



2/5/2024

Henderson STEP Collection System O&M Costs			
O&M Task Description <sup>1</sup>	Task Frequency	\$/EDU/Month Cost	Money Available to Town at time of Task <sup>2</sup>
<b>Preventative Maintenance</b> - Verify Operation of Control Panel, Clean and Inspect Pump, Clean Effluent Filter, Measure Sludge & Scum in tank	3 Years	\$ 1.88	\$ 70.42 /EDU
<b>Reactive Maintenance</b> - Service Calls	2 Hrs/Month/100 EDUs	\$ 0.96	\$ 96.00 /100 EDU
<b>Equipment Replacement<sup>3</sup></b> - Pump Replacement	20 Years	\$ 1.73	\$ 618.19 /EDU
<b>Equipment Replacement<sup>3</sup></b> - Float Replacement	10 Years	\$ 0.73	\$ 105.17 /EDU
<b>Equipment Replacement<sup>3</sup></b> - Miscellaneous Equipment	10 Years	\$ 0.56	\$ 80.68 /EDU
<b>Solids Handling</b> - Tank Pump Out	10 Years	\$ 2.32	\$ 334.25 /EDU
<b>Total Cost Per EDU / Month</b>		<b>\$ 8.18</b>	

<sup>1</sup>O&M costs associated with mainline piping components are minor, and historically insignificant. Costs associated with operation and maintenance of mainline piping components is accounted for in each \$/EDU/Month cost.

<sup>2</sup>Costs assume that the town collects an equalized EDU Cost per Month over the life of the system, resulting in the Town developing a reserve account in the early years of the system. This reserve account is assumed to receive an annualized interest of 4%. The values indicated in this column would be available for each residential EDU in the system at the time of each task. Note that Reactive maintenance costs are conservatively not assumed to accrue any interest, as it is assumed that this money will be spent every month on reactive maintenance costs.

<sup>3</sup>Equipment Replacement costs assume that replacement occurs at 20-year or 10-year intervals, however replacement will occur only as needed. Pumps have a standard 10-year warranty, service life of 20 years, and regularly last for over 20 years. Pumps are field serviceable and rebuildable (both wet and dry ends)