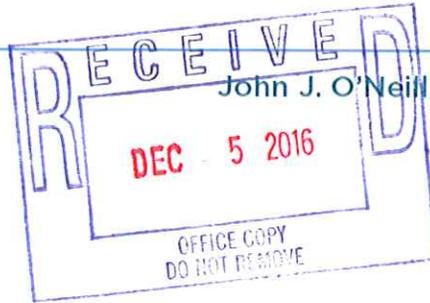




Larry Hogan, Governor

John J. O'Neill, Jr., Deputy Director



November 18, 2016

Town of Myersville
Honorable Wayne Creadick, Jr.
Mayor, Town of Myersville
301 Main Street
Myersville, MD 21773

Dear Mayor Creadick:

The Maryland Environmental Service (MES) is pleased to submit the FY 2016 Annual Report for the town of Myersville Water and Wastewater Facilities.

This report is designed to provide an overview of our activities at your facilities. We have maintained a format similar to prior years to allow easy reference and comparison. In addition to highlighting operations activities, the report contains useful information regarding budgetary expenditures, regulatory permit status, and flows. The section entitled "Scheduled or Recommended Improvements" lists any significant planned or proposed improvements which MES believes will make the operation more efficient and reliable.

At MES, it is our belief that communication is essential to our success. Once you have had the opportunity to review this report, I encourage you to contact me at (410) 729-8390 if you would like to discuss any aspect of our operation. On behalf of the entire staff, thank you for the opportunity to be of service and we look forward to continuing our relationship in the future.

Kind regards,

A handwritten signature in black ink, appearing to read "John Kane", written over the typed name and title.

John James Kane Jr., Esq.
Executive Director
Maryland Environmental Service
Water and Wastewater Group

**Town of Myersville
Water and Wastewater Treatment Facilities
FY 2016 Annual Report**

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FY 2016 REPORT

OPERATIONS & MAINTENANCE SUMMARY

SCHEDULED OR RECOMMENDED IMPROVEMENTS

REGULATORY COMPLIANCE STATUS

Maryland Environmental Service
Water and Wastewater Group
259 Najoles Road
Millersville, Maryland 21108

FY 16 WATER TREATMENT PLANT REPORT

FY 16 Budget	\$ 109,039
FY 16 Actual	\$ 97,403
FY 16 % Budget Spent	89.3%
FY 17 Budget	\$ 110,674

WATER PLANT OPERATIONS AND MAINTENANCE SUMMARY

The Maryland Environmental Service (MES) has operated and maintained the Town of Myersville Water Treatment Facilities in a manner to ensure compliance with all regulatory and permit requirements. The water treatment facilities were operated with "zero violations" during the past fiscal year. Listed as follows are the notable operations and maintenance activities that have occurred at the treatment facilities during FY 2016:

- The MES operations staff utilized an outside contractor to perform the MDE required annual flow meter and chart recorder calibrations.
- The MES operations staff performed preventive maintenance on the water treatment process equipment.
- The MES maintenance crew performed the following repairs: replaced a faulty relay for the backwash waste pumping station; replaced the control time clocks at the Canada Hill wells 1 & 2 and Saber Ridge; and replaced the aged and faulting well control boxes for both Canada Hill wells.
- The MES operations personnel repaired the filter #1 finished water pump.
- The MES operations personnel coordinated a Town CIP project to pull and rebuild the clear well pump #2. The motor was also upgraded to 3-phase.

WATER PLANT SCHEDULED OR RECOMMENDED IMPROVEMENTS

- MES recommends the Town have the contractor that upgraded the Spring Area install removable or aluminum hatches on catch basins for compliance and maintenance inspections.
- MES recommends the Town locate and repair the on-going spring-line leak to allow increased gallons of raw water to the Town's upper storage reservoir.

- MES recommends the purchase of a small portable air-compressor for use in cleaning raw piping at the WTP. This will reduce plant down-time and operator maintenance time for this task. Estimated Cost: \$250.00
- MES recommends that the entry doors at Deerwood either be repaired or replaced. The bottoms of the doors are rusted with holes, causing harbor for wasps and bees. Also, the doors are very hard to operate due to years of use. Cost Estimate: Unknown.
- MES recommends that the damaged fence surrounding the water storage tower be repaired. It was damaged by the snow removal contractor in the winter of 2016.

WATER PLANT REGULATORY COMPLIANCE STATUS

FY16 Average Daily Flow: 91,239-gallons per day
 Total Flow: 33.3935-million gallons

To satisfy State laws, this plant is required to monitor the distribution for 1 individual parameter. During FY16 this required a minimum of 24 separate analyses and measurements to be performed. This facility violated the Total Coliform requirement 0 times for a compliance rate as follows:

PARAMETER	REQUIRED ANALYSES	VIOLATIONS	% COMPLIANCE
Total Coliform	24	0	100
TOTAL	24	0	100

- This chart does not include frequency violations- if applicable.

