



STATE OF WEST VIRGINIA  
DEPARTMENT OF HEALTH AND HUMAN RESOURCES  
Bureau for Public Health  
Office of Environmental Health Services

Bill J. Crouch  
Cabinet Secretary

Ayne Amjad, MD, MPH  
Commissioner & State Health Officer

**MEMORANDUM**

**TO:** Marie Prezioso, Funding Committee  
WV Infrastructure and Jobs Development Council

**FROM:** Meredith J. Vance  
Water Technical Review Committee

**DATE:** September 27, 2022

**RE:** Berkeley County PSWD  
IJDC Preliminary Application Number: **2022W-2218**  
Potomac River Water Treatment Facility Upgrade and Expansion  
Berkeley County

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1. The Committee has reviewed the pre-application and preliminary engineering report submitted for the above referenced project in accordance with Chapter 31, Article 15-A. It has been determined that the project is:
    - a.  Consistent with the intent of the Infrastructure and Jobs Development Act and is the most cost-effective and environmentally sound alternative for solving the drinking water needs in this area.
    - b.  Consistent with the Act but may not be the most cost-effective and environmentally sound alternative for solving the drinking water needs in this area.
    - c.  Consistent with the intent of the Act and most cost-effective and environmentally sound alternative for solving the drinking water needs in this area **except** that certain issues need to be addressed prior to design and construction, as the attached comments indicate.
  
  2. Our recommendation is that:
    - a.  The Funding Committee needs to review the proposed sources of funding to determine the best mix of grant and/or loan funds in accordance with applicable guidelines.
-

- b.  The Funding Committee should recommend that Council approve the proposed project and its funding plan.
- c.  The Funding Committee does not need to review the funding assumptions on this project because of deficiencies in the application. The proposed project funding should be postponed until technical comments have been resolved.
- d.  The project to be referred to the Consolidation Committee.

3. Other remarks:

**Comment:**

This preliminary application appears technically feasible.

This Preliminary Application proposes to expand the Potomac River Water Treatment Plant (WTP) to 10 million gallons per day (MGD) to serve the increasing demand throughout the PSWD's service area.

The proposed funding package includes a WDA Economic Enhancement Grant: **\$24,000,000**, IJDC District 2 Loan 20-Year at 3% Interest: **\$6,400,000**, Local Commitment: **\$1,600,000**

The total project cost is **\$32,000,000**.

pc: To be distributed at the Funding Committee Meeting

STATE OF WEST VIRGINIA  
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Commissioner & State Health Officer

**MEMORANDUM**

**TO:** Meredith J. Vance, Director  
Environmental Engineering Division

**FROM:** Christopher Thomas, EIT.  
Infrastructure & Capacity Development

**DATE:** September 27, 2022

**SUBJECT:** Berkeley County PSWD  
IJDC Application- **2022W-2218**  
Potomac River Water Treatment Facility Upgrade and Expansion  
Berkeley County

**Recommendation:**

This preliminary application appears technically feasible and is recommended to be forwarded to the Funding Committee.

**Project Scope:**

This Preliminary Application proposes to expand the Potomac River Water Treatment Plant (WTP) to 10 million gallons per day (MGD) to serve the increasing demand throughout the PSWD's service area. The project will consist of the construction of a second 36 feet by 169 feet sedimentation basin with all necessary appurtenances to mirror the existing sedimentation basin.

Additionally, the project will replace all necessary equipment throughout the WTP that must be upgraded to handle increased capacity or is at the end of its useful life. This work includes: replacement of the intake structure, vault, and screen; replacement of three (3) chemical feed pumps, piping, and valves for raw water; replacement of three (3) mixers for the flocculators; replacement of four (4) existing sludge membrane filter modules due to their age and installation of two (2) new modules within the existing filter basin for increased flow; replacement of the UV system's ballasts, lamps, seals, and sleeves; installation of two (2) new scales, piping, and mounted cylinders for chlorine gas disinfection; replacement of three (3) finish water pumps with upgraded pumps and VFDs sized for 5 MGD and 350 HP; installation of a new SCADA system. and necessary site improvements to yard piping, sidewalks, paving, and electrical services. Other improvements include installation of a new site generator, construction of a new electrical building, and modifications to the existing flocculation and sedimentation basins for the new sedimentation basin.

