

Coarse Screening

Johns Creek Environmental Campus



Once incoming wastewater is pumped from the influent pump station it enters into one of two coarse screens. The coarse screens are used to remove large objects such as rags, wood, plastic and other items that may damage downstream pumps, valves, pipelines, and equipment within the Johns Creek Environmental Campus.

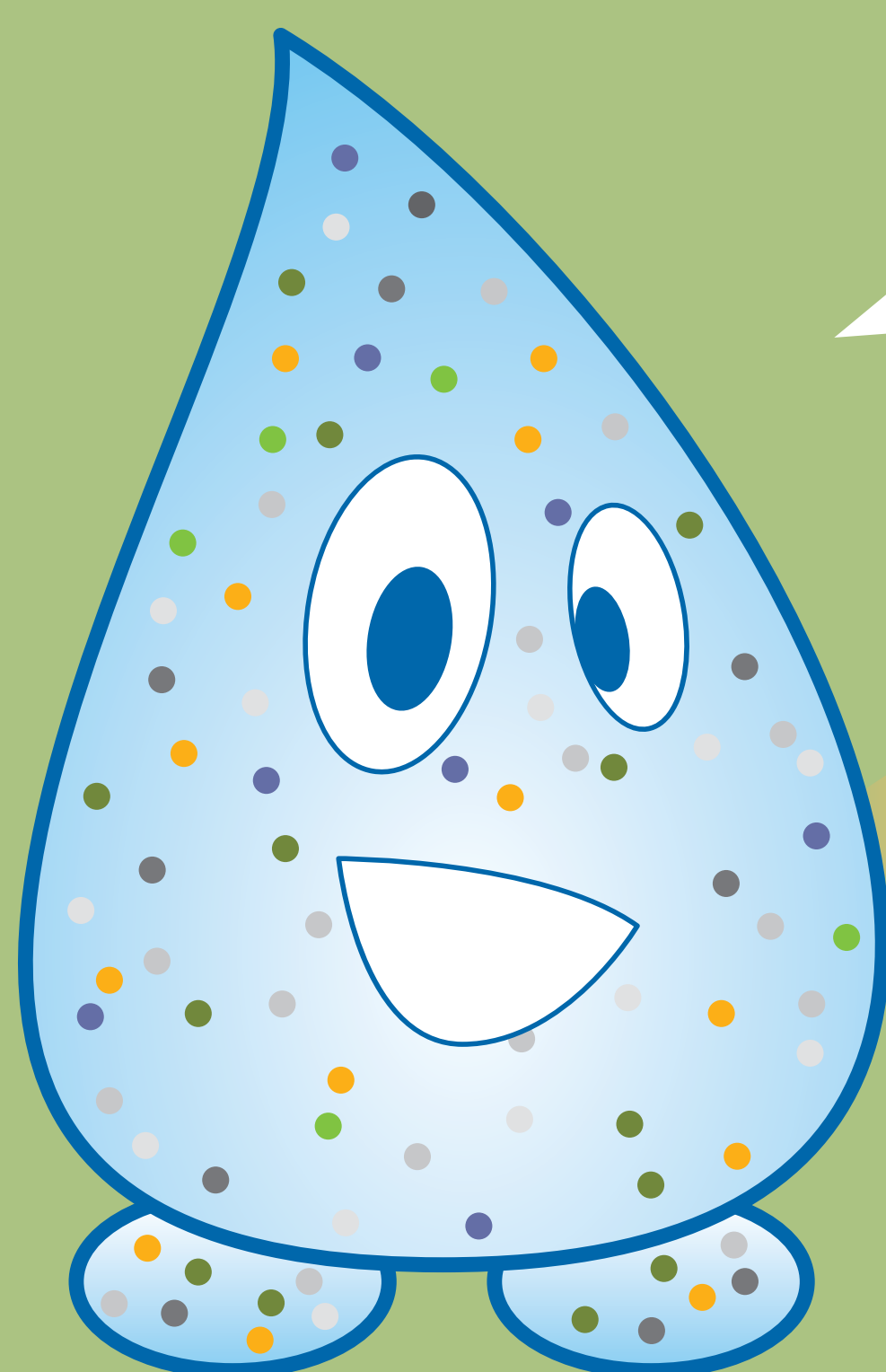
The coarse screens are “bands” that are composed of a continuous rotating series of plates with small openings about 6 millimeters in diameter. The openings allow flow to pass through the screen from the influent pumps, while capturing the larger objects as they are caught on the screens. The screens continuously rotate while the material is washed off the screen and collected. The collected material is called “screenings.” Screenings are collected and then pumped by a screenings pump to washpactors. Washpactors are used to wash organics off of the screenings to allow compacting for delivery to a dumpster. The washed and compacted screenings have a minimum of 50 percent solids content, which can then be easily landfilled.



Two parallel coarse screens are housed in the headworks building.



The screens remove material larger than 6mm in size.



THE COARSE SCREENS REMOVE TRASH AND LARGE OBJECTS SUCH AS RAGS, WOOD AND PLASTIC.



Coarse Screening Process Design Parameters	
Number of Screens	2 (1 duty / 1 standby)
Screen Type	Band Screen
Screen Opening Diameter	6 mm
Number of Screening Pumps	2 (1 duty / 1 standby)
Type of Screening Pumps	Submersible Chopper Pump
Flow Rate (each pump)	125 gpm