

WATER AUDITS AND LOSS REDUCTION REPORT

2019

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, as the trustee of state drinking water resources, is charged with ensuring that State’s water resources are being utilized efficiently to maintain the sustainability of the resources. 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are completed annually using data from the previous year and report on whether the system can account for the use of withdrawn water. When more than 10% of water withdrawn is unaccounted for, it triggers submission of a water loss reduction plan.

For calendar year 2019, 29 water systems serving population of greater than 10,000 were required to submit a water audit report to Maryland Department of the Environment. However, Baltimore City and Howard County, two systems with populations over 10,000 people, are not required to conduct a water audit, since Baltimore City is statutorily exempt . These twenty-nine (29) systems completed an audit, and 45% of the systems reported water loss below 10%, while 55% reported more than 10% water loss. Collectively these 29 systems produced 106.8 billion gallons (bg) of water in 2019. Of these billions of gallons, 14.1 bg were lost.

System	Population Served	2019 Loss	Water Loss Reduction Plan
Aberdeen	16,200	1.94%	N
Annapolis	35,000	14.41%	Y
Bowie	25,000	10.79%	Y
Broad Creek (AA DPW)	23,179	2.70%	N
Cambridge	15,000	3.00%	N
Chapel Hill	13,152	4.71%	N
Crofton-Odenton (AA DPW)	62,986	1.60%	N
Cumberland	27,039	30.30%	*
Easton	16,118	9.81%	N
Elkton	15,625	30.77	Y
Frederick	54,000	9.48%	N
Freedom District	24,867	9.34%	N
Frostburg	11,000	12.73%	Y
Fort George G. Meade	50,001	<0.01%	N
Glen Burnie , Broadneck (AA DPW)	290,606	5.20%	N
Hagerstown	88,000	13.10%	Y
Harford County	104,567	18.91%	Y

Havre de Grace	14,000	20.11%	Y
Lexington Park	43,030	12.20%	Y
MD American Water Co.	13,200	18.50%	Y
New Design	49,200	6.16%	N
Ocean City	30,000	11.13%	Y
Ocean Pines	11,890	12.21%	Y
Patuxent Naval Air Station (NAWCAD)	22,000	7.70%	N
Rockville	52,000	15.80%	Y
Salisbury	30,343	13.67%	Y
Waldorf	82,731	4.75%	N
Westminster	35,256	23.03%	Y
WSSC	1,800,000	18.18%	Y

Note: Howard County receives its water from Baltimore City.

*Cumberland does not have a Water Appropriation and Use permit. Its sources are located in Pennsylvania and are subject to Pennsylvania permit requirements.