

Request for Change-of-Scope Change Order and Additional Contingency

Contract 01965 - Emergency Well Pump
Station at A Place to Play Park

Board of Public Utilities
October 21, 2021

J. Erich Rauber, PE, GE
Supervising Engineer



OUR FUTURE IN EVERY DRÖP

Presentation Outline

- Project purpose and description

- Background

- Analysis



- Recommendation

Project Purpose

- Convert an existing test well into an emergency well, and connect it to the City's water distribution system so it's available in the event of an emergency



Project Description

- Site grading,
- Construct pump station facility,
- Rehabilitate existing well,
- Connect to sewer and storm drain facilities, existing power and telephone,
- Construct perimeter fence and aesthetic enhancements, and
- Restore disturbed areas.

Background

- 2006 – Test well installed
- 2016 – Test well inspected and reconditioned; pumping tests indicated 500 gpm sustainable yield
- 2017-2020 – Design prepared to convert test well and install infrastructure
- May 2020 – Construction contract awarded to Team Ghilotti
- Nov 2020 – Work suspended due to discovery of elevated arsenic in groundwater
- Nov 2020 – October 2021 – Feasibility studies performed, and design revised to reduce arsenic and achieve drinking water standards

Analysis

- Design revised to...
 - Increase iron in groundwater to facilitate formation of iron arsenate solids
 - Remove solids via cartridge filters
- Revisions include...
 - Increasing building size
 - Adding chemical feeds, revising instrumentation and controls
 - Adding large diameter pipe loop to facilitate arsenate formation
- Cost to implement : \$870,369.00

Recommendation

Approve by motion a change-of-scope contract change order to include...

- Constructing an arsenic removal treatment process for Construction Contract No. C01965 with Team Ghilotti, Inc., of Petaluma, California
- Increasing the original bid amount plus contingency of \$2,078,213.04 by \$957,405.90, including a 10% contingency, and
- Authorizing a total contract amount of \$3,035,618.94.