FY 16 WASTEWATER TREATMENT PLANT REPORT

FY 16 Budget	\$ 163,290
FY 16 Actual	\$ 145,884
FY 16 % Budget Spent	89.3%
FY 17 Budget	\$ 162,876

WASTEWATER PLANT OPERATIONS AND MAINTENANCE SUMMARY

The Maryland Environmental Service (MES) has operated and maintained the Town of Myersville Wastewater Treatment Facility in a manner to ensure compliance with all regulatory and permit requirements. The wastewater treatment facility was operated with "0 violations" during the past fiscal year. Listed as follows are the notable operations and maintenance activities that have occurred at the treatment facilities during FY 2016:

- The MES operations staff utilized an outside contractor to perform the MDE required effluent flow meter and chart recorder calibrations.
- The MES maintenance and operations staff pulled and/or maintained the raw influent pumps and plant blowers as required. This included replacing belts, changing oil, and greasing fittings.
- The MES operations crew maximized the plant treatment capabilities by using data studies and treatment tank profiles achieving very high nutrient removal efficiency.
- The MES maintenance crew replaced failing overloads at the Brethren Church Road pumping station, made needed ultra-violet system repairs, tested the starter for the SBR #1 mixer, replaced the aged and failed auto-dialer at the Canada Hill pump station #1 and pulled the McDonald's area pumping station pump #2 for repair and re-install.
- The MES operations crew coordinated the replacement of the recently failed air compressor dryer that conditions the air prior to it flowing to the delicate filter controls.
- The MES operations crew coordinated the replacement of the effluent filter air controls. The controls were antiquated and failing.
- The MES operations staff coordinated the replacement of the check and gate valves at McDonalds pumping station to prevent repetitive pump failure and wearing.

WASTEWATER PLANT SCHEDULED OR RECOMMENDED IMPROVEMENTS.

- The MES staff recommends the residents in the Ashley development be continually reminded about proper grease removal. This pumping station continues to be the most labor intensive due to grease accumulation.
- The MES staff recommends that the check valves at the Brethren Church pumping stations be replaced as was done at the McDonald's pumping station in 2015 to prevent pump failure and wearing.
- MES recommends that the entry doors on the WWTP chemical shed either be repaired or replaced. The bottoms of the doors are rusted with holes, causing harbor for wasps and bees. Also, the doors are very hard to operate due to years of use. Cost Estimate: Unknown.

WASTEWATER PLANT REGULATORY COMPLIANCE STATUS

FY16 Average Daily Flow: 113,349-gallons per day
Total Flow: 41.486-million gallons
Design Flow: 300,000-gallons per day

State Discharge Permit # 08-DP-0124, expired 04/30/16, currently in re-application phase.

Sewage Sludge Management:

348,657 gallons (1453.88 Wet Tons) removed in CY 15.
342,657 gallons (1428.88 Wet Tons) to Ballenger Creek WWTP.
6,000 gallons (25.0 Wet Tons) to Foxville Gardens WWTP for seeding.
CY 16 will not be available until January 2017.

- Transport to Ballenger Creek WWTP, permit # 2016-STR-4333, expires 03/29/26.
- Transport to Maryland Correctional Institution WWTP, permit # 2013-STR-4994, expires 03/05/18.
- Transport to Foxville Gardens WWTP for seeding, permit # 2013-STR-5037, expires 4/14/18.
- Transport to Greenbrier State Park, (seed sludge) permit 2014-STR-5120, expires 09/28/24.
- Local Frederick County Sludge Pretreatment Permit No. CP-025, expires 12/31/16.

To satisfy State laws, this plant is required to monitor the effluent for 6 individual parameters. During FY16 this required a minimum of 1,888 separate analyses and measurements to be performed. This facility violated the limitations in the NPDES permit *0 times* for a compliance rate as follows:

PARAMETER	REQUIRED ANALYSES	VIOLATIONS	% COMPLIANCE
BOD	104	0	100
TSS	104	0	100
e-Coli	12	0	100
NH3- mg/l	104	0	100
NH3- lbs	104	0	100
pH	730	0	100
Dissolved Oxygen	730	0	100
TOTAL	1888	0	100

- Due to on-going filter control issues, the filters were bypassed indefinitely, via MDE notice, until all air leaks are found and fixed from the existing air lines.
- This chart does not include frequency violations- if applicable.

Future Violation Prevention-Action Plan

MES has implemented the following in response to violation control.

- Maintain the chain of command for authorization of process control front and center.
- Implemented “white boards” with listing of permit limits, process control parameters and recent test results.