The cost per customer is **\$1,067** for the project. The total project cost is **\$32,000,000** (WDA Economic Enhancement Grant: **\$24,000,000**, IJDC District 2 Loan 20-Year at 3% Interest: **\$6,400,000**, Local Commitment: **\$1,600,000**).

**Need for the Project:**

The Potomac River WTP is currently operating 24 hours per day to produce approximately 6 MGD. To meet current customer demand at the current capacity, the existing sedimentation basins currently allow for less than 4 hours of detention time. With its existing capacity nearly exhausted, the WTP also has limited redundancy and operational flexibility. The proposed expansion will allow the PSWD to meet current and near-future customer demands, allow for recommended detention time at the sedimentation basins, and introducing redundancy into the treatment process.

**Concerns:**

None

**Permits:**

A permit will be required from the WV Bureau for Public Health prior to construction.

Construction activities with a disturbed area of one (1) acre or greater are required to register for the NPDES Storm Water Construction General Permit No. WV0115924.

A permit for stream crossings may be required.

A Certificate of Convenience and Necessity will be required from the PSC.

A permit from the WV Division of Highways will be required for the construction activities that will take place within WVDOH right-of-way.

**Engineering:** 3.1% for design, 6.43% for total.

The Design Fees vs. Construction Cost for modifications is between the average complexity and the very complex curves. The Total Fees vs. Construction Cost for modifications is between the average complexity and very complex curves.

A fee waiver **will not be** required for this project.

**Asset Management Plan and Annual Maintenance Audit:**

The system marked the question in the application concerning an asset management plan as “No.” This is correct. The PSWD does not currently have an approved Asset Management Plan on file with the BPH.

**Capacity Development:**

The question about having had a capacity development assessment (CDA) within the last 5 years was marked as “Yes.” A CDA was performed at the PSWD in June of 2022.

Additional information that may be helpful to the IJDC in their decisions regarding approval of this project relates to the system's overall compliance. The PSWD's Potomac River system has a score of 10 on the July 2022 quarter of the EPA's Compliance Tracking Tool (ETT). While the current score is below the EPA's action level of > 11, this score indicates the system has some compliance issues that need to be addressed soon, including failure to monitor for various analytes in 2021 and outstanding Public Notice requirements.

Based upon information from the Municipal Bond Commission, as of July 2022, the PSWD is currently on their water reserve funding requirements.

**IJDC Ranking:**

- Public Health Benefit: 5
- Compliance: 10

# Public Service Commission of West Virginia

201 Brooks Street, P.O. Box 812  
Charleston, West Virginia 25323

Phone: (304) 340-0300  
Fax: (304) 340-0325



September 13, 2022

Meredith J. Vance  
Office of Environmental Health Services  
350 Capitol Street, Room 313  
Charleston, West Virginia 25301-3713

Re: Public Service Commission Staff Review Comments  
Application No. 2022W-2218  
Berkeley County PSD - Water  
Infrastructure Preliminary Application

Dear Ms. Vance:

As requested, the Technical Staff of the Public Service Commission of West Virginia has completed its review of the above-referenced Infrastructure application. In light of Technical Staff's comments enclosed herewith, we are recommending the application be:

forwarded to the Funding Committee

forwarded to the Consolidation Committee

returned to the Applicant

Please advise if you have any questions.

Sincerely,

A handwritten signature in red ink, appearing to read "Jonathan M. Fowler".

Jonathan M. Fowler, P.E.  
Engineering Division

JMF:vb

**PUBLIC SERVICE COMMISSION STAFF  
TECHNICAL REVIEW**

**DATE:** September 9, 2022

**PROJECT SPONSOR:** BERKELEY COUNTY PUBLIC SERVICE DISTRICT -  
WATER

**PROJECT SUMMARY:** The River Plant is being expanded to serve the rapidly increasing demand for water throughout the service area of the Water District. The Plant capacity of 6 MGD is close to being exhausted and the plant is being operated on a 24 hours per day schedule. The upgrades will increase capacity to 10 MGD so as to allow for future economic opportunities while increasing public health and safety.

|                          |                                    |                  |
|--------------------------|------------------------------------|------------------|
| <b>PROPOSED FUNDING:</b> | WDA Economic Enhancement Grant     | \$ 24,000,000    |
|                          | Local/City/Council Grant           | 1,600,000        |
|                          | IJDC District 2 Loan (3%, 20 yrs.) | <u>6,400,000</u> |
|                          | Total                              | \$ 32,000,000    |

