

Table 7 - Municipally-Owned Community Sewerage Systems  
 revised July 22, 2016

Name	Treatment	2014			2020		
		Population Served	ADF (MGD)	Capacity (MGD)	Population Served	ADF (MGD)	Planned Capacity (MGD)
Cecilton	SBR	663	0.062	0.100	700	0.07	0.100
Cherry Hill	ext. aer., fil., chem	645	0.070	0.250	Conveyed to Meadowview		
Chesapeake City	ext. aer.	673	0.109	0.163	765	0.109	0.3
Elk Neck State Park	biol., cl., decl.	1,229 (Seasonal)	0.016	Permit 0.060 Design 0.108	Seasonal	0.016	Permit 0.060 Design 0.108
Elkton	oxidation ditch reactor	15,718	1.906	3.200	18,124	2.04	3.2
Harborview	ext. aer.	324	0.028	0.065	326	0.033	0.10
Highlands	ext. aer., chem., land appl.	329	0.037	0.050	Conveyed to Meadowview		
Meadowview (capacity includes ex. Highlands and Cherry Hill WWTP, and prop. Elkton West for 2020)	orbital w/disk filter, UV	1,353	0.327	1.000	2,559	0.4576	1.00
North East River Adv. WWTP (capacity includes Bainbridge and prop. Elkton West for 2020)	oxidation ditch - 4 stage bandenpho, UV	20,000	1.143	2.000	25,943	2.6	3.7
Perryville	SBR	4,361	0.810	1.650	5,296	0.81	1.650
Port Deposit	biol., chem.	653	0.067	0.150	<b>665</b>	<b>0.225</b>	<b>0.25</b>
Rising Sun	lagoon	2,781	0.188	0.275	3,006	0.31	0.50

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Name	Treatment	2030			2040		
		Population Served	ADF (MGD)	Planned Capacity (MGD)	Population Served	ADF (MGD)	Planned Capacity (MGD)
Cecilton	SBR	795	0.08	0.100	882	0.09	0.100
Cherry Hill	ext. aer., fil., chem	Conveyed to Meadowview					
Chesapeake City	ext. aer.	883	0.109	0.3	980	0.109	0.3
Elk Neck State Park	biol., cl., decl.	Seasonal					
Elkton	oxidation ditch reactor	21,224	2.35	3.2	23,603	2.59	3.2
Harborview	ext. aer.	340	0.034	0.10	352	0.036	0.10
Highlands	ext. aer., chem., land appl.	Conveyed to Meadowview					
Meadowview (capacity includes ex. Highlands and Cherry Hill WWTP, and prop. Elkton West for 2030 & 2040)	orbital w/disk filter, UV	2,860	0.4877	1.00	3,157	0.5174	1.00
North East River Adv. WWTP (capacity includes Bainbridge and prop. Elkton West for 2030 & 2040)	oxidation ditch - 4 stage bandenpho, UV	33,407	3.4	3.7			
Perryville	SBR	6,364	0.81	1.650	6,971	0.81	1.650
Port Deposit	biol., chem.	<b>798</b>	<b>0.270</b>	<b>0.4</b>	<b>958</b>	<b>0.324</b>	<b>0.4</b>
Rising Sun	lagoon	3,494	0.35	0.50	3,826	0.39	0.50

Notes:

- 1) Port Deposit's 2020 population is based on 0.9% growth from the 2015 population estimate of 659 persons. Per US Census Bureau figures, the town's population grew 0.9% between 2010 and 2015.
- 2) Port Deposit's 2020 planned capacity is based on the 250,000 gpd figure provided by DPW
- 3) Port Deposit's 2020 average daily flow was calculated by taking the estimated amount of residential use (45,000 gpd) and adding the estimated amount of commercial use (180,000 gpd). The 180,000 gpd commercial estimate includes the potential location of a large bottling facility on the Bainbridge site. The resulting estimated average flow is the combination of residential (45,000) and commercial (180,000) use.  $45,000 + 180,000 = 225,000$  gpd = 0.225 MGD
- 4) For the 2030 and 2040 population and ADF estimates, the projections assume that development in Bainbridge begins to happen. The figures assume a 20% increase in population and ADF over the previous decade's figures. (i.e. 2030's population is 20% larger than 2020's population)
- 5) In 2030, the planned capacity (MGD) of the plant will need to increase to accommodate projected flows. Module expansions of the plant happen in 0.15 MGD capacity increments.

Table 13  
 SUMMARY OF PLANNED SEWERAGE SYSTEM IMPROVEMENTS

revised July 22, 2016

Location	Description
Cecilton	None at this time.
CECO Utilities	Connect to Meadowview sewer system and decommission current lagoon treatment facility
Cherry Hill	Conversion of plant to a pump station; Convey sewage to expanded Meadowview WWTP for treatment
Chesapeake City	Construction of 300,000 gpd SBR to serve both sides of town; Extend sewer service to the Chesapeake Estates manufactured home park.
Elkton	Upgrade the permitted capacity of the WWTP to 5.0 mgd; Reduce rates of inflow and infiltration
Harbor View	Upgrade WWTP to ENR package plant having a 0.1 mgd treatment capacity.
Highlands	Conversion of plant to a pump station; Convey sewage to expanded Meadowview WWTP for treatment
Meadowview	Upgrade the WWTP capacity to 4.8 mgd to serve as regional WWTP for the Elkton West franchise area.
North East River Advanced WWTP	Upgrade plant to achieve enhanced nutrient removal at 2.0 mgd capacity; Additional plant expansions to 9.1 mgd and ultimate capacity of 11.3 mgd
Perryville	Correction of inflow and infiltration sources
Port Deposit	<b>Construct a new ENR packaged WWTP at a new location on the grounds of the former Bainbridge Naval Training Center; With an initial capacity of 0.25 MGD, the new WWTP will be designed to be readily expanded to accommodate increased flows; Construct pump station and force main to convey sewage from existing WWTP to new WWTP.</b>
Red Point Beach	Construction of a sewer collection system and treatment plant to address failing septic systems.
Rising Sun	Construction of new WWTP with total treatment capacity of 0.5 mgd; Replacement of undersized conveyance and collection lines