

# City of Berryville

Public Works Department  
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April 21, 2017

Jacqueline Trotta  
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Jacqueline,

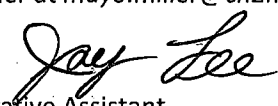
This correspondence serves as the 5-day written report regarding the 16 April, 2017, partially treated effluent discharge at the City of Berryville WWTP, AFIN #08-00034 Permit #AR0021792.

Between the hours of 0030 am and 0200 am on 16 April, 2017, the UV disinfection system intermittently shut off and allowed an estimated 12,600 gallons of partially treated effluent to discharge from the treatment facility into Mill Branch. The gate actuator that keeps the UV bulbs submerged in water experienced a mechanical failure. This mechanical failure prevented the water in the UV channel from maintaining a proper level and caused a portion of the top row of UV bulbs to be exposed to the atmosphere during low flow conditions; as a safety precaution to prevent additional equipment damage, the UV system powered down. This shut down allowed water to pass through the UV channel to the permitted Outfall 001 without receiving the disinfection portion of the treatment process. The approximate 12,600 gallons of discharged water during the shutdown period received treatment from all treatment processes at the facility, except UV disinfection. Repair parts have been ordered and are expected to arrive by 24 April. Operating procedures have been modified until the repair is complete to ensure the UV bulbs stay submerged and the system remains operational.

No adverse environmental impact has been observed and none is expected.

Please let me know if you have any questions or need additional information, or feel free to contact Mayo Miller at [mayo.miller@ch2m.com](mailto:mayo.miller@ch2m.com).

Jay Lee  
Administrative Assistant  
City of Berryville  
C: Mayo Miller, CH2M  
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