

ENVIRONMENTAL SUSTAINABILITY SUCCESS STORIES

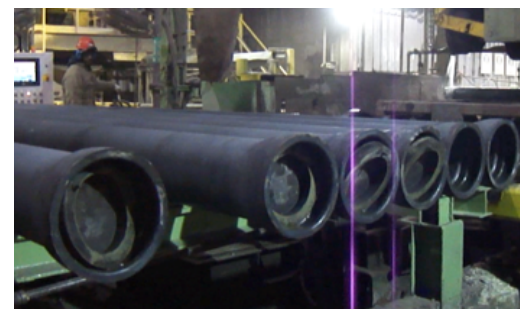


For Generations

ATLANTIC STATES

Bell and Spigot Plugs were implemented in the Cement Lining operations to reduce the amount of waste generated by the lining process. The plugs are placed in the bell and spigot ends of the pipe, which prevents the loss of the cement mixture during the spinning process that sets the cement to the interior wall of the pipe. Prior to use of the plugs, excess cement mixture had to be added to each pipe to ensure that the pipe had the proper cement lining.

As a result of using the plugs, waste generated from the lining process has been reduced by approximately 80 percent (reduction of 13,000 tons per year). Due to the improved application of the cement mixture, the sand/cement ratios were able to be modified to decrease the amount of cement and increase the amount of sand in the mixture, which reduced cost. This has resulted in a savings of approximately 1.75 tons per day of cement. These changes have also allowed for other improvements that reduce energy usage and improve efficiency. The total savings associated with implementation of the bell and spigot plugs is approximately \$485,000 a year.



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