission.
13	Q	PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND PROFESSIONAL
14		EMPLOYMENT EXPERIENCE.
15	А	I graduated from Truman State University in 2008 where I received my Bachelor of
16		Science Degree in Mathematics with minors in Statistics and Actuarial Science. I

- earned my Master of Business Administration Degree with a concentration in Finance 17 from the University of Missouri-St. Louis in 2014. 18
- 19 I joined BAI in 2011 as an analyst. Then, in March 2015, I joined the consulting 20 team of BAI.

1 I have worked in various electric, natural gas and water and wastewater regulatory proceedings addressing cost of capital, sales revenue forecasts, revenue 2 3 requirement assessments, class cost of service studies, rate design, and various policy 4 issues. I have also conducted competitive power and natural gas solicitations on behalf 5 of large electric and natural gas users, have assisted those large power and natural 6 gas users in developing procurement plans and strategies, assisted in competitive 7 contract negotiations, and power and natural gas contract supply administration. In the 8 regulated arena. I have evaluated cost of service studies and rate designs proffered by 9 other parties in cases for various utilities, including in Wisconsin, Illinois, Indiana, 10 Kansas, and others. I have conducted bill audits, rate forecasts and tariff rate 11 optimization studies.

I have also provided support to clients with facilities in deregulated markets,
 including drafting supply requests for proposals, evaluating supply bids, and auditing
 competitive supply bills. I have also prepared and presented to clients reports that
 monitor the electric market and recommend strategic hedging transactions.

BAI was formed in April 1995. BAI and its predecessor firm have participated
in more than 700 regulatory proceedings in forty states and Canada.

BAI provides consulting services in the economic, technical, accounting, and financial aspects of public utility rates and in the acquisition of utility and energy services through RFPs and negotiations, in both regulated and unregulated markets. Our clients include large industrial and institutional customers, some utilities and, on occasion, state regulatory agencies. We also prepare special studies and reports, forecasts, surveys and siting studies, and present seminars on utility-related issues.

In general, we are engaged in energy and regulatory consulting, economicanalysis and contract negotiation.

In addition to our main office in St. Louis, the firm also has branch offices in
 Corpus Christi, Texas; Detroit, Michigan; Louisville, Kentucky and Phoenix, Arizona.

Appendix A Jessica A. York Page 3

BRUBAKER & ASSOCIATES, INC.

Missouri-American Water Company Class Cost of Service Study - Functional Allocators to Customer Class Case No: WR-2022-0303, SR-2022-0304

					Non					Rate F		
rce of Supply Expense	Functional COS	Alloc Description	Re	esidential	Residential	Rate J	Rate B	Rate P	Public Fire	Private Fire	Total	Varian
Fixed \$	5,121,572	2 Base/Extra Daily	\$	3,269,948 \$	1,143,888 \$	330,080 \$	147,935 \$	225,802 \$	- \$	3,919 \$	5,121,572	Ś
Variable \$	4,608,894	1 Total Usage	\$	3,095,249 \$		66,512 \$	45,748 \$	46,920 \$	319,707 \$		4,608,894	
ver and Pumping Expenses												
Fixed \$	17,454,964	3 Base/Extra Daily	\$	10,528,848 \$	3,684,227 \$	1,060,623 \$	474,986 \$	725,085 \$	760,500 \$	220,696 \$	17,454,964	\$
Variable \$	3,008,720	1 Total Usage	\$	2,043,525 \$	615,629 \$	18,460 \$	18,462 \$	11,825 \$	232,965 \$	67,856 \$	3,008,720	\$
er Treatment												
Fixed \$	47,947,178	2 Base/Extra Daily	\$	30,612,630 \$	10,708,859 \$	3,090,148 \$	1,384,939 \$	2,113,916 \$	- \$		47,947,178	
Variable \$	12,817,674	1 Total Usage	\$	7,802,245 \$	2,569,380 \$	1,062,425 \$	528,091 \$	791,575 \$	36,371 \$	27,587 \$	12,817,674	\$
smission \$	22,224,730	3 Base/Extra Daily w/ Fire	\$	13,405,974 \$	4,690,984 \$	1,350,451 \$	604,781 \$	923,223 \$	968,315 \$		22,224,730	
ibution \$	134,523,698	4 Base/Extra Hourly w/ Fire		92,436,930 \$	27,434,788 \$	57,456 \$	529,179 \$	- \$	10,892,137 \$		134,523,698	
ge \$	1,098,851	5 Storage	\$	693,637 \$		35,430 \$	15,882 \$	24,241 \$	- \$		1,098,851	
ers \$	32,679,721	8 Meters	\$	25,731,752 \$	6,730,298 \$	217,671 \$	- \$	- \$	- \$		32,679,721	
ces \$	21,503,995	9 Services	\$	17,117,851 \$	2,335,550 \$	26,176 \$	- \$	- \$	- \$		21,503,995	
omers \$	14,420,398	10 Customers	\$	13,364,296 \$		5,595 \$	166 \$	83 \$	- \$		14,420,398	
ants \$	14,163,574	7 Hydrants	\$	- \$	- \$	- \$	- \$	- \$	14,147,016 \$	16,558 \$	14,163,574	Ş
\$	331,573,969		\$	220,102,884 \$	61,798,134 \$	7,321,028 \$	3,750,168 \$	4,862,669 \$	27,357,011 \$	6,382,075 \$	331,573,969	\$
				66.38%	18.64%	2.21%	1.13%	1.47%	8.25%	1.92%	100.00%	
Year Water Revenue \$	234,849,443		\$	167,224,457 \$	49,403,315 \$	6,252,876 \$	4,232,070 \$	3,977,486 \$	- \$	3,759,239 \$	234,849,443	\$
er Water Operating Revenues \$	3,588,819											
ase \$	96,724,526		\$	52,878,427 \$	12,394,819 \$	1,068,152 \$	(481,902) \$	885,183 \$	27,357,011 \$		96,724,526	Ş
ent Increase	41.2%			31.62%	25.09%	17.08%	-11.39%	22.25%	0.00%	69.77%	41.19%	
Year Revenue			\$	167,224,457 \$	49,403,315 \$	6,252,876 \$	4,232,070 \$	3,977,486 \$	- \$	3,759,239 \$	234,849,443	
of Service Increase			\$	52,878,427 \$	12,394,819 \$	1,068,152 \$	(481,902) \$	885,183 \$	27,357,011 \$	2,622,836 \$	96,724,526	
ation of Public Fire			\$	21,540,692 \$	5,634,101 \$	182,218		\$	(27,357,011)	\$	-	
nue Target			\$	241,643,576 \$	67,432,235 \$	7,503,246 \$	3,750,168 \$	4,862,669 \$	- \$		331,573,969	
nt Increase				44.5%	36.5%	20.0%	-11.4%	22.3%	0.0%	69.8%	41.2%	
				1.08	0.89	0.49	(0.28)	0.54	-	1.69	1.00	
Including Increase \$	335,162,787											
Workpaper	335,162,790											
\$	(3)											
Variable Cost \$	20,435,288											
		As Filed Increase to Reach CO										
variable cost 🤤		Amoun	nt\$	68,650,658 \$	17,498,662 \$	5,514,402 \$	515,600 \$	2,643,997 \$	- \$,,	96,724,526	
		Amoun Percen	nt\$ nt	41.1%	35.4%	88.2%	12.2%	66.5%	- Ş	50.6%	41.2%	
vanisole Cost 🧳		Amoun	nt\$ nt						- \$			
Variable Cost 🧳		Amoun Percen	nt\$ nt	41.1%	35.4%	88.2%	12.2%	66.5%	- \$ - \$ - \$	50.6% 1.23 2,622,836 \$	41.2%	

MAWC Class Cost of Service Study Case Nos. WR-2022-0303 | SR-2022-0304

> Schedule JAY-1 Page 1 of 18

Enter 1 to Modify Purchased Power Allocation

					Non							Rate F		-		
	Allocator	R	esidential	- 1	Residential	Rate J	Rate B	Rate P	F	Public Fire	Р	rivate Fire	Total			Check
Source of Supply		_												-		
Purch Water	1	\$	290,835	\$	96,124	\$ 41,179	\$ 20,412	\$ 30,693	\$	-	\$	660	\$ 479,903	\$		479,903
Fuel & Power	6	\$	2,804,414	\$	844,853	\$ 25,333	\$ 25,336	\$ 16,227	\$	319,707	\$	93,121	\$ 4,128,991	\$	4	4,128,991
Total	l	\$	3,095,249	\$	940,976	\$ 66,512	\$ 45,748	\$ 46,920	\$	319,707	\$	93,782	\$ 4,608,894	\$	4,6	08,894
Power & Pumping																
Fuel & Power	6	\$	2,043,525	\$	615,629	\$ 18,460	\$ 18,462	\$ 11,825	\$	232,965	\$	67,856	\$ 3,008,720	\$	3,008	,720
Water Treatment																
Fuel & Power	6	\$	319,040	\$	96,113	\$ 2,882	\$ 2,882	\$ 1,846	\$	36,371	\$	10,594	\$ 469,728	\$	469,	728
Chemicals	1	\$	7,479,646	\$	2,472,090	\$ 1,059,039	\$ 524,959	\$ 789,353	\$	-	\$	16,985	\$ 12,342,072	\$	12,342,0)72
Waste Disposal	1	\$	3,560	\$	1,177	\$ 504	\$ 250	\$ 376	\$	-	\$	8	\$ 5,874	\$	5,8	74
Total	l	\$	7,802,245	\$	2,569,380	\$ 1,062,425	\$ 528,091	\$ 791,575	\$	36,371	\$	27,587	\$ 12,817,674	\$	12,817,6	74

MAWC Class Cost of Service Study Case Nos. WR-2022-0303 | SR-2022-0304

Schedule JAY-1 Page 2 of 18
Class Cost of Service Study - Account Detail														
Case No: WR-2022-0303, SR-2022-0304			Source of		Water									
	Post Test Year	Alloc Description	Supply	Pumping	Treatment	Transmission	Distribution	Storage	Meters	Services	Customers	Hydrants	Total	Variance
Source of Supply Expense														
Operating Expense														
Purchased Water	\$ 479,903	A Source of Supply	\$ 479,903 \$	- \$	- \$			\$-\$	- \$	-			479,903	
Fuel and Power	\$ 4,128,991		\$ 4,128,991 \$	- \$	- \$	- \$		\$-\$	- \$	-	\$-\$		4,128,991	
Salaries and Wages	\$ 27,691	A Source of Supply	\$ 27,691 \$	- \$	- \$	- \$		\$-\$	- \$		\$-\$	- \$	27,691 \$	
Contract Services - Other	\$ 124,230	A Source of Supply	\$ 124,230 \$	- \$	- \$	- \$		\$-\$	- \$		\$-\$	- \$	124,230	
Building Maintenance and Services	\$ 382,028	A Source of Supply	\$ 382,028 \$	- \$	- \$	- \$		s - s	- \$		s - s	- \$	382,028	
Miscellaneous	\$ 1,166	A Source of Supply	\$ 1,166 \$	- \$	- \$	- \$		\$-\$	- \$		\$-\$	- \$	1,166 \$	
Telelcommunications	\$ 125,722	A Source of Supply	\$ 125,722 \$	- \$	- \$	- \$		s - s	- \$		s - s	- \$	125,722	
Postage	\$ -	A Source of Supply	s - s	- \$	- \$	- \$	-	s - s	- \$		s - s	- \$	- 9	
Office supplies and services	\$ 3,566		\$ 3,566 \$	- \$	- \$			s - s	- \$		s - s	- \$	3,566	
Materials & Supplies	\$ 4,113		\$ 4,113 \$	- s	- s			s - s	- s		s - s	- 5	4,113	-
Rents-Property	\$ 397	A Source of Supply	\$ 397 \$	- \$	- \$	- s		s - s	- s		s - s	- \$	397	
Rents-Equipment	\$ 4,647	A Source of Supply	\$ 4,647 \$	- \$	- s	- s		s - s	- \$		s - s	- \$	4,647 \$	
Transportation	\$ 10,066	A Source of Supply	\$ 10,066 \$	- s	- s	- 5		s - s	- s		s - s	- 5	10,066	-
	\$ 5,292,520		\$ 5,292,520 \$	- \$	- \$	- \$	-	\$ - \$	- \$		s - s	- \$	5,292,520	
Maintenance Expense														
Salaries and Wages	\$ 257,487	A Source of Supply	\$ 257,487 \$	- s	- \$	- s		s - s	- \$		s - s	- \$	257,487	-
Materials & Supplies	\$ 37,093		\$ 37,093 \$		- \$			s - s			s - s		37,093	
Transportation	\$.		s - s		- \$			s - s			s - s			
Miscellaneous	\$ 8,812		\$ 8.812 \$					s . s			s . s		8,812	
Contract Services - Eng	\$		\$ - \$					s - s					- 0,012	
Contract Services - Other	\$ 81,823		\$ 81,823 \$		- 5			s - s					81,823	
contract services - other	\$ 385.215		\$ 385,215 \$					s - s					385,215	
	\$ 385,215		\$ 385,215 \$	- >	- >		-	\$ - \$	- >		s - s	>	385,215	, -
Total SS Expense	\$ 5,677,735		\$ 5,677,735 \$						- \$		۰. s		. (33 33 c)	
Total SS Expense	\$ 5,6/7,735		\$ 5,677,735 \$	- \$	- \$	- s		\$-\$	- >		s - s	; - \$	5,677,735	, -
Power and Pumping Expenses														
Operating Expense	A 2 000 730	B Pumping	s - s	2 000 720 4				s - s	- \$		s - s		2 000 720	
Fuel and Power	\$ 3,008,720		s - s	3,008,720 \$	- \$								3,008,720	
Salaries and Wages	\$ 1,336,409			1,336,409 \$	- \$				+				1,336,409	
Employee Benefits	s -	B Pumping	\$ - \$	- \$	- \$			s - s	- \$		\$-\$			
Building Maintenance and Services	\$ 4,917	B Pumping	\$ - \$	4,917 \$	- \$		-	, , , ,	- \$		s - s		4,917 \$	
Miscellaneous	\$ 982	B Pumping	\$ - \$	982 \$	- \$		-	s - s	- \$		s - s		982 9	
Office supplies and services	\$ 53		\$ - \$		- \$			\$-\$	- \$		\$-\$		53 \$	
Materials & Supplies	\$ 2,821		\$-\$		- \$			\$-\$	- \$		\$-\$		2,821 \$	
Rents-Equipment	\$ 2,198		\$ - \$	2,198 \$	- \$				- \$				2,198 \$	
Transportation	\$ 329,008	B Pumping	\$-\$	329,008 \$	- \$			\$-\$	- \$				329,008	
	\$ 4,685,108		s - s	4,685,108 \$	- \$	- \$	-	s - s	- \$		s - s	- \$	4,685,108	-
Maintenance Expense														
Salaries and Wages	\$ 354,333		\$-\$	354,333 \$	- \$			\$-\$	- \$				354,333	
Transportation	\$ 561		\$-\$	561 \$	- \$			s - s	- \$		\$-\$		561 \$	
Contract Services - Eng	\$ 1,659		\$-\$	1,659 \$	- \$			\$-\$	- \$		\$-\$		1,659 \$	
Contract Services - Other	\$ 78,395	B Pumping	\$ - \$	78,395 \$	- \$	- \$	-	\$-\$	- \$		\$-\$	- \$	78,395	-
Miscellaneous	\$ 2,344		\$-\$	2,344 \$	- \$	- \$		\$-\$	- \$	-			2,344 \$	
Materials & Supplies	\$ 57,913	B Pumping	\$-\$	57,913 \$	- \$	- \$		\$-\$	- \$		\$-\$		57,913	
	\$ 495,205		\$-\$	495,205 \$	- \$	- \$		\$-\$	- \$		\$-\$	- \$	495,205	-
Total Pumping Expense	\$ 5,180,313		\$-\$	5,180,313 \$	- \$: - \$		s - s	- \$		s - s	; - \$	5,180,313	-
Water Treatment														
Operating Expense														
Fuel and Power	\$ 469,728		\$ - \$	- \$	469,728 \$			\$-\$	- \$				469,728	
Chemicals	\$ 12,342,072	C Water Treatment	\$-\$	- \$	12,342,072 \$			\$-\$	- \$		\$-\$		12,342,072	
Waste Disposal	\$ 5,874	C Water Treatment	\$-\$	- \$	5,874 \$			\$-\$	- \$		\$-\$		5,874	
Salaries and Wages	\$ 3,071,322	C Water Treatment	\$ - \$	- \$	3,071,322 \$			\$-\$	- \$		\$-\$		3,071,322	
Employee Benefits	\$ 10		\$-\$	- \$	10 \$			\$-\$	- \$		\$-\$		10 9	
Contract Services - Eng	\$ 13,355		\$-\$	- \$	13,355 \$			\$-\$	- \$		\$-\$		13,355	
Contract Services - Other	\$ 63,055	C Water Treatment	\$-\$	- \$	63,055 \$			\$-\$	- \$		\$-\$		63,055	
Building Maintenance and Services	\$ 68,281	C Water Treatment	\$-\$	- \$	68,281 \$			\$-\$	- \$		\$-\$		68,281	
Miscellaneous	\$ 86,564		\$-\$	- \$	86,564 \$	i - \$		\$-\$	- \$		\$-\$		86,564	
Telelcommunications	\$ 10,462		\$-\$	- \$	10,462 \$	- \$	-	\$-\$	- \$		\$-\$		10,462 \$	
Postage	\$ -	C Water Treatment	\$-\$	- \$	- \$	- \$	-	s - s	- \$		s - s	- \$	- 9	
Office supplies and services	\$ 13,599	C Water Treatment	s - s	- \$	13,599 \$	- \$		s - s	- \$		s - s	- \$	13,599	
Materials & Supplies	\$ 20,354	C Water Treatment	s - s	- \$	20,354 \$	- s		s - s	- \$		s - s	- \$	20,354	
Rents-Property	\$ -	C Water Treatment	s - s	- \$	- \$	- \$		s - s	- \$		s - s	- \$		
Rents-Equipment	\$ 5,346		s - s	- \$	5,346 \$	- s		s - s	- \$		s - s	- \$	5,346	
Transportation	\$ 1,900	C Water Treatment	s - s	- \$	1,900 \$	- s		s - s	- \$		s - s	- \$	1,900 \$	
	\$ 16,171,922		\$ - \$	- \$	16,171,922 \$	- \$		\$ - \$	- \$	÷	\$-\$	- \$	16,171,922	-

MAWC Class Cost of Service Study Case Nos. WR-2022-0303 | SR-2022-0304

> Schedule JAY-1 Page 3 of 18

Case No: WR-2022-0303, SR-2022-0304 Source of Water Post Test Year Alloc Description Supply Variance tenance Expense Salaries and Wages 1.455.538 с Water Treatment 1.455.538 \$ 1.455.538 \$ 14,420 3,537 14,420 \$ 3,537 \$ 14,420 \$ 3,537 \$ Transportation Water Treatment Contract Services - Eng Water Treatment Contract Services - Other 990.534 Water Treatment 990.534 \$ 990.534 \$ Miscellan 46,564 720,477 Water Treatment 46,564 \$ 46,564 Materials & Supplie Water Treatment 720,477 \$ 720,477 3.231.070 3.231.070 - \$ - \$ 19,402,992 \$ Total Water Treatment Expense \$ 19,402,992 \$ - \$ \$ 19,402,992 \$ - \$ - \$ - \$ - \$ - \$ ission & Distribution Expense Operating Expense Fuel and Power 457,785 4,616,413 1 T/D Oper. Expense 29,459 \$ 281,921 \$ 2,842,963 \$ 6,690 \$ 146,404 \$ 1,476,375 \$ 3,474 \$ 457 785 \$ Salaries and Wages T/D Oper. Expense 297,075 \$ 4,616,413 \$ Employee Benefits 10,863 T/D Oper. Expense 699 \$ 10,863 \$ 1 Contract Services - Eng Contract Services - Other 37,650 1,262,621 T/D Oper. Expense T/D Oper. Expense 2,423 \$ 81,252 \$ 23,186 \$ 777,570 \$ 12,041 \$ 403,799 \$ 37,650 1,262,621 42,667 \$ 133,413 \$ Building Maintenance and Services 133,413 T/D Oper. Expense 8,585 \$ 82,161 \$ Miscellaneous Telelcommunications 44,632 71,262 T/D Oper. Expense T/D Oper. Expense 2,872 \$ 4,586 \$ 27,486 \$ 43,886 \$ 14,274 \$ 22,790 \$ 44,632 \$ 71,262 \$ Postage Office supplies and services Materials & Supplies T/D Oper, Expense 44,900 55,062 2.889 27.651 \$ 14.359 44 900 T/D Oper. Expense T/D Oper. Expense 3,543 \$ 33,909 \$ 17,609 \$ 55,062 \$ 163 4,144 Rents-Property 1 T/D Oper, Expense 10 9 100 S 52 5 163 \$ Rents-Equipment T/D Oper. Expense 267 \$ 2,552 \$ 1,325 \$ 4,144 \$ Transportation 196.349 1 T/D Oper, Expense 12.635 \$ 120,919 \$ 62,794 \$ 196.349 \$ 6.935.25 446.297 4.270.995 \$ 2.217.965 \$ 6.935.257 Maintenance Expense Salaries and Wages Contract Services - Eng Contract Services - Other 1,741,996 94,411 2 T/D Maint.. Expense \$ 2 T/D Maint.. Expense \$ 2 T/D Maint.. Expense \$ 43,040 \$ 2,333 \$ 56,492 \$ 411,887 \$ 22,323 \$ 540,615 \$ 239,479 \$ 12,979 \$ 314,325 \$ 582,930 \$ 464,660 \$ 25,183 \$ 609,881 \$ 1,741,996 \$ s s 31,593 \$ 765,115 \$ 94,411 \$ 2,286,428 \$ 2,286,428 Transportation Miscellaneous T/D Maint.. Expense \$ \$ 23,690 \$ 27,608 \$ 226,712 \$ 131,815 \$ 320,859 \$ 255,760 \$ 958 837 \$ T/D Maint.. Expense 264,201 \$ 153,612 373,915 \$ 298,052 1,117,388 1,117,388 1,017,496 Materials & Supplie T/D Maint.. Expense 25,140 \$ 240,582 \$ 139,879 340,488 \$ 271,407 1,017,496 178,302 1,706,321 \$ 992.090 2,414,901 1,924,943 7.216.556 Total T&D Expense \$ 14,151,813 \$ - \$ - \$ - \$ 624,599 \$ 5,977,316 \$ - \$ 3,210,054 \$ 2,414,901 \$ 1,924,943 \$ 14,151,813 \$ - \$ General Mains Expense Operation Salaries and Wag 1,072,388 K Mains 101,457 \$ 970,931 \$ 915 \$ 1.072.388 \$ - \$ s Miscellaneous 1,011 K Mains 96 \$ 1,011 \$ 1.073.399 101.553 \$ 971.846 \$ 1.073.399 \$ Maintenance Expense 23.137 Ś 221.414 S 244.551 \$ Salaries and Wages 244.551 К Mains s (1,168) 243,383 (111) \$ 23,026 \$ (1,057) \$ 220,357 \$ (1,168) \$ 243,383 \$ Miscellaneous ĸ Mains General Mains Expense s 1.316.782 ŝ Ś Ś 124,579 \$ 1,192,203 \$ s ŝ 1.316.782 \$ Ś s s s Storage Expense Operating Expense Salaries and Wages F Storage Ś - Ś - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ Miscellaneous E Storage Maintenance Expense Salaries and Wages F Storage Miscellaneous F Storage \$ Ś Ś Ś S Ś \$ \$ - \$ - \$ Total Storage Expense \$ - \$ - \$ - \$ - \$ - \$ \$ \$ - \$ Meter Expense Operating Expense 503,793 \$ 895 \$ Salaries and Wages G Meters - \$ - \$ - s - s 503.793 \$ Ś - S - S Ś - Ś 895 \$ Miscellaneous 895 G Meters 504.688 504.688 \$ 504.688 \$ Maintenance Expense Salaries and Wages 125.052 G Meters Ś Ś Ś Ś s 125.052 \$ Ś Ś Ś 125.052 \$ Miscellaneous 3,068 G Meters 3,068 \$ 3,068 \$

