



Staff Report

TO: City Council
FROM: Thaxton Van Belle, Chief Plant Operator
DATE: June 15, 2021
SUBJECT: Ratification of Emergency Pump Purchase for Marshall Creek Lift Station

Background and Analysis:

The Marshall Creek Lift Station was built in 2001 to service much of the Three Rings Ranch area development. Additionally, the Marshall Creek Lift Station receives and conveys the discharge from the neighboring Noble Creek Lift Station, which services the area north of Oak Valley Parkway, west of Beaumont Avenue, and north to Beaumont High School (map attached) to the wastewater treatment plant.

The Marshall Creek Lift Station project included two 88 HP Flygt 3300 series pumps connected via manifold to two (2) force mains, with a stub-out for a future third pump. One of the two original pumps was replaced with a new unit in 2019.

On May 26, 2021, City staff experienced issues with the variable frequency drive (vfd) that controls the newer pump. During the time the newer pump was offline for service, the older pump showed signs of impending failure. Days later, the older pump failed, leaving the Marshall Lift Station to rely on a single pump.

City staff ordered a new pump on an emergency basis due to several factors including: 1) While the one remaining pump is relatively new, the electrical infrastructure is not (see previously mentioned vfd), 2) To save costs on a rental unit – the lead time on a new pump was estimated as an 8-10 week lead time from moment of order, and 3) The immediate proximity to a wash and increased potential for monetary fines and civil liabilities.

Fiscal Impact:

The purchase of the new pump is quoted at \$67,867 plus tax and an estimated freight charge of \$2,375. The purchase is funded from the Wastewater Equipment fund (700-0000-8040-0000). The estimated cost to prepare this report is \$650.

Recommended Action:

Ratify the emergency purchase of a new pump from Xylem Water Solutions for the Marshall Lift Station for an amount not to exceed \$76,000.

Attachments:

- A. Noble to Marshal Sewer Map
- B. Xylem Pump Quote