

Hardwick WPCF Superintendents Report October 30, 2017

Completed:

9/8/17 SBR#1 RAS pump failure alarm at Wheelwright WWTP; Pump running on arrival at 12:30am. Reset alarm and it reactivated 5 minutes later although pump is still running. Called in ITS after not reaching Lagrant Electric; After much diagnoses on the way too complicated system they found a bad circuit board and swapped it with the good one for the tanker pump. We only run the tanker pump in hand and while we are on site so it's no big deal if it sends a false alarm. Ordered new controller from CSI to have on-hand for \$300.

9/12/17 Purchased and installed containment pallet for Sodium Hypochlorite drums at Gilbertville (\$225.)

9/12/17 Ordered 625 gallon Assmann double walled chemical tank for Wheelwright WWTP for use as EPIC58 storage. (quoted \$2,834.00, negotiated down to \$2724.75 delivered). Added \$95 extra fitting at the top of the tank to allow for more flexibility in the future, such as adding a fill pipe. 10/3/17 New tank unloaded at Wheelwright WWTP, moved inside 10/5/17 with assistance from Highway Dept. (Leo and Tony). Purchased fittings and pipe to construct fill pipe and fabricated/installed same; installed vent pipe.

9/26/17 Met with representatives from the MassDEP as well as Eagle Hill High School at the pump station to discuss problems and solutions. Also inspected manhole where first BPV is located to show maintenance and corrosion issues.

9/29/17 Marty called at 9am to ask if I could do a sewer connection inspection in a couple hours. Inspected new connection at 1030 Hardwick Road at 11am. Homeowner John Blackmer.

10/3/17 John Costa from Kaman Automation spent the day at Eagle Hill Pumping Station. Several changes were made to control wiring, float levels and an additional relay was added to allow float alarm to go directly to dialer instead of via PLC to offer some redundancy in the event of a PLC failure. He will be supplying us with updated prints and hopefully an O&M manual.

10/09/17 Walter Czabaj paid sewer connection and inspection fee for new building at 491 Main St.; Jason Gerulaitis will perform the work. Awaiting call to perform inspection.

10/11/17 Technician from Power Products at Eagle Hill PS to service generator (contracted service 2X/year)

10/29/17 Power outage alarms at Eagle Hill P.S. and Gilbertville WWTP. Very short outage, Young responded during regular weekend overtime.

10/30/17 Power outage at Wheelwright WWTP; one leg out, generator power on, reported to National Grid after several attempts. Reset several alarms at Eagle Hill P.S., reset #2 pump VFD failure at Gilbertville P.S. Removed downed tree from Mill Rd. Power restored and transferred to Wheelwright 12:45pm; generator performed well under load.

Ongoing:

-Wright/Pierce scanned/reproduced ancient maps for Wheelwright sewer system so staff here can mark them up and update them. We will need to determine type, length, and size of lines and mark manholes as they exist now. GIS plan for Wheelwright sewer system as well as camera inspection of all lines and manhole inspections will need to be done in the near future per DEP.

-Following up on complaint that homeowner at 772 Hardwick Road is experiencing problems with high backpressure on their E-1 sewage pump. Staff checked gauge during pumping: approached 70psi; staff bypassed #2 BPV at 11am 12sept17 per commission at meeting on 11sept17. Pressure dropped to zero as expected. Noted that no valve handles were provided for the 3-way plug valves on suction and discharge side of each BPV and they are an oddly shaped valve stem. Checked Eagle Hill station in A.M. and P.M. to get baseline of pumping rates, etc. Immediate impression of bypassing shows pumping rates have increased to around 100gpm average.

-Spoke to Bob Begin at Eagle Hill; we plan to coordinate with each other on Tuesday 10/31 to flush 5000 gallons of clear water into Wet Well at pump station and pump same through the system using both pumps in effort to clear a possible partial clog. (pump performance has been dropping slowly since bypassing both BPV's). 10/30/17 lead pump is averaging 48gpm.

-An observation in regards to Gilbertville. In my opinion, the pumps at the 'new' Gilbertville Pumping Station are too oversized. The WWTP was designed to operate on constant flow and as we continue to eliminate sources of I&I we will get less flow. One day last week, we had flow pumping into the WWTP for 5 hours out of 24. It makes the plant increasingly difficult to operate, especially in regards to chlorination, leachate pumping, and weekly sampling. It has also turned the pump station wet well into a giant grease trap (which is nice for the plant) with no way to get rid of the grease other than vacuum truck (\$\$).

-Glass and More requested I get a count of all padlocks and doors at facilities that we would like done to increase security. I counted 9 padlocks and 8 doors. He quoted \$2300.00 for 4 padlocks and 8 doors; no breakdown of what this includes and did not visit the sites. Called Holyoke Lock for estimate; they plan on coming Nov14 in order to formulate an estimate.

Proposals:

-Proceed with \$959.32 quote to repair 3 composite samplers at Gilbertville and Wheelwright. This includes 3 new Temperature Sensor Assemblies, 1 low-flow strainer, 1 insulation panel and professional installation of all.

-It was suggested by representatives from the DEP that we purchase a magnetic manhole cover lifter. I've thought about this many times myself but they are pricey (\$1200.+)