> MAWC Class Cost of Service Study Case Nos. WR-2022-0303 | SR-2022-0304

128,120

128.120

Schedule JAY-1 Page 4 of 18

lissouri-American Water Company lass Cost of Service Study - Account Detail ase No: WR-2022-0303, SR-2022-0304			:	Source of		Water									
Total Meter Expense	Post Test Year \$ 632,808	Alloc Description	\$	Supply - \$	Pumping - \$	Treatment 1	ransmission - \$	Distribution - \$	Storage - \$	Meters 632,808 \$	Services - \$	Customers - \$	Hydrants - \$	Total Vi 632,808 \$	riance -
ervice Expense															
Operating Expense		_													
Salaries and Wages	\$ -	H Services	\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	-
Miscellaneous	\$ -	H Services	\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	-
	\$ -		\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	-
Maintenance Expense															
Salaries and Wages	\$ 306.472	H Services	s	- s	- s	- \$	- \$	- s	- s	- \$	306,472 \$	- \$	- s	306,472 \$	
Miscellaneous	\$ 5,392		ś				- 5				5,392 \$		- 5	5,392 \$	
	\$ 311,864		ŝ	- \$	- \$	- \$	- \$	- \$	- \$	- \$	311,864 \$	- \$	- \$	311,864 \$	-
Total Service Expense	\$ 311,864		\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	311,864 \$	- \$	- \$	311,864 \$	-
/drant Expense															
Maintenance Expense															
Salaries and Wages	\$ 249,441		\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	249,441 \$	249,441 \$	-
Miscellaneous	\$ (851)		\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	(851) \$	(851) \$	
	\$ 248,590		\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	248,590 \$	248,590 \$	-
Hydrant Expense	\$ 248,590		\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- s	- \$	248,590 \$	248,590 \$	
							-								
stomer Accounts Fuel and Power	\$ 1,626	I Customers	s	- s	- s	- s	- s	- s	- s	- 5	- ś	1,626 \$	- s	1,626 \$	
Fuel and Power Salaries and Wages	\$ 1,626		s	- \$	- \$	- \$	- 5	- \$	- \$	- S - S	- \$	1,626 \$ 692,758 \$	- \$	1,626 \$	-
Contract Services - Other	\$ 129,439		s	- >	- >	- 5	- >	- \$	- \$	- 5	- \$	129.439 \$	- \$	129.439 S	
Building Maintenance and Services	\$ 14,186	I Customers	ŝ	- \$	- \$	- s	- \$	- s	- s	- s	- ŝ	14,186 \$	- \$	14,186 \$	-
Miscellaneous	\$ -	I Customers	\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	-
Telelcommunications	\$ 13,448	I Customers	\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	13,448 \$	- \$	13,448 \$	-
Office supplies and services	\$ 3,770	I Customers	\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	3,770 \$	- \$	3,770 \$	-
Materials & Supplies	\$ 11,576	I Customers	\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	11,576 \$	- \$	11,576 \$	-
Transportation	\$ (32,254		ş	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	(32,254) \$	- \$	(32,254) \$	-
Uncollectible Accounts Customer accounting, other	\$ 3,379,756 \$ 1.106.496		s	- \$	- \$	- \$	- \$	- \$	- S	- \$	- \$	3,379,756 \$ 1.106.496 \$	- \$	3,379,756 \$ 1,106.496 \$	-
customer accounting, other	\$ 5,320,801		ş	- \$	- \$	- \$	- \$	- \$	- 3	- \$	- \$	5,320,801 \$	- \$	5,320,801 \$	-
Total Customer Accounting Expense	\$ 5,320,801		\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	5,320,801 \$	- \$	5,320,801 \$	
inistrative & General Expense															
Operating Expense		1													
Fuel and Power Salaries and Wages	\$ 22,483 \$ 11,584,140		s s	755 \$ 205,756 \$	1,535 \$ 1,219,870 \$	4,655 \$ 3,266,127 \$	530 \$ 335,287 \$	5,068 \$ 3.208.649 \$	- \$ - \$	2,716 \$ 1,691,700 \$	1,927 \$ 641.703 \$	3,761 \$ 499,825 \$	1,536 \$ 515,223 \$	22,483 \$ 11,584,140 \$	-
Employee Benefits	\$ 11,584,140		s	65,734 \$	389,719 \$	3,266,127 \$ 1.043.449 \$	335,287 \$ 107.116 \$	1,025,086 \$	- \$	1,691,700 \$ 540,457 \$	205.009 \$	499,825 \$ 159.682 \$	164.601 S	3,700,854 \$	
Support Services Costs - Employee	\$ 13,784,538		ŝ	244,839 \$	1.451.583 \$	3.886.526 \$	398.975 \$	3.818.129 \$	- s	2.013.037 \$	763.594 \$	594,766 \$	613.090 \$	13.784.538 \$	
Support Services Costs - Admin	\$ 13,417,304		ŝ	450,854 \$	916,013 \$	2,777,794 \$	316,015 \$	3,024,219 \$	- s	1,620,982 \$	1,150,194 \$	2,244,400 \$	916,831 \$	13,417,304 \$	
Contract Services - Eng	\$ 115,691		\$	3,888 \$	7,898 \$	23,952 \$	2,725 \$	26,076 \$	- \$	13,977 \$	9,918 \$	19,352 \$	7,905 \$	115,691 \$	-
Contract Services - Other	\$ 1,069,189	3 Fixed O&M	\$	35,927 \$	72,995 \$	221,355 \$	25,182 \$	240,992 \$	- \$	129,172 \$	91,656 \$	178,850 \$	73,060 \$	1,069,189 \$	-
Building Maintenance and Services	\$ 375,508		\$	12,618 \$	25,636 \$	77,742 \$	8,844 \$	84,638 \$	- \$	45,366 \$	32,190 \$	62,814 \$	25,659 \$	375,508 \$	-
Miscellaneous	\$ 1,397,829		\$	46,971 \$	95,431 \$	289,394 \$	32,923 \$	315,066 \$	- \$	168,876 \$	119,828 \$	233,824 \$	95,516 \$	1,397,829 \$	-
Telelcommunications	\$ 639,572		s	21,491 \$	43,664 \$	132,411 \$	15,064 \$	144,158 \$	- \$	77,268 \$	54,827 \$	106,985 \$	43,703 \$	639,572 \$	-
Postage Office supplies and services	\$ 473.965	3 Fixed O&M 3 Fixed O&M	ş	- \$ 15926 \$	- \$ 32.358 \$	- \$ 98.125 \$	- \$	- \$ 106.830 \$	- \$ - \$	- \$ 57.261 \$	- \$ 40.630 \$	- \$ 79.283 \$	- \$ 32.387 \$	- \$ 473.965 \$	-
Materials & Supplies	\$ 62,664	3 Fixed O&M	s	2,106 \$	4,278 \$	12,973 \$	1,476 \$	14,124 \$	- 3	7,571 \$	5,372 \$	10,482 \$	4,282 \$	62,664 \$	-
Communications	\$ 12,067	3 Fixed O&M	ŝ	405 \$	824 \$	2,498 \$	284 \$	2,720 \$	- \$	1,458 \$	1,034 \$	2,019 \$	825 \$	12,067 \$	-
Rents-Property	\$ 96,349	3 Fixed O&M	\$	3,238 \$	6,578 \$	19,947 \$	2,269 \$	21,717 \$	- \$	11,640 \$	8,259 \$	16,117 \$	6,584 \$	96,349 \$	-
Rents-Equipment	\$ 12,359	3 Fixed O&M	\$	415 \$	844 \$	2,559 \$	291 \$	2,786 \$	- \$	1,493 \$	1,059 \$	2,067 \$	845 \$	12,359 \$	-
Transportation	\$ 1,750,896	3 Fixed O&M	\$	58,834 \$	119,535 \$	362,489 \$	41,239 \$	394,647 \$	- \$	211,531 \$	150,095 \$	292,884 \$	119,642 \$	1,750,896 \$	-
Regulatory Expense	\$ 233,194	3 Fixed O&M	s	7,836 \$	15,920 \$	48,278 \$	5,492 \$	52,561 \$	- \$	28,173 \$	19,990 \$	39,008 \$	15,935 \$	233,194 \$	-
Insurance	\$ 5,131,596 \$ 53,880,198		ş	172,434 \$ 1,350,028 \$	350,339 \$ 4,755,021 \$	1,062,398 \$ 13,332,672 \$	120,864 \$ 1,425,740 \$	1,156,646 \$ 13,644,113 \$	- \$	619,962 \$ 7,242,639 \$	439,904 \$ 3,737,192 \$	858,396 \$ 5,404,515 \$	350,652 \$ 2,988,277 \$	5,131,596 \$ 53,880,198 \$	-
	ə əə,680,198		\$	1,330,020 \$	4,/33,021 \$	13,332,072 \$	1,423,740 \$	13,044,113 \$	- >	1,242,033 \$	3,131,132 \$	3,404,313 Ş	2,700,211 \$	33,000,170 \$	-
		4 Labor	s	1,224 \$	7,257 \$	19,430 \$	1,995 \$	19,088 \$	- s	10,064 \$	3,817 \$	2,973 \$	3,065 \$	68,914 \$	
Maintenance Expense	¢ 69.014		ş		806 \$	2,443 \$	278 \$	2,659 \$	- \$	1,425 \$	1,011 \$	1,974 \$	3,065 \$	11,799 \$	
Salaries and Wages	\$ 68,914 \$ 11,709		c												-
Salaries and Wages Transportation	\$ 68,914 \$ 11,799 \$	3 Fixed O&M	\$ s	396 \$. ć	. ć	-
Salaries and Wages					- \$ 4,006 \$	- \$ 12,149 \$	- \$ 1,382 \$	- \$ 13,227 \$	- \$ - \$	- \$ 7,090 \$	- \$ 5,031 \$	- \$ 9,816 \$	- \$ 4,010 \$	- \$ 58,683 \$	-
Salaries and Wages Transportation Contract Services - Eng	\$ 11,799 \$ -	3 Fixed O&M 3 Fixed O&M 3 Fixed O&M	s	- \$	- \$	- \$									
Salaries and Wages Transportation Contract Services - Eng Contract Services - Other	\$ 11,799 \$ - \$ 58,683 \$ 318,530 \$ 21,436	3 Fixed O&M 3 Fixed O&M 3 Fixed O&M 3 Fixed O&M 3 Fixed O&M 3 Fixed O&M	\$ \$ \$ \$	- \$ 1,972 \$ 10,703 \$ 720 \$	- \$ 4,006 \$ 21,746 \$ 1,463 \$	- \$ 12,149 \$ 65,945 \$ 4,438 \$	1,382 \$ 7,502 \$ 505 \$	13,227 \$ 71,796 \$ 4,832 \$	- S - S - S	7,090 \$ 38,482 \$ 2,590 \$	5,031 \$ 27,306 \$ 1,838 \$	9,816 \$ 53,283 \$ 3,586 \$	4,010 \$ 21,766 \$ 1,465 \$	58,683 \$ 318,530 \$ 21,436 \$	-
Salaries and Wages Transportation Contract Services - Eng Contract Services - Other Miscellaneous	\$ 11,799 \$ - \$ 58,683 \$ 318,530	3 Fixed O&M 3 Fixed O&M 3 Fixed O&M 3 Fixed O&M 3 Fixed O&M 3 Fixed O&M	s s	- \$ 1,972 \$ 10,703 \$	- \$ 4,006 \$ 21,746 \$	- \$ 12,149 \$ 65,945 \$	1,382 \$ 7,502 \$	13,227 \$ 71,796 \$	- \$ - \$	7,090 \$ 38,482 \$	5,031 \$ 27,306 \$	9,816 \$ 53,283 \$	4,010 \$ 21,766 \$	58,683 \$ 318,530 \$	-
Salaries and Wages Transportation Contract Services - Eng Contract Services - Other Miceilaneous	\$ 11,799 \$ - \$ 58,683 \$ 318,530 \$ 21,436	3 Fixed 0&M 3 Fixed 0&M 3 Fixed 0&M 3 Fixed 0&M 3 Fixed 0&M 3 Fixed 0&M	\$ \$ \$ \$	- \$ 1,972 \$ 10,703 \$ 720 \$	- \$ 4,006 \$ 21,746 \$ 1,463 \$	- \$ 12,149 \$ 65,945 \$ 4,438 \$	1,382 \$ 7,502 \$ 505 \$	13,227 \$ 71,796 \$ 4,832 \$	- S - S - S	7,090 \$ 38,482 \$ 2,590 \$	5,031 \$ 27,306 \$ 1,838 \$	9,816 \$ 53,283 \$ 3,586 \$	4,010 \$ 21,766 \$ 1,465 \$	58,683 \$ 318,530 \$ 21,436 \$	-

MAWC Class Cost of Service Study Case Nos. WR-2022-0303 | SR-2022-0304

> Schedule JAY-1 Page 5 of 18

Fire Mains

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Case No: WR-2022-0303, SR-2022-0304 Source of Water Variance Post Test Year Alloc Description Supply Treatmen Total Taxes Other Than Income Tax Property Taxes 28.327.198 5 Net Plant (less gen, a \$ 276.320 \$ 1.037.096 \$ 2.888.931 \$ 2.695.074 \$ 16.255.960 \$ 115.604 \$ 2.378.516 \$ 1.351.865 \$ 290.421 \$ 1.037.410 \$ 28.327.198 \$ 2,102,386 4 Labor 6 Rate Base 221,392 \$ 69,888 \$ 592,764 \$ 194,769 \$ 60,851 \$ 162,707 \$ 582,332 \$ 900,058 \$ 307,024 \$ 155,668 \$ 116,462 \$ 79,898 \$ 93,507 \$ 65,412 \$ Payroll Taxes 37.342 90.712 2.102.386 18,700 \$ 7,965 \$ 18,898 \$ 1,673,964 \$ Utility Reg Assessment Other Taxes (93.694) 6 Rate Base (1.047) 9 (3.912) \$ (10.901) \$ (9.107) \$ (50.377) \$ (446) S (8.713) \$ (4,472) \$ (1.058) (3.661) \$ (93.694) \$ 32,009,854 331,315 1,324,465 \$ 2,909,524 17,687,974 123,124 2,832,495 \$ 1,543,753 398,974 Total Taxes Other Than Income Taxes (STL Water) ŝ 32.009.854 ŝ 331.315 Ś 1.324.465 \$ 3.665.562 \$ 2.909.524 \$ 17.687.974 \$ 123.124 \$ 2.832.495 \$ 1.543.753 \$ 398.974 \$ 1.192.668 \$ 32.009.854 \$ Plant Depreciation Intangible Plant 5 Net Plant (less gen. a \$ Organization - \$ - \$ - \$ - \$ Franchises Net Plant (less gen. a \$ - \$ - \$ - \$ - s - s - s - \$ - \$ - \$ - \$ Net Plant (less gen. a \$ Other P/E-Intangible Source of Supply Land & Land Rights А Source of Supply 331,346 331,346 \$ Structures & Improvements 331,346 A Source of Supply \$ S 5 Collection & Impound Reservoirs A Source of Supply A Source of Supply 12,498 \$ Lake, River, & Other Intakes 12,498 \$ 12,498 Wells & Springs Infiltration Galleries & Tunnels Supply Mains 10,018 A Source of Supply 10,018 \$ 10.018 \$ Source of Supply 87,813 A Source of Supply 87,813 \$ 87,813 \$ - \$ \$ Other P/E-Supply А Source of Supply Water Pumping Pumping Land & Land Rights Pumping В Pumping Structures & Improvement Boiler Plant Equipment Pumping 872,371 872,371 \$ Pumping s Ś s Power Generation Equipment 390,913 B Pumping B Pumping B Pumping 390,913 390,913 Steam Pumping Equipment Electric Pumping Equipment 1,106,403 \$ 1,106,403 \$ 1,106,403 Diesel Pumping Equipment Pump Equip Hydraulic B Pumping B Pumping 37,191 \$ 4,935 \$ \$ s 37,191 \$ 4,935 \$ 4,935 155,209 \$ Other Pumping Equipment 155,209 В Pumping 155,209 \$ Water Treatment Water Treatment Land & land Rights Water Treatment \$ 5 \$ \$ Water Treatment Structures & Impro 2,678,396 Water Treatment Water Treatment 2.678.396 \$ - s - s - \$ - \$ - \$ 2.678.396 \$ 2,978,553 \$ 2,978,553 \$ Water Treatment Equipment 2,978,553 с \$ \$ \$ \$ Ş \$ Water Treatment - Other Water Treatment - s T&D Transmission & Distribution Land Mains К ¢ Transmission & Distribution Structures & Impr 87,933 Mains 8,319 \$ 79,613 \$ 87,933 \$ TD Mains 4in & Less 438.685 E Distribution E Distribution s 438.685 \$ 438.685 \$ Enter 1 to classify the 10- to 16-inch main costs as 14,992,808 4,707,531 TD Mains 6in to 8in 14,992,808 \$ 14,992,808 \$ distribution TD Mains 10in to 16in 4,707,531 \$ D Transmission 4,707,531 \$ 1 3,374,502 \$ TD Mains 18in & Grtr D Transmission \$ \$ S 3,374,502 \$ Other Transmission & Distribution Plant Storage Distribution Reservoirs & Standpipes 298,582 \$ 298,582 F Storage 298,582 \$ - \$ - \$ - s - s - \$ - \$ - s - s Distribution Reservoirs & Standpipes - Tank Coating F Storage s \$ s s . S \$ Meters Meters 3.899.348 G Meters G Meters G Meters - \$ - \$ Ś - \$ - \$ - \$ 3.899.348 \$ 3.899.348 \$ - \$ - \$ Meter Installation 543,000 ė - \$ - \$ 543,000 \$ ŝ - \$ 543,000 \$ Meter Vaults \$ \$ Services 2,639,691 H Services \$ \$ - \$ - \$ - \$ - \$ - \$ 2,639,691 \$ 2,639,691 \$ Services s - \$ Ś s Hydrants Hydrants 1,653,509 1,653,509 \$ 1,653,509 \$ J Hydrants \$ - \$ - \$ - \$ - \$ - s - s \$ - \$ - \$ \$ \$ - s - s \$

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MAWC Class Cost of Service Study Case Nos. WR-2022-0303 | SR-2022-0304

