

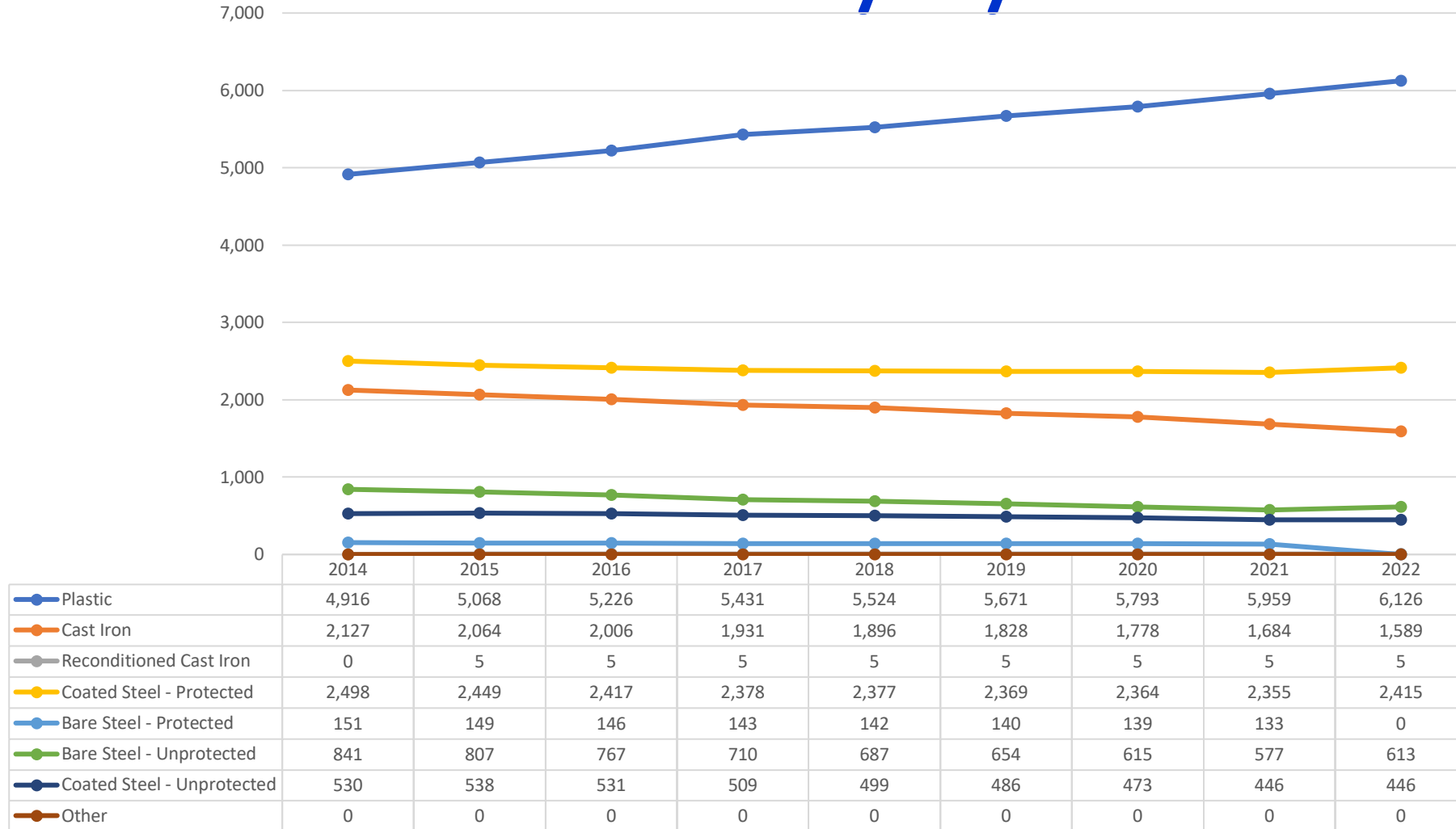
# GSEP Working Group Presentation

September 19, 2023

**nationalgrid**

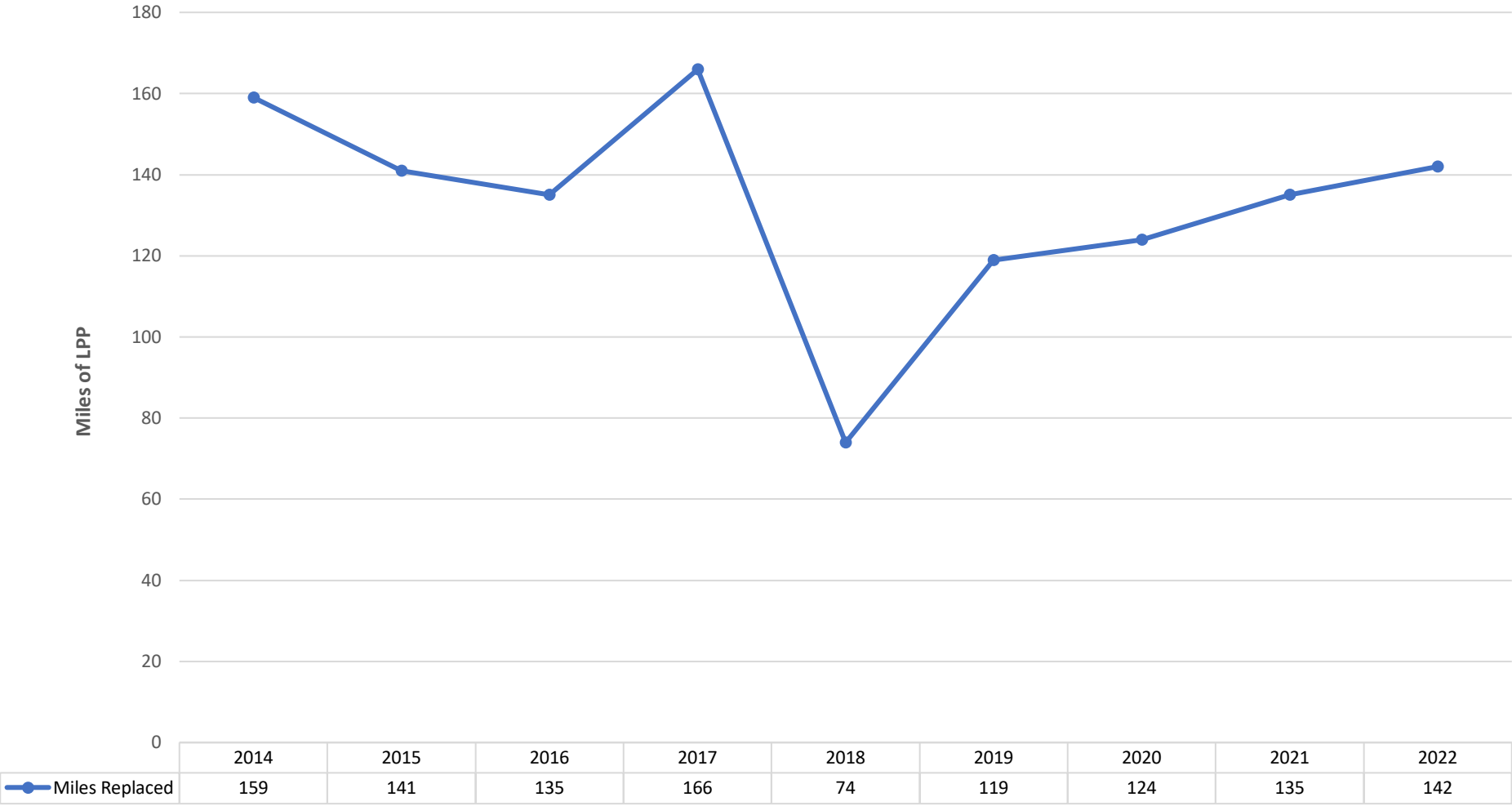


# MA Main Inventory by Material



