



BOARD MEETING AGENDA SUBMITTAL

TO: GCSB Board of Directors

FROM: Peter Kampa, General Manager

DATE: April 11, 2023

SUBJECT: Agenda Item 7H: Adoption of a Resolution Approving the Hardrock Groundwater Test Well Project and Authorizing Public Bidding

RECOMMENDED ACTION:

I move to adopt resolution 20-2023 to permit public bidding for the Hardrock Groundwater Test Well Project.

BACKGROUND:

The Groveland Community Service District (Groveland CSD, GCSB) provides potable water services to the surrounding community. The Groveland CSD's primary water source is the Hetch Hetchy Reservoir located in Yosemite National Park on the Tuolumne River. Hetch Hetchy is also the principal water source for the City and County of San Francisco and a number of other utilities in the San Francisco Bay Area served by the City and County of San Francisco. Water flows from Hetch Hetchy through the Mountain Tunnel, a tunnel just south of Groveland into Priest Regulating Reservoir. GCSB obtains water from the Mountain Tunnel prior to and upstream of Priest Regulating Reservoir at two locations. These locations are the Big Creek Shaft (the most upstream) and the Second Garrote Shaft.

The water source from the Mountain Tunnel is relatively pristine and, as a result, GCSB has been able to avoid filtration of that source. The City of San Francisco Public Utilities Commission (SFPUC) prepared an application for "filtration avoidance" in 1993. The conclusion was that the Hetch Hetchy water source met all of the eleven criteria for EPA filtration avoidance as of June 29 1993. SFPUC has provided routine monitoring of the watershed and has avoided the need to provide filtration ever since.

During severe drought conditions, SFPUC is able to introduce water from Cherry Reservoir into the Mountain Tunnel through the Lower Cherry Aqueduct. This Cherry Reservoir source of water can supply 200,000+ acre-ft of water but eliminate the filtration avoidance granted in 1993. The last time that Cherry Water was introduced in the Mountain Tunnel was during the 2014 drought.

Since GCSB water supply comes from the Mountain Tunnel downstream from the discharge point from Cherry Reservoir, filtration would be required in order to produce potable water. In 2014, GCSB installed a new water filtration system at the Second Garrote Shaft. However, the capacity of the filtration system at Second Garrote is unable to meet the District's Maximum Day Demand.

In addition to the primary water source, GCSB also has a secondary or Alternative Water Supply (AWS) source. The AWS water source is Pine Mountain Lake. The District installed in 2003 a trailer mounted water treatment plant in PML to be able to provide water to the Community during outages of the Mountain Tunnel. The AWS Water Treatment Plant (WTP) was intended to be a portable WTP.

During severe drought conditions, the Second Garrote WTP and the AWS WTP would not have enough capacity to supply water to the entire service area during maximum day demand. For this reason, the Groveland CSD is proposing a new groundwater well that will supply water to the Big Oak Flat and Tank 5 service areas during severe drought conditions. The introduction of this groundwater well will reduce the demand that has to be supplied from Second Garrote and the AWS systems and will increase fire resiliency.

DISCUSSION:

The adoption of this resolution will allow staff to publicly bid the Hardrock Groundwater Test Well Project to drill and test two determine where final wells will be permanently constructed. Once constructed, the well(s) will provide sufficient redundancy during severe drought conditions to ensure the Groveland CSD can continuously provide potable water to the service area.

FISCAL IMPACT:

Construction costs for the Hardrock Groundwater Test Well Project are estimated to cost approximately \$140,000.00. The costs for the proposed Project will be covered in full by an Urban Multibenefit Drought Relief Grant from the State of California Department of Water Resources.