**CURRENT RATES:**

|                    |         |               |
|--------------------|---------|---------------|
| <b>Schedule I</b>  | \$33.29 | 3,400 gallons |
|                    | \$37.74 | 4,000 gallons |
| <b>Schedule II</b> | \$28.18 | 3,400 gallons |
|                    | \$30.89 | 4,000 gallons |

**PROPOSED RATES:**

|                    |         |               |
|--------------------|---------|---------------|
| <b>Schedule I</b>  | \$35.79 | 3,400 gallons |
|                    | \$40.58 | 4,000 gallons |
| <b>Schedule II</b> | \$30.28 | 3,400 gallons |
|                    | \$33.20 | 4,000 gallons |

Application No. 2022W-2218

**RECOMMENDATION:**  X  forward to the Funding Committee.  
     forward to the Consolidation Committee.  
     return to the Applicant.

**FINANCIAL: Alex Kovarik**

1. Current average rates (\$30.73 for 3,400 gallons) are below the rates attributable to 1.25% (\$68.01), 1.5% (\$81.61), 1.75% (\$95.21), and 2.0% (\$108.81) of the Median Household Income (MHI). Increasing current rates to 1.25%, 1.5%, 1.75%, and 2.0% of the MHI would provide additional revenues of \$20,145,191, \$27,496,499, \$34,847,807, and \$42,199,115 respectively.
2. Using Scenario 1, the preferred funding package consisting of a WDA Economic Enhancement Grant of \$24,000,000, a \$1,600,000 Local/City/Council Grant and an IJDC District 2 Loan of \$6,400,000 at 3% for 20 years, proposed average rates (\$33.04 for 3,400 gallons) will provide a cash flow surplus of \$530,532 and debt service coverage of 138.97%.
3. Using the Scenario 2 alternate loan package of \$32,000,000 (in uncommitted funds) at 5% for 40 years (paid back over 38 years), proposed average rates (\$35.65 for 3,400 gallons) will provide a cash flow surplus of \$280,561 and debt service coverage of 130.33%.
4. NOTES TO COMMENTS
  - A. Staff's detailed adjustments are listed on Attachment A for Scenario 1 (Preferred Funding Package) and Attachment B for Scenario 2 (Loan Package).
  - B. Staff prepared the attached Cash Flow Analysis utilizing information from the Annual Report for the Fiscal Year Ended June 30, 2021, and the applicant's Rule 42 Exhibit submitted with the application.
  - C. The project sponsor should resolve discrepancies in its Draft Rule 42 prior to pursuing a resolution to increase rates. In particular, it should review its "Rate Increase Comparison", Proforma Schedule 2 tariff, and its bill analysis for the customers formerly served by the Woods HOA, Inc.. These discrepancies involve the transition of Schedule 2 rates from a quarterly to monthly basis. PSC staff will follow-up with the project sponsor's accountant to discuss.
  - D. Senate Bill 234, effective June 12, 2015, required water and sewer utilities that are political subdivisions of the state to maintain a cash working capital reserve in an amount of no less than one-eighth (1/8) of actual annual operation and maintenance expenses. It should be noted that the cash flows provided by the project sponsor include funding for the 1/8 cash working capital reserve. Staff accepted that amount in its analyses. However, this amount may be reviewed by

the Commission in future filings in accordance with Public Service Commission General Order 183.11.

- E. The Public Service District should carefully evaluate its revenue requirements before pursuing a rate increase in order to ensure that rates are sufficient to provide a reasonable surplus and meet coverage requirements. Staff notes that the District is a political subdivision of the state and it has at least 4,500 customers and annual gross revenues of \$3 million or more. Therefore, in accordance with Senate Bill 234, effective June 12, 2015, the Commission has no jurisdiction regarding the District's rates pursuant to WV Code 24-2-4a and WV Code 16-13A-9. However, the Commission does have jurisdiction pursuant to WV Code 24-2-1 (b)(6) for the investigation and resolution of disputes involving political subdivisions of the state regarding inter-utility agreements, rates, fees and charges, service areas and contested utility combinations.

**ENGINEERING:** Jim Spurlock

1. This project will not require a Certificate of Convenience and Necessity from the PSC. (See comment E., above.)
2. Scope: Berkeley County Public Service Water District proposes to upgrade its Potomac River Water Treatment Facility, increasing treatment capacity from 6 MGD to 10 MGD. Upgrades include raw and finished water pumping, chemical feed, sedimentation, membrane filtration, and electrical.

