

**VILLAGE OF SUTTONS BAY
WASTEWATER TREATMENT PLANT
STAFF REPORT**
September 29, 2009 through October 28, 2009

MONTHLY PERMIT COMPLIANCE:

The treatment plant met all discharge parameters during the month of September. Thus far through October all discharge parameters have been met.

FOLLOWUP ITEMS:

- Both UV light modules are still performing well enough to give us near perfect results. With the addition of ferric chloride a marked improvement in effluent clarity has been noted. This has probably allowed us a few extra weeks of use with the old UV lamps.
- Met at the plant with Doug Coates of Gosling Czuback on 10-2 to go over unresolved issues from plant construction. Doug was back again on 10-7 with Gary Nealis the mechanical engineer who designed the Headwork's Building heat and ventilation system. Additional information was sent to Doug regarding repairs made to the system since it was built. They are to contact the manufacturer for information. I also exchanged information with Doug on clarifier covers. He has contacted vendors and we are waiting for information from them.
- SCADA system unresolved issues have been addressed. I worked with a programmer from Alpha-Tran over several different days to fix these issues. I also had them add a time delay, auto start function for activating the Waste Activated Sludge pump automatically. A glitch in some of the new programming caused a system wide communication error a couple of days after the final changes had been made. The programmer was able to fix it the same day.
- Received the couplings to make repairs to the Equipment Building drain sump pump discharge piping. Repairs were completed and the pump motor control circuit promptly failed. We have not yet identified the problem.

NEW ITEMS:

- Installed a rate controller assembly in the temporary chemical feed pump. The pump promptly stripped a gear in the drive assembly. Parts will be ordered later as the pump is not needed immediately.
- The permanent chemical feed pumps were cleaned and the Back Pressure Valve and Pressure Relief Valves in pump #2 were replaced. Pump #2 was tested, calibrated, and placed back in service. The old valves were disassembled and parts to re-build them were ordered. The Alpha-Tran programmer installed an operator adjustable SCADA pacing program that allows the chemical feed pump to automatically adjust its feed rate with changes in effluent flow. This was one of the major unresolved issues we felt was possible to change simply by re-programming the SCADA controls. The program works well and is already saving us chemical.
- The County Health Department performed an inspection of our Holding Tank Waste program. I provided the inspector with copies of HTW flows for the previous 12 month period. He inspected the plant facilities for unloading trucks and treating the waste.
- A valve in the chemical feed line at the Mixed Liquor Splitter Box failed creating a ferric chloride leak. Ben and Steve assisted in the repair. We used the Vactor truck to do the excavating which saved a lot of time kept the area excavated to a minimum. The valve was eliminated and will be relocated in the splitter box.

OTHER ITEMS:

- Replaced the halogen lamp in the laboratory spectrophotometer.
- Program error in the new WAS delay start program was corrected by Alpha-Tran.
- Integrity Software assisted with installation of applications on the SCADA computer and cell phone so that we now have real time access to the SCADA system via cell.
- Bridgeway Power was here to perform semi-annual PM on the plant generator.
- Completed and submitted the 2009 Annual Biosolids Report to MDEQ.
- Received quotes for materials to build a temporary cover on Clarifier #1.
- The lab's pH probe failed and a replacement has been ordered.

Respectfully submitted,

Dave Goen, Superintendent
Village of Suttons Bay Wastewater Treatment