> Schedule JAY-1 Page 6 of 18

General Plant			Source of		Water									
	Post Test Year	Alloc Description	Supply	Pumping	Treatment	Transmission	Distribution	Storage	Meters	Services	Customers	Hydrants	Total	Variance
		-												
General Land & Land Rights	\$ -	3 Fixed O&M	s - s	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	-
Stores Shops Equipment Structures	\$ 543,416	3 Fixed O&M	\$ 18,260 \$	37,100 \$	112,504 \$	12,799 \$	122,484 \$	- \$	65,652 \$	46,584 \$	90,901 \$	37,133 \$	543,416 \$	-
Office Structures	\$ 164,652	3 Fixed O&M	\$ 5,533 \$	11,241 \$	34,088 \$	3,878 \$	37,112 \$	- \$	19,892 \$	14,115 \$	27,542 \$	11,251 \$	164,652 \$	-
General Structures - HVAC	\$ 51,519	3 Fixed O&M	\$ 1,731 \$	3,517 \$	10,666 \$	1,213 \$	11,612 \$	- \$	6,224 \$	4,416 \$	8,618 \$	3,520 \$	51,519 \$	-
Miscellaneous Structures	\$ 53,468	3 Fixed O&M	\$ 1,797 \$	3,650 \$	11,069 \$	1,259 \$	12,051 \$	- \$	6,460 \$	4,584 \$	8,944 \$	3,654 \$	53,468 \$	-
Structures & Improvements - Leasehold	\$ 1,151	3 Fixed O&M	\$ 39 \$	79 \$	238 \$	27 \$	260 \$	- \$	139 \$	99 \$	193 \$	79 \$	1,151 \$	-
Office Furniture and Equipment	\$ 52,540	3 Fixed O&M	\$ 1,765 \$	3,587 \$	10,877 \$	1,237 \$	11,842 \$	- \$	6,347 \$	4,504 \$	8,789 \$	3,590 \$	52,540 \$	-
Computers & Peripheral Equipment	\$ 1,055,026	3 Fixed O&M	\$ 35,451 \$	72,028 \$	218,423 \$	24,849 \$	237,800 \$	- \$	127,461 \$	90,442 \$	176,481 \$	72,092 \$	1,055,026 \$	-
Computer Hardware & Software	\$ 1,053,708	3 Fixed O&M	\$ 35,407 \$	71,938 \$	218,150 \$	24,818 \$	237,503 \$	- \$	127,301 \$	90,329 \$	176,261 \$	72,002 \$	1,053,708 \$	-
Computer Software	\$ 2,414,868	3 Fixed O&M	\$ 81,146 \$	164,866 \$	499,952 \$	56,877 \$	544,304 \$	- \$	291,747 \$	207,014 \$	403,951 \$	165,013 \$	2,414,868 \$	-
Personal Computer Software	s -	3 Fixed O&M	s - s	- 5	- 5	- 5	- s	- s	- s	- \$	- \$	- s	- 5	
Other Office Equipment	\$ 42,566	3 Fixed O&M	\$ 1,430 \$	2,906 \$	8,813 \$	1,003 \$	9,594 \$	- \$	5,143 \$	3,649 \$	7,120 \$	2,909 \$	42,566 \$	-
BTS Initial Investment	\$ 1,616,600	3 Fixed O&M	\$ 54,322 \$	110,367 \$	334,686 \$	38,075 \$	364,377 \$	- \$	195,306 \$	138,582 \$	270,419 \$	110,465 \$	1,616,600 \$	-
Transportation Equipment - Light Trucks	\$ 832,785	3 Fixed O&M	\$ 27,984 \$	56,855 \$	172,412 \$	19,614 \$	187,707 \$	- s	100,611 \$	71,390 \$	139,305 \$	56,906 \$	832,785 \$	
Transportation Equipment - Heavy Trucks	s -		s - s	- s	- 5	- 5	- 5	- s	- 5	- \$	- \$	- \$	- s	
Transportation Equipment - Cars	s -	3 Fixed O&M	s - s	- \$	- \$	- \$	- \$	- s	- 5	- s	- \$	- \$	- s	
Transportation Equipment - Other	\$ 372,031	3 Fixed O&M	5 12,501 \$	25,399 \$	77,022 \$	8,762 \$	83.855 S	- s	44.946 S	31.892 Š	62,232 \$	25,422 \$	372,031 \$	
Stores Equipment	\$ 23,553		\$ 791 \$	1,608 \$	4,876 \$	555 \$	5,309 \$	- s	2,846 \$	2,019 \$	3,940 \$	1,609 \$	23,553 \$	
Tools, Shop, & Garage Equipment	\$ 342,229		\$ 11,500 \$	23,364 \$	70,852 \$	8,060 \$	77,137 \$	- s	41,346 \$	29,337 \$	57,247 \$	23,385 \$	342,229 \$	
Laboratory Equipment	\$ 42,412	C Water Treatment		- \$	42.412 \$	- \$	- \$	- 5	- \$	- \$	- \$	- \$	42,412 \$	
Power Operated Equipment	\$ 31.031		5 1.043 S	2.119 \$	6.424 \$	731 \$	6.994 S		3.749 \$	2.660 \$	5.191 \$	2.120 \$	31.031 \$	
Communication Equipment	\$ -	3 Fixed O&M		- \$	- \$	- \$	- \$	- 5	- 5	- \$	- \$	- \$	- S	
Communication Equipment (non telephone)	\$ 362.427		5 12.178 S	24,743 \$	75.034 \$	8.536 \$	81.690 S	- s	43.786 \$	31.069 Š	60.626 \$	24.765 \$	362.427 \$	
Telephone Equipment	\$ 8.071	3 Fixed O&M	\$ 271 \$	551 \$	1.671 \$	190 \$	1.819 \$		975 \$	692 S	1,350 \$	552 \$	8.071 \$	
Miscellaneous Equipment	\$ 223,588		\$ 7,513 \$	15,265 \$	46,290 \$	5,266 \$	50,396 \$		27,012 \$	19,167 \$	37,401 \$	15,278 \$	223,588 \$	
Other Tangible Property	\$ 2,025	3 Fixed O&M	5 68 5	138 S	419 \$	48 \$	456 \$		245 \$	174 \$	339 \$	138 S	2,025 \$	
Plant Depreciation (STL Water)	\$ 50,590,901		\$ 752,405 \$	3,198,342 \$	7,613,826 \$	3,600,620 \$	22,302,941 \$	298,582 \$	5,559,535 \$	3,432,408 \$	1,546,849 \$	2,285,393 \$	50,590,901 \$	
hard bepreciation (one water)	5 50,550,501		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3,130,341 9	7,013,010 9	3,000,020 9	11,301,341 3	250,502 \$	3,333,333 9	3,432,400 3	1,540,645 \$	2,203,333 9	50,550,501 9	
CIAC-Non Taxable - Mains	\$ (2,085,927)	K Mains	s - s	- \$	- \$	(197,347) \$	(1,888,580) \$	- s	- \$	- \$	- \$	- \$	(2,085,927) \$	
CIAC-Non Taxable - Ext Dep	\$ (712,213)				- 5	(67,382) \$	(644.831) \$	- 5		- 5	- \$	- 5	(712,213) \$	
CIAC-Non Taxable - Services	\$ (267)		s - s	- 3	- 5	- \$	(044,631) 5	- 3	- 3	(267) \$	- 3	- 3	(712,213) \$ (267) \$	
CIAC-Non Taxable - Services	\$ (127.558)			- \$		- >	- 5	- 5	(127.558) \$	(267) \$		- \$	(127,558) \$	-
CIAC-Non Taxable - Hydrants	\$ (97,228)	J Hydrants	s - s	- 3	- 3	- \$	- 2	- 3	- \$	- 3	- \$	(97,228) \$	(127,538) \$	-
CIAC-Non Taxable - Other	\$ (97,228)	K Mains				(5.361) \$	(51.302) \$				- >	(97,228) \$	(56,663) \$	-
CIAC-Non Taxable - WIP	5 (50,003)	K Mains	s - s		- 5	(5,361) \$	(51,302) \$				- >	- \$	(50,003) \$	-
CIAC-Taxable - Mains	\$ (425,813)					(40,286) \$	(0) \$		- 5			- \$	(0) \$ (425,813) \$	-
CIAC-Taxable - Extension Deposits	\$ (34,613)	K Mains				(40,286) \$	(385,527) \$ (31,338) \$					- \$	(425,813) \$ (34,613) \$	-
CIAC-Taxable - Services	\$ (356,312)	H Services	s - s	- \$	- \$	- \$	(31,336) \$	- 5	- 3	(356,312) \$	- \$	- \$	(356,312) \$	
CIAC-Taxable - Services	\$ (356,312) \$ (14,672)		s - s	- >	- 5	- >	- 5	- >		(356,312) \$				
CIAC-Taxable - Hydrants	\$ (14,672)		s - s	÷ ,					(14,672) \$		- \$	- \$ 47 \$	(14,672) \$ 47 \$	-
CIAC-Taxable - Other				- \$				*						-
CIAC-Taxable - Other CIAC-Taxable - WIP	\$ (1,164)	K Mains K Mains	s - s			(110) \$	(1,054) \$	- \$			- \$	- \$	(1,164) \$	-
CIAC-Taxable - WIP CIAC-Taxable - Services SIT	\$ (0)		s - s s - s	- \$	- \$	(0) \$	(0) \$	- \$	- \$	- \$	- \$	- \$	(0) \$	-
	s -	K Mains												
			· ·	Ŧ	- \$	- \$	- \$	- \$	- \$		Ŧ		- \$	
Amortization of CIAC (STL Water)	\$ (3,912,382)		s - s s - s	- \$	- \$	(313,760) \$	(3,002,633) \$	- \$	(142,230) \$	(356,579) \$	- \$	(97,181) \$	- \$ (3,912,382) \$	-
Amortization of CIAC (STL Water)	+ (-,)		s - s	- \$		(313,760) \$	(3,002,633) \$	- \$	(142,230) \$		- \$	(97,181) \$	(3,912,382) \$	
	\$ (3,912,382) \$ 46,678,518		s - s	Ŧ	- 5 - 5 7,613,826 \$			*		(356,579) \$ 3,075,830 \$	Ŧ			
Amortization of CIAC (STL Water)	+ (-,)		s - s	- \$		(313,760) \$	(3,002,633) \$	- \$	(142,230) \$		- \$	(97,181) \$	(3,912,382) \$	
Amortization of CIAC (STL Water) Total Depreciation Expense (STL Water)	\$ 46,678,518		\$ - \$ \$ 752,405 \$	- \$ 3,198,342 \$	7,613,826 \$	(313,760) \$ 3,286,861 \$	(3,002,633) \$ 19,300,308 \$	- \$	(142,230) \$ 5,417,305 \$	3,075,830 \$	- S	(97,181) \$ 2,188,212 \$	(3,912,382) \$ 46,678,518 \$	
Amortization of CIAC (STL Water)	+ (-,)		s - s	- \$		(313,760) \$	(3,002,633) \$	- \$	(142,230) \$		- \$	(97,181) \$	(3,912,382) \$	
Amortization of CIAC (STL Water) Total Depreciation Expense (STL Water) Eureka Depreciation	\$ 46,678,518 \$ 425,107	3 Fixed O&M	\$ - \$ \$ 752,405 \$ \$ 14,285 \$	- \$ 3,198,342 \$ 29,022 \$	7,613,826 \$ 88,010 \$	(313,760) \$ 3,286,861 \$ 10,012 \$	(3,002,633) \$ 19,300,308 \$ 95,818 \$	- S 298,582 \$ - S	(142,230) \$ 5,417,305 \$ 51,358 \$	3,075,830 \$ 36,442 \$	- \$ 1,546,849 \$ 71,110 \$	(97,181) \$ 2,188,212 \$ 29,048 \$	(3,912,382) \$ 46,678,518 \$ 425,107 \$	
Amortization of CIAC (STL Water) Total Depreciation Expense (STL Water)	\$ 46,678,518		\$ - \$ \$ 752,405 \$ \$ 14,285 \$	- \$ 3,198,342 \$	7,613,826 \$	(313,760) \$ 3,286,861 \$	(3,002,633) \$ 19,300,308 \$	- \$	(142,230) \$ 5,417,305 \$	3,075,830 \$	- S	(97,181) \$ 2,188,212 \$	(3,912,382) \$ 46,678,518 \$	
Amortization of CIAC (STL Water) Total Depreciation Expense (STL Water) Euroka Depreciation Total Depreciation Expense	\$ 46,678,518 \$ 425,107	3 Fixed O&M	\$ - \$ \$ 752,405 \$ \$ 14,285 \$	- \$ 3,198,342 \$ 29,022 \$	7,613,826 \$ 88,010 \$	(313,760) \$ 3,286,861 \$ 10,012 \$	(3,002,633) \$ 19,300,308 \$ 95,818 \$	- S 298,582 \$ - S	(142,230) \$ 5,417,305 \$ 51,358 \$	3,075,830 \$ 36,442 \$	- \$ 1,546,849 \$ 71,110 \$	(97,181) \$ 2,188,212 \$ 29,048 \$	(3,912,382) \$ 46,678,518 \$ 425,107 \$	
Amortization of CAC (STL Water) Total Depreciation Expense (STL Water) Eureka Depreciation	\$ 46,678,518 \$ 425,107	3 Fixed O&M	\$ - \$ \$ 752,405 \$ \$ 14,285 \$	- \$ 3,198,342 \$ 29,022 \$	7,613,826 \$ 88,010 \$	(313,760) \$ 3,286,861 \$ 10,012 \$	(3,002,633) \$ 19,300,308 \$ 95,818 \$	- S 298,582 \$ - S	(142,230) \$ 5,417,305 \$ 51,358 \$	3,075,830 \$ 36,442 \$	- \$ 1,546,849 \$ 71,110 \$	(97,181) \$ 2,188,212 \$ 29,048 \$	(3,912,382) \$ 46,678,518 \$ 425,107 \$	
Amortization of CIAC (STL Water) Total Depreciation Expense (STL Water) Eureka Depreciation Total Depreciation Expense Amortization Expense	\$ 46,678,518 \$ 425,107 \$ 47,103,625	3 Fixed O&M	5 - 5 5 752,405 \$ 5 14,285 \$ 5 766,689 \$	- \$ 3,198,342 \$ 29,022 \$ 3,227,364 \$	7,613,826 \$ 88,010 \$ 7,701,836 \$	(313,760) \$ 3,286,861 \$ 10,012 \$ 3,296,873 \$	(3,002,633) \$ 19,300,308 \$ 95,818 \$ 19,396,126 \$	- \$ 298,582 \$ - \$ 298,582 \$	(142,230) \$ 5,417,305 \$ 51,358 \$ 5,468,663 \$	3,075,830 \$ 36,442 \$ 3,112,272 \$	- \$ 1,546,849 \$ 71,110 \$ 1,617,959 \$	(97,181) \$ 2,188,212 \$ 29,048 \$ 2,217,260 \$	(3,912,382) \$ 46,678,518 \$ 425,107 \$ 47,103,625 \$	
Amortization of CIAC (STL Water) Total Depreciation Expense (STL Water) Euroka Depreciation Total Depreciation Amortization Expense Lead Service Replacement	\$ 46,678,518 \$ 425,107 \$ 47,103,625 \$ 3,552,822	3 Fixed O&M	5 - 5 5 752,405 \$ 5 14,285 \$ 5 766,689 \$	- \$ 3,198,342 \$ 29,022 \$ 3,227,364 \$ - \$	7,613,826 \$ 88,010 \$ 7,701,836 \$	(313,760) \$ 3,286,861 \$ 10,012 \$ 3,296,873 \$	(3,002,633) \$ 19,300,308 \$ 95,818 \$ 19,396,126 \$ - \$	- \$ 298,582 \$ - \$ 298,582 \$	(142,230) \$ 5,417,305 \$ 51,358 \$ 5,468,663 \$ - \$	3,075,830 \$ 36,442 \$ 3,112,272 \$ 3,552,823 \$	- \$ 1,546,849 \$ 71,110 \$ 1,617,959 \$	(97,181) \$ 2,188,212 \$ 29,048 \$ 2,217,260 \$	(3,912,382) \$ 46,678,518 \$ 425,107 \$ 47,103,625 \$ 3,552,823 \$	-
Amortization of CIAC (STL Water) Total Depreciation Expense (STL Water) Eureka Depreciation Total Depreciation Expense Amortization Expense Lead Service Replacement Amortization - Reg Asset AFUDC	\$ 46,678,518 \$ 425,107 \$ 47,103,625 \$ 47,103,625 \$ 3,552,823 \$ 1,135,922	3 Fixed D&M H Services 6 Rate Base	5 - 5 5 752,405 5 5 14,285 5 5 766,689 5 5 - 5 5 12,689 5	- \$ 3,198,342 \$ 29,022 \$ 3,227,364 \$ - \$ 47,425 \$	7,613,826 \$ 88,010 \$ 7,701,836 \$ \$ 132,167 \$	(313,760) \$ 3,286,861 \$ 10,012 \$ 3,296,873 \$ - \$ 110,410 \$	(3,002,633) \$ 19,300,308 \$ 95,818 \$ 19,396,126 \$ - \$ 610,764 \$	- \$ 298,582 \$ - \$ 298,582 \$ - \$ 5,582 \$	(142,230) \$ 5,417,305 \$ 51,358 \$ 5,468,663 \$ - \$ 105,634 \$	3,075,830 \$ 36,442 \$ 3,112,272 \$ 3,552,823 \$ 54,218 \$	- \$ 1,546,849 \$ 71,110 \$ 1,617,959 \$ - \$ 12,824 \$	(97,181) \$ 2,188,212 \$ 29,048 \$ 2,217,260 \$ 44,388 \$	(3,912,382) \$ 46,678,518 \$ 425,107 \$ 47,103,625 \$ 3,552,823 \$ 1,135,922 \$	-
Amortization of CIAC (STL Water) Total Depreciation Expense (STL Water) Eureka Depreciation Total Depreciation Total Depreciation Expense Amortization Expense Lead Service Replacement Amortization - Rep. Assex ATUDC Amortization - Rep. Assex	\$ 46,678,518 \$ 425,107 \$ 47,103,625 \$ 3,552,822	3 Fixed O&M H Services 6 Rate Base	5 - 5 \$ 752,405 \$ 5 14,285 \$ \$ 766,689 \$ 5 - \$ 5 - \$ 5 - \$ 5 - \$ 5 12,689 \$ 5 5,108 \$	- \$ 3,198,342 \$ 29,022 \$ 3,227,364 \$ - \$ 47,425 \$ 19,089 \$	7,613,826 \$ 88,010 \$ 7,701,836 \$ 132,167 \$ 53,198 \$	(313,760) \$ 3,286,861 \$ 10,012 \$ 3,296,873 \$ 110,410 \$ 44,441 \$	(3,002,633) \$ 19,300,308 \$ 95,818 \$ 19,396,126 \$ 610,764 \$ 245,837 \$	- \$ 298,582 \$ - \$ 298,582 \$ \$ 5,405 \$ 2,176 \$	(142,230) \$ 5,417,305 \$ 51,358 \$ 5,468,663 \$ - \$ 105,634 \$ 42,518 \$	3,075,830 \$ 36,442 \$ 3,112,272 \$ 3,552,823 \$ 54,218 \$ 21,823 \$	- \$ 1,546,849 \$ 71,110 \$ 1,617,959 \$ - \$ 12,824 \$ 5,162 \$	(97,181) \$ 2,188,212 \$ 29,048 \$ 2,217,260 \$ 44,388 \$ 17,866 \$	(3,912,382) \$ 46,678,518 \$ 425,107 \$ 47,103,625 \$ 3,552,823 \$ 1,135,922 \$ 457,217 \$	-
Amortization of CIAC (STL Water) Total Depreciation Expense (STL Water) Eureka Depreciation Total Depreciation Expense Amortization Expense Lead Service Replacement Amortization - Reg Asset AFUDC Amortization - Roperty Losses Amortization - Reg Asset	\$ 46,678,518 \$ 46,678,518 \$ 47,103,625 \$ 47,103,625 \$ 1,555,223 \$ 1,155,622 \$ 457,217 \$ 457,217	3 Fixed O&M M Services 6 Rate Base 6 Rate Base 6 Rate Base	5 - 5 5 752,405 \$ 5 14,285 \$ 5 766,689 \$ 5 - 5 5 12,689 \$ 5 5 - 5 5 - 5 6 - 5 5 - 5 6 - 5 6 - 5 7 - 7 7 - 7	- \$ 3,198,342 \$ 29,022 \$ 3,227,364 \$ 47,425 \$ 19,089 \$ - \$	- , 613,826 \$ 88,010 \$ 7,701,836 \$ 132,167 \$ 53,198 \$ - \$ 5,3,198 \$ - \$	(313,760) \$ 3,286,861 \$ 10,012 \$ 3,296,873 \$ 10,0410 \$ 10,410 \$ 44,441 \$. \$	(3,002,633) \$ 19,300,308 \$ 95,818 \$ 19,396,126 \$ 610,764 \$ 245,837 \$ 5 \$	- \$ 298,582 \$ - \$ 298,582 \$ - \$ 5,405 \$ 2,276 \$ 2,276 \$ - \$	(142,230) 5 5,417,305 \$ 51,358 \$ 5,468,663 \$ 105,634 \$ 42,518 \$ - \$	3,075,830 \$ 36,442 \$ 3,112,272 \$ 3,552,823 \$ 54,218 \$ 21,823 \$ 21,823 \$	- 5 1,546,849 \$ 71,110 \$ 1,617,959 \$ 12,824 \$ 5,162 \$ 5,162 \$ - \$	(97,181) 5 2,188,212 5 29,048 5 2,217,260 5 - 5 44,388 5 17,866 5 - 5	(3,912,382) \$ 46,678,518 \$ 425,107 \$ 47,103,625 \$ 3,552,823 \$ 1,135,922 \$ 457,217 \$ - \$	-
Amortization of CIAC (STL Water) Total Depreciation Expense (STL Water) Eureka Depreciation Total Depreciation Total Depreciation Amortization Expense Lead Service Replacement Amortization = Rep Asset ATUDC Amortization = Rep Asset Hollister Pepeine	\$ 46,678,518 \$ 46,678,518 \$ 47,103,625 \$ 47,103,625 \$ 1,35,522,823 \$ 1,35,522 \$ 4,572,177 \$ - \$ 6,6001	3 Fixed O&M H Services 6 Rate Base 6 Rate Base 6 Rate Base 6 Rate Base	5 - \$ 5 752,405 \$ 5 14,285 \$ 5 14,285 \$ 5 766,689 \$ 5 - \$ 5 - \$ 5 5,108 \$ 5 - \$ 5 - \$ 5 76 \$	- \$ 3,198,342 \$ 29,022 \$ 3,227,364 \$ - \$ 47,425 \$ 19,089 \$ - \$ 284 \$	7,613,826 \$ 88,010 \$ 7,701,836 \$ 132,167 \$ 53,198 \$ - \$ 53,198 \$ - \$ 53,198 \$	(313,760) 5 3,286,861 \$ 10,012 \$ 3,296,873 \$ 10,410 \$ 10,44,441 \$ - \$ 661 \$	(3,002,633) \$ 19,300,308 \$ 95,818 \$ 19,396,126 \$ 19,396,126 \$ 6,10,764 \$ 245,837 \$. \$ 3,657 \$ 3,657 \$	- \$ 298,582 \$ - \$ 298,582 \$ \$ 5,405 \$ 2,176 \$ - \$ 32 \$	(142,230) 5 5,417,305 \$ 51,358 \$ 5,468,663 \$ 105,634 \$ 42,518 \$ - \$ 632 \$	3,075,830 \$ 36,442 \$ 3,112,272 \$ 3,552,823 \$ 54,218 \$ 21,823 \$ - \$ 325 \$	- \$ 1,546,849 \$ 71,110 \$ 1,617,959 \$ 1,2,824 \$ 5,162 \$ - \$ 7,7 \$	(97,181) 5 2,188,212 5 29,048 5 2,217,260 5 4,388 5 17,866 5 - 5 266 5	(3,912,382) \$ 46,678,518 \$ 425,107 \$ 47,103,625 \$ 3,552,823 \$ 1,135,922 \$ 457,217 \$ - \$ 6,801 \$	-
Amortization of CLAC (STL Water) Total Depreciation Expense (STL Water) Euroka Depreciation Total Depreciation Expense Amortization Expense Lead Service Replacement Amortization - Reg Asset AFUICC Amortization - Reg Asset Hollister Pipeline Low Monore Costs	5 46,678,518 5 46,678,518 5 425,107 5 47,103,625 5 1,135,922 5 437,217 5 6,801 5 6,801 5 6,801 5 7,596	3 Fixed D&M H Services 6 Rate Base 6 Rate Base 6 Rate Base 6 Rate Base 6 Rate Base 6 Rate Base	5 - 5 5 752,405 \$ 5 14,285 \$ 5 766,689 \$ 5 - 5 5 12,689 \$ 5 12,689 \$ 5 12,689 \$ 5 - 5 5 5 2,108 \$ 5 - 5 5 5 5 85 \$ 5 95 \$	- \$ 3,198,342 \$ 29,022 \$ 3,227,364 \$ - \$ 47,425 \$ 19,085 \$ - \$ 284 \$ 317 \$	7,613,826 \$ 88,010 \$ 7,701,836 \$. \$ 132,167 \$ 53,198 \$. \$ 791 \$ 8884 \$	(313,760) \$ 3,286,861 \$ 10,012 \$ 3,296,873 \$ 10,010 \$ 10,010 \$ 10,010 \$ 4,441 \$ - \$ 661 \$ 738 \$	(3,002,633) \$ 19,300,308 \$ 95,818 \$ 19,396,126 \$ 19,396,126 \$ 6,10,764 \$ 2,587 \$ 3,587 \$ 3,587 \$ 4,084 \$	- \$ 298,582 \$ - \$ 298,582 \$ 298,582 \$ 2,98,582 \$ 2,176 \$ 2,176 \$ 2,176 \$ 3,176 \$ 3,2 \$ 3,6 \$	(142,230) 5 5,417,305 5 5,468,663 5 5,468,663 5 105,634 5 42,518 5 - 5 632 5 706 5	3,075,830 \$ 36,442 \$ 3,112,272 \$ 3,552,823 \$ 5,4,218 \$ 21,823 \$ 21,823 \$ 21,823 \$ 21,823 \$ 23,823 \$ 23,823 \$ 23,823 \$ 23,823 \$ 23,823 \$ 24,823 \$ 24,825 \$ 25,825 \$ 25	- \$ 1,546,849 \$ 71,110 \$ 1,617,959 \$ 1,2824 \$ 5,162 \$ 7,7 \$ 86 \$	(97,181) 5 2,188,212 \$ 29,048 \$ 2,217,260 \$ 4,4,388 \$ 17,868 \$ - \$ 4,4,388 \$ 17,868 \$ - \$ 2,65 \$ 297 \$	(3,912,382) \$ 46,678,518 \$ 425,107 \$ 47,103,625 \$ 3,552,823 \$ 1,135,922 \$ 47,217 \$ 6,801 \$ 7,566 \$ 7,566 \$	-
Amortization of CAC (STL Water) Total Depreciation Expense (STL Water) Eureka Depreciation Total Depreciation Total Depreciation Expense Amortization Expense Lead Service Replacement Amortization = Rep Asst A FUDC Amortization = Rep Asst Hubic	\$ 46,678,518 \$ 46,678,518 \$ 47,103,625 \$ 47,103,625 \$ 1,35,522,823 \$ 1,35,522 \$ 4,572,177 \$ - \$ 6,6001	3 Fixed D&M H Services 6 Rate Base 6 Rate Base 6 Rate Base 6 Rate Base 6 Rate Base 6 Rate Base	5 - \$ 5 752,405 \$ 5 14,285 \$ 5 14,285 \$ 5 766,689 \$ 5 - \$ 5 - \$ 5 5,108 \$ 5 - \$ 5 - \$ 5 76 \$	- \$ 3,198,342 \$ 29,022 \$ 3,227,364 \$ - \$ 47,425 \$ 19,089 \$ - \$ 284 \$	7,613,826 \$ 88,010 \$ 7,701,836 \$ 132,167 \$ 53,198 \$ - \$ 53,198 \$ - \$ 53,198 \$	(313,760) \$ 3,286,861 \$ 10,012 \$ 3,296,873 \$ 10,410 \$ 10,44,441 \$ - \$ 661 \$	(3,002,633) \$ 19,300,308 \$ 95,818 \$ 19,396,126 \$ 19,396,126 \$ 6,10,764 \$ 245,837 \$. \$ 3,657 \$ 3,657 \$	- \$ 298,582 \$ - \$ 298,582 \$ \$ 5,405 \$ 2,176 \$ - \$ 32 \$	(142,230) 5 5,417,305 \$ 51,358 \$ 5,468,663 \$ 105,634 \$ 42,518 \$ - \$ 632 \$	3,075,830 \$ 36,442 \$ 3,112,272 \$ 3,552,823 \$ 54,218 \$ 21,823 \$ - \$ 325 \$	- \$ 1,546,849 \$ 71,110 \$ 1,617,959 \$ 1,2,824 \$ 5,162 \$ - \$ 7,7 \$	(97,181) 5 2,188,212 5 29,048 5 2,217,260 5 4,388 5 17,866 5 - 5 266 5	(3,912,382) \$ 46,678,518 \$ 425,107 \$ 47,103,625 \$ 3,552,823 \$ 1,135,922 \$ 457,217 \$ - \$ 6,801 \$	-
Amortization of CIAC (STL Water) Total Depreciation Expense (STL Water) Euroka Depreciation Total Depreciation Expense Amortization Expense Lead Service Replacement Amortization - Reg Asset AFUIC Amotization - Reg Asset Hollister Pipeline Low Neuron Cots	5 46,678,518 5 46,678,518 5 425,107 5 47,103,625 5 1,135,922 5 437,217 5 6,801 5 6,801 5 6,801 5 7,596	3 Fixed O&M M Services 6 Rate Base 6 Rate Base 6 Rate Base 6 Rate Base 6 Rate Base	5 - 5 5 752,405 \$ 5 14,285 \$ 5 766,689 \$ 5 - 5 5 12,689 \$ 5 12,689 \$ 5 12,689 \$ 5 - 5 5 5 2,108 \$ 5 - 5 5 5 5 85 \$ 5 95 \$	- \$ 3,198,342 \$ 29,022 \$ 3,227,364 \$ - \$ 47,425 \$ 19,085 \$ - \$ 284 \$ 317 \$	7,613,826 \$ 88,010 \$ 7,701,836 \$. \$ 132,167 \$ 53,198 \$. \$ 791 \$ 8884 \$	(313,760) \$ 3,286,861 \$ 10,012 \$ 3,296,873 \$ 10,010 \$ 10,010 \$ 10,010 \$ 4,441 \$ - \$ 661 \$ 738 \$	(3,002,633) \$ 19,300,308 \$ 95,818 \$ 19,396,126 \$ 19,396,126 \$ 6,10,764 \$ 2,65,837 \$ 3,657 \$ 3,657 \$ 4,084 \$	- \$ 298,582 \$ - \$ 298,582 \$ 298,582 \$ 2,98,582 \$ 2,176 \$ 2,176 \$ 2,176 \$ 3,176 \$ 3,2 \$ 3,6 \$	(142,230) 5 5,417,305 5 5,468,663 5 5,468,663 5 105,634 5 42,518 5 - 5 632 5 706 5	3,075,830 \$ 36,442 \$ 3,112,272 \$ 3,552,823 \$ 5,4,218 \$ 21,823 \$ 21,823 \$ 21,823 \$ 21,823 \$ 23,823 \$ 23,823 \$ 23,823 \$ 23,823 \$ 23,823 \$ 24,823 \$ 24,825 \$ 25,825 \$ 25	- \$ 1,546,849 \$ 71,110 \$ 1,617,959 \$ 1,2824 \$ 5,162 \$ 7,7 \$ 86 \$	(97,181) 5 2,188,212 \$ 29,048 \$ 2,217,260 \$ 4,4,388 \$ 17,868 \$ - \$ 4,4,388 \$ 17,868 \$ - \$ 2,65 \$ 297 \$	(3,912,382) \$ 46,678,518 \$ 425,107 \$ 47,103,625 \$ 3,552,823 \$ 1,135,922 \$ 47,217 \$ 6,801 \$ 7,566 \$ 7,566 \$	-