Customer Density: N/A (No new customers, internal improvements.)

Cost per Customer: \$1,067 (taken from the total project cost estimate of \$32,000,000 spread over 30,000 existing customers). This is not excessive.

3. Project Feasibility: The project is technically feasible. The cost per customer is acceptable. The treatment plant is running 24 hours per day. Upgrades are needed to meet demand.
4. Project Alternatives: The option of a redundant second raw water intake or additional wells was discussed in the PER. No general alternative to upgrading the existing facility was evaluated.
5. Consolidation: No consolidation opportunities are presented by the project.

6. Inconsistencies: None were noted.
7. Operation and Maintenance (O & M) Expenses: O & M expenses are projected to increase by approximately \$800,000 annually as a result of the project. The categories of expected increase were explained, but supporting calculations were not included.
8. Engineering Agreement: The application includes information to determine compliance with West Virginia Code §§5G-1-1, et seq. Total technical services (engineering) costs for the project are \$1,875,000 which is equal to 6.43% of the construction cost of \$29,150,000 (including contingency).

| <i>Preliminary Project Ranking</i> |   |            |
|------------------------------------|---|------------|
| O & M Capabilities                 |   |            |
| Performance Measures:              | 1 | <i>Pt.</i> |
| Asset Management:                  | 1 | <i>Pt.</i> |
| Environmental Management:          | 0 | <i>Pt.</i> |
| Readiness to Proceed:              | 0 | <i>Pt.</i> |
| Cost Effectiveness:                | 1 | <i>Pt.</i> |
| Compliance with PSC Orders:        | 0 | <i>Pt.</i> |

BERKELEY COUNTY PUBLIC SERVICE DISTRICT - WATER  
 CASH FLOW ANALYSIS  
 YEAR ENDED: June 30, 2021  
 APPLICATION NO: 2022W-2218  
 September 9, 2022

**PREFERRED FUNDING PACKAGE  
 SCENARIO 1**

|  | Rule 42<br>Going Level<br>Per Application<br>Before Project | Rule 42<br>Proforma<br>Per Application<br>with Project | Staff<br>Adjustments | Per Staff<br>Analysis |
|--|---|--|----------------------|-----------------------|
|  | 1   | 2  | 3                    | 4                     |
|  | \$  | \$   | \$                   | \$                    |
| <b>AVAILABLE CASH</b>                                  |   |  |                      |                       |
| Operating Revenues                                     | 17,013,303  | 17,851,985   | (1,235,000) (1)      | 16,616,985            |
| Other Operating Revenue                                | 587,629   | 587,629  | -                    | 587,629               |
| SB 234 Annual Working Cash Collections                 |   |  | 1,235,000 (2)        | 1,235,000             |
| Interest Income & Other Misc.                          | 24,000  | 24,000   | -                    | 24,000                |
| <b>Total Cash Available</b>                            | <b>17,624,932</b>   | <b>18,463,614</b>                                      | <b>-</b>             | <b>18,463,614</b>     |
| <b>OPERATING DEDUCTIONS</b>                            |   |  |                      |                       |
| Operating Expenses                                     | 8,906,344   | 9,883,661  | -                    | 9,883,661             |
| Taxes  | 323,505   | 323,505  | -                    | 323,505               |
| <b>Total Cash Requirements Before<br/>Debt Service</b> | <b>9,229,849</b>  | <b>10,207,166</b>                                      | <b>-</b>             | <b>10,207,166</b>     |
| Cash Available for Debt Service (A)                    | 8,395,083   | 8,256,448  | -                    | 8,256,448             |
| <b>DEBT SERVICE REQUIREMENTS</b>                       |   |  |                      |                       |
| Principal & Interest (B)                               | 4,309,166   | 5,936,884  | 4,250 (3)            | 5,941,134             |
| Other Debt   | 109,043   | 76,649   | -                    | 76,649                |
| Reserve Account @ 10%                                  | -   | -  | 43,018 (4)           | 43,018                |
| Renewal & Replacement Fund (2.5%)                      | 441,000   | 462,000  | (31,885) (5)         | 430,115               |
| <b>Total Debt Service Requirement</b>                  | <b>4,859,209</b>  | <b>6,475,533</b>                                       | <b>15,383</b>        | <b>6,490,916</b>      |
| SB 234 Cash Working Capital                            | 1,113,000   | 1,235,000  | -                    | 1,235,000             |
| <b>Remaining Cash</b>                                  | <b>2,422,874</b>  | <b>545,915</b>   | <b>(15,383)</b>      | <b>530,532</b>        |
| Percent Coverage (A) / (B)                             | 194.82%   | 139.07%  |                      | 138.97%               |
| Average rate for 3,400 gallons                         | \$ 30.73  | \$ 33.04   | \$ -                 | \$ 33.04              |
| Average rate for 4,000 gallons                         | \$ 34.32  | \$ 36.89   | \$ -                 | \$ 36.89              |
| <b>Schedule 1</b>                                      |   |  |                      |                       |
| Rate for 3,400 gallons                                 | \$ 33.29  | \$ 35.79   | \$ -                 | \$ 35.79              |
| Rate for 4,000 gallons                                 | \$ 37.74  | \$ 40.58   | \$ -                 | \$ 40.58              |
| <b>Schedule 2</b>                                      |   |  |                      |                       |
| Rate for 3,400 gallons                                 | \$ 28.18  | \$ 30.28   | \$ -                 | \$ 36.01              |
| Rate for 4,000 gallons                                 | \$ 30.89  | \$ 33.20   | \$ -                 | \$ 42.36              |

