

CITY OF HAWK COVE



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Wastewater treatment plant update February 2023

Sludge wasted 10,000 gallons

Monthly pH average 7.4

Monthly Chlorine average 2.0

Monthly DO average. 2.4

Monthly influent treated average 320,000 gallons

Operating 2 of 3 blower motors

This month has been very busy at the wastewater plant regarding all the issues that we have had.

There was a complete buildup of grit that needed to be removed from the sewer plant. To my knowledge, this process may have never been performed since the plant was installed. This is a very crucial and necessary task that should be performed, under preventative maintenance, every two years to keep a healthy Wastewater plant and prevent these types of events. For those of you, who might not know definition of grit, it's small loose particles of stone or sand, inorganic material, (not consisting of or deriving from living matter) that is introduced to the plant from I & I issues.

The sludge return also was no longer working as I spoke about in the January 2023 report and this was likely caused from the buildup of grit and other materials deposited into the plant, over the years.

We contacted Quality Septic services for the grit removal from the plant. There was approximately a 4-foot-deep barrier of grit that was inside of the clarifier, which prohibited it from working properly.

Over 140,000 gallons of grit and sludge was removed.

Upon inspection, after the clarifier was drained and debris removed, workers observed a thick gauge wire, (approximately 1/8th to 1/4 inch gauge). Over 200 feet of this wire was wrapped around the bottom portion of the clarifier. The heavy gauge wire was also wrapped around the rake arm, which prevented it from turning and performing properly.

There is no known reason for this wire to be inside of the clarifier. I believe this to be sabotage, as there is no other possible explanation for its presence. This is the likely cause of the arm snapping off in other recent events. After the wire was removed, the clarifier arm spins freely and is now working properly.

All grit was pumped and removed from clarifier and the aeration basin.
Wastewater plant is running and operating at 100%
No issues to report currently.

All these issues had to be addressed in order for us to stay in compliance with TCEQ guidelines.

We now have a Wastewater plant that is operating 100% the way that it supposed to. A good healthy Wastewater plant and everything is operating properly.

Going forward- I will put the wastewater treatment plant on a preventative maintenance schedule for the GRIT REMOVAL to prevent a buildup.

Wastewater plant is operating, 100%
Wastewater operator
TCEQ License # WW0056929
James Mullis