



MEMORANDUM

May 12, 2023

To: Santaquin City Mayor and City Council
From: Jason Callaway, Public Works Director
RE: Type 1 Pumping Capacity Increase

Mayor and Council Members,

Santaquin City is currently extending a 12" pressurized irrigation line along Summit Ridge Parkway to connect to the existing pump station at the winter storage ponds. This new pipeline installation is part of the ongoing utility improvements for the Santaquin Peaks Industrial Park Subdivision. This will give us the ability to increase pumping capacity coming out of our Type 1 winter storage ponds. In order to fully utilize this new pipeline, a new pump will need to be installed at the Type 1 winter storage ponds pump station.

Currently, we can pump approximately 1,000 gallons per minute with both exiting pumps operating. The new pump and PI line will give us the ability to pump up to 1,200 gallons per minute with only one of the pumps running. With both pumps running (one existing and the new pump), we will be able to pump up to 2,000 gallons per minute. Not only will the new pump increase flow capacity, it will save on power costs. This new pump will allow the ever increasing flows from the WRF to be more fully utilized in the PI system.

This project is currently identified within our approved Pressurized Irrigation Master Plan. Therefore, the project is eligible to be paid for using impact fees. We currently have sufficient funds available to cover this purchase.

Total cost of this project is \$59,000.

Pump and Motor \$43,000

Pump and motor installation \$2,000

VFD \$14,000

Electrical will be handled in house with Santaquin city's electrician.

Recommended Motion: Motion to approve \$59,000 from pressure irrigation funds to purchase and install Pump, Motor, and VFD at the Type 1 Pump House.