

MINUTES

City Council Public Works & Utilities Committee

Thursday, March 7, 2019 – 5:30 PM
Administrative Conference Room at City Hall

Members Present: Mac Morrow, Chair, Council Member
Maurice Jones, Vice-Chair, Council Member
Jim Fatland, City Manager
Emory Owen, WWTP Director
Dennis Richardson, WTP Director
David Lutz, Public Works Director

Absent: Clay Sykes, Citizen Member

Staff Present: Tom Whitlock, Deputy Finance Director
Denise Hodsdon, Executive Assistant

A. Welcome and Call to Order

Committee Chair Mac Morrow called the meeting to order at 5:30 pm.

B. Certification of Quorum

Executive Assistant Denise Hodsdon certified that a quorum was present.

C. Approval of Minutes from May 10, 2018 Meeting

Motion by Mr. Richardson, seconded by Mr. Fatland to approve the minutes of the May 10, 2018 meeting as presented. Motion carried unanimously.

D. Wastewater Treatment Plant

1. Update

Emory Owen gave an update of improvements made at the Wastewater Treatment Plant facility over the last five years (copy attached).

2. FY20 Budget

FY20 Budget requests for the Wastewater Treatment Plant include the following items:

- a. Clean sludge holding tank and install new aeration system;

- b. Replace washer compactor at the sanitary screens;
- c. Install new cabinet style servers for SCADA System;
- d. Install lights, heaters, electrical panel and ventilation in the new sludge pump station;
- e. Install new heaters and remove existing heaters; and
- f. Replace roof top heating and air conditioning unit

E. Water Treatment Plant

- 1. Update**
- 2. FY20 Budget**

Dennis Richardson gave an update of Water Treatment Plant facility improvements (copy attached). He reported that for a variety of reasons the City had to request a new engineering report approval deadline for the Cathey's Creek Rehabilitation and Stream Restoration Project. Mr. Fatland added that this project is still in the design phase and will be rebudgeted for this next fiscal year.

F. Sewer Collection

- 1. Update**

David Lutz reported that the Public Works Department has recently identified a problem with the private sewer system at Sapphire Manor. Water is running down the street, going into the storm drain and it is going in the sewer because the system in that complex all comes down to one manhole. Now it becomes ours and goes to Gallimore Road, which is giving us a fit. He said we are looking at approximately 100,000 gallons a day. Because it is a private system we cannot go in there and touch it but we have taken the time to mark it and camera it at no charge to them. We have identified it and talked with the property directors to advise them that they need to fix their system. They have reached out to a plumber for an estimate. Mr. Lutz noted that some of this is going into the creeks which then goes into the French Broad River. He pointed out that it is not only the City that is contaminating and this is the kind of stuff we've been having to deal with. Mr. Fatland added that Neely Road pump station is working great but Gallimore Road is our trouble spot. The crews are working trying to find what we can do to control the pump station and now we have this issue and it is costing us money because we get fined if Gallimore overflows. Mr. Lutz said we are looking at going after grant funding to do more rehab work at Gallimore which we may or may not have to get if this Sapphire Manor issue is fixed, but we are still pursuing it.

2. FY20 Budget

Mr. Lutz said he will be evaluating whether or not it would make economic sense to purchase a new pump and haul truck.

G. Water Distribution

1. Update

Mr. Lutz reported that the majority of the small meters have been changed out. Now they are working on large meter change outs because we are not getting accurate readings. This will require businesses to shut down in order to put the new meter in so they will be installed after business hours.

2. FY20 Budget

Mr. Lutz said he is looking into leak correlators to help identify leaks more quickly. The Sensus portal was one thing that some of the citizens groups were talking about where they can go online and check their usage. The estimated cost is about \$32,500, which Mr. Lutz believes should be absorbed by the customers. The initial \$32,500 gets it online, but there would also be an annual server fee of approximately \$6,000.

H. Public Works – Streets

1. Update

Mr. Lutz said we are looking at paving Stone Drive before the end of this fiscal year. We are also hoping to do some patching on Oak Park Drive and in Straus Park on Camptown Road.

2. FY20 Budget

He is going to include funds for the storm drain issues on Oak Wood. He will also be requesting another midsize Polaris Ranger for the trails, paths, and right of way use.

