

**WATER AUDITS and LOSS REDUCTION REPORT
2014**

Water audits are conducted to determine the amount of water lost from a distribution system due to leakage, storage overflow, water theft, and/or water meter malfunctions. A comprehensive audit can provide the water system with a detailed profile of the distribution system and the water uses allowing for more effective management of the resource and infrastructure.

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 how efficient the systems are operating. When water loss is greater than 10%, it triggers submission of a water loss reduction plan.

For calendar year 2014, the State has 31 water systems serving a population greater than 10,000 people. For calendar year 2014, 29 of these systems completed an audit and 41% of the systems reported water loss below 10%, while 59% reported more than 10% water loss. Collectively the State produced 102,460 million gallons (mg) of water in 2014. Of those millions of gallons, 14,419 mg were lost.

System	Population	2014 Loss	Water Loss Reduction Plan
Aberdeen	16,200	7.40%	N
Annapolis	35,000	13.50%	Y
Bowie	25,000	14.00%	Y
Broad Creek (AA DPW)	22,479	3.30%	N
Cambridge	15,000	10.50%	Y
Chapel Hill	13,152	18.00%	Y
Crofton-Odenton (AA DPW)	62,986	6.72%	N
Cumberland	23,600	25.58%	**
Easton	11,760	8.49%	N
Elkton	12,458	20.00%	Y
Frederick	54,000	7.00%	N
Freedom District	23,687	6.00%	N
Frostburg	11,000	10.40%	Y
Fort George G. Meade	50,001	0.20%	N
Glen Burnie, Broadneck (AA DPW)	239,447	8.64%	N
Hagerstown	88,000	20.82%	Y
Harford County	104,567	12.37%	Y
Havre de Grace	14,000	4.80%	N
Lexington Park	39,056	7.00%	N
MD American Water Co.	13,200	18.10%	Y
New Design	40,241	15.40%	Y
Ocean City	30,000	23.00%	Y
Ocean Pines	11,800	16.50%	Y

Patuxent Naval Air Station (NAWCAD)	22,000	8.00%	No metering
Rockville	46,500	14.80%	Y
Salisbury	30,343	16.00%	Y
Waldorf	70,640	1.13%	N
Westminster	35,256	22.30%	Y
WSSC	1.8M	16.00%	Y

Table 1 Water 2014 Audit Submission Summary

Note: Baltimore City and Howard County both have populations over 10,000 people; however a water audit for these systems is not required.

Cumberland does not have a Water Appropriation and Use permit and is not required to prepare a water loss reduction plan.