



CITY OF FERNLEY

CITY COUNCIL AGENDA REPORT

Meeting Date: May 20, 2020

REPORT TO: Mayor and City Council
REPORT THRU: Daphne Hooper, City Manager
REPORT FROM: David Whalen, Public Works Director
REVIEWED BY: Brandi Jensen, City Attorney
REVIEWED BY: Denise Lewis, City Treasurer

FINANCIAL IMPACT:

Yes: No:

CURRENTLY BUDGETED:

Yes: No:

FUND/ACCOUNT:

Wastewater/520-162-300

ACTION REQUESTED: Consent Ordinance Resolution Motion Receive/File

AGENDA ITEM: (Possible action) Purchase of a backup pump for the Hwy 50 Lift Station from Xylem Water Solutions USA, Inc. for the amount of \$65,047 (including shipping).

Agenda Item Brief: Purchase of a redundant pump for a two-pump system. Recently a failure lead to a situation where the lift station pump system was reliant upon a single pump. The lift station handles about 20-30% of the city's sewage and is a two pump (lead-lag) system.

Recommended Motion:

"I move to authorize the purchase of a backup pump for the Hwy 50 Lift Station from Xylem Water Solutions USA, Inc. for the amount of \$65,047 (including shipping)."

Business Impact (per NRS Chapter 237):

- A Business Impact Statement is Attached.
- A Business Impact Statement is not required because this is not a rule (term excludes vehicles by which legislative powers are exercised under NRS Chapters 271, 278, 278A, or 278B).

See attached report for background, analysis, alternatives.

ALTERNATIVES:

Wait to buy the redundant pump once one of the two-pump system fails and risk potential back ups of the system prior to emergency response.

BACKGROUND:

The Hwy 50 Lift Station provides approximately 20-30% of the city's capacity for pumping sewage to the East Waste Water Treatment Plant (EWWTP). The station is equipped with two pumps (lead-lag, no standby) to provide capacity and redundancy in the system. In November of 2019 one of the Flygt Model NP-3301.095 6" volute Submersible pump equipped with a 460 Volt / 3 phase / 60 Hz 85 HP 1750 RPM motor had a mechanical failure. The pump was removed from the lift station and an emergency bypass pump was put on standby while the station operated on a single pump system. In the event that the main pump failed the waste water crew would have had to manually connect a diesel power pump into the system to bypass the lift station.

Once the pump was removed it was delivered to a local pump rebuild company that are authorized to work on Flygt pumps. During the teardown of the pump it was discovered that a much more extensive rebuild was required for the pump. The costs to rebuild that pump were ratified through Fernley City Council. The teardown and repair took approximately 4 months to do. During that entire time the lift station was operating on one pump. In order to alleviate the issue of having a lift station operate on one pump staff decided to ask council to authorize this purchase of a redundant backup pump so that it may be used in place of the damaged pump in the future.

Two bids were requested. Xylem is the manufacturer of Flygt Pumps and was the lowest bidder.

PRIOR COUNCIL ACTION

None

LEGAL IMPLICATIONS:

Nevada Statutes: NRS 338

FINANCIAL IMPLICATIONS:

The cost to purchase the pump will be capitalized.

ATTACHMENTS:

- 1.) Xylem Quote