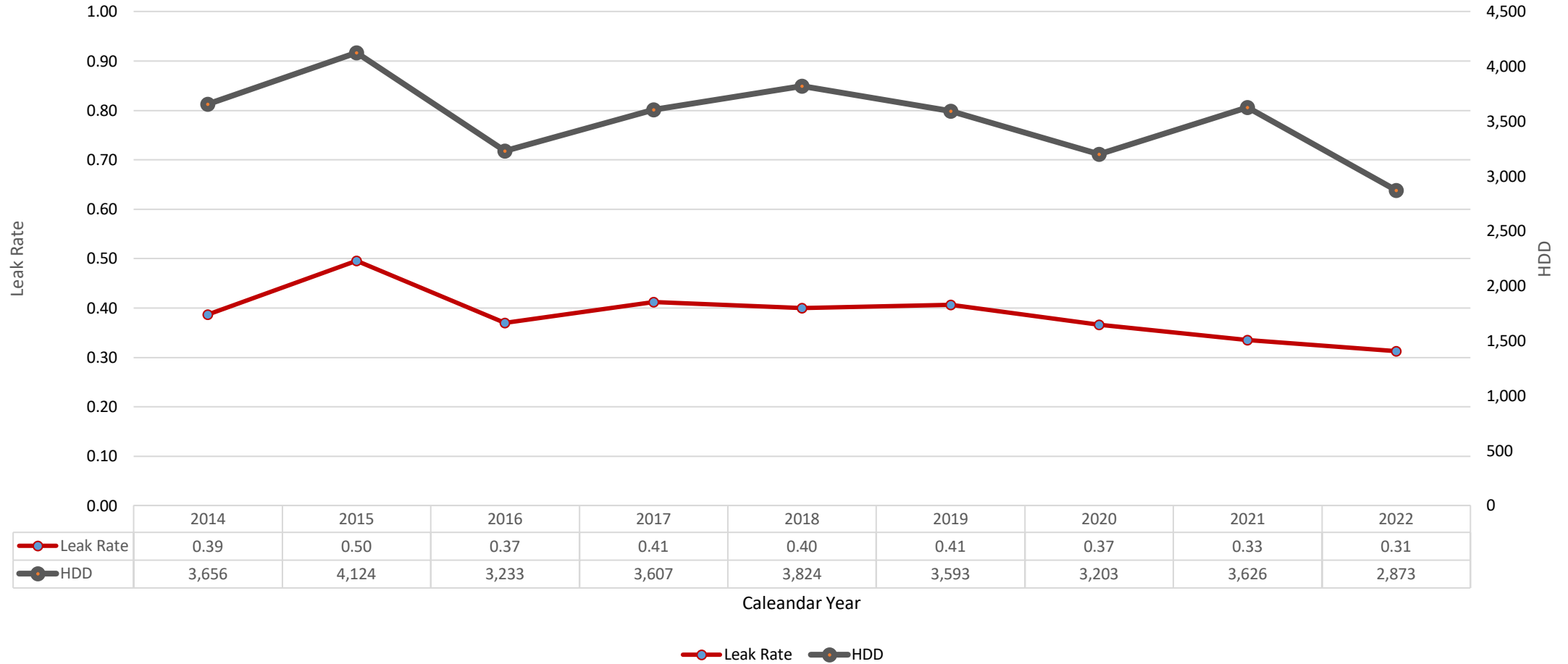
**Note:** In 2022, the Company reclassified, 133 miles of pre-1971 Bare Steel, Protected pipe as follows:  
 Protected Coated (56 miles) + Unprotected Bare Steel (77 miles) = 133 miles. The cathodic protection on the 77 miles of pipe reclassified from Protected Bare Steel to Unprotected Bare Steel inventory, could no longer be maintained.

