

Storm Water Pumps

In the past we have thought it prudent to pump down the Storm Water Retention Ponds prior to large storm systems (i.e. hurricanes) to prevent flooding of dwellings within the community. Pumping water out of the "main" lake into the Intracoastal serves to equalize the water level across all the ponds. We generally relied on the goodwill of vendors we had dealt with to be able to rent us a pump on our request which was made just prior to (Irma and Dorian) or following (Matthew) the major hurricane event. These rentals cost between \$1,500 and \$5,000 for the 10 or so days we used them before and/or after the storm event.

With demand for pumps high during hurricane season, the MSOA board determined to secure arrangements for a pump in advance, so that if needed during a storm, we had assurance that it would be available.

We began surveying methods to either purchase our own pump or to rent a pump.

We started by asking Cline to help identify the costs to purchase a pump and accessories like the one we used last year and then about the cost to rent a similar pump. Our initial requirements for a pump included the ability to hold enough fuel to run without refueling for 48 hours, to pump at a rate of 1,200 gallons per minute and to filter out solids (or enable accessories to do be added to do that).

We also made inquiries or researched pumps from Putnam Wells, Thompson, Northern, and KG Power System were reviewed.

Buying a pump was eliminated as an option for this year for cost reasons. Pumps to meet our requirements could have cost up to \$60,000. With maximum 5 year warranties, the cost to purchase as insurance against a storm and limited use seemed too high to consider at this time. Purchasing used pumps was an option we briefly considered, but given proximity to the ocean and the damage salt air creates even in a sheltered enclosure, we did not think that was a viable alternative.

We looked at rental options that would not lock us into a rental if we didn't need it, but would assure us of the availability of a pump if we DID need it. Both United Rentals and Zylem provided rental options that we considered. Zylem, provided

the best "insurance" option without locking us into the need to pick a specific date to have a pump on-site.

Cline provided a contact at United Rentals to give us a quote on renting the Pump. The following is the United quote (Note that we would have needed to lock into dates and not wait to see if we would need it):

United rentals fluid solutions appreciates the opportunity to quote our products and services to you. Listed below you will find the following rental prices:

1- 6" sound attenuated trash pump with auto start stop set up
1-6" floating T
4-6" BL X SK rubber suction hoses
1-264 gallon fuel cube

Monthly \$ 2725.00

Weekly \$ 1090.00

Please Note:

- Prices above exclude applicable sale taxes and a 2 % ENV charge.
- Freight: delivery and pick up \$ 300.00 (150.00 each way)
- Customer to provide equipment to load/unload rental equipment
- Installation Not requested

Xylem appeared to be better at servicing organizations like ours and provide more flexibility to deliver only *when needed*. (we have used their products before in our lift stations). The only negative with Xylem is the fuel storage capacity (60 gal) which would mean refueling after about 25 hours. We will need to ensure it is fully fueled just before the storm and just after. Depending on when the storm comes, we would retain the pump for the duration to avoid additional pick up and delivery costs.

The quote contains a CD150 diesel engine on a road go trailer, 2 - 10' (total 20') of suction hose with a screen. 2 - 50' (total 100') of 6" lay flat hose for the discharge. The monthly rental rate is \$1,993.05 plus delivery charge of \$180.00, Pickup charge of \$180.00. There is an environmental impact fee that is 1.75% of the rental rate.