MAWC Class Cost of Service Study Case Nos. WR-2022-0303 | SR-2022-0304

> Schedule JAY-1 Page 7 of 18

Case No: WR-2022-0303. SR-2022-0304					Source of		Water									
	P	ost Test Year	Alloc Description		Supply	Pumping	Treatment	Transmission	Distribution	Storage	Meters	Services	Customers	Hydrants	Total	Variance
Income Taxes																
Federal Income Tax	\$	7,016,645	6 Rate Base	\$	78,383 \$	292,947 \$	816,400 \$	682,006 \$	3,772,716 \$	33,388 \$	652,504 \$	334,904 \$	79,213 \$	274,184 \$	7,016,645	5.
State Income Tax	\$	1,217,427	6 Rate Base	\$	13,600 \$	50,828 \$	141,650 \$	118,332 \$	654,587 \$	5,793 \$	113,213 \$	58,108 \$	13,744 \$	47,572 \$	1,217,427	
Deferred Income Taxes	\$	9,065,741	6 Rate Base	\$	101,273 \$	378,497 \$	1,054,816 \$	881,175 \$	4,874,476 \$	43,139 \$	843,057 \$	432,708 \$	102,346 \$	354,255 \$	9,065,741	
ITC Restored	\$	(74,894)	6 Rate Base	\$	(837) \$	(3,127) \$	(8,714) \$	(7,280) \$	(40,269) \$	(356) \$	(6,965) \$	(3,575) \$	(846) \$	(2,927) \$	(74,894) \$	، ¢
Total Income Taxes (STL Water)	\$	17,224,919		\$	192,419 \$	719,144 \$	2,004,152 \$	1,674,234 \$	9,261,510 \$	81,964 \$	1,601,809 \$	822,145 \$	194,457 \$	673,085 \$	17,224,919	
Total Income Tax Expense	\$	17,224,919		\$	192,419 \$	719,144 \$	2,004,152 \$	1,674,234 \$	9,261,510 \$	81,964 \$	1,601,809 \$	822,145 \$	194,457 \$	673,085 \$	17,224,919	
Required Net Operating Income (STL Water)	\$	127,060,772	6 Rate Base	\$	1,419,395 \$	5,304,817 \$	14,783,759 \$	12,350,097 \$	68,318,152 \$	604,609 \$	11,815,848 \$	6,064,609 \$	1,434,427 \$	4,965,060 \$	127,060,772	\$
Required Net Operating Income	\$	127,060,772		\$	1,419,395 \$	5,304,817 \$	14,783,759 \$	12,350,097 \$	68,318,152 \$	604,609 \$	11,815,848 \$	6,064,609 \$	1,434,427 \$	4,965,060 \$	127,060,772	j.
Total Revenue Requirement (STL Water)	\$	335,162,787		\$	9,770,556 \$	20,613,518 \$	61,182,418 \$	22,573,557 \$	136,453,337 \$	1,115,928 \$	33,013,458 \$	21,675,289 \$	14,460,913 \$	14,303,811 \$	335,162,787	\$
Other Operating Revenue (STL Water)	\$	(3,588,819)	6 Rate Base	\$	(40,091) \$	(149,834) \$	(417,566) \$	(348,827) \$	(1,929,639) \$	(17,077) \$	(333,737) \$	(171,294) \$	(40,515) \$	(140,238) \$	(3,588,819)	ŝ
Total Retail Revenue Requirement (STL Water)	6	331,573,969	-	ć	9,730,466 \$	20,463,684 \$	60,764,852 \$	22,224,730 \$	134,523,698 \$	1,098,851 \$	32,679,721 \$	21,503,995 \$	14,420,398 \$	14,163,574 \$	331,573,969	4

Total Revenue Requirement (STL Water) \$ 335,162,790 check \$ 3

> MAWC Class Cost of Service Study Case Nos. WR-2022-0303 | SR-2022-0304

> > Schedule JAY-1 Page 8 of 18

			Source of		Water										
	Post Test Year	Alloc Description	Supply	Pumping	Treatment	Transmission	Distribution	Storage	Meters	Services	Customers	Hydrants	Total	Variance	
nt Account															
Intangible Plant															
Organization	\$ 154,919	5 Net Plant (less gen. a \$	1,511 \$	5,672 \$	15,799 \$	14,739 \$	88,903 \$	632 \$	13,008 \$	7,393 \$	1,588 \$	5,674 \$	154,919		
Franchises	3 134,919	5 Net Plant (less gen. a \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$				
	5 -														
Other P/E-Intangible	\$ 942,662	5 Net Plant (less gen. a \$	9,195 \$	34,512 \$	96,137 \$	89,686 \$	540,960 \$	3,847 \$	79,151 \$	44,987 \$	9,665 \$	34,523 \$	942,662	ş -	
Source of Supply															
Land & Land Rights	\$ 1,507,036	A Source of Supply \$	1,507,036 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	1,507,036	ş -	
Structures & Improvements	\$ 13,666,910	A Source of Supply \$	13,666,910 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	13,666,910	s -	
Collection & Impound Reservoirs	s -	A Source of Supply \$	- \$	- 5	- s	- 5	- s	- s	- s	- s	- s	- s		s -	
Lake, River, & Other Intakes	\$ 266.443	A Source of Supply \$	266.443 S	- s	- s	- 5	- 5	- s	- s	- 5	- \$	- s	266.443		
Wells & Springs	\$ 393.847	A Source of Supply S	393.847 \$	- s	- s	- s	- s	- s	- s	- \$	- s	- s	393,847	s -	
Infiltration Galleries & Tunnels	\$.	A Source of Supply \$	- \$	- 5	- s	- 5		- s	- s	- 5	- \$				
Supply Mains	\$ 1,556,863	A Source of Supply \$	1,556,863 \$	- s	- s	- 5	- 5	- \$	- \$	- 5	- \$	- s	1,556,863		
Other P/E-Supply	\$.	A Source of Supply \$	- 5	- s	- s	- s	- 5	- s	- \$	- \$	- \$		-,,		
Water Pumping															
Pumping Land & Land Rights	\$ 284,360	B Pumping \$	- \$	284,360 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$		284,360		
Pumping Structures & Improvements	\$ 15,454,184	B Pumping \$	- \$	15,454,184 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$		15,454,184		
Boiler Plant Equipment	\$ -	B Pumping \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$		-		
Power Generation Equipment	\$ 10,984,740	B Pumping \$	- \$	10,984,740 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$		10,984,740		
Steam Pumping Equipment	\$ -	B Pumping \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$			
Electric Pumping Equipment	\$ 37,356,593	B Pumping \$	- \$	37,356,593 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	37,356,593	\$-	
Diesel Pumping Equipment	\$ 135,173	B Pumping \$	- \$	135,173 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	135,173	ş -	
Pump Equip Hydraulic	\$ 209,898	B Pumping \$	- \$	209,898 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	209,898	ş -	
Other Pumping Equipment	\$ 8,860,976	B Pumping \$	- \$	8,860,976 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	8,860,976	ş -	
Water Treatment Water Treatment Land & land Rights	\$ 1.902.246	C Water Treatment S	- 5		1.902.246 \$	- s		- s	- \$			\$ - S	1.902.246		
				+			+				+				
Water Treatment Structures & Improvements	\$ 82,460,631	C Water Treatment \$	- \$	- \$	82,460,631 \$	- \$	- \$	- \$	- \$	- \$	- \$		82,460,631		
Water Treatment Equipment	\$ 116,700,451	C Water Treatment \$	- \$	- \$	116,700,451 \$	- \$	- \$	- \$	- \$	- \$	- \$		116,700,451		
Water Treatment - Other	\$ -	C Water Treatment \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	-		
T&D												\$	-		
Transmission & Distribution Land	\$ 4.091.405	K Mains Š		- s	- \$	387,083 \$	3,704,322 \$	- s	- <				4,091,405		
Transmission & Distribution Structures & Impr	\$ 1.639.748	K Mains \$		- 5	- 5	155,135 \$	1.484.614 \$	- 5	- 5			- 5	1,639,748		
TD Mains 4in & Less	\$ 27,458,101	E Distribution \$	- \$	- 3	- 3	- \$	27,458,101 \$	- 3	- \$	- 5	- 3		27,458,101		Enter 1 to classify the 10- to 16-inch main
TD Mains 6in to 8in	\$ 938,427,343	E Distribution \$		- 3	- 3	- \$	938,427,343 \$	- 3	- 3				938,427,343		Enter 1 to classify the 10- to 16-inch main distribution.
	\$ 938,427,343		+							+		· •			distribution.
TD Mains 10in to 16in		D Transmission \$	- \$	- \$		- \$		- \$	- \$	- \$,		294,652,995		1
TD Mains 18in & Grtr	\$ 211,216,271	D Transmission \$	- \$	- \$	- \$	211,216,271 \$	- \$	- \$	- \$	- \$	- \$		211,216,271		
Other Transmission & Distribution Plant	\$ -	K Mains \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$			
												\$			
Storage												\$			
Distribution Reservoirs & Standpipes	\$ 9,223,269	F Storage \$	- \$	- \$	- \$	- \$	- \$	9,223,269 \$	- \$	- \$	- \$		9,223,269	\$ -	
Distribution Reservoirs & Standpipes - Tank Coating	\$ -	F Storage \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$		s -	
Meters															
Meters Meters	\$ 160,730,168	G Meters \$	- s	- \$	- \$	- \$		- s	160,730,168 \$				- 160,730,168		
	\$ 12,300,266			- \$	- 5	- >	- \$	- \$	12,300,266 \$	- 5	- 5		12,300,266		
Meter Installation Meter Vaults		G Meters \$ G Meters \$	- 5	- 5		- 5	- 5	- 5	12,300,266 \$	- \$	- \$		12,300,266		
weter Vaults	\$ -	G Meters \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$; - \$ \$	-		
Services												ş		s -	
Services	\$ 95,981,453	H Services \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	95,981,453 \$	- \$	- s	95,981,453	s -	
Hydrants												s	-	۰.	
Hydrants Hydrants	\$ 73,302,495	J Hydrants \$	- \$	- \$	- \$	- \$		- s	- \$	- \$			73,302,495		
Fire Mains		J Mains S	- s	- 5	- 5	- 5	- s	- s	- s	- s				¢ .	