# MA Leak Prone Pipe Main Replacement Through GSEP



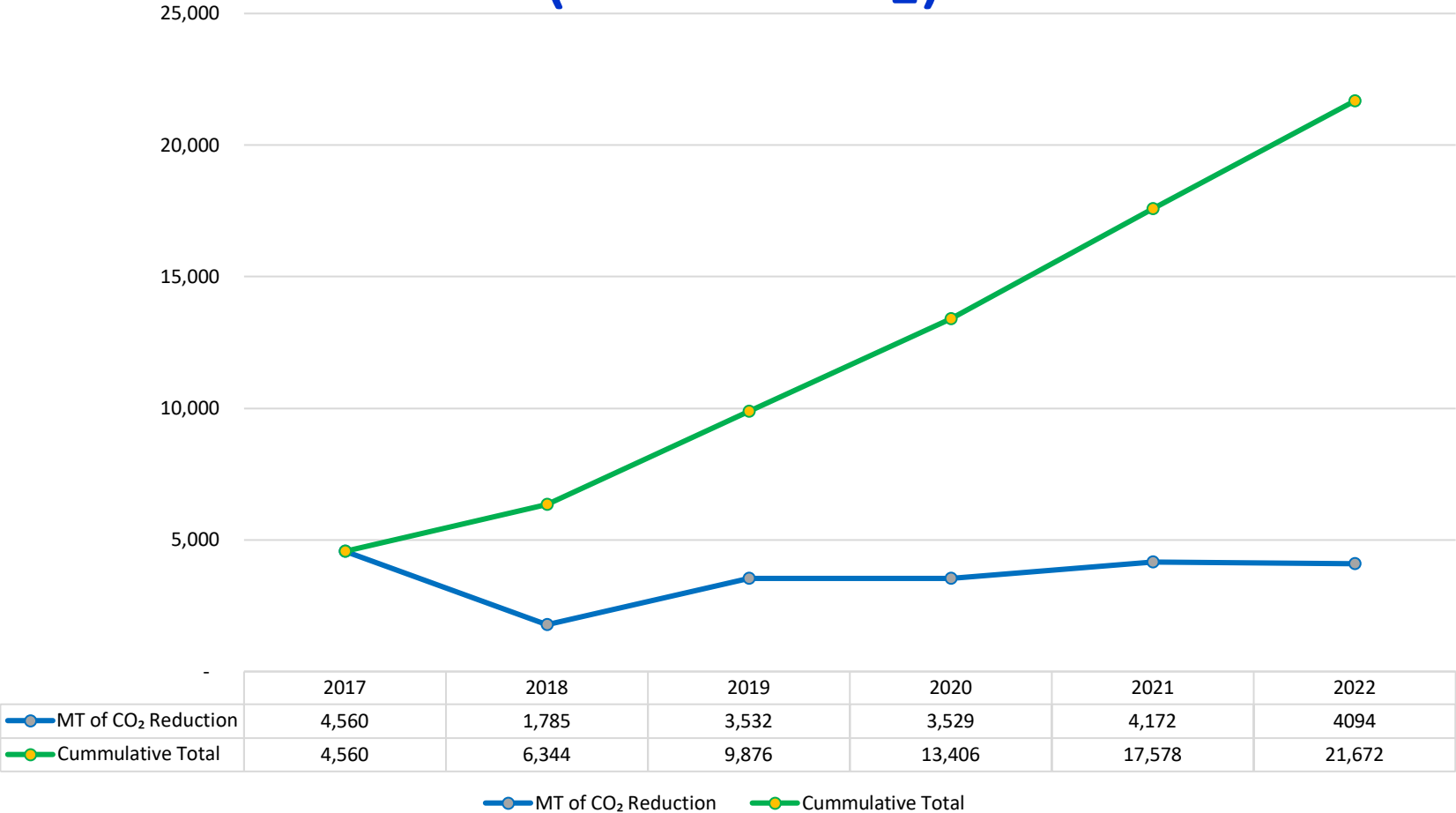
# MA Leak Receipt Rate

Leak Heating Degree Days



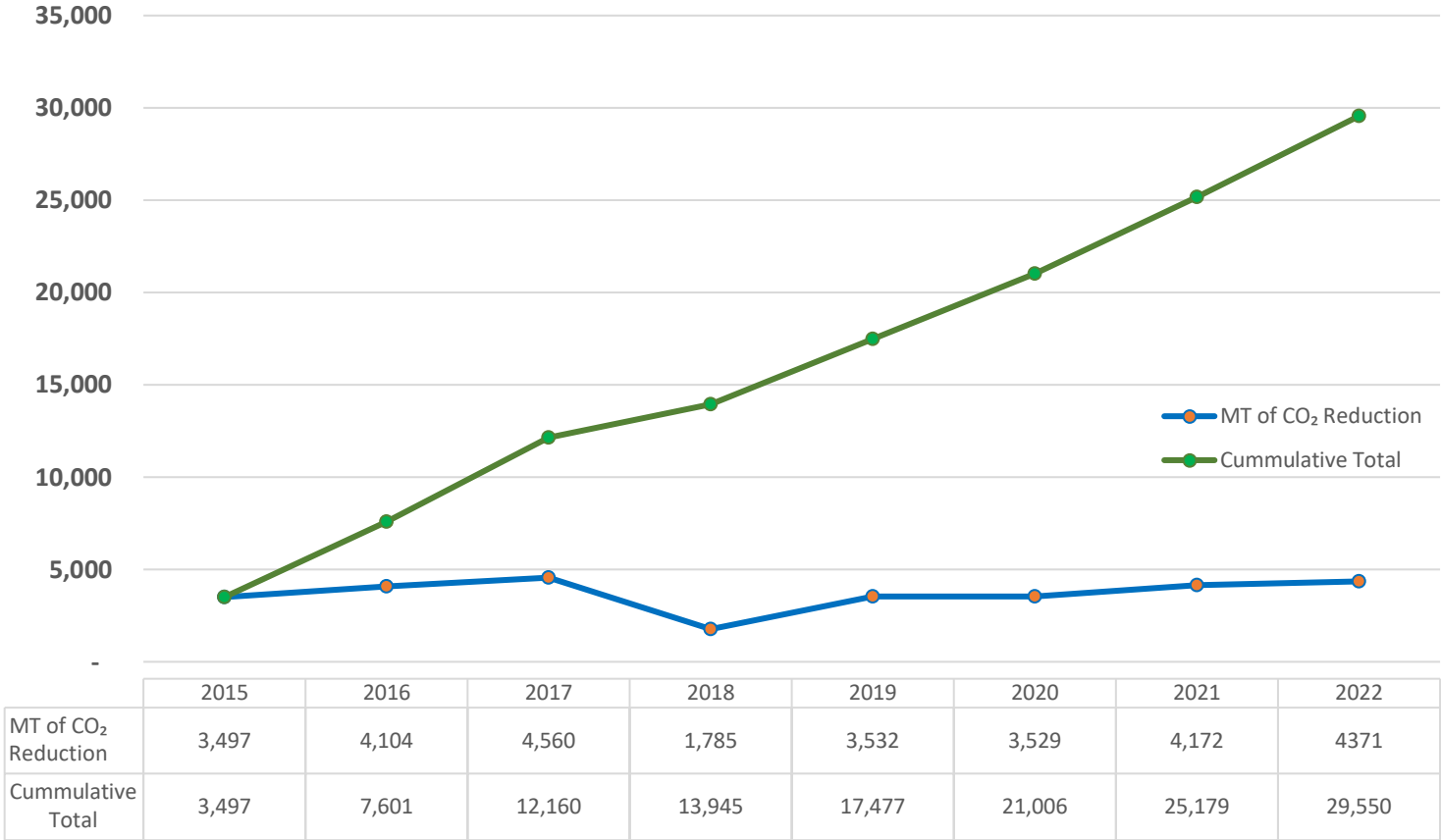
$$\text{Leak Receipt Rate} = \frac{\text{Leak Receipts (Excluding Damages)}}{\text{Total Miles of Pipe (Miles of Main + Miles of Services)}}$$

# MA Emission Reductions Through GSEP Program (MT of CO<sub>2</sub>)



**Note:** The emissions reductions listed in the table above assume that the indicated lengths of pipe materials are being replaced with an equal length of plastic distribution piping. Therefore, the emissions reduction is the difference between the emissions of the existing piping material and the projected emissions from an equivalent length of plastic pipe. The emission factors from 310 CMR 7.73 (5) Table 9, were used to calculate the emissions reductions. Pre-1985 plastic pipe replacements are not shown on the table as the regulation does not distinguish between pre-1985 plastic and all the other plastic pipe for emission factor purposes.

# MA Emission Reductions Through GSEP Program (MT of CO<sub>2</sub>)



**Note:** The emissions reductions listed in the table above assume that the indicated lengths of pipe materials are being replaced with an equal length of plastic distribution piping. Therefore, the emissions reduction is the difference between the emissions of the existing piping material and the projected emissions from an equivalent length of plastic pipe. The emission factors from 310 CMR 7.73 (5) Table 9, were used to calculate the emissions reductions. Pre-1985 plastic pipe replacements are not shown on the table as the regulation does not distinguish between pre-1985 plastic and all the other plastic pipe for emission factor purposes.