

Tunnel Storage Capacity

Much of the storage capacity in today's tunnel system, totaling over 38 million gallons (mg), is provided by inflatable dams. (See Table 1)

Table 1 – Present tunnel storage provided by inflatable dams

| Structure Number | Combined Sewer | Storage Elevation | Storage Volume (mg) |
|------------------------------|---------------------------------|-------------------|---------------------|
| 14 | B St./N.J. Ave. Trunk Sewer | 3.00 | 18.32 |
| 15 | | -1.00 | Note 1 |
| 15a | | -1.00 | Note 1 |
| 16 | Tiber Creek Trunk Sewer | 4.00 | 9.07 |
| 24 (west & middle dams) | Northeast Boundary Sewer | 12.00 | 7.61 |
| 24 (east dam) | | 12.50 | |
| 34 | Easby Point Trunk Sewer | 8.50 | 1.12 |
| 35 | East Rock Creek Diversion Sewer | 8.50 | 1.93 |
| 52 | Slash Run Trunk Sewer | 30.00 | 0.18 |
| Total Existing Volume | | | 38.23 |

Note 1: This dam does not store any sewage. Instead, it deflates to allow overflow to enter a Relief Sewer

LTCP – Future Tunnel Storage Capacity

Anacostia River Tunnel

The Consent Decree requires that the Anacostia River Tunnel system provide 126 mg of storage for CSO control.

Blue Plains Tunnel

The Blue Plains Tunnel, exclusive of shafts, provides 75 mg of storage. Of this total, 44 mg is for CSO control while the remaining 31 mg is for Enhanced Nitrogen removal (ENR).

The Blue Plains Total Nitrogen Removal/Wet Weather Plan identified an additional 31 mg of storage required for ENR, bringing the total required storage to 157 mg. (This is shown in Table 2)

Table 2 – Future tunnel storage for CSO and ENR

| Tunnel | Storage Volume (mg) | Purpose |
|---|----------------------------|----------------|
| Blue Plains Tunnel | 31 | ENR |
| | 44 | CSO |
| Anacostia River Tunnel | 39 | CSO |
| Northeast Boundary Tunnel (NEBT) – Note 2 | 33 | CSO |
| Shafts | 10 | CSO |
| Total | 157 | |

Note 2: The NEBT has additional volume for storage and conveyance in addition to the minimum required shown above

Potomac Tunnel

The Consent Decree requires that the future Potomac Tunnel provide at least 58 mg of storage.

Piney Branch Tunnel

The Consent Decree requires that the future Piney Branch (or Rock Creek) Tunnel provide at least 9.5 mg of storage.