



DATE: 07/15/2021

PLANT: FORD LIGHTNING EV PLANT

APPLICATION: Sanitary Sewage Lift Station

PROBLEM: Plugged Sanitary Pumps, Clogged Drains & Plugged Toilets

ISSUE: The Ford EV150 facility was outfitted with 6 modular sanitary bathrooms. All 6 of these bathrooms became unusable due to the fact all of the original sanitary sewage pump became plugged, due to inability to process the sanitary debris. Therefore rendering 6 of the bathrooms inoperable for the employees.

IMPACT: Without the use of these bathrooms, the employees at the EV150 plant would not be able to utilize the bathroom. Maintenance workers were constantly exposed to raw sewage, while attempting to unplug the original pumping equipment.

SOLUTION: Switch out the existing/original sanitary pumps to a “Chopper” style pump, these pumps have proven to be capable of processing and chopping the sanitary waste that is constantly flushed down the bathroom toilets. Since replacing original pumps, the facility has not experienced any bathroom shut downs.

BENEFIT: Reduced maintenance of pumps, repair costs, improved pumping efficiencies, reduced energy costs by reducing pump run time, reduced down time eliminating workers from walking to the bathrooms out of their work areas.

TECHNOLOGY: By utilizing a “Chopping” technology, the pumps breakdown the solids and debris at the inlet of the pump, rather than trying to press the solids through the pump volute. This is achieved by the heat-treated impeller riding across the cutter bar creating the chopping effect.

ENVIRONMENT: Reducing the amount of odor associated with having to manually pump out the sanitary sewage basins.

