



CITY OF FERNLEY

CITY COUNCIL AGENDA REPORT

Meeting Date: June 17, 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:

520-165-100

ACTION REQUESTED: Consent Ordinance Resolution Motion Receive/File

AGENDA ITEM: (Possible action) Ratify the purchase of a replacement SCADA (supervisory control and data acquisition) system hardware/software at the Wastewater Facility from Verus Associates Inc. for a cost not to exceed \$12,914.

Agenda Item Brief: The scope of work is to upgrade the City of Fernley's current SCADA HMI system at the Wastewater facility. The project will include installation of software to the latest version and to provide new computer hardware to accommodate the new system. SCADA controls allow operators to remotely monitor the wastewater collection system via the internet. With the current age of the system and the potential for cyber-attacks the system hardware/software both need to be replaced.

Recommended Motion:

"I move to ratify the purchase of a replacement SCADA system (hardware and software) at the Wastewater Facility from Verus Associates Inc. for a cost not to exceed \$12,914."

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:

BACKGROUND:

The City of Fernley East Wastewater Treatment Plant collects and treats residential and commercial wastewater. Wastewater is collected from all subdivisions and commercial developments within the City of Fernley. Wastewater discharged into the sewage collection systems is channeled through gravity mains and force mains pressurized by lift stations distributed across the city.

The individual lift station wet wells, including the pumps, are inspected on a daily basis. The pumps are serviced on an annual yearly basis, or as needed. The individual lift station generators are serviced on a biannual basis by a contractor. Wastewater personnel perform inspections of the generators as part of the scheduled inspection and maintenance of the lift stations. The collection system is designed to operate without continuous attention as the processes and equipment systems are automated to allow continuous unattended operation. However, daily attention of the facility is required for maintenance, housekeeping, sampling and lab analysis, and equipment and process monitoring.

The SCADA (supervisory control and data acquisition) system allows the operators to log in via computer or their smart phones to receive information on the operation of the collection system. Alarms and control measures allow the department staff to respond immediately (day or night) to the noted issue. The current SCADA system is about 10 years old and requires new hardware/software to keep it functioning and safe from cyber-attack.

PRIOR COUNCIL ACTION

None

LEGAL IMPLICATIONS:

Nevada Statutes: NRS 332 & 338

FINANCIAL IMPLICATIONS:

The cost to purchase the hardware and software components will be capitalized.

ATTACHMENTS:

- 1.) Verus Associates Inc. Quote dated June 2, 2020 (Parts and labor)