

E.S.A Maintenance Report

TO: ESA Board of Directors
Robert Vilee., *Executive Director*

FROM: Chris Muccie , *Superintendent, Safety Coordinator,
N.J.D.E.P. C-2 Licensed Operator*

DATE: November 7, 2024

Report for October 2024 Activities

Major Items:

- Old Orchard , Circle, and Maxwell pump stations have inflow and infiltration coming from the incoming Mainlines. All three pump stations go into high water alarms during heavy rain.
- My employees and I have attended confined space rescue training with the Asbury fire Department at circle pump station dry well. We simulated a confined space rescue operation and went over the procedures of what to do in the event of an emergency situation.
- Pump 2 at country club was making deep heavy vibration noises and not pumping. The check valve was leaking through the lever arm and the disk had too much play in it. A new check valve was installed, and the problem with pump 2 continued. We swapped out pump 2 and put it into pump 1's volute and piping. It worked fine ruling out bearing / bent shaft issues on pump 2. We performed air leak test on the suction piping of pump 2 and discovered some air bubbles on pump 2's gate valve. The volute on pump 2 is only filling up with water a quarter of the way. The suction side of pump 2's piping may be clogged as well. The wet well will have to be bypassed and plugged to complete this task.
- New Pump 2 arrived and was installed at industrial way pump station. The new pump worked for two weeks before it stopped pumping. Now, the pump gives off a high-pitch buzzing sound and does not pump while the VFD gives off a high amps fault code sometimes. The VFD can get fully running and cranks up to 60 hertz but, the incoming power from the VFD to the pump disconnect switch is only registering 50 volts across

three legs when it should be 240. The pump and check valve were pulled to rule out debris being caught in either one stopping the VFD from fully sending the proper voltage to the pump as a safety mechanism. An Electrician is scheduled to come out this week to fix this ongoing issue.

- The smith and loveless maintenance lift at industrial pump station has broken down. Smith and loveless will not repair it because it's an old chain driven system. I tried reaching out to other contractors and for the same reasons they will not repair it as well. We can either order a new replacement and installation or remove the old lift and just use the ladder.
- Pump 2 at Lewis pump station has just been delivered and will be installed next week.
- Our insurance agent completed a safety inspection of our shop and garage. He went over all of our written safety programs, procedures and did a walk through inspection to look for anything out of compliance. He suggested making some changes to our work zone traffic safety written program and emergency evacuation plan. He also suggested to get new garage door safety sensors for our 4 bay garage doors and getting a map layout of our building to post it in the employee room. I have added on and completed the changes to the two written programs. I am working on getting quotes for the new garage door sensors and the map of the inside of the shop.
- Wampum, Deep Woods, and Eaton crest pump stations have no low level float built into the station. They also do not have any transducers built in for low level alarm monitoring. They only have three reporting alarms generator fail, high level alarm, and generator running alarm.
- Several pump stations have extreme wear and are outdated as well.
- Our GIS mapping system is not complete and needs to be finished. Due to the complexity of the layering it might be best to contract out our current GIS system to complete it.
- Only 2 generators out of 13 have an automatic start feature. The rest of the generators also need to have this featured installed.

- Wampum pump station has no pump disconnect switches. The pumps wires are tied directly to the starters.
- I would like to be able to get a couple flow meters to put around the upstream manholes going into several stations to find out the amount of infiltration in the lines.

Activities

- Limble report available upon request

Items Needed:

- New cellular Scada system for pump stations to allow for online access to pump station issues.
- More hand tools.
- Impact wrench
- New Jet heads and a root cutter.
- A new lateral power rodder .
- New updated maps
- 4 new garage door safety sensors.
- Flow meters.
- Force main scan ball
- Another work truck. I would like to park the dump truck and only use it for hauling pump station debris and plowing due to the age of the truck .

Coordination with the Public & other Agencies:

- New Jersey One Call System Mark outs (130)
- Complaint Memorandum: (Overtime reports)(6)
- Report # 98 emergency mark out

- *Report # 99 Emergency mark out*
- *Report # 100 Jet truck service*
- *Report # 101 Emergency Mark out*
- *Report # 102 Circle pump station Generator fail*
- *report # 103 Emergency Mark out*

Fuel usage sheet

Included with report.

Eatontown Sewerage Authority

(ESA)



Maintenance Department
Cmuccie@theesa.org

November 7, 2024

Michael A. Gianforte, P.E., Executive Director

TWO RIVERS WATER RECLAMATION AUTHORITY

One Highland Avenue

Monmouth Beach, New Jersey 07750

(732) 229-8578

RE: N.J.A.C. 7:10A-1.12 duties, records and reports:

(b) Each licensed operator shall immediately report any system deficiencies, breaks, breakdowns, problems, bypasses, pump failures, occurrences, emergencies, complaints and/or intervening factors within the system that result in or necessitate deviation from the routine O&M procedures and any situations that have the potential to affect public health, safety, welfare, or the environment or have the potential to violate any permits, regulations or laws relating to this chapter. All reports shall be made to the owner or permittee of the system to or from which treatment is provided. All violations shall be reported by the owner or permittee, as appropriate, to the Department.

1. Each licensed operator shall submit to the Department, upon request, a report summarizing any event described in (b) above and the remedial action taken.

2. Each Public Wastewater Collection System operator shall submit to the receiving system a monthly report summarizing all events described in (b) above and the remedial action taken, by the 10th day of the month following each month for which the data is collected.

Dear Mr. Gianforte:

I have no events to report for the month of October, 2024.

Respectfully,

Christopher Muccie,

Superintendent / Safety Coordinator / C2 Licensed Operator # 1023809

HLV/letters/TRWRA

Amanda Bowens, TRWRA abowens@trwra.org

Robert Villee, Executive Director, Via: info@theesa.org

Ruchit Patel, T&M Associates rupal@tandmassociates.com

Michael A. Gianforte P.E. Executive Director TRWRA mgianforte@trwra.org

Brian Rischman, Engineer TRWRA brischman@trwra.org

Lauren Lecher, TRWRA llechner@trwra.org



Conserve your water resources!

Eatontown Sewerage Authority

(ESA)



Maintenance Department
Cmuccie@theesa.org

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Conserve your water resources!

Eatontown Sewerage Authority
 Monthly Gasoline & Diesel Consumption
 Maintenance Department
 October 2024

Date	Unit	Pump Start	Pump Finish	Gas	Diesel	Initials
10/2/24	31			26.9		CM
10-9-24	32				2.5	LS
10-6-24	31			24.1		DE
10-11-24	31			25.5		CM
10-10-24	33			12.5		DE
10-17-24	34				42.5	DE
10-18-24	31			26		LS
10-19-24	33			13.2		DE
10-22-24	32			21.7		DE
10-24-24	31			14.5		DE
10-27-24	33			20.8		DE
10-31-24	33			21		DE

* Please fill the Vac-Con Truck #34 when the fuel level is below a 1/4 tank!!!