|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **COG Region Major Wastewater Plants (> 2 MGD) – Status Information** | | | | | |
| **Major Wastewater Plants** | **STATE** | **MGD** | **ENR/SOA Implementation Schedule**  ***(as of 12/6/2016)*** | **2016**  **Annual Flow**  **MGD**  **(from CBP)** | **Projected Annual Flow**  **MGD**  **(Year 2045 - Round 9.0)** |
| Blue Plains | DC | 384[[1]](#footnote-1) | 2018 | 275.3 | 364.49[[2]](#footnote-2) |
| Bowie | MD | 3.3 | 2011 | 1.54 |  |
| Ballenger Creek | MD | 6 | 2014 | 6.84 |  |
| Parkway | MD | 7.5 | 2013 | 6.4 |  |
| Fort Detrick | MD | 2 | 2011 | 0.85 |  |
| Frederick | MD | 8 | 2017 | 6.42 |  |
| Mattawoman | MD | 20 | 2007 | 9.88 |  |
| Seneca Creek | MD | 26 | 2017 | 14.42 |  |
| Piscataway | MD | 30 | 2012 | 24.86 |  |
| Western Branch | MD | 30 | 2017 | 19.14 |  |
| Dale City #1 | VA | 4.6 | 2013 | 2.74 |  |
| Dale City #8 | VA | 4.6 | 2013 | 2.89 |  |
| Leesburg | VA | 7.5 | BNR - No ENR | 4.09 |  |
| Broad Run | VA | 11 | 2021 | 4.05 |  |
| H.L. Mooney | VA | 24 | 2013 | 13.84 |  |
| Arlington | VA | 40 | 2011 | 22.93 |  |
| Alexandria | VA | 54 | 2015 | 32.72 |  |
| UOSA | VA | 54 | 2014 | 32.1 |  |
| Noman Cole | VA | 67 | 2013 | 36.92 |  |
| **TOTAL** |  | **783.5** |  | **517.93** | **735** |
|  |  |  |  | **66% of Capacity** | **94% of Capacity** |

**Wastewater Flow Forecast Methodology - Update & Scheduling**

The Regional Wastewater Flow Forecast Model (RWFFM) was originally created just for the Blue Plains Service Area (BPSA) to assist the Blue Plains Users with their long-term planning needs. It was subsequently expanded by COG staff to assist in region-wide planning. The last formal update of the BPSA methodology was done in 2009 by Black & Veatch on behalf of the Blue Plains Users. As part of their ongoing long-term planning efforts, the Blue Plains Users have agreed to update the RWFFM again. This update l: first evaluate flow projection methods used in the region; and then re-examine the 2009 base year flows, and assess whether the flow factors and I/I assumptions that are currently used in the RWFFM – and determine if they are still appropriate.

COG staff will review the existing information, and draft a scope of work by spring 2018. COG expects to be able to initiate a contract by mid-2018. As part of the investigation phase, COG staff will be contacting various COG members to find out more about their flow projection methods and trends.

Although the projected 2045 annual flow for individual plants are not shown, COG intends to work with these wastewater treatment plants separately on how their flow can be managed so that they do not exceed their maximum capacity.

**COG Staff Contact:** Nasser Ameen [ameen@mwcog.org](mailto:ameen@mwcog.org)

I:\WRTC\2017\November WRTC\ MAJOR WWTP ENR & BPSA FLOW PROJECTIONS

1. Blue Plains WWTP’s draft permit reflects DC Water’s request to change their average hydraulic capacity to 384 mgd - to reflect inclusion of 14 mgd of captured stormwater due to implementation of their CSO Long-term Control Plan. [↑](#footnote-ref-1)
2. Projected flows to Blue Plains reflect diversion of some future Fairfax flows in the BPSA to other WWTPs (i.e., Noman Cole and/or Broad Run) based on Fairfax County’s flow management planning assumptions. [↑](#footnote-ref-2)