**BERKELEY COUNTY PUBLIC SERVICE DISTRICT - WATER  
CASH FLOW ANALYSIS  
YEAR ENDED: June 30, 2021  
APPLICATION NO: 2022W-2218**

**Attachment A  
PREFERRED FUNDING PACKAGE  
SCENARIO I**

**Staff Adjustments**

| <u>Adjustment Description</u>   |                                     | \$                | Increase<br><Decrease> |
|---|-------------------------------------|-------------------|------------------------|
| (1) <b>Operating Revenues</b>   | <b>Per Staff Analysis</b>           | <b>16,616,985</b> | <b>(1,235,000)</b>     |
|   | <b>Per Application with Project</b> | <b>17,851,985</b> |                        |
| Adjust revenues in accordance with PSC General Order 183.11.  |                                     |                   |                        |
| (2) <b>SB 234 Annual Working Cash Collections</b>   | <b>Per Staff Analysis</b>           | <b>1,235,000</b>  | <b>1,235,000</b>       |
|   | <b>Per Application with Project</b> | <b>-</b>          |                        |
| Account for SB 234 (2015) funding pursuant to PSC General Order 183.11.   |                                     |                   |                        |
| (3) <b>Principal &amp; Interest</b>   | <b>Per Staff Analysis</b>           | <b>5,941,134</b>  | <b>4,250</b>           |
|   | <b>Per Application with Project</b> | <b>5,936,884</b>  |                        |
| The difference in P&I is related to Staff's calculation of a loan of \$6,400,000 for 20 years at 3%.              |                                     |                   |                        |
| (4) <b>Reserve Account @ 10%</b>  | <b>Per Staff Analysis</b>           | <b>43,018</b>     | <b>43,018</b>          |
|   | <b>Per Application with Project</b> | <b>-</b>          |                        |
| Staff assumed a 10% reserve on the new debt.  |                                     |                   |                        |
| (5) <b>Renewal &amp; Replacement Fund (2.5%)</b>  | <b>Per Staff Analysis</b>           | <b>430,115</b>    | <b>(31,885)</b>        |
|   | <b>Per Application with Project</b> | <b>462,000</b>    |                        |
| Staff used 2.5% of the projection of "Operating & Other Revenues" as the basis of the renewal & replacement fund. |                                     |                   |                        |

BERKELEY COUNTY PUBLIC SERVICE DISTRICT-WATER  
CASH FLOW ANALYSIS  
YEAR ENDED: June 30, 2021  
APPLICATION NO: 2022W-2218  
September 9, 2022

