

CUMBERLAND SANITARY SEWER UTILITY BOARD

February 7th, 2018 at 6:00 P.M.

Minutes

1. CALL TO ORDER

2. ROLL CALL

Utilities Assistant Katelynn Oleson called roll with Anna Pea and Bill McLaughlin in attendance. Absent was David Lahey. Also in attendance was the Director of Department of Public Works Ben Lipps, Town Manager April Fisher, and Town Attorney Dan Taylor.

3. CONSIDERATION OF MINUTES

*January 3rd, 2017 Minutes—Approved 2-0 with a motion made by McLaughlin and a second from Pea.

4. PUBLIC COMMENTS (Please limit comments to 5 minutes maximum)

James Deener- Was checking in to see if any progress had been made on the rate change for the apartments. April Fisher and Ben Lipps explained that there would be a rate study done in June to see about a possible change in rates.

5. FINANCIAL REPORT

* Invoices More Than \$5,000

- Astbury- \$12,358.00- Class 3 Certified Operator Oversight

* Claims Register—Approved 2-0 with a motion made by McLaughlin and a second from Pea.

6. OPERATIONS UPDATE

Gem Sanitary

- Ben hired Russel excavating to repair the hole in the air supply at the North Plant. When inspecting this work Ben found several other issues that needed addressed immediately. After talking to Anna Pea they declared an emergency to start repairing these issues as they created large safety concerns. The issues are as follows:
 - The ventilation system at the plants had failed years ago and was never repaired. This system helps remove the harmful gasses that accumulate in the plant, and slow down corrosion in the plants.
 - All of the control panels for the plant blowers have shorted wires in them and the emergency disconnects have been removed and the tree phase power sources have been crudely taped together. This is incredibly dangerous to the staff operating them.
 - Sections of the walkways above the tanks were rusted away and had unsecured boards running across the holes that staff were walking across.
 - Several of the diffuser arms were clogged and not functioning and several of the bubblers on the diffuser arms had never been replaced. These bubblers have an average life of 2-4 years.
- 222 new sewer connections since purchase of gem.
- 41 sewer customers delinquent or 6%
- BBC Pumps Has ordered the parts for the Barnes pump at the north Plant.
- Operations are within satisfactory levels
- Post aeration blowers need replacement at the North plant. Staff is seeking bids to complete this work.
- January 18
 - N. Plant Monthly Average Flow – 303,600
 - N. Plant Capacity Flow vs. Design – 72%
 - S Plant Monthly Average Flow – 35,000
 - S. Plant Capacity Flow vs. Design – 17%

Cumberland Sanitary

“The Town of Cumberland acknowledges its responsibility to comply with the Americans with Disabilities Act of 1990. In order to assist individuals with disabilities who require special services (i.e. sign interpretive services, alternative audio/visual devices, and amanuenses) for participation in or access to Town sponsored public programs, services, and/or meetings, the Town requests that individuals make requests for these services at least forty-eight (48) hours ahead of the scheduled program, service, and/or meeting. To make arrangements please contact Christine Owens, Director of Planning & Development at (317) 894-6202 or planner@town-cumberland.com. ”

December Operations

Permit Required Monitoring

- All sampling and analysis was completed in accordance with the NPDES permit. The monthly average Ammonia Nitrogen concentration was 5.7% of the permit limit, the Total Suspended Solids concentration was 30% of the permit limit, and the cBOD concentration was 10.4% of the permit limit. We are continuing to monitor Total Phosphorus daily on the influent and effluent. The monthly average influent phosphorus was 4.42 mg/L and the effluent was 0.956 mg/L. The percent removal was 78.3%.
- The area received approximately 1.12 inches of precipitation during the month. The daily max discharge volume was 1.455 MGD, due to the previously noted surge of around 1 million gallons on 12/15/17, compared with the daily average design flow of 1.5 MGD and a maximum daily flow of 4.0 MGD. The facility discharged a total of 19.64 million gallons for an average daily flow of 0.6335 MGD, which is 42% of capacity.

Sludge Management and Disposal

- Sludge wasting has been increased in order to keep solids levels within an optimal range. We are now wasting approximately 12,400 gallons/day. Solids concentrations are checked regularly and wasting is adjusted as needed.
- The digester was decanted in January when we had some warmer weather. We were also able to fill another geo-tube bag with thickened sludge. We will continue to try and decant and process sludge as the weather permits. The centrifuge will hopefully be back on line in the next 30 days, depending on weather and scheduling.

January Maintenance

Maintenance and Repairs

The following are maintenance and repair issues that occurred during the month of January:

- The waste pump in SBR #1 has been causing some issues recently. The discharge rate of the pump was noted to be considerably lower than the new pump in SBR #2. BBC has been scheduled to pull and check the pump, however, there is an issue with the guiderails preventing the removal of the pump. We will need to devise a plan to lower the level of the SBR below the normal operating range in order to find the cause of the issue with the guiderails. We will contact Aqua Aerobic to obtain guidance on this process.
- The fine screen failed at the end of the month. Berry electric was contacted to troubleshoot the panel. It was discovered that the interlock switch on the screw compactor failed and was preventing the system from operating. They were able to temporarily bypass the switch in order to get the screen running and will be back to install a new switch.

The following are updates to the previously identified issues:

- The centrifuge rotating assembly is back and in storage on site. We need to get the Polymer mixing system replaced prior to start up. The polymer system has been ordered. Once we have an estimated ship date, we will coordinate with Andritz for the re-commissioning on the centrifuge and installation of the new controls.
 - *The polymer system was delivered in late January. The plumbing and electrical connections will be complete by the end of the week. We are waiting to hear back from Andritz in order to schedule installation of the controls and re-commissioning of the centrifuge.*
- On 12/18/17, Post EQ pump #2 failed and BBC was called to pull the pump. It was discovered that there was a seal fail and the pump was taken back to BBC's shop.
 - We are awaiting an update from BBC on the status of this pump.
- The D.O. probe controller in SBR 1 failed and was sent in for inspection. Due to the cost of repairing the existing unit, it will probably make sense to replace the controller and both D.O. probes. We will be providing a quote for this work.
- Due to the low temperatures, plant operation was taken out of D.O. control and placed into a timed mode. This will ensure that the blowers run adequately enough to keep the plant in compliance and not have anything freeze up.
- Cumberland Delinquencies - 7% - 162 customers - 2032 bills - \$10,848.19 Delinquent total

Staffing

- Ben hired Nick Bailey to fill the open waste water position. Nick comes with 10 years of experience from the Town of Speedway. Nick is a class 1 operator and will be testing for his class 3 this year.

7. OLD BUSINESS

- Cumberland Residential Apartment Rates- April Fisher explained the Cumberland Sewer Rates for Apartment buildings.

8. NEW BUSINESS

- * Cumberland Plant 3 HP Sludge Pump Repair BBC Pumps—Approved 2-0 with a motion made by McLaughlin and a second from Pea not to exceed \$7358.01.
- * Cumberland Plant D.O. Probes and Controller Replacement/Upgrade – Approved 2-0 with a motion made by McLaughlin to approve and not to exceed \$8358.25 and a second from Pea.

9. BOARD MEMBER COMMENTS

None

10. FUTURE AGENDA ITEMS

- Updates on Repairs
- Phosphorus removal program update

11. ADJOURNMENT

6:40 p.m.