MAWC Class Cost of Service Study Case Nos. WR-2022-0303 | SR-2022-0304

> Schedule JAY-1 Page 9 of 18

No: WR-2022-0303, SR-2022-0304			Source of		Water									
	Post Test Year	Alloc Description	Supply	Pumping	Treatment	Transmission	Distribution	Storage	Meters	Services	Customers	Hydrants	Total	Varia
General Plant														
General Land & Land Rights	\$ 1,749		\$ 59 \$	119 \$	362 \$	41 \$	394 \$	- \$	211 \$	150 \$	293 \$		1,749	
Stores Shops Equipment Structures	\$ 17,150,508	3 Fixed O&M		1,170,883 \$	3,550,682 \$	403,943 \$	3,865,672 \$	- \$	2,072,000 \$	1,470,221 \$			17,150,508	
Office Structures	\$ 6,948,889	3 Fixed O&M		474,408 \$	1,438,633 \$	163,666 \$	1,566,258 \$	- \$	839,515 \$	595,691 \$	1,162,386 \$	474,832 \$	6,948,889	
General Structures - HVAC	\$ 1,280,856	3 Fixed O&M	\$ 43,040 \$	87,445 \$	265,177 \$	30,168 \$	288,701 \$	- \$	154,744 \$	109,801 \$	214,257 \$	87,523 \$	1,280,856	
Miscellaneous Structures	\$ 568,109	3 Fixed O&M	\$ 19,090 \$	38,785 \$	117,616 \$	13,381 \$	128,050 \$	- \$	68,635 \$	48,701 \$	95,031 \$	38,820 \$	568,109	s
Structures & Improvements - Leasehold	\$ (139.053)	3 Fixed O&M	\$ (4.673) \$	(9.493) \$	(28,788) \$	(3.275) \$	(31.342) \$	- s	(16,799) \$	(11,920) \$	(23,260) \$	(9.502) \$	(139.053)	
Office Furniture and Equipment	\$ 1,032,745	3 Fixed O&M		70,507 \$	213,810 \$	24,324 \$	232,778 \$	- š	124,769 \$	88,532 \$			1,032,745	
Computers & Peripheral Equipment	\$ 3,709,769	3 Fixed O&M		253,270 \$	768,036 \$	87,376 \$	836,171 \$	- 5	448,187 \$	318,019 \$			3,709,769	
Computer Hardware & Software	\$ 149,162			10,183 \$	30,881 \$	3,513 \$	33,621 \$	- \$	18,021 \$	12,787 \$			149,162	
Computer Software	\$ 37,629,653	3 Fixed O&M		2,569,015 \$	7,790,494 \$	886,285 \$	8,481,609 \$	- \$	4,546,143 \$	3,225,789 \$			37,629,653	ş
Personal Computer Software	\$ -	3 Fixed O&M		- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$		\$
Other Office Equipment	\$ 461,170	3 Fixed O&M	\$ 15,496 \$	31,485 \$	95,476 \$	10,862 \$	103,946 \$	- \$	55,715 \$	39,534 \$	77,143 \$	31,513 \$	461,170	\$
BTS Initial Investment	\$ 16,521,372	3 Fixed O&M	\$ 555,159 \$	1,127,931 \$	3,420,431 \$	389,125 \$	3,723,867 \$	- \$	1,995,993 \$	1,416,289 \$	2,763,638 \$	1,128,938 \$	16,521,372	s
Transportation Equipment - Light Trucks	\$ 12,157,338	3 Fixed O&M	\$ 408.517 \$	829.994 \$	2.516.942 \$	286.340 \$	2.740.227 \$	- s	1.468.762 \$	1.042.184 \$	2.033.638 \$	830.735 \$	12,157,338	s
Transportation Equipment - Heavy Trucks	\$ 22,121,760	3 Fixed O&M	\$ 743.346 \$	1.510.275 \$	4.579.884 \$	521.030 S	4.986.177 \$	- s	2.672.591 \$	1.896.380 \$	3.700.452 \$	1.511.624 \$	22,121,760	
Transportation Equipment - Cars	\$ 1.258.141	3 Fixed O&M	\$ 42,277 \$	85.895 \$	260.474 \$	29.633 \$	283.581 \$	- 5	152.000 \$	107.854 \$	210.458 \$	85.971 \$	1.258.141	
Transportation Equipment - Other	\$ 3,405,386	3 Fixed O&M	\$ 114,429 \$	232,489 \$	705,019 \$	80,206 \$	767,564 \$		411,414 \$	291,926 \$			3,405,386	
Stores Equipment	\$ 764,039	3 Fixed O&M	\$ 25,674 \$	52,162 \$	158,180 \$	17,995 \$	172,212 \$	- \$	92,306 \$	65,497 \$			764,039	
Tools, Shop, & Garage Equipment	\$ 6,529,558	3 Fixed O&M	\$ 219,409 \$	445,780 \$	1,351,819 \$	153,790 \$	1,471,742 \$	- \$	788,854 \$	559,744 \$	1,092,242 \$	446,178 \$	6,529,558	\$
Laboratory Equipment	\$ 746,821	C Water Treatment	s - s	- \$	746,821 \$	- s	- \$	- s	- \$	- \$	- \$	- Ś	746,821	s
Power Operated Equipment	\$ 63,718	3 Fixed O&M	5 2,141 \$		13,192 \$	1,501 \$	14,362 \$	- s	7,698 \$	5,462 \$	10,659 \$	4,354 \$	63,718	
Communication Equipment	00,710	3 Fixed O&M	s - s	- 5	- 5	- 5	- 5		- 5	- 5	- \$	5		
	· · · ·											*		
Communication Equipment (non telephone)	\$ 4,439,930		\$ 149,193 \$	303,119 \$	919,202 \$	104,573 \$	1,000,747 \$	- \$	536,400 \$	380,611 \$	742,696 \$	303,389 \$	4,439,930	
Telephone Equipment	\$ 85,649	3 Fixed O&M	\$ 2,878 \$	5,847 \$	17,732 \$	2,017 \$	19,305 \$	- \$	10,347 \$	7,342 \$	14,327 \$	5,853 \$	85,649	\$
Miscellaneous Equipment	\$ 2,300,043	3 Fixed O&M	\$ 77,287 \$	157,026 \$	476,179 \$	54,173 \$	518,423 \$	- \$	277,875 \$	197,170 \$	384,743 \$	157,167 \$	2,300,043	\$
Other Tangible Property	\$ 76.662	3 Fixed O&M	\$ 2.576 \$	5.234 \$	15.871 \$	1.806 \$	17.279 \$	- s	9.262 \$	6.572 \$	12.824 \$	5.238 \$	76.662	s
Jtility Plant	\$ 2,261,125,417				230,599,390 \$	215,125,384 \$		9,227,748 \$	189,857,235 \$	107,908,169 \$			2,261,125,417	
	+ -,,,						-,+	s)221). 10 🕴					-,,, ,	
tions to Rate Base														
	F													
Cash Working Capital(STL Water)	\$ (3,358,744)	3 Fixed O&M			(695,363) \$	(79,108) \$	(757,051) \$	- \$	(405,779) \$	(287,927) \$			(3,358,744)	
Materials and Supplies(STL Water)	\$ 7,523,443	5 Net Plant (less gen. a			767,273 \$	715,787 \$	4,317,433 \$	30,703 \$	631,712 \$	359,043 \$			7,523,443	
Pension Asset(STL Water)	\$ 11,703,053	5 Net Plant (less gen. a	\$ 114,158 \$	428,464 \$	1,193,528 \$	1,113,438 \$	6,715,961 \$	47,761 \$	982,656 \$	558,507 \$	119,984 \$	428,594 \$	11,703,053	\$
Regulatory Deferrals(STL Water)	\$ 2,294,610	5 Net Plant (less gen. a	\$ 22,383 \$	84,009 \$	234,014 \$	218,311 \$	1,316,794 \$	9,364 \$	192,669 \$	109,506 \$	23,525 \$	84,034 \$	2,294,610	s
Tank Painting Tracker(STL Water)	\$	F Storage												c
Additions	\$ 18,162,362	1 Storage	\$ 97,067 \$	558,611 \$	1,499,453 \$	1,968,428 \$	11,593,138 \$	87,829 \$	1,401,258 \$	739,129 \$	(341,197) \$	558,645 \$	18,162,362	<i>c</i>
Additions	5 10,102,502		\$ 57,007 \$	338,011 \$	1,499,433 \$	1,500,420 \$	11,393,130 \$	67,625 \$	1,401,236 \$	/35,125 \$	(341,157) \$	338,043 \$	18,102,502	Ş
uctions to Rate Base														
Customer Advances for Construction														
Advances for Construction - NT Mains	\$ (24,796)	K Mains	\$-\$	- \$	- \$	(2,346) \$	(22,450) \$	- \$	- \$	- \$	- \$	- \$	(24,796)	\$
Advances for Construction - NT Extension Deposits		K Mains	s - s				(933,426) \$	- S	- \$	- 4			(1,030,964)	c
	\$ (1,030,964)			- \$	- \$	(97,538) \$				- \$	- \$	- \$		
	\$ (1,030,964)			+	+					*		*		
Advances for Construction - NT Hydrants	\$ -	J Hydrants	s - s	- \$	- \$	- \$	- \$		- \$	- \$	- \$	- \$		\$
Advances for Construction - NT Hydrants Advances for Construction - NT WIP	\$ - \$ -	J Hydrants G Meters	s - s s - s	- s - s	- \$ - \$	- \$ - \$	- \$ - \$	- \$	- s - s	- s - s	- \$ - \$	- \$ - \$	-	s s
Advances for Construction - NT Hydrants Advances for Construction - NT WIP Advances for Construction - TAX Mains	\$ -	J Hydrants G Meters H Services	s - s s - s s - s	- \$ - \$ - \$	- \$ - \$ - \$	- s - s - s	- \$ - \$ - \$	- s - s	- \$ - \$ - \$	- \$ - \$ - \$	- \$ - \$ - \$	- \$ - \$ - \$	-	s s s
Advances for Construction - NT Hydrants Advances for Construction - NT WIP	\$ - \$ - \$ -	J Hydrants G Meters	s - s s - s	- s - s	- \$ - \$	- \$ - \$	- \$ - \$	- \$	- s - s	- s - s	- \$ - \$	- \$ - \$	-	s s s
Advances for Construction - NT Hydrants Advances for Construction - NT WIP Advances for Construction - TAX Mains	\$ - \$ - \$ -	J Hydrants G Meters H Services K Mains	s - s s - s s - s	- \$ - \$ - \$	- \$ - \$ - \$	- s - s - s	- \$ - \$ - \$	- s - s	- \$ - \$ - \$	- \$ - \$ - \$	- \$ - \$ - \$	- \$ - \$ - \$	-	s s s
Advances for Construction - NT Hydrants Advances for Construction - NT WIP Advances for Construction - TAX Mains Advances for Construction - Reclassed to Current	\$ - \$ - \$ -	J Hydrants G Meters H Services K Mains	s - s s - s s - s s - s	- \$ - \$ - \$ - \$	- s - s - s - s	- \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$	- S - S - S	- \$ - \$ - \$ - \$	- s - s - s	- \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$	-	s s s
Advances for Construction - NT Hydrants Advances for Construction - NT WP Advances for Construction - TK Mains Advances for Construction - Reclassed to Current Allocated MAWC Corporate - Customer Advances CIAC	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	J Hydrants G Meters H Services K Mains K Mains	s - s s - s s - s s - s	- \$ - \$ - \$ - \$	- s - s - s - s	- \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$	- S - S - S	- \$ - \$ - \$ - \$	- s - s - s	- \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$	-	s s s s
Advances for Construction - NT Hydrants Advances for Construction - NT Wa Advances for Construction - TAX Mains Advances for Construction - Reclassed to Current Allocated MAWC Corporate - Customer Advances CIAC CIAC-Yon Taxable - Mains	\$ - \$ - \$ - \$ - \$ - \$ 3,012 \$ (149,292,558)	J Hydrants G Meters H Services K Mains K Mains K Mains	5 - 5 5 - 5 5 - 5 5 - 5 5 - 5 5 - 5	- \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 285 \$ (14,124,382) \$	- \$ - \$ - \$ 2,727 \$ (135,168,176) \$	- S - S - S - S	- \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$		s s s s
Advances for Construction - NT Wipfarits Advances for Construction - NT Wip Advances for Construction - TAX Mains Advances for Construction - Rectassed to Current Allocated MAWC Corporate - Customer Advances CIAC CIAC-Non Taxable - Exit Dep	\$ - \$ - \$ - \$ - \$ 3,012 \$ (149,292,558) \$ (51,238,345)	J Hydrants G Meters H Services K Mains K Mains K Mains K Mains	5 - 5 5 - 5	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 285 \$ (14,124,382) \$ (4,847,596) \$	- \$ - \$ - \$ 2,727 \$ (135,168,176) \$ (46,390,749) \$	- \$ - \$ - \$ - \$ - \$	- S - S - S - S - S - S - S	- \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$		s s s s s
Advances for Construction - NT We Advances for Construction - NT We Advances for Construction - TAW Advances for Construction - Reclassed to Current Advances for Current - Reclassed to Current Advances for Construction - Reclassed to Current Advances for Current - Reclassed to Curre	\$	J Hydrants G Meters H Services K Mains K Mains K Mains K Mains H Services	5 - S 5 - S	- S - S - S - S - S - S - S - S	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 285 \$ (14,124,382) \$ (4,847,596) \$ - \$	- \$ - \$ - \$ 2,727 \$ (135,168,176) \$ (46,390,749) \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- S - S - S - S - S - S - S - S	- \$ - \$ - \$ - \$ - \$ - \$ (9,152) \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- - 3,012 (149,292,558) (51,238,345) (9,152)	s s s s s s
Advances for Construction - NT Wipfarits Advances for Construction - NT Wip Advances for Construction - TAX Mains Advances for Construction - Rectassed to Current Allocated MAWC Corporate - Customer Advances CIAC CIAC-Non Taxable - Exit pop CIAC-Non Taxable - Exit pop CIAC-Non Taxable - Meters	S - \$ - \$ - \$ - \$ - \$ 3,012 \$ (149,292,558) \$ (51,288,345) \$ (9,152) \$ (5,319,778)	J Hydrants G Meters H Services K Mains K Mains K Mains K Mains	5 - 5 5 - 5	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 285 \$ (14,124,382) \$ (4,847,596) \$	- \$ - \$ - \$ 2,727 \$ (135,168,176) \$ (46,390,749) \$	- \$ - \$ - \$ - \$ - \$	- S - S - S - S - S - S - S	- \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$		s s s s s s s s s s
Advances for Construction - NT Wile Advances for Construction - NT Wile Advances for Construction - TAW Mains Advances for Construction - Reclassed to Current Allocated MAWC Corporate - Customer Advances CAC CAC-Non Taxable - Kat Dep CAC-Non Taxable - Services CAC-Non Taxable - Services CAC-Non Taxable - Meters CAC-Non Taxable - Meters	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	J Hydrants G Meters H Services K Mains K Mains K Mains K Mains H Services	5 - S 5 - S	- S - S - S - S - S - S - S - S	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 285 \$ (14,124,382) \$ (4,847,596) \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 2,727 \$ (135,168,176) \$ (46,390,749) \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- S - S - S - S - S - S - S - S	- \$ - \$ - \$ - \$ - \$ - \$ (9,152) \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- 3,012 (149,292,558) (51,238,345) (5,319,778) (5,255,590)	s s s s s s s s s s s s s s s s
Advances for Construction - NT Wipfarits Advances for Construction - NT Wip Advances for Construction - TAX Mains Advances for Construction - Rectassed to Current Allocated MAWC Corporate - Customer Advances CIAC CIAC-Non Taxable - Exit pop CIAC-Non Taxable - Exit pop CIAC-Non Taxable - Meters	S - \$ - \$ - \$ - \$ - \$ 3,012 \$ (149,292,558) \$ (51,288,345) \$ (9,152) \$ (5,319,778)	J Hydrants G Meters H Services K Mains K Mains K Mains K Mains H Services G Meters	5 - S 5 - S	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 285 \$ (14,124,382) \$ (4,847,596) \$ - \$ - \$	- \$ - \$ - \$ 2,727 \$ (135,168,176) \$ (46,390,749) \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ (5,319,778) \$	- \$ - \$ - \$ - \$ - \$ - \$ (9,152) \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$		s s s s s s s s s s s s s s s s
Advances for Construction - NT Wile Advances for Construction - NT Wile Advances for Construction - TAW Mains Advances for Construction - Reclassed to Current Allocated MAWC Corporate - Customer Advances CAC CAC-Non Taxable - Kat Dep CAC-Non Taxable - Services CAC-Non Taxable - Services CAC-Non Taxable - Meters CAC-Non Taxable - Meters	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	J Hydrants G Meters H Services K Mains K Mains K Mains K Mains H Services G Meters J Hydrants	s - s s - s	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 285 \$ (14,124,382) \$ (4,847,596) \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 2,727 \$ (135,168,176) \$ (46,390,749) \$ - \$ - \$ - \$	- S - S - S - S - S - S - S - S - S	- \$ - \$ - \$ - \$ - \$ - \$ - \$ (5,319,778) - \$	- \$ - \$ - \$ - \$ - \$ - \$ (9,152) \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- 3,012 (149,292,558) (51,238,345) (5,319,778) (5,255,590)	s s s s s s s s s s s s s s s s s s s
Advances for Construction - NT Wipfarits Advances for Construction - NT Wip Advances for Construction - TX Mains Advances for Construction - Retainsed to Current Allocated MAWC Corporate - Curtomer Advances CAR CAR-Mon Tasable - Mains CAR-Mon Tasable - Marines CAR-Mon Tasable - Meters CAR-Mon Tasable - Meters CAR-Mon Tasable - Weters CAR-Mon Tasable - Wipfarits	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ (149,292,558) \$ (51,238,345) \$ (51,238,345) \$ (51,238,345) \$ (5,255,590) \$ (1,509,657) \$ -	J Hydrants G Meters H Services K Mains K Mains K Mains H Services G Meters J Hydrants K Mains K Mains	5 - S 5 - S	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 285 \$ (14,124,382) \$ (4,847,596) \$ - \$ - \$ (180,610) \$ (180,610) \$	- \$ - \$ - \$ 2,727 \$ (135,168,176) \$ (46,390,749) \$ - \$ - \$ - \$ (1,728,444) \$ - \$	- S - S - S - S - S - S - S - S - S - S	- S - S - S - S - S - S (5,319,778) S - S - S - S - S	- S - S - S - S - S - S (9,152) S - S - S - S - S - S - S	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ (5,255,590) \$ - \$ - \$	3,012 (149,292,558) (51,238,345) (5,123,345) (5,255,590) (1,909,575)	s s s s s s s s s s s s s s s s s s s
Advances for Construction - NT Wipfarits Advances for Construction - TX Wip Advances for Construction - TX Mains Advances for Construction - Rectassed to Current Allocated MAWC Corporate - Customer Advances CIAC CAC-Non Tasable - Ext Dep CIAC-Non Tasable - Ext Dep CIAC-Non Tasable - Meters CIAC-Non Tasable - Meters CIAC-Non Tasable - Meters CIAC-Non Tasable - Other CIAC-Non Tasable - Unip	\$. \$. \$. \$	J Hydrants G Meters H Services K Mains K Mains K Mains H Services G Meters J Hydrants K Mains K Mains K Mains	5 - S 5 - S	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ 285 \$ (14,124,382) \$ (4,847,596) \$ - \$ (180,613) \$ - \$ (2,849,752) \$	- \$ - \$ 2,727 \$ (135,168,176) \$ (46,390,749) \$ - \$ - \$ (1,728,444) \$ - \$ (27,771,692) \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- S - S - S - S - S - S (5,319,778) S - S - S - S - S - S - S	- \$ - \$ - \$ - \$ - \$ - \$ (9,152) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ (5,255,590) \$ - \$ - \$ - \$	(149,29,258) (51,28,345) (5,128,345) (5,319,778) (5,255,590) (1,909,057) (1,909,057) (30,121,444)	***
Advances for Construction - NT Wipfants Advances for Construction - NT Wip Advances for Construction - TX Mains Advances for Construction - Retainsed to Current Allocated MAWC Corporate - Cutomer Advances CAC Concession - Tanabie - Advision Concession - Tanabie - Advision Concession - Tanabie - Advision Concession - Tanabie - Advision Concession - Tanabie - Mains Concession - Tanabie - Other Concession - Tanabie - Mains Concession - Super - S	\$ - \$ -	J Hydrants G Meters H Services K Mains K Mains K Mains H Services G Meters J Hydrants K Mains K Mains K Mains K Mains	s - s s - s - s - s - s - s - s - s - s - s -	- S - S - S - S - S - S - S - S - S - S	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - 25 - 285 - 285 - 285 - 285 - 285 - 5 - 5 - 5 - 5 - 5 - 180,613] - 5 - 285 - 5 - 285 - 285	- 5 - 5 - 5 - 7 - 5 - 7 - 5 - 7 - 5 - 5 - 5 - 7 - 5 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ (5,319,778) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ (9,152) \$ -	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ (5,255,590) \$ -	3,012 (149,292,558) (51,52) (5,319,778) (5,319,778) (1,909,057) (1,909,057) (30,0121,444)	***
Advances for Construction - NT Wipfants Advances for Construction - NT Wip Advances for Construction - TAX Mains Advances for Construction - Rectassed to Current Allocated MAWC Corporate - Customer Advances CIAC CIAC-Non Taxable - Ext Dep CIAC-Non Taxable - Ext Dep CIAC-Non Taxable - Neters CIAC-Non Taxable - Meters CIAC-Non Taxable - Meters CIAC-Non Taxable - Meters CIAC-Non Taxable - Other CIAC-Taxable - Starbing Deposits CIAC-Taxable - Extension Deposits CIAC-Taxable - Extension Deposits	\$ - \$ - \$ - \$ 3,012 \$ (149,292,558) \$ (5,1238,345) \$ (5,1238,345) \$ (5,25590) \$ (5,255590) \$ (1,909,057) \$ (2,400,136) \$ (12,20,449) \$ (12,20,449)	J Hydrants G Meters H Services K Mains K Mains K Mains H Services G Meters G Meters H Mains K Mains K Mains K Mains K Mains K Mains K Mains	5 - S 5 - S	- \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ 5 - \$ 5	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 285 \$ (14,124,382) \$ (4,847,56) \$ - \$ - \$ (180,613) \$ - \$ (2,849,752) \$ (2,849,752) \$ (2,55,88) \$	- \$ - \$ - \$ 2,727 \$ (135,166,176) \$ (46,390,749) \$ - \$ - \$ (1,728,444) \$ - \$ (1,728,444) \$ - \$ (27,271,692) \$ (2,254,547) \$ (2,254,547) \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ (5,319,778) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ (9,152) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- 5 - 5 - 5 - 5 - 5 - 5 - 5 (5,255,590) \$ - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	3,012 (149,292,558) (5,128,345) (5,319,778) (5,555,590) (1,909,057) (30,121,444) (2,2490,136) (1,220,249)	\$\$\$\$\$\$\$\$\$\$\$\$\$\$
Advances for Construction - NT Wipfarits Advances for Construction - NT Wip Advances for Construction - TX Mains Advances for Construction - Retainsed to Current Allocated MAWC Corporate - Customer Advances CAC CAC-Non Taxable - Mains CAC-Non Taxable - Euto po CAC-Non Taxable - Euto po CAC-Non Taxable - Neters CAC-Non Taxable - Other CAC-Non Taxable - Wipfarits CAC-Taxable - Mains CAC-Taxable - Mains CAC-Taxable - Services CAC-Taxable - Services	\$. \$. \$. \$. \$ 3.012 \$ (140,202,558) \$ (51,238,345) \$ (9,152) \$ (5,25,590) \$ (1,255,590) \$ (1,202,439) \$ (2,400,130) \$ (2,400,130) \$ (12,202,449) \$ (12,303,450)	J Hydrants G Meters H Services K Mains K Mains K Mains H Services G Meters J Hydrants K Mains K Mains K Mains K Mains	s - s s - s - s - s - s - s - s - s - s - s -	- S - S - S - S - S - S - S - S - S - S	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - 25 - 285 - 285 - 285 - 285 - 285 - 5 - 5 - 5 - 5 - 5 - 180,613] - 5 - 285 - 5 - 285 - 285	- 5 - 5 - 5 - 7 - 5 - 7 - 5 - 7 - 5 - 5 - 5 - 7 - 5 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ (5,319,778) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ (9,152) \$ -	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	3,012 (149,292,558) (51,52) (5,319,778) (5,319,778) (1,909,057) (1,909,057) (30,0121,444)	\$\$\$\$\$\$\$\$\$\$\$\$\$\$