**LOAN PACKAGE  
SCENARIO 2**

|  | Rule 42<br>Going Level<br>Per Application<br>Before Project | Rule 42<br>Proforma<br>Per Application<br>with Project | Staff<br>Adjustments | Per Staff<br>Analysis |
|--|---|--|----------------------|-----------------------|
|  | 1   | 2  | 3                    | 4                     |
|  | \$  | \$   | \$                   | \$                    |
| <b>AVAILABLE CASH</b>                                  |   |  |                      |                       |
| Operating Revenues                                     | 17,013,303  | 19,250,585   | (1,235,000) (1)      | 18,015,585            |
| Other Operating Revenue                                | 587,629   | 587,629  | -                    | 587,629               |
| SB 234 Annual Working Cash Collections                 |   |  | 1,235,000 (2)        | 1,235,000             |
| Interest Income & Other Misc.                          | 24,000  | 24,000   | -                    | 24,000                |
| <b>Total Cash Available</b>                            | <b>17,624,932</b>   | <b>19,862,214</b>                                      | <b>-</b>             | <b>19,862,214</b>     |
| <b>OPERATING DEDUCTIONS</b>                            |   |  |                      |                       |
| Operating Expenses                                     | 8,906,344   | 9,883,661  | -                    | 9,883,661             |
| Taxes  | 323,505   | 323,505  | -                    | 323,505               |
| <b>Total Cash Requirements Before<br/>Debt Service</b> | <b>9,229,849</b>  | <b>10,207,166</b>                                      | <b>-</b>             | <b>10,207,166</b>     |
| Cash Available for Debt Service (A)                    | 8,395,083   | 9,655,048  | -                    | 9,655,048             |
| <b>DEBT SERVICE REQUIREMENTS</b>                       |   |  |                      |                       |
| Principal & Interest (B)                               | 4,309,166   | 7,362,588  | 45,460 (3)           | 7,408,048             |
| Other Debt   | 109,043   | 76,649   | -                    | 76,649                |
| Reserve Account @ 10%                                  | -   | -  | 189,710 (4)          | 189,710               |
| Renewal & Replacement Fund (2.5%)                      | 441,000   | 497,000  | (31,920) (5)         | 465,080               |
| <b>Total Debt Service Requirement</b>                  | <b>4,859,209</b>  | <b>7,936,237</b>                                       | <b>203,250</b>       | <b>8,139,487</b>      |
| SB 234 Cash Working Capital                            | 1,113,000   | 1,235,000  | -                    | 1,235,000             |
| <b>Remaining Cash</b>                                  | <b>2,422,874</b>  | <b>483,811</b>   | <b>(203,250)</b>     | <b>280,561</b>        |
| Percent Coverage (A) / (B)                             | 194.82%   | 131.14%  |                      | 130.33%               |
| Average rate for 3,400 gallons                         | \$ 30.73  | \$ 35.65   | \$ -                 | \$ 35.65              |
| Average rate for 4,000 gallons                         | \$ 34.32  | \$ 39.80   | \$ -                 | \$ 39.80              |
| <b>Schedule 1</b>                                      |   |  |                      |                       |
| Rate for 3,400 gallons                                 | \$ 33.29  | \$ 38.61   | \$ -                 | \$ 38.61              |
| Rate for 4,000 gallons                                 | \$ 37.74  | \$ 43.77   | \$ -                 | \$ 43.77              |
| <b>Schedule 2</b>                                      |   |  |                      |                       |
| Rate for 3,400 gallons                                 | \$ 28.18  | \$ 32.68   | \$ -                 | \$ 32.68              |
| Rate for 4,000 gallons                                 | \$ 30.89  | \$ 35.83   | \$ -                 | \$ 35.83              |

**BERKELEY COUNTY PUBLIC SERVICE DISTRICT-WATER  
CASH FLOW ANALYSIS  
YEAR ENDED: June 30, 2021  
APPLICATION NO: 2022W-2218**