I. Public Works – Sanitation/Recycling

1. Update

2. FY20 Budget

Mr. Lutz said he is asking for a garbage truck in the upcoming budget. He would like to purchase a recycle bed insert, which sits in the back of a one-ton truck

and would allow us to go down the dead-end streets. He will also be asking to reinstate the third mechanic in the shop in order to reduce the amount we need to sublet out.

J. Set Date for Next Meeting

No date was set for the next meeting.


K. Adjourn

There being no further business, the meeting was adjourned at 7:08 pm.

X 

Mac Morrow
Chair, Council Member

Minutes Approved: April 16, 2019

X 

Denise Hodsdon
Executive Assistant

Improvements to the Waste Water Treatment Plant over the Past Five Years

1. The concrete structure that supported the Stationary Screens was demolished and replaced with a steel structure that supports the Stationary Screens.
2. A new Pretreatment, Grit Removal and Septic Dump station was built at the head works of the WWTP to replace an ageing Pretreatment Dump Station. Note: A new metal building was constructed around the equipment to protect sensitive equipment from the elements.
3. A Bio solids Pump Station was installed at the end of the Chlorine Contact Chamber to remove settled solids on the bottom of the CL2 tank.
4. A new 2.5 meter Charter Belt Press was installed to replace a smaller 1.0 meter Belt Press allowing the ability to press off a greater quantity of sludge.
5. Four new Stationary Screens were install along with two of the older screens to combat high flows and spikes during heavy rain events.
6. The Rotating Biological Contactors (RBCs) were replaced due to impaction of the surface area on the on the shafts. The replacement of the RBCs provided more surface area that created more bacteria growth that reduces the Biochemical Oxygen Demand on the WWTP.
7. A new Sludge Pump Station was built to replace the ageing below ground pump station.
8. A 3.2 million gallon Equalization Tank was built on WWTP's site to alleviate spills in the collection system.
9. A 6" Water Main was installed replacing the original 2.5" Water Main to supply a greater quantity of water to the WWTP.
10. A new flow meter and division box was installed to distribute the flow to the EQ Tank and the WWTP during heavy rain events.
11. The Supernatant Pump Station was rehabbed (New Pumps, New Slide Railing and New Electrical Wiring.)
12. The Sludge Holding Tank's outside surface was sealed and the cracks in the wall were filled and the tank was painted.
13. The Piping at the Stationary Screens were pressure washed and painted.
14. The RBC Blowers were pressure washed and repainted.
15. The Sludge Holding Tank Blower was pressure washed and painted.
16. New ceramic flooring was installed in the Control Building.
17. The fence line was trimmed and the brush was removed; two dead trees that were a danger to personale and equipment were removed.
18. The ditch in front of the WWTP was cleaned out and grass was planted.

Water Treatment Plant Facility Improvements

- Repaired cracked mortar joints & sealed block in main building.
- Replaced and added lighting throughout entire plant.
- Replaced glass front in main building lobby.
- Replaced all drop ceilings in main building.
- Painted inside of all water plant buildings.
- Clearwell resurfaced and painted.
- Pipe galley pipes cleaned and painted.
- High Service building pump motors and pipes painted.
- Sludge building pumps, motors, and pipes painted.
- Had all debris (rock,dirt,sand etc.) removed from around creek intake. Twice
- Sedimentation basin walls repaired and coated.
- Installed new VFD pressure pump for main building.
- Replaced chemical transfer lines form bulk tanks to inside main building.
- Replaced heat tape and insulation on clarifier discharge piping, chemical and sample lines exposed to outside.
- Replaced and upgraded intake screen blow off compressor.
- Removed bushes from in front of High Service building and Sed. Basins which could present problems with piping in the ground.
- Ran all season pilot on a new coagulant chemical and made the change. New coagulant doing better job.
- Upgraded SCADA operating system which added capability of controlling plant from different points in the facility.
- Replaced HVAC system in main building.
- Cleaned and painted all vault hatches in plant yard.
- Upgraded turbidimeters. Old turbidimeters had become obsolete. (Installation in progress).
- Off stream storage feasibility study performed. Results of study showed project would not be worth the money and effort.
- Replaced and upgraded security camera system and added intercom system at front gate.
- Designed and implemented backwash pump backup plan.
- Creek rehab and stream restoration project (still going).