RESPONSE TO

PUBLIC ADVOCATE'S ADVANCED INTERROGATORIES

AND

REQUESTS FOR PRODUCTION OF DOCUMENTS

QUESTIONS 1 - 14

Dated: January 2021

RESPONSE TO PUBLIC ADVOCATE'S ADVANCED INTERROGATORIES AND REQUESTS FOR PRODUCTION OF DOCUMENTS

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- PA-ADV-1. PROVIDE THE FOLLOWING INFORMATION BY NINE-DIGIT ZIP CODE:
 - A. THE NUMBER OF HOUSEHOLDS ENROLLED IN SERVICE AS OF MARCH 1, 2019, SEPTEMBER 1, 2019, MARCH 1, 2020, AND SEPTEMBER 1, 2020;
 - B. THE NUMBER OF HOUSEHOLDS IN ARREARS AS OF MARCH 1, 2019, SEPTEMBER 1, 2019, MARCH 1, 2020, AND SEPTEMBER 1, 2020;
 - C. THE NUMBER OF HOUSEHOLDS WHOSE SERVICE HAS BEEN TERMINATED AS OF MARCH 1, 2019, SEPTEMBER 1, 2019, MARCH 1, 2020, AND SEPTEMBER 1, 2020; AND
 - D. THE NUMBER OF HOUSEHOLDS RECEIVING ASSISTANCE AS OF MARCH 1, 2019, SEPTEMBER 1, 2019, MARCH 1, 2020, AND SEPTEMBER 1, 2020.

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- 17 **RESPONSE:**
 - Please note that much of the data and reports provided in response to the enclosed interrogatories were not used directly in the Cost of Service analysis. The requested data and reports were developed in response to questions asked by the Public Advocate. Rate Proceeding Participants should refer to PWD Statements 6, 7A, and 7B for information regarding the data used as the basis for or in support of the development of the Water Department's proposed rates and charges and related matters.
 - A. Attachment PA-ADV-1 Attachment A includes a count of households enrolled in service for each 5-digit zip code. Nine-digit zip code data were unavailable. Households enrolled in service are defined as general service residential (including TAP) and senior citizen discount water accounts which were billed for service in the preceding month. That is, accounts are only counted as enrolled in service as of March 1, 2019 if they received a bill

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during February 2019. The methodology aligns with the way accounts are counted in other cost of service reports. The following data (in B, C, and D below) are also limited to households enrolled in service as defined here. Attachment PA-ADV-1 Attachment A includes four tabs, one for each date of interest.

- B. Attachment PA-ADV-1 Attachment B includes a count of households in arrears for each 5-digit zip code. To address this question, a count of households in arrears was determined by subtracting the amount of the most recent month's bill from each account's overall balance as of each of the dates in question and counting accounts with a resulting balance greater than zero. This represents debt that is past due, aside from slight impact of February being a shorter than typical month. The accounts counted may have debt in payment agreements, bankruptcy, or other protected statuses. An account with any positive balance, including a small balance, in any status, is counted in these figures. Attachment PA-ADV-1 Attachment B includes four tabs, one for each date of interest.
- C. Attachment PA-ADV-1 Attachment C includes a count of households whose service has been terminated for each 5-digit zip code. As of September 2020, PWD had made several attempts to restore all accounts, so service remaining terminated as of this time for some customers was in part the result of lack of access to the meter. Attachment PA-ADV-1 Attachment C includes four tabs, one for each date of interest.
- D. Attachment PA-ADV-1 Attachment D includes a count of households receiving assistance through TAP, senior citizen discount, WRBCC, or a payment agreement. This designation was developed by reconstructing the discount applied to the account in the month preceding each date of interest, as well as the customer's designation in historical basis2 data as of the date of interest. Note that assistance program participation may have been impacted by the lack of enforcement activities during 2020. Attachment PA-ADV-1 Attachment D includes four tabs, one for each date of interest.

PUBLIC ADVOCATE ADVANCED SET #I - 4

Ouestions PA-ADV-2 through PA-ADV-14 pertain to the document dated December 22, 2020, titled "FINANCIAL PLAN: REVENUE & REVENUE REQUIREMENTS ASSUMPTIONS SCHEDULE BV-6: WP-1"

GENERAL RESPONSE:

Please note that the document dated December 22, 2020, titled "FINANCIAL PLAN: REVENUE & REVENUE REQUIREMENTS ASSUMPTIONS SCHEDULE BV-6: WP-1," was provided to prior participants in draft form. All responses concerning this document are in the context of the version and submitted to the Philadelphia Water, Sewer and Storm Water Rate Board on January 15, 2021.