ATTACHMENTS:

1. Resolution 20-2023
2. Engineers Estimate

RESOLUTION 20-2023

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE GROVELAND COMMUNITY SERVICES DISTRICT APPROVING THE HARDROCK GROUNDWATER TEST WELL PROJECT AND AUTHORIZING PUBLIC BIDDING

WHEREAS, the Groveland Community Services District (herein referred to as District) is a local government agency formed and operating in accordance with Section §61000 et seq. of the California Government Code; and

WHEREAS, the District has the authority to construct, operate and maintain sources of raw water supply for potable water purposes; and

WHEREAS, the District needs to construct a new groundwater well to provide sufficient redundancy during severe drought conditions, to reduce the potable water demand from the Second Garrote and Alternative Water Supply service areas during severe drought conditions, and to increase fire resiliency; and

WHEREAS, the District has directed the preparation of project plans and specifications for the drilling and testing of two test well locations, for which sites the design for construction of permanent well pumps and related connecting and control infrastructure will be completed in the future for the selected site(s); and

WHEREAS, the Groveland Community Services District has received an Urban Multibenefit Drought Relief Grant from the State of California Department of Water Resources to fund the Project in whole; and

WHEREAS, the construction of the proposed new groundwater well will have no fiscal impact on the Groveland Community Services District.

NOW THEREFORE BE IT RESOLVED THAT THE BOARD OF DIRECTORS OF THE GROVELAND COMMUNITY SERVICES DISTRICT DOES HEREBY approve as follows:

1. Authorize Staff to solicit bids for the Hardrock Groundwater Test Well Project.

WHEREFORE, this Resolution is passed and adopted by the Board of Directors of the Groveland Community Services District on April 11, 2023, by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT

ATTEST:

Rachel Pearlman, Board Secretary

Nancy Mora, President - Board of Directors

CERTIFICATE OF SECRETARY

I, Rachel Pearlman, the duly appointed and acting Secretary of the Board of Directors of the Groveland Community Services District, do hereby declare that the foregoing Resolution was duly passed and adopted at a Regular Meeting of the Board of Directors of the Groveland Community Services District, duly called and held on April 11, 2023.

DATED: _____

Groveland Community Services District
Hardrock Groundwater Well Project
Engineers Estimate

Item No.	Item Description	Estimated Quantity	Units	Unit Price	Item Total
1	Mobilization, Demobilization, Bonds and Insurance	1	LS	\$10,000.00	\$10,000.00
2	Installation 100-foot Conductor Seal Tank 5 Site	1	LS	\$10,275.00	\$10,275.00
3	Drill 8-inch Diameter Hole Tank 5 Site	450	LF	\$23.00	\$10,350.00
4	Air-Lift Water for 15 minutes Tank 5 Site	5	EA	\$75.00	\$375.00
5	Install Test Pump and Ancillary Equipment Tank 5 Site & Pull Pump	1	LS	\$7,000.00	\$7,000.00
6	Operate Test Pump Continuously for 10 days Tank 5 Site	240	HRS	\$100.00	\$24,000.00
7	Permitting and Site Cleaning Tank 5 Site	1	LS	\$3,000.00	\$3,000.00
8	Desyroy Well (assume 500 feet deep) Tank 5 Site	1	LS	\$10,000.00	\$10,000.00
9	Installation 100-foot Conductor Seal AWS WTP Site	1	LS	\$10,275.00	\$10,275.00
10	Drill 8-inch Diameter Hole AWS WTP Site	450	LF	\$23.00	\$10,350.00
11	Air-Lift Water for 15 minutes AWS WTP Site	5	EA	\$75.00	\$375.00
12	Install Test Pump and Ancillary Equipment AWS WTP Site & Pull Pump	1	LS	\$7,000.00	\$7,000.00
13	Operate Test Pump Continuously for 10 days AWS WTP Site	240	HRS	\$100.00	\$24,000.00
14	Permitting and Site Cleaning AWS WTP Site	1	LS	\$3,000.00	\$3,000.00
15	Desyroy Well (assume 500 feet deep) AWS WTP Site	1	LS	\$10,000.00	\$10,000.00
Total Base Bid Price					\$140,000.00