



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: <input checked="" type="checkbox"/> No: <input type="checkbox"/>	CURRENTLY BUDGETED: Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>	FUND/ACCOUNT: 510-162100
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ACTION REQUESTED: Consent Ordinance Resolution Motion Receive/File

AGENDA ITEM: (Possible action) Ratify the purchase of an emergency replacement SCADA (supervisory control and data acquisition) system including the hardware/software at the Water Treatment Facility from Verus Associates Inc. for a cost not to exceed \$111,297.

Agenda Item Brief: The scope of work is to upgrade the City of Fernley's current SCADA HMI system at the Water Treatment 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 water treatment 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 an emergency replacement SCADA (supervisory control and data acquisition) system including the hardware/software at the Water Treatment Facility from Verus Associates Inc. for a cost not to exceed \$111,297."

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 water treatment system provides water to residential and commercial facilities across the city. Water is pumped from six municipal wells throughout the city through a series of pipes and a booster station to the "raw water" tank where it is combined. Once combined the raw water tank provides the untreated water to the water treatment facility at the west end of the city. Once treated the potable water is then returned to the distribution system and pumped to a series of four remote water reservoir tanks. The tanks then provide the potable water flow and pressure for residences and commercial units alike throughout the city.

The SCADA (supervisory control and data acquisition) system allows the operators to log in via computer or their smart phones to receive information regarding the potable water treatment 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. The WTP was recently attacked and the plant was disabled due to the aged system. Personnel were able to respond and recover the control of the system however it was required to be operated in hand mode. This purchase was not budgeted but is an emergency repair to bring the water treatment control system into safe compliance. Two quotes were obtained.

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)
- 2.) Tesco Controls, Inc. Quote dated April 20, 2020 (Parts and labor)