PA-ADV-2. REFERENCE REVENUE PROJECTIONS, ITEM 1(D). PLEASE EXPLAIN HOW THE COMMONWEALTH OF PENNSYLVANIA'S EXTENDED SHUT OFF MORATORIUM AFFECTS PWD'S USAGE PER ACCOUNT AND PROVIDE SUPPORTING DOCUMENTATION.

RESPONSE:

As discussed in PWD Statement No. 7A – Direct Testimony of Black & Veatch Management Consulting, Pennsylvania Public Utility Commission (PUC) orders suspended shut-off and enforcement practices for PUC regulated utilities in March 2020. The Water Department and the Water Revenue Bureau followed suit and restored service to most customers that had been shut-off for non-payment. As noted in response to PA-ADV-1, PWD had made several attempts to restore all accounts, so service remaining terminated as of this time for some customers was in part the result of lack of access to the meter.

The usage per account observed in the Water Department's monthly billing data begin to reflect these conditions, among other factors, as early as April 2020. Black & Veatch adjusted the usage per account used in the analysis to reflect recent experience, as further explained in the subject document. Overall usage reflects more current conditions, the shut-off moratorium and associated collections practices.

RESPONSE PROVIDED BY:

Black & Veatch Management Consulting, LLC

1	PA-ADV-4.	ACCORDING TO THE REVENUE PROJECTIONS, ITEM 1(D), THE COVID-
2		19 PANDEMIC AND THE RELATED ECONOMIC DOWNTURN HAVE
3		INFLUENCED CUSTOMER DEMAND IN THE MONTHS SINCE
4		PENNSYLVANIA'S INITIAL SHUT-DOWN IN MARCH 2020. PLEASE
5		PROVIDE THE ANALYSES OR SUPPORTING DATA THAT QUANTIFIES
6		THE EFFECT OF THE DOWNTURN ON THE CUSTOMER DEMAND.
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8	RESPONSE:	Please refer to response attachment PA-ADV-4.xlsx for further
9		information.
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11	RESPONSE	PROVIDED BY: Black & Veatch Management Consulting, LLC
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PA-ADV-5. ACCORDING TO THE REVENUE PROJECTIONS, ITEM 1(D)(II), THE FY 2021 USAGES PER ACCOUNT WERE ADJUSTED TO REFLECT CURRENT CUSTOMER DEMANDS BASED ON RECENT MONTHLY REPORTING DATA. PLEASE PROVIDE DOCUMENTATION AND SUPPORTING WORKPAPERS, IN ELECTRONIC FORMAT WITH THE FORMULAE INTACT, SHOWING THE ORIGINAL CUSTOMER DEMAND AMOUNTS AND THE DERIVATION OF THE AMOUNTS.

RESPONSE:

Please refer to response attachment PA-ADV-4.xlsx.

Black & Veatch utilized monthly reporting data provided by Raftelis to compare customer usage before and during the pandemic. To develop the usage per account adjustment factors, Black & Veatch estimated the FY 2021 usage by customer type, utilizing the actual fiscal year 2021 usage for July through October and utilizing the average monthly usage during COVID (i.e. April to October) to estimate the remaining eight months of the year. The escalation factors in the Cost of Service Analysis, as presented in Table 1 of Schedule BV-6:WP-1, were adjusted so that the resulting projected overall usage by customer type for FY 2021 (which uses FY 2018-2019 average usage per account as the projection basis) would approximate the estimated FY 2021 usage included in the response attachment.

RESPONSE PROVIDED BY: Black & Veatch Management Consulting, LLC

- **PA-ADV-7.** REFERENCE THE REVENUE PROJECTIONS, ITEM 1(F) TABLE 3 INITIAL COLLECTION FACTORS PRIOR TO ADJUSTMENT.
 - A. PLEASE CONFIRM WHETHER THE DATA PRESENTED ON TABLE 3
 REFLECT THE ADJUSTMENTS TO THE COLLECTION FACTORS
 DISCUSSED BELOW THE TABLE.
 - B. PLEASE PROVIDE THE SUPPORTING WORKPAPERS AND

 DOCUMENTATION DEMONSTRATING THE BASIS OF FY 2021 BILLING

 YEAR COLLECTION FACTORS REDUCED BY 8%, FY 2022 BILLING

 YEAR COLLECTION FACTORS REDUCED BY 4% AND FY 2023

 BILLING YEAR COLLECTION FACTORS REDUCED BY 2%.
 - C. PLEASE PROVIDE THE DATA TO SUPPORT THE STATEMENT THAT

 "CURRENT MONTHLY COLLECTION DATA IMPLY THAT COLLECTION

 RATES ARE LOWER BY 10% COMPARED TO THE AVERAGE

 HISTORICAL DATA."

