

## WATER AUDITS AND LOSS REDUCTION REPORT 2020

Water audits are conducted to determine a system's actual demand and whether it has adequate capacity to meet its future demand. A comprehensive audit can provide the water system with a detailed profile of the distribution system and their water uses, allowing for more effective management of the resource and infrastructure.

The Water Supply Program is charged with ensuring the sustainability of the State's water resources and that the use of water is beneficial and non wasteful. As a condition of the water system's Water Appropriation and Use Permit, water audits are usually required for water systems serving greater than 10,000 people. Audits are completed annually using data from the previous year and report on whether the system can account for the use of withdrawn water. When more than 10% of water withdrawn is unaccounted for, it triggers the submission of a water loss reduction plan.

For the calendar year 2020, twenty-nine water systems serving a population of greater than 10,000 were required to submit a water audit report to the Maryland Department of the Environment. Aberdeen Proving Ground does not have sufficient metering to conduct a formal audit at the time of this report. Of the remaining 28 systems that completed an audit, 61% of the systems reported water loss below 10%, while 39% reported more than 10% water loss. Collectively these 28 systems produced 105.14 billion gallons (bg) of water in 2020. Of these billions of gallons, 17.63 bg were lost. While Baltimore City and Howard County serve populations over 10,000 people, these systems are not required to conduct a water audit. Baltimore City is statutorily exempt from obtaining a Water Appropriation and Use permit; Howard County receives its water from Baltimore City.

System	Population Served	2020 Loss	Water Loss Reduction Plan
Aberdeen	16,200	1.83%	N
Aberdeen Proving Grounds		*	*
Annapolis	35,000	25.78%	Y
Bowie	25,000	2.68%	N
Broad Creek (AA DPW)	23,179	6.67%	N
Cambridge	15,000	6.12%	N
Crofton-Odenton (AA DPW)	62,986	2.76%	N
Cumberland	27,039	29.74%	**
Easton	16,118	5.72%	N
Elkton	15,625	29.23%	Y
Frederick	54,000	9.30%	N
Freedom District	24,867	8.99%	N
Frostburg	11,000	8.49%	N
Fort George G. Meade	50,001	0.22%	N
Glen Burnie , Broadneck (AA DPW)	290,606	7.82%	N
Hagerstown	88,000	13.22%	Y
Harford County	104,567	19.97%	Y

Havre de Grace	14,000	19.98%	Y
Lexington Park	43,030	5.90%	N
MD American Water Co.	13,200	13.98%	Y
New Design	49,200	8.22%	N
Ocean City	30,000	9.41%	N
Ocean Pines	11,890	8.62%	N
Patuxent Naval Air Station	22,000	4.36%	N
Rockville	52,000	17.74%	Y
Salisbury	30,343	13.79%	Y
Waldorf	82,731	3.98%	N
Westminster	35,256	23.28%	Y
WSSC	1,800,000	19.61%	Y

NOTES:

\* Aberdeen Proving Ground does not have sufficient metering to conduct a formal audit at the time of this report.

\*\*Cumberland does not have a Water Appropriation and Use permit with the State of Maryland. Its sources are located in Pennsylvania and are subject to Pennsylvania permit requirements.