Advances for Construction - NT VIP Advances for Construction - NT VIP Advances for Construction - TAX Mains Advances for Construction - Reclassed to Current Allocated MAWC Corporate - Customer Advances CAC CAC-Non Taxable - National CAC-Non Taxable - Ext Dep CAC-Non Taxable - Ext Dep CAC-Non Taxable - Meters CAC-Non Taxable - Meters CAC-Non Taxable - Meters CAC-Non Taxable - UNP CAC-Taxable - Starbino Deposits CAC-Taxable - Extension Deposits	\$ - \$ - \$ - \$ 3,012 \$ (149,292,558) \$ (5,1238,345) \$ (5,1238,345) \$ (5,25590) \$ (5,255590) \$ (1,909,057) \$ (2,400,136) \$ (12,20,449) \$ (12,20,449)	J Hydrants G Meters H Services K Mains K Mains K Mains H Services G Meters G Meters H Mains K Mains K Mains K Mains K Mains K Mains K Mains	s - s s - s - s - s - s - s - s - s - s - s -	- \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ 5 - \$ 5	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 285 \$ (14,124,382) \$ (4,847,56) \$ - \$ - \$ (180,613) \$ - \$ (2,849,752) \$ (2,849,752) \$ (2,55,88) \$	- \$ - \$ - \$ 2,727 \$ (135,166,176) \$ (46,390,749) \$ - \$ - \$ (1,728,444) \$ - \$ (1,728,444) \$ - \$ (27,271,692) \$ (2,254,547) \$ (2,254,547) \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ (5,319,778) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ (9,152) \$ -	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- 5 - 5 - 5 - 5 - 5 - 5 - 5 (5,255,590) \$ - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	3,012 (149,292,558) (5,128,345) (5,319,778) (5,555,590) (1,909,057) (30,121,444) (2,2490,136) (1,220,249)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Advances for Construction - NT Wipfants Advances for Construction - NT Wip Advances for Construction - TX Mains Advances for Construction - Retainsed to Current Allocated MAWC Corporate - Customer Advances CAC CAC-Non Taxable - Mains CAC-Non Taxable - Ext pep CAC-Non Taxable - Net CAC-Non Taxable - Net CAC-Non Taxable - Net CAC-Non Taxable - Other CAC-Non Taxable - Wipf CAC-Taxable - Chemiston CAC-Taxable - Mains CAC-Taxable - Services CAC-Taxable - Services	S . S .	J Hydrants G Meters H Services K Mains K Mains K Mains H Services G Meters J Hydrants K Mains K Mains K Mains K Mains K Mains G Meters	s - s s - s - s - s - s - s - s - s - s - s -		- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 285 - \$ 285 - \$ (4,847,596) \$ - \$ (4,847,596) \$ - \$ (180,613) \$ - \$ (2,849,752) \$ (2,35,589) \$ (2,35,589) \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ (2,35,589) \$ - \$ \$ (2,35,58) \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ 2,272 \$ (135,168,176) \$ (46,390,749) \$ - \$ (1,728,444) \$ (2,274,542) \$ (2,274,542) \$ (2,254,547) \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ (5,319,778) \$ - \$ 5 - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ (9,152) \$ -	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	3,012 (149,292,558) (51,238,345) (5,339,778) (5,255,590) (1,999,657) (1,999,657) (2,490,136) (2,490,136) (611,239)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Advances for Construction - NT Wipfants Advances for Construction - NT Wip Advances for Construction - TAX Mains Advances for Construction - TAX Mains Advances for Construction - Reclassed to Current Allocated WAWC Corporate - Customer Advances CAC CAC-Ionn Taxable - Ext pp CLAC-Ionn Taxable - Ext pp CLAC-Ionn Taxable - Ext pp CLAC-Ionn Taxable - Meries CAC-Ionn Taxable - Other CLAC-Taxable - Mains CLAC-Taxable - Mains CLAC-Taxable - Services CLAC-Taxable - Services	\$. \$. \$. \$. \$ 3.012 \$ (140,202,558) \$ (51,238,345) \$ (9,152) \$ (5,25,590) \$ (1,255,590) \$ (1,202,439) \$ (2,400,130) \$ (2,400,130) \$ (12,202,449) \$ (12,303,450)	J Hydrants G Meters H Services K Mains K Mains K Mains G Meters G Meters G Meters K Mains K Mains K Mains K Mains G Meters J Hydrants G Meters J Hydrants	s - s s - s - s - s - s - s - s - s - s - s -		- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 285 \$ (4,847,596) \$ - \$ (4,847,596) \$ - \$ (180,613) \$ - \$ (235,589) \$ (235,589) \$ - \$ (235,589) \$ - \$ (235,589) \$ (235,589) \$ - \$ (235,589) \$ (235,589) \$ - \$ (235,589) \$ - \$ (235	- \$ - \$ - \$ 2,727 \$ (135,168,176) \$ (46,390,749) \$ - \$ (1,728,444) \$ (1,728,444) \$ (2,254,542) \$ (2,254,542) \$ (2,254,542) \$ (2,254,542) \$ (2,255,545) \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - 5 - 5 - 5 - 5 - 5 (5,319,778) \$ - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	- \$ - \$ - \$ - \$ - \$ - \$ - \$ (9,152) \$ -	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- s - s - s - s - s - s - s (5,255,590) \$ - s - s - s - s - s - s - s - s - s - s	3,012 (149,292,558) (51,238,345) (5,319,778) (5,319,778) (5,319,778) (1,209,057) (1,209,057) (12,202,449) (611,339) 2,563 (33,314)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Advances for Construction - NT Vip/ Advances for Construction - NT WiP Advances for Construction - TAX Mains Advances for Construction - Rectassed to Current Allocated MAWC Caporate - Customer Advances CIAC CIAC-Non Taxable - Nations CIAC-Non Taxable - Ext Dep CIAC-Non Taxable - Ext Dep CIAC-Non Taxable - Meters CIAC-Non Taxable - Meters CIAC-Non Taxable - Meters CIAC-Non Taxable - Meters CIAC-Taxable - WiP CIAC-Taxable - Strevices CIAC-Taxable - Strevices CIAC-Taxable - Meters CIAC-Taxable - Meters	S . S .	J HydrantS G Meters H Services K Mains K Mains K Mains H Services G Meters J HydrantS K Mains K Mains	s - s s - s - s - s - s - s - s - s - s - s -		- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 285 \$ (4,847,596) \$ - \$ (4,847,596) \$ - \$ (2,849,752) \$ (2,849,752) \$ (2,5,889 \$ (2,5,589 \$ - \$ (2,5,589 \$ - \$ (2,5,589 \$ - \$ (3,729) \$	- \$ - \$ - \$ 2,227 \$ (145,168,176) \$ (46,30,76) \$ - \$ - \$ (1,728,444) \$ (2,254,547) \$ (2,254,547) \$ - \$ (2,254,547) \$ - \$ (2,254,547) \$ - \$ (2,254,547) \$ - \$ (2,254,547) \$ - \$ - \$ (2,254,547) \$ -	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ (5,319,778) \$ - \$ - \$ - \$ (611,339) \$ (611,339) \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ (9,152) \$ -	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	3,012 (149,292,558) (5,128,345) (5,139,778) (5,255,590) (1,1909,657) (2,450,136) (12,202,449) (11,202,449) (11,202,449) (11,202,449) (11,202,449)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Advances for Construction - NT Wipfants Advances for Construction - NT Wip Advances for Construction - RTA Mains Advances for Construction - Retainsed to Current Allocated MAWC Corporate - Customer Advances CAC CAC-Non Taxable - Ext pe CuC-Non Taxable - Ext pe CuC-Non Taxable - Ext pe CuC-Non Taxable - Ext pe CuC-Non Taxable - Neters CuC-Non Taxable - Heters CuC-Non Taxable - Heters CuC-Taxable - Heters CuC-Taxable - Services CuC-Taxable - Services CuC-Taxable - Heters CuC-Taxable - Heters	5 - 5 - 5 - 5 - 5 - 6 (142,925,58) 5 (142,924,58) 5 (143,84,45) 5 (153,84,478) 5 (153,84,978) 5 (143,96,96) 5 (143,96,96) 5 (143,98,96) 5 (122,90,449) 5 (123,94,978) 5 (143,98) 5 (143,98) 5 (153,138) 5 (193,144) 5 (193,144) 5 (193,144)	J Hydrants G Meters H Services K Mains K Mains K Mains K Mains G Meters J Hydrants K Mains K Mains K Mains K Mains K Mains H Services	- 5 5 - 2 5		- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 285 \$ (4,847,596) \$ (4,847,596) \$ - \$ (2849,752) \$ (235,894) (235,894) - \$ (235,894) - \$ (235,894) - \$ (237,894) - \$ (237,994) - \$	- \$ - \$ - \$ 2,727 \$ (135,168,176) \$ (46,390,749) \$ - \$ (1,728,444) \$ (1,728,444) \$ (1,728,444) \$ (2,254,542) \$ (2,254,542) \$ (2,254,542) \$ (2,255,555) \$ - \$ (5,5555) \$ - \$	- \$ \$ - \$ -	- \$ - \$ - \$ - \$ - \$ - \$ (5,319,778) \$ - \$ - \$ - \$ - \$ (611,339) \$ - \$ (611,339) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ (9,152) \$ - \$ - \$ - \$ - \$ - \$ (12,202,449) \$ - \$ (12,202,449) \$ -	- \$ \$ \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- s - s - s - s - s - s - s (5,255,590) \$ - s - s - s - s - s - s - s - s - s - s	3,012 (149,292,559) (5,128,445) (3,139,778) (5,255,569) (1,209,677) (1,209,677) (2,490,136) (2,490,136) (1,129,139) (611,139) (611,139) (3,9,144) (3,9,144)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Advances for Construction - NT Vip/ Advances for Construction - NT WiP Advances for Construction - TAX Mains Advances for Construction - Rectassed to Current Allocated MAWC Caporate - Customer Advances CIAC CIAC-Non Taxable - Nations CIAC-Non Taxable - Ext Dep CIAC-Non Taxable - Ext Dep CIAC-Non Taxable - Meters CIAC-Non Taxable - Meters CIAC-Non Taxable - Meters CIAC-Non Taxable - Meters CIAC-Taxable - WiP CIAC-Taxable - Strevices CIAC-Taxable - Strevices CIAC-Taxable - Meters CIAC-Taxable - Meters	S . S .	J HydrantS G Meters H Services K Mains K Mains K Mains H Services G Meters J HydrantS K Mains K Mains	- 5 5 - 2 5		- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 285 \$ (4,847,596) \$ - \$ (4,847,596) \$ - \$ (2,849,752) \$ (2,849,752) \$ (2,5,889 \$ (2,5,589 \$ - \$ (2,5,589 \$ - \$ (2,5,589 \$ - \$ (3,729) \$	- \$ - \$ - \$ 2,227 \$ (145,168,176) \$ (46,30,76) \$ - \$ - \$ (1,28,444) \$ (2,254,547) \$ (2,254,547) \$ - \$ (2,254,547) \$ - \$ (2,254,547) \$ - \$ (2,254,547) \$ - \$ (2,254,547) \$ - \$ - \$ (2,254,547) \$ -	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ (5,319,778) \$ - \$ - \$ - \$ (611,339) \$ (611,339) \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ (9,152) \$ -	- \$ \$ \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- s - s - s - s - s - s - s (5,255,590) \$ - s - s - s - s - s - s - s - s - s - s	3,012 (149,292,558) (51,238,345) (5,319,778) (5,319,778) (5,319,778) (1,209,057) (1,209,057) (12,202,449) (611,339) 2,563 (33,314)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Advances for Construction - NT Wipfants Advances for Construction - NT Wip Advances for Construction - RTA Mains Advances for Construction - Retainsed to Current Allocated MAWC Corporate - Customer Advances CAC CAC-Non Taxable - Ext pe CuC-Non Taxable - Ext pe CuC-Non Taxable - Ext pe CuC-Non Taxable - Ext pe CuC-Non Taxable - Neters CuC-Non Taxable - Heters CuC-Non Taxable - Heters CuC-Taxable - Heters CuC-Taxable - Services CuC-Taxable - Services CuC-Taxable - Heters CuC-Taxable - Heters	5 - 5 - 5 - 5 - 5 - 6 (142,925,58) 5 (142,924,58) 5 (143,84,45) 5 (153,84,478) 5 (153,84,978) 5 (143,96,96) 5 (143,96,96) 5 (143,98,96) 5 (122,90,449) 5 (123,94,978) 5 (143,98) 5 (143,98) 5 (153,138) 5 (193,144) 5 (193,144) 5 (193,144)	J HydrantS G Meters H Services K Mains K Mains K Mains H Services G Meters J HydrantS K Mains K Mains K Mains K Mains K Mains H Services G Meters J HydrantS K Mains K Mains S Heters J HydrantS S Heter Plunt (less gen. a	- 5 5 - 2 5		- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 285 \$ (4,847,596) \$ (4,847,596) \$ - \$ (2849,752) \$ (235,894) (235,894) - \$ (235,894) - \$ (235,894) - \$ (237,894) - \$ (237,994) - \$	- \$ - \$ - \$ 2,727 \$ (135,168,176) \$ (46,390,749) \$ - \$ (1,728,444) \$ (1,728,444) \$ (1,728,444) \$ (2,254,542) \$ (2,254,542) \$ (2,254,542) \$ (2,2555) \$ - \$ - \$ (5,555) \$ - \$	- \$ \$ - \$ -	- \$ - \$ - \$ - \$ - \$ - \$ (5,319,778) \$ - \$ - \$ - \$ - \$ (611,339) \$ - \$ (611,339) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ (9,152) \$ - \$ - \$ - \$ - \$ - \$ (12,202,449) \$ - \$ (12,202,449) \$ -	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- 5 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	3,012 (149,292,559) (5,128,445) (5,319,778) (5,555,569) (1,209,677) (1,209,677) (2,490,136) (2,490,136) (1,12,90,136) (1,1339) (611,1339) (3,9,114) (3,9,114)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Advances for Construction - NT Vily Advances for Construction - NT Wil Advances for Construction - RTA Mains Advances for Construction - Retainsed to Current Allocated MAWC Corporate - Customer Advances CAC CAC-Non Taxable - Nations CAC-Non Taxable - Ext Dep CAC-Non Taxable - Neters CAC-Non Taxable - Meters CAC-Non Taxable - Meters CAC-Non Taxable - Meters CAC-Non Taxable - Meters CAC-Taxable - Mins CAC-Taxable - Mins	5 - 5 - 5 - 5 - 5 6 5 123.83.45 5 (512.83.45) 5 (513.57.85) 5 (512.59.96) 5 (512.20.469) 5 (202.144) 5 (202.145) 5 (202.145) 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	J HydrantS G Meters H Services K Mains K Mains K Mains H Services G Meters J HydrantS K Mains K Mains K Mains K Mains K Mains H Services G Meters J HydrantS K Mains K Mains S Heters J HydrantS S Heter Plunt (less gen. a	5 - 5 5 - 8 5 5 54/260	- c 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ 285 \$ (14,124,382) \$ (4,487,56) \$ - \$ (10,613) \$ (235,589) \$ (235,589) \$ (235,589) \$ - \$ (235,589) \$ - \$ (3,719) \$ - \$ 5,766,693 \$	- \$ - \$ - \$ 2,227 \$ (135,168,170) \$ (46,30,74) \$ - \$ - \$ (1,228,444) \$ (2,254,547) \$ - \$ (2,254,547) \$ - \$ (2,254,547) \$ - \$ (2,254,547) \$ - \$ (3,595) \$ - \$ - \$ 3,4560,0475 \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- 6 - 8 - 8 - 8 - 8 - 8 - 8 - 8 (5,319,778) \$ - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8	- 5 - 8 - 8 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- 5 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	3,012 (149,292,558) (9,152) (5,139,778) (5,255,590) (1,209,657) (1,209,657) (1,202,449) (6,1339) (1,220,249) (1,220,249) (1,239,149) (2,563) (3,3,14) (3,3,1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Advances for Construction - NT Vily Advances for Construction - NT Wil Advances for Construction - TX Mains Advances for Construction - Retainsed to Current Allocated MAWC Carporate - Customer Advances CAC CAC-Non Tazable - Nations CAC-Non Tazable - Ext Dep CAC-Non Tazable - Ext Dep CAC-Non Tazable - Meters CAC-Non Tazable - Meters CAC-Non Tazable - Meters CAC-Non Tazable - Meters CAC-Tazable - Mins CAC-Tazable - Mins	5 - 5 - 5 - 5 - 5 0.02 10 12.83.463 5 (61.23.83.463) 5 (61.23.83.463) 5 (61.23.83.463) 5 (61.23.83.463) 5 (1.23.83.463) 5 (1.23.20.469) 5 (1.23.20.469) 5 (1.23.20.469) 5 (2.55.33) 5 (2.56.33) 5 (2.57.180) 5 (0.27.180) 5 (0.27.180) 5 (0.27.180)	J Hydrants G Meters H Services K Mains K Mains K Mains K Mains G Meters J Hydrants K Mains K Mains K Mains K Mains K Mains K Mains K Mains K Mains K Mains S Hetris J Hydrants K Mains S S Net Plunt (les gen. a K Mains	5 - 5 5 - 8 5 5 54/240 5 - 8	- 6 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	- 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- 6 - 8 - 8 - 8 - 8 - 8 - 8 - 8 (5,319,778) \$ - 8 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	- 5 - 8 - 8 - 8 - 8 - 8 - 8 - 8 (9,152) \$ - 8 - 8 - 8 - 8 - 8 (12,202,449) \$ - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8	- \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ - \$ - \$ - \$	- 6 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8	3,012 (149,292,558) (5,128,345) (5,319,778) (5,255,500) (1,990,577) (30,121,444) (2,490,136) (12,202,449) (61,1399) 2,563 (39,314) (1,294,222)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
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Advances for Construction - NT Wipdrams Advances for Construction - NT Wip Advances for Construction - TX Mains Advances for Construction - TX Mains Advances for Construction - Rectanged to Current Allocated MAWC Corporate - Curtomer Advances CMC CAC-Mon Tasable - Nains CAC-Mon Tasable - Mains CAC-Mon Tasable - Mains CAC-Mon Tasable - Mains CAC-Mon Tasable - Wipdrams CAC-Mon Tasable - Wipdrams CAC-Tasable - Mains CAC-Tasable - Mains CAC-Tasab	$\begin{array}{c c} 5 & . & . \\ 5 & . & . \\ 5 & . & . \\ 5 & . & . \\ 5 & . & . \\ 5 & . & . \\ 5 & . & . \\ 5 & . & . \\ 6 & . & . \\ 6 & . & . \\ 6 & . & . \\ 1 & . & . \\ 5 & . & .$	J Hydrants G Meters H Services K Mains K Mains K Mains K Mains H Services J Hydrants K Mains K Mains K Mains K Mains G Meters J Hydrants G Meters G Meters G Meters S Met Plant (less gen. a K Mains	5 - S 5 - S	- c 5 -	 S S	- 5 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	- 5 - 5 - 5 - 2,272 5 - 1 - 5 - 2,272 5 - 2,273 5 -	- 5 - 6 - 8 - 8 - 8 - 8 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	- 6 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8	 \$ \$	 S S	- 6 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	3.012 (149.292.558) (9.152) (5.152.834.57) (5.157.71) (\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$
Advances for Construction - NT Wipdrams Advances for Construction - TX Win Advances for Construction - TX Mains Advances for Construction - TX Mains Advances for Construction - Reclassed to Current Allocated MAWC Corporate - Customer Advances CAC- Con Tasable - Services CAC-Non Tasable - Ext Dep CAC-Non Tasable - Ext Dep CAC-Non Tasable - Ext Dep CAC-Non Tasable - Meters CAC-Non Tasable - Meters CAC-Tosable - Meters CAC-Tosable - Meters CAC-Tasable - Hydrants CAC-Tasable - Hydr	5 5 5 5 5 5 5 5 5 5 5 5 6 7 8 9 10.202.043 11.200.0491 12.200.0491 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 .	J Hydrants G Meters H Services K Mains K Mains K Mains K Mains G Meters G Meters J Hydrants K Mains K Mains K Mains K Mains K Mains H Services G Meters J Hydrants K Mains K Mains K Mains K Mains K Mains S Net Plant (less gen. a	5 - S 5 - S	. 5 . 5 . 5 . 5 . 5 . 5 . 5 . 5	- 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	- \$ - \$ - \$ 285 \$ (14,124,382) \$ (4,847,502) \$ (4,847,502) \$ (130,513) \$ (2,840,752) \$ (2,840,752) \$ (2,840,752) \$ (2,840,752) \$ (2,840,752) \$ (2,840,752) \$ (2,752,859) \$ (122,445) \$	- \$ - \$ - \$ 2,727 \$ (155,168,176) \$ (46,39976) \$ - \$ 5 - \$ (1,728,444) \$ (2,254,447) \$ (2,254,447) \$ (2,254,447) \$ (2,254,547) \$ 5 - \$ 5 - \$ 3,4500,475 (1,172,777) \$ (228,752,844) \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- 6 5 - 8 5 - 9 5 -	 s s	 S S	- 6 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	3,012 (149,292,58) (6,1238,345) (5,137,78) (5,525,500) (1,130,057) (1,202,445) (1,130,0136) (1,12,202,445) (1,1339) (6,131,349) (1,1339) (1,1339) (1,1339) (1,1339) (1,1339) (1,1339) (1,1339) (1,1339) (1,1339) (1,249,4223) (1,286,618,481)	\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$
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Advances for Construction - NT Wipdrams Advances for Construction - NT Wip Advances for Construction - TX Mains Advances for Construction - TX Mains Advances for Construction - Rectanged to Current Allocated MAWC Corporate - Curtomer Advances CMC CAC-Mon Tasable - Nains CAC-Mon Tasable - Mains CAC-Mon Tasable - Mains CAC-Mon Tasable - Mains CAC-Mon Tasable - Wipdrams CAC-Mon Tasable - Wipdrams CAC-Tasable - Mains CAC-Tasable - Mains CAC-Tasab	$\begin{array}{c c} 5 & . & . \\ 5 & . & . \\ 5 & . & . \\ 5 & . & . \\ 5 & . & . \\ 5 & . & . \\ 5 & . & . \\ 5 & . & . \\ 6 & . & . \\ 6 & . & . \\ 6 & . & . \\ 1 & . & . \\ 5 & . & .$	J Hydrants G Meters H Services K Mains K Mains K Mains K Mains H Services J Hydrants K Mains K Mains K Mains K Mains G Meters G M	5 - S 5 - S	- c 5 -	 S S	- 5 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	- 5 - 5 - 5 - 2,272 5 - 1 - 5 - 2,272 5 - 2,273 5 -	- 5 - 6 - 8 - 8 - 8 - 8 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	- 6 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8	 \$ \$	 S S	- 6 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	3.012 (149.292.558) (9.152) (5.152.834.57) (5.157.71) (\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Advances for Construction - NT Wijkants Advances for Construction - NT Wijk Advances for Construction - TAX Mains Advances for Construction - TAX Mains Advances for Construction - Reclassed to Current Allocated MAWC Corporate - Cutomer Advances CMC CAC - Man Taxable - Nains CAC - Man Taxable - Mains CAC - Man Taxable - Wijk CAC - Taxable - Mains CAC - Taxa	5 - 5 - 5 - 5 - 5 - 5 - 6 - 7 - 6 - 7 - 6 - 7 - 7 - 7 - 7 - 6 - 7 - 7 - 6 - 7 - 6 - 7 - 7 - 6 - 7 - 6 - 7 - 7 - 6 - 7 - 6 - 7 - 6 - 7 - 7 - 6 -	J Hydrants G Meters H Services K Mains K Mains K Mains K Mains H Services J Hydrants K Mains K Mains K Mains K Mains G Meters G M	S - S S - S		- 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	- 5 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	- \$ - \$ - \$ 2,227 \$ (155,168,176) \$ - \$ - \$ (46,390,794) \$ - \$ (1,728,444) \$ - \$ (1,728,444) \$ - \$ (1,728,444) \$ - \$ (1,728,444) \$ - \$ (1,728,444) \$ - \$ (1,728,442) \$ (1,728,442) \$ (1,728,442) \$ (1,728,728,842) \$ (1,728,728,842) \$ (1,728,728,842) \$ (1,1278,728,710) \$		- 6 - 8 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	 s s	2 - 2 2	- 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	3,012 (16) 202,523 (12) 204,205 (12) 204,	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

