

Village of Goodfield
Water and Sewer Committee Meeting
April 11 – 7:00p.m.
@ Village Hall - 114 S Eureka Street

Chairman Roger Mullins called the meeting to order at 7:00p.m. Present were Committee members Roger Mullins and Terry Nohl, President Jim Edwards, Engineer Duane Yockey and Public Works Administrator Josh Nohl, Assistant PWA Mike Carr and Attorney Mike Gifford.

The purpose of the meeting is to discuss the sewer treatment plant.

The Village received a violation letter from the IEPA on February 4, 2022. PWA Nohl wrote a response letter which did not satisfy EPA. Duane, Mike and Josh met on line with two representatives from the EPA and discussed the total suspended solids being out of compliance. Engineer Yockey put together a chart for influent and effluent for 2019, 2020 and 2021. We were out of compliance in 2020 and 2021 in the late summer/early fall. The Village has to write a letter to EPA with corrective action plan. Duane checked the STP and it seems to be working well. There are no issues with Biochemical Oxygen Demand (BOD), only Total Suspended Solids (TSS) are out of compliance.

We started brainstorming possible causes. Increased backwashing at the water plant from addition of 2 pressure filters could be a possible cause or part of the problem. We have a hauler bringing septic tank affluent and dumping into the plant. The campground dumps their tanks all year round but mostly late summer and early fall, which is when we have problems with TSS. In talking to EPA this was mentioned. They were somewhat concerned because septic tank affluent increases sludge in the lagoons. It is expensive to remove the sludge. Instead of monthly monitoring we plan to check TSS weekly. PWA has already gotten equipment to test weekly. Aeration could be keeping the solids suspended. Turning aerators off in parts of the plant could help solids to settle. We may have to reduce or eliminate the septic hauler from dumping into the lagoon or test any loads that are dumped. COVID could have played a role as well. During 2020/2021 there were more people at home. This was reflected in higher flows at the sewer plant and increased water usage at the water plant. Depending on the concentration of TSS in the campground waste, we could require pre-treatment. Terry asked about rain infiltration diluting the effluent. Corrective action plan possibilities could be increasing both influent and effluent monitoring to track TSS trends. Because we are taking weekly TSS samples we will be able to monitor to see if any corrective measures taken have an impact on effluent TSS. We could also sludge judge or sonar test annually to monitor the sludge depth in the lagoon. We will do diagnostic monitoring to see what is causing the problem. At that time another letter will be sent to EPA detailing our corrective measures. A drying bed could be installed as a pre-treatment. Solids would be filtered out and liquids would go to lagoon. The duckweed and algae in the rock filter are also factors that add to the increased TSS. There are options to reduce or eliminate the buildup of algae and duckweed.

PWA will draft a corrective letter and Engineer Yockey will review it so that it can be part of the April Board packet. The Village Board will need to be in agreement with the corrective compliance action response to the IEPA.

PWA Nohl informed the committee we are still having issues with the pressure filters at the Water Treatment Plant. The fresh water pump went out, which supplies the MIEX unit with fresh water. Right now the Miex unit is by-passed. Several years ago, phosphates that are added to the treated water,

loaded the resin in the Miex unit. We by-passed the Miex unit because we did not want to foul the resin with phosphates.

There being no further business, motion was made by Nohl, seconded by Mullins to adjourn.
Meeting adjourned at 8:03p.m.

Roger Mullins, Chairman