

Poolesville Sewage Flow Capacity Report

Date of this Report: **January 8, 2021**

Municipal Wastewater Treatment Plant Name: **Poolesville WWTP**

Permit Issued to: **Commissioners of Poolesville**

County Where Plant is Located: **Montgomery**

NPDES Wastewater Discharge Permit Number: **MD0023001**

State Wastewater Discharge Permit Number: **12-DP-0781**

Facility Address: **18901 Fisher Avenue, Poolesville, Maryland 20837**

Name/Title of Individual Completing this Form: **Seth Rivard, Town Manager**

Name/Title of Individual Certifying this Form: **Kerri Cook, Commission President**

Questions

1. Rated/design flow: .750 MGD and current permitted flow: **0.750 MGD or 750,000 GPD.**
2. Annual average flow in MGD for each of the three (3) complete previous years:
2018 flow/MGD: 0.764; 2019 flow/MGD: 0.609; 2020 flow/MGD: 0.630.
3-year average = 0.668.
3. Gallons and EDUs to determine the flow contribution for building permits issued per structure:
325 GPD/EDU
4. Number of building permits currently approved but not connected to the WWTP: **8**.
5. Total amount of additional flow in gallons represented approved building permits that have not been connected to date: **2,600 gpd.**
6. Potential flow when the flow from approved building permits not connected is added to the actual annual average plant flow in MGD for the last three (3) complete years: **0.670 MGD.**
7. Number of residential lots on approved record plats that have not applied for building permits and associated flow: **72 or 23,400 gpd.**
8. Number of commercial lots on approved record plats that have not applied for building permits and associated flow: **13,358 gpd.**
9. Three-year average annual flow: **0.668 MGD** (+) S1 building permits flow **0.003900 MGD** (+) prospective residential and commercial record plat flow **0.0478** (=) **0.707 MGD**
10. Were there any effluent violations, overflows, bypasses and causes reported to MDE (DMRs, Violation Notices and 5-Day Letters) associated with excessive flow at the WWTP and/or with the sewer system(s) that occurred during this reported period? **No**
11. Are there any planned WWTPs or sewer system upgrades, expansions or improvements decided on during this reporting period? **Yes**
12. Number of proposed future connections during this reporting period: **12**

13. Amount of additional flow represented by proposed future connections described above:
0.0039MGD.
14. Available treatment plant flow capacity remaining upon completion of proposed future connections described above: **0.039 MGD.**
15. Do flows from future connections and existing flow exceed flow? **No**
16. Are there any moratoriums or limitations on new building permit approvals currently in place? **No**
17. What is the “ultimate” flow capacity required if “build out” of the Town would occur based on the latest approved land use/zoning in the adopted master plan (as amended) for this reporting period?
750,000 GPD

Seth Rivard, Town Manager

Kerri Cook, President
Commissioners of Poolesville

2020 Annual Inflow and Infiltration Report

Monthly Flow Data

Month	Precipitation	WWTP Average Flow	WWTP Flow MG/Month
January	3.48	683,000	21.163
February	3.50	706,000	20.476
March	3.09	576,000	17.869
April	6.95	718,000	21.537
May	2.16	655,000	20.299
June	5.67	556,000	16.679
July	3.94	483,000	14.968
August	7.68	673,000	20.856
Sept	3.02	545,000	16.362
Oct	3.80	449,000	13.919
Nov	4.10	558,000	16.747
Dec	6.83	957,000	29.680
Total	54.22	7,559,000	230.555
Average	4.52	630,000	19.213

Amount of I&I Flows Handled by the Plant

Calculation methodology for determining the amount of I&I utilized the average of the lowest month to establish a baseline of 13.919 MG/month.

Month	Total Monthly Flow - MG	Estimated I&I Flows Handled - MG
January	21.163	7.244
February	20.474	6.555
March	17.869	3.950
April	21.537	7.618
May	20.299	6.380
June	16.679	2.760
July	14.968	1.049
August	20.856	6.937
Sept	16.362	2.443
Oct	13.919	0
Nov	16.747	2.828
Dec	29.680	15.761
		Total: 63.525
		MGD Average: 0.174

2020 I&I Reduction Actions

The Town has deployed several flow monitoring recorders throughout the Town to identify high I&I areas. Examination of Manhole 5, Manhole 6 and WWTP Wet Well, identification several I and I issue within the system.

2021 Planned Reduction Actions

The Town has identified several project areas for remediation and is in the process of identifying funding sources for conducting each remediation project. Currently there are six project areas that are identified.

It is hoped that funding for a number of these projects will be found this year, and thus resolve the I and I issues in those project areas.