MAWC Class Cost of Service Study Case Nos. WR-2022-0303 | SR-2022-0304

> Schedule JAY-1 Page 10 of 18

Missouri-American Water Company Class Cost of Service Study - Account Detail Case No: WR-2022-0303, SR-2027-0304

Class Cost of Service Study - Account Detail															
Case No: WR-2022-0303, SR-2022-0304				Source of		Water									
	Post Test Year	Alloc Desi	ription	 Supply	Pumping	Treatment	Transmission	Distribution	Storage	Meters	Services	Customers	Hydrants	Total	Variance
Miscellaneous T&D Operating Expense	\$ 1,578,087	1 \$		\$ - \$ -	- \$	- \$ -	101,553 \$ 0.06435	971,846 \$ 0.61584	- \$ -	504,688 \$ 0.31981	- \$ -	- \$	- \$	1,578,087 1.00000	
Miscellaneous T&D Maintenance Expense	\$ 931,957	2		\$ - \$ -	- \$	- \$ -	23,026 \$ 0.02471	220,357 \$ 0.23645	- \$ -	128,120 \$ 0.13747	311,864 \$ 0.33463	- \$	248,590 \$ 0.26674	931,957 1.00000	
Fixed O&M	\$ 31,326,516	3		\$ 1,068,841 \$ 0.03360	2,171,593 \$ 0.06827	6,585,318 \$ 0.20703	749,178 \$ 0.02355	7,169,519 \$ 0.22540	- \$	3,842,862 \$ 0.12081	2,726,765 \$ 0.08572	5,320,801 \$ 0.16728	2,173,533 \$ 0.06833	31,808,410 1.00000	
Labor	\$ 27,708,698	4		\$ 285,178 \$ 0.01776	1,690,742 \$ 0.10531	4,526,860 \$ 0.28195	464,709 \$ 0.02894	4,447,195 \$ 0.27699	- \$ -	2,344,699 \$ 0.14604	889,402 \$ 0.05539	692,758 \$ 0.04315	714,101 \$ 0.04448	16,055,644 1.00000	
Net Plant	\$ 2,261,125,417	5		\$ 22,045,617 \$ 0.00975	82,742,632 \$ 0.03661	230,487,454 \$ 0.10198	215,020,959 \$ 0.09514	1,296,948,718 \$ 0.57386	9,223,269 \$ 0.00408	189,765,076 \$ 0.08397	107,855,789 \$ 0.04772	23,170,672 \$ 0.01025	82,767,650 \$ 0.03662	2,260,027,835 1.00000	
Rate Base	\$ 1,668,076,711	6		\$ 18,634,072 \$ 0.01117	69,642,589 \$ 0.04175	194,083,847 \$ 0.11635	162,134,298 \$ 0.09720	896,893,009 \$ 0.53768	7,937,420 \$ 0.00476	155,120,584 \$ 0.09299	79,617,277 \$ 0.04773	18,831,410 \$ 0.01129	65,182,205 \$ 0.03908	1,668,076,711 1.00000	
Variable Cost	\$ 20,435,288			\$ 4,608,894 \$	3,008,720 \$	12,817,674 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	20,435,288	
COS Basis for Utility Reg Asessment				\$ 9,666,588 \$	20,156,483 \$	59,929,041 \$	21,995,680 \$	132,988,746 \$	1,090,886 \$	32,188,856 \$	21,287,645 \$	14,271,780 \$	13,988,720 \$	327,564,425	

MAWC Class Cost of Service Study Case Nos. WR-2022-0303 | SR-2022-0304

Schedule JAY-1 Page 11 of 18

Missouri-American Water Company Cost of Service Study - Usage Statistics

Case No: WR-2022-0303, SR-2022-0304

		Non					Rate F	
	Residential	Residential	Rate J	Rate B	Contracts	Public Fire	Private Fire	Total
Total Usage	230,200,596	76,083,359	32,593,962	16,156,639	24,293,869		522,754	379,851,179 hundred gallons
Average Day Usage	630,687	208,448	89,299	44,265	66,559	-	1,432	1,040,688 hundred gallons
Max Day Capacity Factor	1.97	2.09	1.38	1.24	1.26			
Max Day Usage	1,242,453	435,655	123,265	54,888	83,864	93,091	26,909	2,060,125 hundred gallons
Extra Capacity	611,766	227,208	33,966	10,624	17,305	93,091	25,477	1,019,437 hundred gallons
Fire Allocator						0.7758	0.2242	1.0000 20,000 gpm for 10 hours
Distribution Multiplier	1.00	1.00	0.01037	0.21		1.00	1.00	N/A
Average Hourly Usage	26,279	8,685	39	383	-	-	60	35,446 hundred gallons
Max Hour Capacity Factor	3.98	3.52	1.38	1.24	1.26			
Max Hour Usage	104,589	30,572	53	475	-	13,964	4,036	153,690 hundred gallons
Extra Capacity	78,310	21,887	15	92	-	13,964	3,977	118,244 hundred gallons
Customers	322,445	17,860	135	4	2		7,480	347,926
Hydrants						32,467	38	32,505
Revenue	\$ 167,224,457	\$ 49,403,315 \$	6,252,876 \$	4,232,070 \$	3,977,486		\$ 3,759,239 \$	234,849,443

		Non					Rate F	Meter	Service
	Residential	Residential	Rate J	Rate B	Rate P	Public Fire	Private Fire	Weighting	Weighting
5/8-METER	285,742	7,343	-	-	-		-	1.0	1.0
3/4-METER	24,390	3,049	-	-	-		-	1.5	1.0
1-METER	10,633	2,222	3	-	-		-	2.5	2.9
1.5-METER	757	1,111	-	-	-		-	5.0	4.0
2-METER	1,029	3,329	6	-	-		135	8.0	5.6
3-METER	21	306	3	-	-		1	16.0	5.6
4-METER	25	214	19	-	-		553	25.0	6.4
6-METER	24	204	20	-	-		2,291	50.0	9.9
8-METER	43	241	9	-	-		1,330	80.0	9.9
10-METER	3	57	7	-	-		33	115.0	9.9
12-METER	-	-	-	-	-		82	215.0	12.2
16-METER	-	-	-	-	-		-	320.0	12.2

Missouri-American Water Company Cost of Service Study - Usage Statistics Case No: WR-2022-0303, SR-2022-0304

0.5560	1,871,762 max day - thousand gallons per day
0.5229	1,990,330 max day with fire - thousand gallons per day
0.3738	94,815 max hour - thousand gallons per day
0.3144	112,755 max hour with fire - thousand gallons per day
	0.5229

Mains Statistics

Туре		Pct
Transmission	2,268,236	0.0946
Distribution	21,706,675	0.9054
Total	23,974,911	1.0000

Average system hourly flow on max day Average system hourly flow on max day

Storage Statistics

Total Capacity Fire Allocation Non-Fire Allocation 1,034,700 hundred gallons (2021 annual report) 0.1146 percentage of storage needed for maximum fire protection day 0.8854

> MAWC Class Cost of Service Study Case Nos. WR-2022-0303 | SR-2022-0304

> > Schedule JAY-1 Page 13 of 18

1. VARIABLE COST

		Non					Rate F		
ltem	Residential	Residential	Rate J	Rate B	Rate P	Public Fire	Private Fire	Total	Units
otal Usage	230,200,596	76,083,359	32,593,962	16,156,639	24,293,869	-	522,754	379,851,179	hundred gallons
Allocator	0.6060	0.2003	0.0858	0.0425	0.0640	-	0.0014	1.0000]
2. BASE/EXTRA DAILY									
tom	Residential	Non Residential	Data I	Data D	Data D	Public Fire	Rate F Private Fire	Total	Units
tem werage Daily Use	630,687	208,448	Rate J 89,299	Rate B 44,265	Rate P 66,559	Public Fire	1,432		hundred gallons
	611,766			10,624	17,305	-	1,452		hundred gallons
xtra Capacity	611,766	227,208	33,966	10,624	17,305			900,869	nunured gallons
ystem Capacity Factor	0.5560								
verage Day Allocator	0.3369	0.1114	0.0477	0.0236	0.0356	-	0.0008	0.5560	
Extra Capacity Allocator	0.3015	0.1120	0.0167	0.0052	0.0085	-	-	0.4440	
Allocator	0.6385	0.2233	0.0644	0.0289	0.0441	-	0.0008	1.0000]
3. BASE/EXTRA DAILY (w FIRE PROTECT	ION)								
		Non					Rate F		
tem	Residential	Residential	Rate J	Rate B	Rate P	Public Fire	Private Fire	Total	Units
verage Daily Use	630,687	208,448	89,299	44,265	66,559	-	1,432	1,040,688	hundred gallons
xtra Capacity	611,766	227,208	33,966	10,624	17,305	93,091	25,477	1,019,437	hundred gallons
ystem Capacity Factor	0.5229 a	assuming fire prote	ction						
Average Day Allocator	0.3169	0.1047	0.0449	0.0222	0.0334	-	0.0007	0.5229	
Extra Capacity Allocator	0.2863	0.1063	0.0159	0.0050	0.0081	0.0436	0.0119	0.4771	
Combined Allocator	0.6032	0.2111	0.0608	0.0272	0.0415	0.0436	0.0126	1.0000]
I. BASE/EXTRA HOURLY (w FIRE PROTE	CTION)								
-		Non					Rate F		
tem	Residential	Residential	Rate J	Rate B	Rate P	Public Fire	Private Fire	Total	Units
Average Hourly Use	26,279	8,685	39	383	-	-	60	35,446	hundred gallons
xtra Capacity	78,310	21,887	15	92	-	13,964	3,977	118,244	hundred gallons
ystem Capacity Factor	0.3144 a	assuming fire protec	ction						
Average Day Allocator	0.2331	0.0770	0.0003	0.0034	-	-	0.0005	0.3144	
Extra Capacity Allocator	0.4541	0.1269	0.0001	0.0005	-	0.0810	0.0231	0.6856	

MAWC Class Cost of Service Study Case Nos. WR-2022-0303 | SR-2022-0304

5. STORAGE

		Non					Rate F		
ltem	Residential	Residential	Rate J	Rate B	Rate P	Public Fire	Private Fire	Total	Units
Average Hourly Use	26,279	8,685	3,721	1,844	2,773		60	43,362	
Extra Capacity	78,310	21,887	1,415	443	721			102,776	
Fire Allocator							1.00000	1.00000	
System Capacity Factor	0.3144	assuming fire prote	ction						
Average Day Allocator	0.1905	0.0630	0.0270	0.0134	0.0201		0.0004	0.3144	
Extra Capacity Allocator	0.5224	0.1460	0.0094	0.0030	0.0048			0.6856	
Allocator	0.7129	0.2090	0.0364	0.0163	0.0249		0.0004	1.0000	
Non-Fire Allocation of Storage	0.88541								
Fire Allocaton of Storage	0.11459								
Non-Fire Allocator	0.6312	0.1850	0.0322	0.0145	0.0221	-	0.0004	0.8854	
Fire Allocator	-	-	-	-	-	-	0.1146	0.1146	
Combined Allocator	0.6312	0.1850	0.0322	0.0145	0.0221	-	0.1150	1.0000	
6. MAINS									
		Non					Rate F		
Item	Residential	Residential	Rate J	Rate B	Rate P	Public Fire	Private Fire	Total	Units
Factor 3	0.6032	0.2111	0.0608	0.0272	0.0415	0.0436	0.0126	1.0000	hundred gallons
Factor 4	0.6871	0.2039	0.0004	0.0039	-	0.0810	0.0236	1.0000	hundred gallons
Tranmission Weighting	0.0946	A	verage system hou	Irly load					
Distribution Weighting	0.9054	A	verage system hou	ırly load - max day	with fire protect	tion (incremental)			
Combined Allocator	0.6792	0.2046	0.0061	0.0061	0.0039	0.0774	0.0226	1.0000	
7. HYDRANTS		Non					Rate F		
Item	Residential	Residential	Rate J	Rate B	Rate P	Public Fire	Private Fire	Total	Units
Total Hydrants	-	-	-	-	-	32,467	38	32,505	
Allocator	-	-	-	-	-	0.99883	0.00117	1.00000	

MAWC Class Cost of Service Study Case Nos. WR-2022-0303 | SR-2022-0304

> Schedule JAY-1 Page 15 of 18

8. METERS

		Non					Rate F		
Item	Residential	Residential	Rate J	Rate B	Rate P	Public Fire	Private Fire	Total	Weighting
5/8-METER	285,742	7,343	-	-	-			293,085	1.0
3/4-METER	24,390	3,049	-	-	-			27,439	1.5
1-METER	10,633	2,222	3	-	-			12,858	2.5
1.5-METER	757	1,111	-	-	-			1,868	5.0
2-METER	1,029	3,329	6	-	-			4,364	8.0
3-METER	21	306	3	-	-			330	16.0
4-METER	25	214	19	-	-			258	25.0
6-METER	24	204	20	-	-			248	50.0
8-METER	43	241	9	-	-			293	80.0
10-METER	3	57	7	-	-			67	115.0
12-METER	-	-	-	-	-			-	215.0
16-METER	-	-	-	-	-			-	320.0
Total	366,877	95,959	3,104	-	-		-	465,940	
Allocator	0.78739	0.20595	0.00666	-	-		-	1.00000	

9. SERVICES

		Non					Rate F		
Item	Residential	Residential	Rate J	Rate B	Rate P	Public Fire	Private Fire	Total	Weighting
5/8-METER	285,742	7,343	-	-	-		-	293,085	1.0
3/4-METER	24,390	3,049	-	-	-		-	27,439	1.0
1-METER	10,633	2,222	3	-	-		-	12,858	2.9
1.5-METER	757	1,111	-	-	-		-	1,868	4.0
2-METER	1,029	3,329	6	-	-		135	4,499	5.6
3-METER	21	306	3	-	-		1	331	5.6
4-METER	25	214	19	-	-		553	811	6.4
6-METER	24	204	20	-	-		2,291	2,539	9.9
8-METER	43	241	9	-	-		1,330	1,624	9.9
10-METER	3	57	7	-	-		33	100	9.9
12-METER	-	-	-	-	-		82	82	12.2
16-METER	-	-	-	-	-		-	-	12.2
Total	351,118	47,906	537	-	-		41,525	441,086	
Allocator	0.79603	0.10861	0.00122	-	-		0.09414	1.00000	

10. CUSTOMERS

		Non					Rate F	
Item	Residential	Residential	Rate J	Rate B	Rate P	Public Fire	Private Fire	Total
Total Customers	322,445	17,860	135	4	2		7,480	347,926
Allocator	0.92676	0.05133	0.00039	0.00001	0.00001		0.02150	1.00000

MAWC Class Cost of Service Study Case Nos. WR-2022-0303 | SR-2022-0304

11. METERED CUSTOMERS

		Non					Rate F	
Item	Residential	Residential	Rate J	Rate B	Rate P	Public Fire	Private Fire	Total
Total Customers	322,445	17,860	135	4	2		7,480	347,926
Allocator	0.92676	0.05133	0.00039	0.00001	0.00001		0.02150	1.00000

MAWC Class Cost of Service Study Case Nos. WR-2022-0303 | SR-2022-0304

> Schedule JAY-1 Page 17 of 18

		Source of		Water									
Alloc	Description	Supply	Pumping	Treatment	Transmission	Distribution	Storage	Meters	Services	Customers	Hydrants	Total	Note
A Source	e of Supply	1.00000	-	-	-	-	-	-	-	-	-	1.00000	
B Pumpi	ng	-	1.00000	-	-	-	-	-	-	-	-	1.00000	
C Water	Treatment	-	-	1.00000	-	-	-	-	-	-	-	1.00000	
D Transm	nission	-	-	-	1.00000	-	-	-	-	-	-	1.00000	
E Distrib	ution	-	-	-	-	1.00000	-	-	-	-	-	1.00000	
F Storage	e	-	-	-	-	-	1.00000	-	-	-	-	1.00000	
G Meters	S	-	-	-	-	-	-	1.00000	-	-	-	1.00000	
H Service	es	-	-	-	-	-	-	-	1.00000	-	-	1.00000	
I Custon	ners	-	-	-	-	-	-	-	-	1.00000	-	1.00000	
J Hydrar	nts	-	-	-	-	-	-	-	-	-	1.00000	1.00000	
K Mains		-	-	-	0.09461	0.90539	-	-	-	-	-	1.00000	
1 T/D Op	per. Expense	-	-	-	0.06435	0.61584	-	0.31981	-	-	-	1.00000	
2 T/D Ma	aint Expense	-	-	-	0.02471	0.23645	-	0.13747	0.33463	-	0.26674	1.00000	
3 Fixed C	D&M	0.03360	0.06827	0.20703	0.02355	0.22540	-	0.12081	0.08572	0.16728	0.06833	1.00000	
4 Labor		0.01776	0.10531	0.28195	0.02894	0.27699	-	0.14604	0.05539	0.04315	0.04448	1.00000	
5 Net Pla	ant (less gen. and int.)	0.00975	0.03661	0.10198	0.09514	0.57386	0.00408	0.08397	0.04772	0.01025	0.03662	1.00000	
6 Rate B	ase	0.01117	0.04175	0.11635	0.09720	0.53768	0.00476	0.09299	0.04773	0.01129	0.03908	1.00000	

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			Non					Rate F	
Alloc	Description	Residential	Residential	Rate J	Rate B	Rate P	Public Fire	Private Fire	Total
1 Total	Usage	0.60603	0.20030	0.08581	0.04253	0.06396	-	0.00138	1.00000
2 Base/	'Extra Daily	0.63847	0.22335	0.06445	0.02888	0.04409	-	0.00077	1.00000
3 Base/	'Extra Daily w/ Fire	0.60320	0.21107	0.06076	0.02721	0.04154	0.04357	0.01264	1.00000
4 Base/	'Extra Hourly w/ Fire	0.68714	0.20394	0.00043	0.00393	-	0.08097	0.02359	1.00000
5 Stora	ge	0.63124	0.18503	0.03224	0.01445	0.02206	-	0.11497	1.00000
7 Hydra	ants	-	-	-	-	-	0.99883	0.00117	1.00000
8 Mete	rs	0.78739	0.20595	0.00666	-	-	-	-	1.00000
9 Servio	ces	0.79603	0.10861	0.00122	-	-	-	0.09414	1.00000
10 Custo	omers	0.92676	0.05133	0.00039	0.00001	0.00001	-	0.02150	1.00000
								-	
								-	
								-	

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MAWC Class Cost of Service Study Case Nos. WR-2022-0303 | SR-2022-0304

> Schedule JAY-1 Page 18 of 18

MIEC 3-01

DATA INFORMATION REQUEST Missouri-American Water Company WR-2022-0303 General Rate Case

Requested From: Brian LaGrand

Date Requested: 11/14/2022

Information Requested:

Please refer to Schedule WES-1, page 1, Summary tab.

- a. Please explain why Power and Pumping expenses have been allocated using Factor 2 in the current study, when historically they have been allocated using Factor 3.
- b. Please confirm that the class cost of service study ("CCOSS") indicates that an 88.2% increase is needed for the St. Louis County Rate J class to reach cost of service.
- c. Please provide a detailed explanation of the drivers of the 88.2% increase for Rate J in St. Louis County.
- d. Please confirm that, according this CCOSS, the St. Louis County Rate J class requires an increase equal to 2.14 times the system average increase to reach cost of service (i.e., 88.2% / 41.2%). If the response is anything other than an unqualified confirmation, please provide a detailed explanation supporting the response.

Requested By: Jamie Reifsteck – jreifsteck@chgolaw.com

Information Provided:

- a. The use of Factor 2 for the allocation of Power and Pumping expenses was inadvertent. MAWC has acknowledged in prior proceedings that Factor 3 is appropriate for the allocation of these expenses.
- b. As shown on Schedule WES-1, Page 1, an increase of 88.2% is needed to bring the Rate J rate class in MAWC's St. Louis County service territory to its cost of service.
- c. Please see the Company's revenue requirement schedules and supporting direct testimony. Since the Company's last base rate case in 2020, MAWC has or will invest approximately \$769 million of capital by the operation of law date in this case. These investments enhance the safety, reliability and resiliency of Missouri-American's water and wastewater system, support customer service, and maintain the health, welfare, and economic wellbeing of the communities we serve.

d. As shown on Schedule WES-1, Page 1, the St. Louis County Rate J class requires an increase of 88.2%. Also shown on the same schedule is the system average increase for MAWC's St. Louis County service territory which is 41.2%.