**Attachment B  
LOAN PACKAGE  
SCENARIO 2**

**Staff Adjustments**

| <u>Adjustment Description</u>   |                                     | \$                | Increase<br><Decrease> |
|---|-------------------------------------|-------------------|------------------------|
| <b>(1) Operating Revenues</b>   | <b>Per Staff Analysis</b>           | <b>18,015,585</b> | <b>(1,235,000)</b>     |
|   | <b>Per Application with Project</b> | <b>19,250,585</b> |                        |
| Adjust revenues in accordance with PSC General Order 183.11.  |                                     |                   |                        |
| <b>(2) SB 234 Annual Working Cash Collections</b>   | <b>Per Staff Analysis</b>           | <b>1,235,000</b>  | <b>1,235,000</b>       |
|   | <b>Per Application with Project</b> | <b>-</b>          |                        |
| Account for SB 234 (2015) funding pursuant to PSC General Order 183.11.   |                                     |                   |                        |
| <b>(3) Principal &amp; Interest</b>   | <b>Per Staff Analysis</b>           | <b>7,408,048</b>  | <b>45,460</b>          |
|   | <b>Per Application with Project</b> | <b>7,362,588</b>  |                        |
| The difference in P&I is related to Staff's calculation of a loan of \$32,000,000 for 40 years (paid back over 38 years) at 5%. |                                     |                   |                        |
| <b>(4) Reserve Account @ 10%</b>  | <b>Per Staff Analysis</b>           | <b>189,710</b>    | <b>189,710</b>         |
|   | <b>Per Application with Project</b> | <b>-</b>          |                        |
| Staff assumed a 10% reserve on the new debt.  |                                     |                   |                        |
| <b>(5) Renewal &amp; Replacement Fund (2.5%)</b>  | <b>Per Staff Analysis</b>           | <b>465,080</b>    | <b>(31,920)</b>        |
|   | <b>Per Application with Project</b> | <b>497,000</b>    |                        |
| Staff used 2.5% of the projection of "Operating & Other Revenues" as the basis of the renewal & replacement fund.               |                                     |                   |                        |



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west virginia department of environmental protection

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Division of Water and Waste Management  
601 57th Street SE  
Charleston, WV 25304-2345  
Telephone Number: (304) 926-0495  
Fax Number: (304) 926-0497

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

## MEMORANDUM

MEMO TO: Meredith J. Vance  
Office of Environmental Health Services  
Bureau for Public Health

FROM: John M. Perkins   
Supervisor  
General Permits & Support Team

DATE: August 17, 2022

SUBJECT: Infrastructure Preliminary Application for the Berkeley County PSWD: Potomac River WTP Improvement in Berkeley County, WV. (2022W-2218)

We have reviewed the above referenced project application information. The Berkeley County PSWD, discharges its backwash to its site, which is covered under WV/NPDES Permit No. WV0033821, and expires December 19, 2022.

If the Berkeley PSWD is considering repairing and painting an existing water treatment plant or storage tanks, then the scope of this project requires precautions to prevent contamination of the waters of the state. Prior to beginning any removal of old paint, the Berkeley County PSWD should contact Mr. Jeremy Bandy or a member of his staff at (304)-926-0499, extension 43894 for guidance in determining whether the paint to be removed is considered a hazardous waste. If so, proper containment and disposal procedures must be followed for the paint and any material associated with the sandblasting. If it is determined that the paint is not hazardous, the Berkeley County PSWD should contact John Lockhart or a member of his staff at (304)-926-0499, extension 43821 for proper disposal options.

Construction activities with a disturbed area of one (1) acre or greater are now required to register for the NPDES Storm Water Construction General Permit No. WV0115924 that became

effective on March 9, 2019. Projects registered under the previous General Permit No. WV0115100 were automatically provided coverage under WV/NPDES General Permit No. WV0115924. For more information, they may contact Larry Board at (304)-926-0499, extension 43883.

In light of the above, we have no objection to this project as long as the appropriate provisions are taken to assure compliance with Chapter 22, Article 11, of the Code of West Virginia and any associated regulations. The responsible party may contact Mylinda Maddox (304) 926-0499 ext. 43825, should additional information be required.

JMP:mam

cc: Katheryn Emery



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west virginia department of environmental protection

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Office of Abandoned Mine Lands & Reclamation  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

Harold D. Ward, Cabinet Secretary  
dep.wv.gov

## MEMORANDUM

**To:** Christopher Thomas, EIT  
Infrastructure and Capacity Development

**From:** Roger A. Earle, P.E., Waterline Coordinator *RAE*  
Office of Abandoned Mine Lands & Reclamation

**Date:** September 14, 2022

**Subject:** Berkley County PSWD – River WTP Improvements  
IJDC Preliminary Application: 2022W-2218

AML does not participate in routine improvements or replacement of existing systems. Therefore, AML funds will not be available for this project.

