# Flow Monitoring and Information Management

Under sub-paragraph 9.h., the City is required to report on rainfall and flow monitoring up to two years following completion of all Phase I and Phase II Projects.

Table 1-1 summarizes rainfall and flow monitoring data for the three month period ending thirty (30) days before the end of the Calendar Quarter. An electronic data table provided as an attachment via compact disk to this Quarterly Report contains this information.

Table 1‑1. Rainfall and Flow Monitoring at SSO Structures

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Flow Monitoring Location** | **Number of Activations** | **Total Volume (MG)** | **Peak Flow (MGD)** | **Rain Gauge Location** | **Total Rainfall Volume (in)** | **Peak Hourly Rainfall Intensity (in/hr)** |
| P8\_04\_67S | 1 | 0.013 | 0.311 | JF12 | 9.69 | 1.11 |
| P8\_07\_72S | 2 | 0.010 | 0.000 | JF12 | 9.69 | 1.11 |
| P8\_10\_135S1 | 0 | 0.000 | 0.000 | GF07 | 8.41 | 1.18 |
| P8\_HL\_SW011 | 0 | 0.000 | 0.000 | GF09 | 10.09 | 1.92 |
| P8\_HL\_SW021 | 0 | 0.000 | 0.000 | GF09 | 10.09 | 1.92 |
| SSO\_152\_CHARLES | 2 | 0.006 | 0.088 | JF12 | 9.69 | 1.11 |
| SSO\_154\_CHARLES | 0 | 0.000 | 0.000 | JF12 | 9.69 | 1.11 |
| SSO\_155\_GLEN2 | 0 | 0.000 | 0.000 | GF09 | 10.09 | 1.92 |
| SSO\_156\_CHARING\_CROSS4 | 0 | 0.000 | 0.000 | GF07 | 8.41 | 1.18 |
| SSO\_157\_32ND\_STREET3 | 0 | 0.000 | 0.000 | JF12 | 9.69 | 1.11 |

1. Meter permanently removed on 1/17/2024 per Baltimore City’s request
2. Meter permanently removed on 11/9/2023 per Baltimore City’s request
3. Meter permanently removed on 6/28/2024 per Baltimore City’s request
4. Meter permanently removed on 6/18/2025 per Baltimore City’s request

Updates to the City’s hydraulic model of the Collection System have been performed based on improvements to the collection and transmission system. The hydraulic model is a mathematical representation of the sewer system (pipes 10” or larger) that can be used to perform detailed hydraulic calculations necessary to accurately represent a wastewater collection system. The model enables the City to consider a wide array of system conditions and alternative solutions. It is used by the City to get an overall picture of system behavior and more accurately predict how the system will respond under various loading scenarios. The Collection System improvements incorporated this Calendar Quarter include Phase I MCD projects, other City Capital Improvement Projects, and projects implemented by Baltimore County.