RESPONSE:

- A. The data presented in Table 3 reflects the collection factors <u>prior</u> to the adjustments discussed below the table. Please refer to Figure 3-2 on page 3-7 of Schedule BV-5 (included in PWD Statement No. 7A Direct Testimony of Black & Veatch) for a description of how to apply the collection factor adjustment in determining the projections of receipts.
- B. Please refer to the response attachment PA-ADV-7.xlsx. The reduction in Billing Year collection factors uses a comparison of monthly collections during the pandemic in FY 2020 (i.e. April through June) and the corresponding month's average during prior years (i.e., FY 2019 to FY 2012). Please refer to Section 1.3.2 on page 1-4 of Schedule BV-5 (as included in PWD Statement No. 7A Direct Testimony of Black & Veatch) for additional discussion regarding the collection factor adjustments. The Cost of Service analysis assumes collections

will partially recover in FY 2022 and FY 2023, returning to historical average levels by FY 2024.

C. Please refer to the response attachment PA-ADV-7.xlsx. See row 17 of the tab entitled "Summary" for April, May, and June. Both May and June data indicate that billing year collections are 10% lower in FY 2020 compared to the corresponding month's average during the prior years.

RESPONSE PROVIDED BY: Black & Veatch Management Consulting, LLC

- PA-ADV-12. REGARDING THE CAPITAL PROGRAM (ITEM 5), THE DOCUMENT STATES "TO EVALUATE CIP PROGRAM FUNDING, BLACK & VEATCH ESTIMATED THE EXPECTED PROJECT COMMITMENTS FOR EACH FISCAL YEAR OF THE STUDY PERIOD, BASED UPON THE WATER DEPARTMENT'S CIP BUDGET AND ADJUSTED TO REFLECT THE FOLLOWING..."
 - A. PLEASE EXPLAIN WHAT THE PHRASE "PROJECT COMMITMENT" ENTAILS.
 - B. WHAT DOES THE PHRASE "ADJUSTED TO REFLECT" MEAN FOR EACH BULLET POINT? FOR EXAMPLE "THE ROLL-FORWARD OF REMAINING FY 2020 BUDGET APPROPRIATIONS", DOES THAT MEAN COSTS WERE INCLUDED OR REMOVED?

RESPONSE:

- A. "Project commitment" refers to total contract projections as well as salaries and vehicle purchases of the Philadelphia Water Department. In the context of the Capital Program, this means that the Water Department anticipates committing monies toward projects in a given fiscal year. Please note that this phrase was changed to encumbrances in the final version of BV-6 WP-1.
- B. Each bullet point is explained as follows:
 - a. "The rollforward of remaining FY 2020 budget appropriations associated with vehicle purchases" means that the Water Department did not use the full FY 2020 approved budget appropriation during FY 2020, and the remaining appropriation (along with the associated expense) will be utilized toward the purchase of vehicles in FY 2021.
 - b. "The rollforward of remaining FY 2021 budget appropriation due to bidding and project-related delays, as provided by the Water
 Department" means the portions of the FY 2021 budget appropriation

- costs were not utilized in FY 2021, and the Water Department anticipates using these funds in FY 2022.
- c. "The shift in positions from the Capital budget to the O&M budget" means the salary costs currently budgeted as a capital expense are shifted to the O&M Budget beginning in FY 2022, and the associated Capital Program costs related to salaries funded during the study period are reduced accordingly.
- d. "Annual inflation of 3.0% based on industry construction cost indices for FY 2023 to FY 2026 capital program costs" means the Capital Program costs are adjusted to reflect inflation beginning in FY 2023.
- e. "Removal of contingencies by applying an adjustment factor of 85% to planned improvements, excluding Engineering and Administration and Vehicles" means Capital Program costs are reduced based upon the specified adjustment factor during the Study Period.

The above steps are delineated in the response attachment to PA-ADV-13.

RESPONSE PROVIDED BY: Black & Veatch Management Consulting, LLC