CAPITAL ASSET PRICING MODEL (CAPM) COST OF COMMON EQUITY ESTIMATES FOR WATER PEER GROUP BASED ON KROLL'S GUIDANCE

(2)

(3)

(4)

(1)

			Kroll	CAPM
	D&P Recommended		Equity	Cost of
	Risk-free		Risk	Common
Company Name	Rate	Beta	Premium	Equity
American Water Works Company	3.90%	0.89	6.00%	9.22%
American States Water Company	3.90%	0.58	6.00%	7.38%
California Water Service Group	3.90%	0.60	6.00%	7.47%
Essential Utilities, Inc.	3.90%	0.85	6.00%	8.97%
Middlesex Water Company	3.90%	0.71	6.00%	8.18%
SJW Group	3.90%	0.74	6.00%	8.32%
Average		0.73		8.26%

Column 1 = Kroll (previously Duff & Phelps) Most Recent Guidance on Normalized Risk-free Rate as of October 18, 2022

Column 2 = Beta is a measure of the movement and relative risk of an individual stock to the market as a whole. I used a template provided by S&P Market Intelligence that calculates raw betas based on the Value Linen approach. This approach measures the covariance of the company's weekly returns with that of the S&P 500 divided by the variance of the S&P 500 returns over an historical 5 year period. This raw beta is then adjusted by the Blume formula, which is the following: Adjusted Beta = 0.35 + 0.67 * Unadjusted Beta

Column 3 = Kroll (previously Duff & Phelps) guidance as of October 18, 2022 on equity risk premium to be used in conjunction with a normalized risk-free rate of 3.5% or actual 20-year UST yield if above 3.5%. 20221018 ERP-Rfr-Tables v03.xlsx (kroll.com)

Column 4 = (Column 1 + (Column 2 * Column 3)).