City of Bayard Wastewater Treatment Plant

April 2021

04-02-21: Call out alarm for bar screen failure.

04-03-21: Plant staff came out to plant to manually rake bar screens.

04-04-21: Call out alarm for the #5 influent wet well pump failure. Plant staff raked bar screens and patched power supply wire together to get automatic rake running.

04-05-21: Shut down the #3 digester to dewater.

04-06-21: Aquionics tech came down to the plant to install the wiper upgrade system. The #5 influent pump went BO plant staff pulled it out of the wet well. Started to dewater the #3 digester and pulled the sludge out of the #1 drying bed and turned the sludge in the #2 drying bed.

04-07-21: Aquionics tech worked on the UV wiper upgrade, told plant staff that the cabinets for the UV were obsolete and that there were no parts to replace some of the cabinets system if they went down. Dement Electric came down to the plant to run wiring for the #5 influent pump found the fuses in the box were eaten up and had to order some fuses also had to order a cable for the bar screen headworks. Plant staff worked in the Reclamation plant getting it ready to run.

04-08-21: Hauled sludge to the Silver City landfill, Plant staff installed a flush valve on the #5 influent pump. Aquionics tech worked in the UV room on the UV wiper upgrade.

04-09-21: Badger Western came down to the plant and installed the missing bolts in all of the digesters. Aquionics tech finished installing the UV wiper upgrade.

04-12-21: Plant staff tore down the #1 UV unit for a rebuild and polishing of the UV chamber, Plant staff found a piston pump rod broken and discovered that the part will have to be ordered from England. #2 UV unit has a failing alarm on intensity that may be due to the units being turned on and off by the tech when he was doing the wiper upgrade. Plant staff unable to swap the unit until the parts come in for the #1 UV unit because there is no way to put the #1 unit back together without the piston pump rod. Plant staff installed the #5 influent lift station pump and put it back on line. Turned all of the drying beds.

04-13-21: Bobcat lost a lift pin inside of the drying beds, unit unable to operate until new pin is installed. Plant staff worked on plant grounds.

04-14-21: Plant staff worked on cleaning up plant grounds.

04-15-21: Hauled sludge to the Silver City landfill.

04-19-21: Shut down the #3 digester to dewater, Turned the #1, #2, and #3 drying beds.

04-20-21: Started to dewater the #3 digester.

04-21-21: The Tech from CLA-Valve came down to the plant to work on the surge suppressor valve located in the effluent pump room. Plant staff watched the tech and were told how the valve was supposed to work. Plant staff exercised all of the valves in the effluent pump room.

04-22-21: Plant staff cleaned the Turbidity meter chamber and started to dewater the #1 digester.

04-26-21: Tom Kochvar came down to the plant to work on plant program.

04-27-21: Plant staff started working on patching the influent line that has developed more holes. Worked on the chlorine pump in the wash water room.

04-28-21: Plant staff put the #1 UV chamber together and got it ready to go back on line.

04-29-21: Plant staff exercised the valves in the reclamation plant and had to change out the turbidity meter pump and float switch.

04-30-21: The tech from CLA-Valve came down to the plant to continue working on the surge anticipator valve. The tech told plant staff that the valve is not working properly due to the low pressure that it is seeing. The Tech is going to try and reconfigure the valve with new piping and deleting one of the pressure diaphragms to see if the unit will operate with the lower pressure sitting. Another issue that the tech pointed out is that the check valves that are in use with the effluent pumps

are the wrong kind. The check valves that are in use are a ball check valves. This kind of check valve allows the ball to roll around in place while the water is coming back after the pumps shut down. The proper valves are called surge check valves and they have a spring that snaps shut when the pumps shut down. The tech said that the surge valves needed to be used with the surge anticipator valve to get the system to work properly and stop all of the water hammering that is taking place.