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Division of Water & Sewer | Administration & Engineering

December 1, 2017

American Contracting & Environmental Services Inc.
10330 Old Columbia Road, Suite 102
Columbia, MD 21046

RE: Joppatowne WWTP UV Disinfection System

Dear Ms. Campbell,

ACE Inc. began construction of the Joppatowne UV disinfection Project in March of 2016 and was completed by early April 2017. This 1 MGD Average (4 MGD peak) facility is located in Joppatowne Maryland. The plant discharges into the Gunpowder Creek, a direct tributary of the Chesapeake Bay. This project was designed to remove the Chlorine and sulfur Dioxide disinfection systems and replace them with an ultraviolet light disinfection system. The scope of this \$738,350-dollar construction project included:

- Modification of existing concrete tanks to fit the new UV units
- Construction of new effluent flow weirs and plant metering system
- Installation of the UV units into the modified chlorine contact tanks
- Installation of electrical power and instrumentation controls for the new system
- Modification of the existing plant SCADA system to monitor the new UV system
- Start-up, testing and operations training of the new system

RK&K was the engineer on this project through their office located in Baltimore MD. This project was developed as a Design / Build Project. ACE Inc. was teamed with RK&K engineering from the proposal stage through the final testing and commissioning of the system. This project also was funded 55% by an EPA grant that was administered by the Maryland department of the Environment.

Throughout the project ACE Inc. was able to sequence the work minimizing any impact to the plant operations. The facility continued to operate and function well throughout the construction period. The original project bid price was \$732,600. There was only one change order yielding an increase of only \$5,750 dollars, or less than 1% of the contract value. This low change order amount was achieved by a team effort from the Contractor, Owner and Engineer. When issues were found, they were quickly brought to the group's attention and resolved promptly to prevent time constraint issues. There was also a confidence level in the talent and abilities amongst all the team members which fostered the project success. The ACE Inc. team brought ideas, options and solutions when conflicts or problems were found.

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