## OEHS District Review for Infrastructure Council Water Projects

|                      |   |              |  |
|----------------------|---|--------------|--|
| Water System:        | BCPSWD  | IJDC Number: | 2022W-2218   |
| Project Description: | POTOMAC RIVER WTP IMPROVEMENT - EXPANSION<br>FROM 6 MGD TO 10 MGD | Review by:   | A. MARCHUN <span style="border: 1px solid blue; border-radius: 50%; padding: 2px;">Am</span> |
| County:              | BERKELEY  | Date:        | 9-9-22   |

| No. | Review Criteria  | Yes | No | N/A | Comments (Especially if No is indicated or providing a DWTRF score)   |
|-----|--|-----|----|-----|---|
| 1.  | Does the district agree that the project scope seems to be the most feasible solution?                 | ↓   |    |     | Berkeley Co. continues to experience rapid growth and the utilities are struggling to meet the increased demand |
| 2.  | Is this the most practical project to correct the problem stated in the application?                   | ↓   |    |     |   |
| 3.  | Does the project solve the major operation maintenance problems in the water system?                   | ↓   |    |     |   |
| 4.  | Does the project eliminate deficiencies noted in the sanitary survey?                                  |     |    | ↓   |   |
| 5.  | Should these improvements be made to this system versus another system that could serve the same area? |     |    | ↓   |   |
| 6.  | The application has an alternative in it evaluating the most likely consolidation option?              |     |    | ↓   |   |
| 7.  | Do you agree with the need statement for the project?  | ↓   |    |     |   |
| 8.  | Has the engineer included all justification (that you are aware of) in the project application?        | ↓   |    |     |   |
| 9.  | Is the management of the water system capable of completing this project?                              | ↓   |    |     |   |

| <b>No.</b> | <b><u>Review Criteria</u></b>   | <b><u>Yes</u></b> | <b><u>No</u></b> | <b><u>N/A</u></b> | <b><u>Comments (Especially if No is indicated or providing a DWTRF score)</u></b> |
|------------|---|-------------------|------------------|-------------------|---|
| 10.        | Other comments  |                   |                  |                   |   |
| 11.        | For new projects or projects with revised scope provide DWTRF Priority Ranking Public Health Score (Indicate score in the comments section with explanation)? |                   |                  |                   |   |
| 12.        | For new projects or projects with revised scope provide DWTRF Priority Ranking Compliance Score (Indicate score in the comments section with explanation)?    |                   |                  |                   |   |
| 13.        |   |                   |                  |                   |   |
| 14.        |   |                   |                  |                   |   |



STATE OF WEST VIRGINIA  
**DEPARTMENT OF HEALTH AND HUMAN RESOURCES**  
Bureau for Public Health  
Office of Environmental Health Service

Bill J. Crouch  
Cabinet Secretary

Ayne Amjad, MD, MPH  
Commissioner & State Health Officer

**MEMORANDUM**

**TO:** Meredith Vance, Division Director  
Environmental Engineering Division

**FROM:** Valerie Plance, Manager  
Capacity Development Program

**DATE:** August 21, 2022

**RE:** Berkeley County PSWD PWSIDs#: 3300218/ Potomac River, 3300202 /Bunker Hill, 3300209 /  
Glenwood Forest  
IJDC Application No.: 2022W-2218  
Berkeley County

The Berkeley County PSWD preliminary infrastructure application indicates that they are not seeking DWTRF monies. The system marked the question regarding having an asset management plan as yes. The system does not have an Asset Management Plan approved by the BPH on file. The question about having had a capacity development assessment (CDA) within the last 5 years was marked as yes, this is correct as a CDA was performed at the Berkeley County PSWD in June 2022.

Additional information that may be helpful to the IJDC in their decisions regarding approval of funding requests for the system relates to the systems' overall compliance.

The Berkeley County PSWD-Potomac River system has a score of 10 on the July 2022 quarter of the EPA's Compliance Tracking tool (ETT) which, while below the EPA's action level of > 11; indicates that the system does have some compliance issues that need to be addressed soon. These unaddressed issues include:

- Failure to monitor for various analytes in 2021.
- Outstanding Public Notice requirements

The Berkeley County PSWD- Bunker Hill system has a score of 1 on the July 2022 quarter of the EPA's Compliance Tracking Tool which, while below the EPA's action level of > 11; indicates that the system does have some compliance issues that need to be addressed soon. These unaddressed issues include:

- Failure to monitor for various analytes in 2021.

The Berkeley County PSWD-Glenwood Forest system has a score of 0 on the July 2022 quarter of the EPA's Compliance Tracking tool (ETT.)

Based upon information from the Municipal Bond Commission, as of July 2022, the Berkeley County PSWD is current on their water reserve funding requirements.

If you require further information from the capacity development program, please contact me.

VAP