



**TO:** Natasha Tucker, Acting Town Manager  
**FROM:** Diane Beyer, Public Works Director *Diane Beyer*  
**SUBJECT:** Updated from Sept 2023 Memo Requesting Settlement Funds  
**DATE:** January 11, 2024

**SUMMARY:**

The WWTP is in need of various repairs and upgrades and deferred maintenance and replacement of machinery and other equipment has placed the plant in a precarious position. Below is a list of repairs and upgrades needed for the WWTP and associated pump stations as identified to date. This list is NOT all inclusive, but a starting point.

Also below is a list of improvements/repairs/replacements (over a certain amount???) we have put into place in the past 6-12 months at the WWTP and associated pump stations.

**BACKGROUND:**

Systems and replacements have not been done as needed.

List of Repairs and Upgrades needed for the WWTP and Associated pump stations:

**WWTP.**

UV Disinfection system	\$ 79,000
125 HP motor for jet pump	\$ 15,000 (already completed \$13,250)
Air compressors for sand filters	\$ 35,000 (costing \$1400/month in oil)
Sludge Pumps/Waste RAS	\$ 50,000 (On order)
FEB Valve Replacement	\$ 24,000
Filtrate pump station control panel	\$ 7,000 (partial press room pump station repair)
200HP soft starter – FEB Jet pump	\$ 6,500 (on order)
ISCO 5800 Auto Sampler	\$ 10,000 (currently failing)
Digester Air Lines	\$1,000,000
Transfer switch	\$ 30,000
Sandblast/repaint/coat catwalks/ pit structures	\$250,000 (est only)
Holes in concrete influent baffle structure	\$ 25,000
Lab Equipment	\$ 10,000
Mission Wireless/cellular alarm/comm System	\$ 40,000 (working on procurement)
SCADA Upgrade/repair/replace	\$160,000 (already procured)

**ADD ONS**

Tank cleaning 6 tanks	\$1,500,000 (staff estimate)
Sand filters remove/disposal	\$200,000 (staff estimate)
Sand filters install/ new sand	\$193,000 (staff estimate)

**WWTP TOTAL EST.**

**\$1,091,500**

**Update WWTP TOTAL EST.**

**\$4,134,500**

**SEWAGE PUMP STATIONS**

* (partial) 30 pumps	\$280,000 installed
Cabinet replacements (8)	\$ 50,000
Large cabinets (5) on peds	\$150,000



Locks	\$ 6,000
Roofs and bldg. repair	\$ 75,000
<b>SEWAGE PUMP STATIONS TOTAL EST.</b>	<b>\$561,000</b>

**WATER WELLS.**

Roofs/Bldg. maintenance	\$ 50,000
Pumps	\$ 90,000
<b>WATER WELLS TOTAL EST.</b>	<b>\$140,000</b>

**CIP ITEMS ALREADY IDENTIFIED AND APPROVED.**

Communication for water meter system	\$ 90,000
WWTP Conveyer System Upgrade	\$121,000
Generator Upgrade – 3 <sup>rd</sup> Street	\$ 75,000
RTU Pumps – 3	\$120,000
WWTP pump replacement – 8	\$1,000,000
SCADA	\$ 125,000 (accounted for as \$160K on page 1)
<b>TOTAL CIP</b>	<b>\$1,406,000</b>

**TOTAL ALL above this line**

**\$3,198,500**

Clarifier SCADA update/upgrade  
Update

\$ 100,000  
**\$6,341,500**

**Town wide I&I testing and rehab/work**

**\$6,000,000+ MINIMUM**

**TOTAL ESTIMATE**

**\$12,341,500**

**List of repairs/upgrades begun/completed in past 6-12 months:**

Potomac Beach Lift station pumps – 2 plus check valves	\$ 27,450
Cedar/Wakefield – all wet well pumps and parts (ordered)	\$ 29,000
125HP motor for jet pump	\$ 13,250
Roof on 4 <sup>th</sup> Street water well	\$ 2,350
Water Control Communication cellular system	\$ 30,000 + annual cost
RTU 20 – one replacement pump	\$ 39,000
Horton Pump station - pumps replacement (obsolete)	\$ 24,500 (ordered)
WWTP press room pumps – 2	\$ 44,000
Clarifier motor repairs	\$ 10,000 est.
Press Room pump station – pumps & controls	\$ 28,000 (ordered, waiting on parts)
UV System repair (listed for complete replacement)	\$ 10,000
Roots blower (hi capacity air pump for WWTP air system)	\$ 7,500 (6 total in WWTP, this is for 1)
FEB Pump repair kits	\$ 14,500 (for 2 of 3 pumps)
<b>TOTAL</b>	<b>\$279,550</b>

**FISCAL IMPACT:**

The fiscal impact is estimated at almost \$12.3 million on this date (costs will rise). This is a starting estimate only.