Responsible Witness: Wes Selinger

MIEC 2-05

DATA INFORMATION REQUEST Missouri-American Water Company WR-2022-0303 General Rate Case

Requested From: Brian LaGrand

Date Requested: 11/03/2022

Information Requested:

Please refer to the direct testimony of Mr. Selinger at page 11, lines 10-13.

a. In electronic spreadsheet format with all formulas intact, please provide the calculations used to estimate the percentage of water sales served to each class in St. Louis County directly from the transmission system.

b. In electronic spreadsheet format with all formulas intact, please provide the calculations used to estimate the percentage of water sales served to each class outside of St. Louis County directly from the transmission system.

c. For each customer that takes service under Rate J in St. Louis County, please identify the size of mains used to provide service that customer, and the test year water usage associated with each main size serving that customer.

d. For each customer that takes service under Rate J outside of St. Louis County, please identify the size of mains used to provide service that customer, and the test year water usage associated with each main size serving that customer.

Requested By: Jamie Reifsteck – jreifsteck@chgolaw.com

Information Provided:

CONFIDENTIAL - The information provided is deemed "Confidential" in accordance with Commission Rule 20 CSR 4240-2.135(2)(A) 1, as it contains customer specific information. We ask that confidentiality be maintained consistent with that Rule and/or Section 386.480 RSMo, as the case may be.

- a. Please refer to the file called "Distribution Multiplier Support MO COSS" file that was provided in the Company's response to MoPSC 0243.
- b. Please see response to (a) above.
- c. Please see 2022 GRC MIEC 02-5_Attachement 1 CONFIDENTIAL.
- d. Please see the response to (c) above.

Responsible Witness: Wes Selinger

Redacted Schedule JAY-2 Page 4 of 8

MoPSC 0243

DATA INFORMATION REQUEST Missouri-American Water Company WR-2022-0303 General Rate Case

Requested From:	Brian LaGrand
Date Requested:	09/28/2022
Information Requested:	
Please provide a copy of Mr. Re intact.	a's direct workpaper, "MO COSS All Other Water" with all formulas
Requested By:	Keri Roth – Keriann.roth@psc.mo.gov
Information Provided:	
The requested files have been p	provided to Staff electronically.
Responsible Witness:	Wesley Selinger

MIEC 3-04

DATA INFORMATION REQUEST Missouri-American Water Company WR-2022-0303 General Rate Case

Requested From:Brian LaGrandDate Requested:11/14/2022

Information Requested:

Please refer to Schedule WES-1, Account Detail Tab, page 2 of 9.

- a. Regarding Transmission and Distribution ("T&D") Operation and Maintenance ("O&M") expense, please identify the account(s) in which these expenses are recorded. Please indicate whether they are recorded in a single account, or whether they are tracked and recorded in separate accounts.
- b. Please confirm that the separation of T&D O&M expense between functions (i.e., Transmission, Distribution, Meters, and Services) reflects an estimate of the cost by function based on an allocation factor, rather than the actual cost by function. If the response is anything other than an unqualified confirmation, please provide a detailed explanation supporting the response.
- c. Please provide a detailed explanation for allocating the T&D Operating expense across functions based on Misc. T&D Operating Expense.
- d. Please provide a detailed explanation for allocation the T&D Maintenance expense across functions based on Misc. T&D Maintenance Expense.
- e. Please confirm that the Misc. T&D Operating Expense, and Misc. T&D Maintenance Expense has been split between the Transmission and Distribution functions based on an allocation factor related to mains, rather than actual costs that are tracked and recorded by function. If the response is anything other than an unqualified confirmation, please provide a detailed explanation supporting the response.

Requested By:

Jamie Reifsteck – jreifsteck@chgolaw.com

Information Provided:

Please also refer to Schedule WES-1, Account Detail Tab, page 2 of 9.

- a. Please see the attached file "2022 GRC MIEC 3-04_Attachment 1." Costs in Transmission and Distribution expense (both operating and miscellaneous) are costs that are not directly assigned to any particular T&D function but are generally assigned to T&D activities. They are therefore allocated to the specific transmission, distribution, meters, and services functions based on all of the directly assigned operation and maintenance costs to those functions.
- b. The separation of transmission and distribution operation and maintenance expense between functions is done with the use of an allocation factor. Please see the response to (a) above.
- c. Main costs are not directly assigned in the accounting system between Transmission and Distribution. Mains costs are allocated based on the number of miles of main in the MAWC system as shown on the usage statistics tab.
- d. Please see the response to (c) above.
- e. Please see the responses to (c) and above.

Responsible Witness: Wes Selinger

Missouri American Water

		Alternative Account	Rate Year			
Account#	Full Account Name	No.	(Water)	Category (1)	Category (2)	Category (3)
50101400	50101400 Labor Oper Transmission & Distribution	A665	\$ 4,083,963.00	Operations Expense	General T/D	Salaries and Wages
50101405	50101405 Labor Oper Trans & Distr - Super & Eng	A660	\$ 65,770.00	Operations Expense	General T/D	Salaries and Wages
50102400	50102400 Labor Maint Transmission & Distribution	A678	\$ 1,360,828.00	Maintenance Expense	General T/D	Salaries and Wages
50102405	50102405 Labor Maint Transmssn & Distr - Super & Eng	A670	\$ 55,479.00	Maintenance Expense	General T/D	Salaries and Wages
50111400	50111400 Labor Oper Non-scheduled Overtime- TD	A665	\$ 429,282.00	Operations Expense	General T/D	Salaries and Wages
50111405	50111405 Labor Oper Non-scheduled Overtime- TD Super & Eng	A660	\$ 254.00	Operations Expense	General T/D	Salaries and Wages
50112400	50112400 Labor Maint Non-scheduled Overtime- TD	A678	\$ 311,461.00	Maintenance Expense	General T/D	Salaries and Wages
50112405	50112405 Labor Maint Non-scheduled Overtime- TD Super & Eng	A670	\$ 32.00	Maintenance Expense	General T/D	Salaries and Wages
50121400	50121400 Labor Oper Scheduled Overtime-TD	A665	\$ 37,144.00	Operations Expense	General T/D	Salaries and Wages
50122400	50122400 Labor Maint Scheduled Overtime-TD	A678	\$ 14,196.00	Maintenance Expense	General T/D	Salaries and Wages
50450014	50450014 Other Welfare - Transm & Distrib	A926	\$ 10,863.00	Operations Expense	General T/D	Employee Benefits
51510014	51510014 Purchased Power - Transmission & Distribution	A665	\$ 457,785.00	Operations Expense	General T/D	Fuel and Power
52001400	52001400 M & S Oper - Transmission & Distribution	A665	\$ 55,062.00	Operations Expense	General T/D	Materials & Supplies
52501400	52501400 Misc Oper - Transmission & Distribution	A665	\$ 44,632.00	Operations Expense	General T/D	Miscellaneous
52532014	52532014 Electricity - Transmission & Distribution	A665	\$ 11,255.00	Operations Expense	General T/D	Building Maintenance and Services
52546014	52546014 Grounds Keeping - Transmission & Distribution	A665	\$ 82,097.00	Operations Expense	General T/D	Building Maintenance and Services
52548014	52548014 Heating Oil/Gas - Transmission & Distribution	A665	\$ 12,730.00	Operations Expense	General T/D	Building Maintenance and Services
52550014	52550014 Janitorial - Transmission & Distribution	A665	\$ 24,221.00	Operations Expense	General T/D	Building Maintenance and Services
52562014	52562014 Office & Admin Supplies - Transmssn & Distr	A665	\$ 9,369.00	Operations Expense	General T/D	Office supplies and services
52562514	52562514 Overnight Shipping - Transmission & Distribution	A665	\$-	Operations Expense	General T/D	Office supplies and services
52571014	52571014 Security Service - Transmission & Distribution	A665		Operations Expense	General T/D	Building Maintenance and Services
52574014	52574014 Telephone - Transmission & Distribution	A665	\$ 57,522.00	Operations Expense	General T/D	Telelcommunications
52574114	52574114 Cell Phone - Transmission & Distribution	A665	\$ 13,740.00	Operations Expense	General T/D	Telelcommunications
52574314	52574314 Wireless - Service First-Transmission&Distribution	A665		Operations Expense	General T/D	Telelcommunications
52578014	52578014 Trash Removal - Transmission & Distribution	A665	\$ 2,062.00	Operations Expense	General T/D	Building Maintenance and Services
52582014	52582014 Uniforms - Transmission & Distribution	A665	\$ 35,531.00	Operations Expense	General T/D	Office supplies and services
52583014	52583014 Water & WW - Transmission & Distribution	A665	\$ 1,048.00	Operations Expense	General T/D	Building Maintenance and Services
53110014	53110014 Contract Svc-Eng - Transmission & Distribution	A923	\$ 37,650.00	Operations Expense	General T/D	Contract Services - Eng
53150014	53150014 Contract Svc-Other - Transmission & Distribution	A923	\$ 1,259,667.00	Operations Expense	General T/D	Contract Services - Other
53151014	53151014 Contract Svc-Temp Empl - Transmssn & Distr	A923	\$ 2,954.00	Operations Expense	General T/D	Contract Services - Other
54110014	54110014 Rents-Real Property - Transmission & Distribution	A666	\$ 163.00	Operations Expense	General T/D	Rents-Property
54140014	54140014 Rents-Equipment - Transmission & Distribution	A666	\$ 4,144.00	Operations Expense	General T/D	Rents-Equipment
55000014	55000014 Transportation Oper - Transmission & Distribution	A662	\$ 196,349.00	Operations Expense	General T/D	Transportation
55000024	55000024 Transportation Maint - Transmission & Distribution	A673	\$ 958,837.00	Maintenance Expense	General T/D	Transportation
62002400	62002400 M&S Maint - Transmission & Distribution	A678	\$ 1,017,496.00	Maintenance Expense	General T/D	Materials & Supplies
62502400	62502400 Misc Maint - Transmission & Distribution	A678	\$ 72,421.00	Maintenance Expense	General T/D	Miscellaneous
62512400	62512400 Amort Def Maint - Transmission & Distribution	A678	\$ 37,011.00	Maintenance Expense	General T/D	Miscellaneous
62520700	62520700 Misc Maint Paving/Backfill	A673	\$ 925,600.00	Maintenance Expense	General T/D	Miscellaneous
62520800	62520800 Misc Maint Permits - Natural Account	A678		Maintenance Expense	General T/D	Miscellaneous
62520824	62520824 Misc Maint Permits - Transmission & Distribution	A678	\$ 82,356.00	Maintenance Expense	General T/D	Miscellaneous
63110024	63110024 Contract Svc-Eng Maint - Transmission & Distr	A923	\$ 94,411.00	Maintenance Expense	General T/D	Contract Services - Eng
63150024	63150024 Contract Svc-Other Maint - Transmission & Distr	A923	\$ 2,286,428.00	Maintenance Expense	General T/D	Contract Services - Other

Missouri American Water Company

Company Full Certificated Name

Do not abbreviate; include any Commission approved AKA/DBA/Fictitious Name, if applicable.

WATER and/or SEWER ANNUAL REPORT

LARGE COMPANY

(with 8,000 or more customers)

TO THE

MISSOURI PUBLIC SERVICE COMMISSION

For the calendar year of

January 1 - December 31, 2021

This filing is required pursuant to Commission Rule 20 CSR 4240-10.145 and/or Section 393.140, RSMo.

Please indicate which type of service the Company is <u>certificated</u> to provide by checking the appropriate box(es). (*Check all that apply.*)

☑ Water Service Provider

⊡ Sewer Service Provider

Please choose <u>one</u> of the following filing type options:

- Public Submission (NOT Confidential)
- Non-Public Submission (Confidential / Filed Under Seal) For this filing to be considered Confidential, additional submission of materials is required pursuant to Commission Rule 20 CSR 4240-2.135.

Excel Issue Date: 12/12/2019

(To be used when filing under seal.)

TABLE OF CONTENTS

CLA	ASSIFICATION	PAGE	CLASSIFICATION	PAGE
ACCUMULATED DEFERRED INCOME TAXES - ACCELERATED	-A-	<u>F-34</u>	.p. PAYABLES TO ASSOCIATED COMPANIES	E 27
ACCUMULATED DEFERRED INCOME TAXES - LIBERALIZED DE		<u>F-35</u>	PREPAYMENTS	<u>F-27</u>
ACCUMULATED DEFERRED INCOME TAXES - OTHER	TREGETOR	F-36	PROPERTY INSURANCE AND INJURIES AND DAMAGES RESERVES	<u>F-21</u> F-37
ACCUMULATED DEFERRED INCOME TAXES - TOTAL OF ACCO	NUNTS 281-283	F-36	-R-	<u></u>
ACCUMULATED DEFERRED INVESTMENT TAX CREDITS		<u>F-33</u>	RECONCILIATION OF REPORTED NET INCOME WITH TAXABLE INCOME FOR INCOME TAXES	F-29
ACCUMULATED PROVISION FOR DEPRECIATION & AMORTIZA PROPERTY	TION OF NONUTILITY		RETAINED EARNINGS	F-25
ACCUMULATED PROVISION FOR UNCOLLECTIBLE ACCOUNTS		<u>F-18</u> <u>F-20</u>	-S- SECURITY HOLDERS AND VOTING POWERS	<u>F-7</u>
ADVANCES FOR CONSTRUCTION		<u>F-30</u>	STATEMENT OF CHANGES IN FINANCIAL POSITION	F-15
	-8-	1.00	STATEMENT OF UNDER THE YEAR	F-13
BALANCE SHEET - EQUITY CAPITAL, LIABILITIES AND OTHER		<u>E-11</u>	STATEMENT OF RETAINED EARNINGS FOR THE YEAR	E-14
BALANCE SHEET - UTILITY PLANT, ASSETS AND OTHER DEBI	TS	<u>F-10</u>	.Ţ.	
CAPITAL STOCK ACCOUNTS AT END OF YEAR	-C-	<u>F-24</u>	TAXES ACCRUED	<u>F-28</u>
COMMON UTILITY PLANT AND ACCUMULATED DEPRECIATION	i	F-43	-U- UNAMORTIZED DEBT DISCOUNT AND EXPENSE AND PREMIUM ON DEBT	E-21
CLEARING ACCOUNTS		<u>F-22</u>	UTILITY PLANT ACQUISITION ADJUSTMENTS AND RELATED ACCUMULATED	
CONSTRUCTION OVERHEADS		<u>F-23</u>		<u>F-16</u>
CONSTRUCTION WORK IN PROGRESS		E-17.	UTILITY PLANT AND ACCUMULATED DEPRECIATION	<u>F-16</u>
CONTRIBUTIONS IN AID OF CONSTRUCTION		<u>F-37</u>	UTILITY PLANT HELD FOR FUTURE USE	<u>F-17</u>
CORPORATE CONTROL OVER RESPONDENT		<u>F-5</u>	UTILITY PLANT LEASED TO OTHERS	<u>F-16</u>
CORPORATIONS CONTROLLED BY RESPONDENT		<u>E-8</u>	-SEWER- DEPRECIATION RESERVE - SEWER UTILITY PLANT	<u>8-7</u>
DIRECTORS	-D-		DETAIL OF CERTAIN GENERAL EXPENSE ACCOUNTS (Sewer)	<u>8-4</u>
		E4	DETAIL OF CERTAIN GENERAL EXPENSE ACCOUNTS (Sewer) (cont.)	<u>8-5</u>
DISTRIBUTION OF SALARIES AND WAGES		<u>F-42</u>	GENERAL INFORMATION	<u>5-8</u>
-G-		<u>F-31</u>	SEWER INFORMATION - PUMPING EQUIPMENT, SERVICE CONNECTIONS, COLLECTING, INTERCEPTOR, FORCE MAINS AND MAINFOLES	<u>S-9</u>
GAIN OR LOSS ON DISPOSITION OF PROPERTY		<u>F-40</u>	SEWER OPERATING REVENUES	<u>5-1</u>
GENERAL INFORMATION		E-1 E-2	SEWER OPERATING AND MAINTENANCE EXPENSES	<u>5-2</u>
		-	SEWER OPERATING AND MAINTENANCE EXPENSES (cont.)	5-3
IMPORTANT CHANGES DURING THE YEAR	•	<u>F-9</u>	SEWER UTILITY PLANT IN SERVICE	S-6
INCOME FROM MERCHANDISING, JOBBING AND CONTRACT W	IORK	<u>F-38</u>	-WATER-	-
INCOME FROM UTILITY PLANT LEASED TO OTHERS AND		<u>F-38</u>	DEPRECIATION RESERVE - WATER UTILITY PLANT	<u>W-11</u>
INTERCORPERATE TRANSACTIONS		<u>F-6</u>	DETAIL OF CERTAIN GENERAL EXPENSE ACCOUNTS (Water)	<u>W-8</u>
INTEREST ACCRUED		<u>F-27</u>	DETAIL OF CERTAIN GENERAL EXPENSE ACCOUNTS (Water) (cont.)	<u>W-9</u>
INTEREST CHARGES		<u>F-41</u>	FEET OF TRANSMISSION AND DISTRIBUTION MAINS	<u>W-14</u>
INTEREST AND DIVIDEND INCOME		<u>F-39</u>	HYDRANTS	<u>W-15</u>
INVESTMENTS AND FUNDS		<u>F-19</u>	INTERDEPARTMENTAL SALES	<u>W-4</u>
INVESTMENT TAX CREDITS GENERATED AND UTILIZED		<u>F-32</u>	METERS	<u>W-15</u>
LONG-TERM DEBT	-L-	F-26	POWER, PUMPING AND PURCHASED WATER STATISTICS	<u>W-16</u>
	-M-		PUMPING STATION EQUIPMENT	<u>W-17</u>
MATERIALS AND SUPPLIES		<u>F-21</u>	RENTS FROM WATER PROPERTY	<u>W-4</u>
MISCELLANEOUS CURRENT AND ACCRUED LIABILITIES		E-27.	RESERVOIRS, STANDPIPES, PRESSURE TANKS AND PURIFICATION SYSTEMS	<u>W-12</u>
MISCELLANEOUS DEFERRED DEBITS		<u>F-21</u>	SALES FOR RESALE SALES OF WATER - BY COMMUNITIES	<u>W-3</u>
NON-OPERATING RENTAL INCOME	-N-	<u>F-39</u>	SALES OF WATER - BI COMMUNITIES	<u>W-2</u> W-14
NON-UTILITY PROPERTY		<u>F-18</u>	SOURCES OF WATER SUPPLY	<u>W-13</u>
NOTES AND ACCOUNTS RECEIVABLE		<u>F-20</u>	WATER OPERATING REVENUES	<u>W-1</u>
NOTES AND EXPLANATIONS RELATING TO TAXES		<u>F-30</u>	WATER OPERATION AND MAINTENANCE EXPENSES	<u>W-1</u> W-5
NOTES PAYABLE		<u>F-25</u>	WATER OPERATION AND MAINTENANCE EXPENSES (cont.)	W-6
NOTES TO BALANCE SHEET		E-12	WATER PURCHASING FOR RESALE	<u>W-7</u>
OFFICERS	-0-	E-3	WATER UTILITY PLANT IN SERVICE	<u>W-10</u>
OPERATING RESERVES		<u>F-37</u>	WELLS / PUMPS	<u>W-18</u>
OTHER CAPITAL LIABILITY		<u>F-24</u>	VERIFICATION PAGE	<u>VP</u>
OTHER INCOME AND DEDUCTIONS		E-41		
OTHER PAID-IN-CAPITAL		<u>F-25</u>		

St. Louis			Missouri American W For the Year Ended De				
			Feet of Transmission &				
				ed During Year		Retirements During the	
Kind of Pipe	Diameter in Inches	In Use first of year	New Mains	Replacements	Total	Year	
DI, CI, HDPE, PVC	16	430,174.6		18,150.0	18,150.0	11,436.0	In Use at the end of the year 436,888.6
DI, CI	18	1,106.3		-	-		1,106.3
DI, CI, PVC	20	814,957.5		6,451.0	6,451.0	3,579.0	817,829.5
DI, CI, HDPE	24	386,149.2		5,088.0	5,088.0	2,324.0	388,913.2 263,989.4
DI, CI	30	262,356.4		4,224.0	4,224.0	2,591.0	263,989.4
HDPE	32	1,275.0		-	-		1,275.0 276,499.2
DI, CI, AC	36	276,516.2		-	-	17.0	276,499.2
DI, CI	42	69,709.4		-	-		69,709.4
Gal	54	89.0		-	-		89.0
DI, CI, AC	54	6,998.5		-	-		6,998.5
DI, CI, AC	60	4,938.3		-	-		4,938.3
Total Transmission		2,254,270.4	-	33,913.0	33,913.0	19,947.0	2,268,236.4
DI, CI, PVC, AC, Galv	4	488,444.4		575.0	575.0	10,193.0	478,826.4
DI, CI, PVC, AC	6	11,754,700.8	1,477.0	18,109.0	19,586.0	172,990.0	11,601,296.8
DI, CI, PVC, AC	8	6,706,828.0	7,077.0	136,933.0	144,010.0	51,149.0	6,799,689.0 25,192.3
HDPE	8	23,243.3		1,949.0	1,949.0		25,192.3
DI, CI, PVC	10	50,497.6		47.0	47.0	426.0	50,118.6
DI, CI, PVC	12	2,666,465.0	3,482.0	69,657.0	73,139.0	28,704.0	2,710,900.0
HDPE	12	11,343.2		1,679.0	1,679.0		13,022.2
DI,CI, PVC, Galv	3 or less	27,900.3		73.0	73.0	986.0	26,987.3
Misc		642.2			-		642.2
Total Distribution		21,730,064.8	12,036.0	229,022.0	241,058.0	264,448.0	21,706,674.8

Total Distribution	21,730,	12,030.0	229,022.0	241,058.0	204,440.0	21,700,074.0		
		SERVICES						
			Utility Owned Services In Use					
Size and Kir (a)		Beginning of Year (b)	Added During the Year (c)	Removed or Disconnected During the Year (d)	End of Year (e)	Services In Use at End of Year not Included in Plant Accts. (f)		
1" Copper 1-1/2" Copper		122 46	1,543 200		1,665 246			
1-1/4" Copper		48	200		12			
2" Copper		6	40		46			
3/4" Copper		25	560		585			
12" Ductile Iron		-	3		3			
8" Ductil Iron		1	19		20			
6" Ductile		1	14		15			
4" Ductile Iron		-	6		6			
Total		205	2,393	-	2,598	-		

Indicates formula cell.