RESPONSE TO

PUBLIC ADVOCATE'S INTERROGATORIES

AND

REQUESTS FOR PRODUCTION OF DOCUMENTS

QUESTION 1

Dated: May 2025

1	PA-XVI-1.	PLEASE PROVIDE THE SUPPORTING CALCULATIONS USED TO DERIVE
2		THE DATA POINTS SHOWN ON THE GRAPHS ON PAGE 11 OF PWD
3		REBUTTAL STATEMENT 1R.
4		
5		
6	RESPONSE	:
7	Please	e refer to response attachment PA-XVI.
8		
9	As sta	ated in PA St. 1, the Public Advocate's proposed approach to projecting billed
10	volum	ne per account projection would utilize the three-year average usage per account and
11	the thi	ree-year average annual growth rate. The graphs, as presented on page 11 of Rebuttal
12	Staten	ment 1R, compare the application of the Public Advocate's methodology with actual
13	results	S.
14		
15	RESPONSE	PROVIDED BY: Black & Veatch Management Consulting, LLC
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		

Response PA-XVI-1 Attachment

Purpose:

Based on historical data provide a comparison of the Public Advocate proposed water sales per account projection methodology (Historical three-year average projected based on three-year average annual growth rate) with actual results.

Line	Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
	23003.										
	General Service - Residential										
1	Water - Billed Volume (Mcf) 5/8" Meter	2,864,109	2,794,005	2,773,962	2,740,574	2,656,052	2,643,962	2,691,813	2,658,509	2,624,958	2,619,148
2	> 5/8" Meter	356,604	352,830	361,200	358,904	358,036	365,628	388,632	394,841	402,629	391,607
3	Total General Service (Residential)	3,220,713	3,146,835	3,135,162	3,099,478	3,014,087	3,009,590	3,080,445	3,053,350	3,027,588	3,010,755
	Accounts										
4	5/8" Meter	403,992	410,847	411,896	418,816	413,482	411,877	420,516	422,630	418,466	421,790
5	> 5/8" Meter	4,827	5,524	6,670	7,688	8,885	9,851	10,962	12,542	13,802	15,183
6	Total General Service (Residential)	408,819	416,371	418,566	426,504	422,367	421,728	431,478	435,172	432,268	436,973
	Average Usage per Account (Mcf/Account)										
7	5/8" Meter	7.09	6.80	6.73	6.54	6.42	6.42	6.40	6.29	6.27	6.21
8	> 5/8" Meter	73.88	63.87	54.15	46.68	40.30	37.12	35.45	31.48	29.17	25.79
9	Total General Service (Residential)	7.88	7.56	7.49	7.27	7.14	7.14	7.14	7.02	7.00	6.89
	TOTAL RETAIL										
10	Water - Billed Volume (Mcf)	6,214,832	6,139,002	6,094,673	5,956,039	5,904,975	5,833,763	5,681,907	5,820,175	5,826,662	5,671,351
11	Accounts	479,091	487,410	491,817	500,583	498,048	496,034	505,996	510,960	507,709	512,937
12	Average Usage per Account (Mcf/Account)	12.97	12.60	12.39	11.90	11.86	11.76	11.23	11.39	11.48	11.06
		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
	Total Residential Usage per Account										
L3	Actual	7.88	7.56	7.49	7.27	7.14	7.14	7.14	7.02	7.00	6.89
1 /1	Data Based on Public Advocate Proposed Projection Method										
.4					7.41	7.26	7.18	7.14	7.10	7.05	6.97
14	Total Usage per Account				7.41	7.26	7.18				
	Total Usage per Account Actual	12.97	12.60	12.39	7.41 11.90	7.26 11.86	7.18 11.76				6.97
i	- 1	12.97	12.60	12.39				7.14	7.10	7.05	6.97 11.06
5	Actual	12.97	12.60	12.39	11.90	11.86	11.76	7.14 11.23	7.10 11.39	7.05 11.48	6.97 11.06
15	Actual Data Based on Public Advocate Proposed Projection Method Growth Factor Calculations Residential Usage	12.97	12.60	12.39	11.90 12.15	11.86 12.03	11.76 11.84	7.14 11.23 11.61	7.10 11.39 11.46	7.05 11.48 11.37	6.97 11.06 11.31
.5 .6	Actual Data Based on Public Advocate Proposed Projection Method Growth Factor Calculations Residential Usage BV formula - 3 Year Average Growth	12.97	12.60	12.39	11.90 12.15 -2.65%	11.86 12.03 -1.90%	11.76 11.84 -1.60%	7.14 11.23 11.61 -0.59%	7.10 11.39 11.46	7.05 11.48 11.37 -0.62%	6.97 11.06 11.31 -1.18%
5 6 7 8	Actual Data Based on Public Advocate Proposed Projection Method Growth Factor Calculations Residential Usage BV formula - 3 Year Average Growth Annual % Change	12.97	12.60	12.39	11.90 12.15 -2.65% -2.98%	11.86 12.03 -1.90% -1.80%	11.76 11.84 -1.60% 0.00%	7.14 11.23 11.61 -0.59% 0.04%	7.10 11.39 11.46 -0.56% -1.72%	7.05 11.48 11.37 -0.62% -0.18%	6.97 11.06 11.31 -1.18% -1.63%
5 6 7 8	Actual Data Based on Public Advocate Proposed Projection Method Growth Factor Calculations Residential Usage BV formula - 3 Year Average Growth Annual % Change 3 year Average of Annual % change	12.97	12.60	12.39	11.90 12.15 -2.65%	11.86 12.03 -1.90%	11.76 11.84 -1.60%	7.14 11.23 11.61 -0.59%	7.10 11.39 11.46	7.05 11.48 11.37 -0.62%	6.97 11.06 11.31 -1.18% -1.63%
16 17 18 19	Actual Data Based on Public Advocate Proposed Projection Method Growth Factor Calculations Residential Usage BV formula - 3 Year Average Growth Annual % Change	12.97	12.60	12.39	11.90 12.15 -2.65% -2.98%	11.86 12.03 -1.90% -1.80%	11.76 11.84 -1.60% 0.00%	7.14 11.23 11.61 -0.59% 0.04% -0.59% -1.91%	7.10 11.39 11.46 -0.56% -1.72%	7.05 11.48 11.37 -0.62% -0.18% -0.62% -0.81%	6.97 11.06 11.31 -1.18% -1.63% -1.18%
15 16 17 18	Actual Data Based on Public Advocate Proposed Projection Method Growth Factor Calculations Residential Usage BV formula - 3 Year Average Growth Annual % Change 3 year Average of Annual % change Total Usage	12.97	12.60	12.39	11.90 12.15 -2.65% -2.98% -2.98%	11.86 12.03 -1.90% -1.80% -2.39%	11.76 11.84 -1.60% 0.00% -1.59%	7.14 11.23 11.61 -0.59% 0.04% -0.59%	7.10 11.39 11.46 -0.56% -1.72% -0.56%	7.05 11.48 11.37 -0.62% -0.18% -0.62%	6.97







