



## **BOARD MEETING AGENDA SUBMITTAL**

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**TO:** GCSB Board of Directors

**FROM:** Peter Kampa, General Manager

**DATE:** May 13, 2025

**SUBJECT: Agenda Item 6A: Adoption of a Resolution Approving the Full Production Hardrock Groundwater Well Improvements Project and Authorizing Public Bidding**

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**RECOMMENDED ACTION:**

I move to adopt Resolution 14-2025 approving the Full Production Hardrock Groundwater Well Improvements Project and authorizing public bidding.

**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.

Two test wells, AWS WTP and Tank 5, were drilled, sampled, and analyzed to assess groundwater capacity. Based on static groundwater levels, constituent analysis, and overall yield, the Tank 5 well was determined to be the optimal choice. AM Consulting Engineers has designed a well site incorporating the necessary pumps, piping, enclosures, and supplemental appurtenances to ensure reliable potable water production from the Tank 5 groundwater well.

**DISCUSSION:**

The adoption of this resolution will allow staff to publicly bid the Full Production Hardrock Groundwater Well Project and will provide sufficient redundancy during severe drought conditions to ensure the Groveland CSD can continuously provide potable water to the service area. Upon receipt of bids, the Board will be presented a recommendation on contract award.

**FISCAL IMPACT:**

Construction costs for the Full Production Hardrock Groundwater Well Project are estimated to be approximately \$700,000.00. The costs for the proposed Project will be covered in full by the existing Urban Multibenefit Drought Relief Grant from the State of California Department of Water Resources.

**ATTACHMENTS:**

1. Resolution 14-2025
2. Engineers Estimate

## RESOLUTION 14-2025

### **A RESOLUTION OF THE BOARD OF DIRECTORS OF THE GROVELAND COMMUNITY SERVICES DISTRICT APPROVING THE FULL PRODUCTION HARDROCK GROUNDWATER WELL IMPROVEMENTS 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; and

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

**WHEREAS**, the District needs to construct a new groundwater well to increase fire resiliency; and

**WHEREAS**, two hardrock groundwater test wells were drilled, sampled and analyzed, AWS WTP and Tank 5; and

**WHEREAS**, AM Consulting Engineers has designed a well site incorporating the necessary pumps, piping, enclosures, and supplemental appurtenances to ensure reliable potable water production from the Tank 5 groundwater well; 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 Full Production Hardrock Groundwater Well Improvements Project.

**WHEREFORE**, this Resolution is passed and adopted by the Board of Directors of the Groveland Community Services District on May 13, 2025, by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT

APPROVE:

Nancy Mora, Board President

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ATTEST:

Rachel Pearlman, Board Secretary

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#### **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 May 13, 2025.

DATED: \_\_\_\_\_

Groveland Community Services District  
Full Production Hardrock Groundwater Well Improvements  
Engineers Estimate

Item No.	Item Description	Estimated Quantity	Units	Unit Price	Item Total
1	Mobilization, Demobilization, Bonds and Insurance	1	LS	\$70,416.00	\$70,416.00
2	Demolition Work	1	LS	\$5,000.00	\$5,000.00
3	Earthwork, Concrete, and Foundation	1	LS	\$25,000.00	\$25,000.00
4	Fiberglass Groundwater Well Building	1	EA	\$130,000.00	\$130,000.00
5	Submersible Vertical Turbine Well-Head Pump	1	LS	\$90,000.00	\$90,000.00
6	Groundwater Well Discharge Piping	1	LS	\$16,000.00	\$16,000.00
7	Air Release Valve	1	EA	\$6,500.00	\$6,500.00
8	Pressure Switch	1	EA	\$5,000.00	\$5,000.00
9	Magnetic Flowmeter	1	EA	\$5,000.00	\$5,000.00
10	Drainage System	1	LS	\$15,000.00	\$15,000.00
11	Chemical Injection Shed (Ammonia)	1	LS	\$5,000.00	\$5,000.00
12	Chemical Injection Shed (Sodium Hypochlorite)	1	LS	\$5,000.00	\$5,000.00
13	Chemical Injection Shed (Lime)	1	LS	\$5,000.00	\$5,000.00
14	Chemical Dosing System (Ammonia)	1	LS	\$25,000.00	\$25,000.00
15	Chemical Dosing System (Sodium Hypochlorite)	1	LS	\$25,000.00	\$25,000.00
16	Chemical Dosing System (Lime)	1	LS	\$25,000.00	\$25,000.00
17	Chemical Distribution System (Ammonia)	1	LS	\$5,000.00	\$5,000.00
18	Chemical Distribution System (Sodium Hypochlorite)	1	LS	\$5,000.00	\$5,000.00
19	Chemical Distribution System (Lime)	1	LS	\$5,000.00	\$5,000.00
20	High Shear Static Mixer	1	LS	\$7,500.00	\$7,500.00
21	Storage Tank No. 1 and No. 2 Sample Taps	2	EA	\$3,500.00	\$7,000.00
22	Rock Excavation	20	CY	\$150.00	\$3,000.00
23	Electrical & Instrumentation	1	LS	\$150,000.00	\$150,000.00
24	Integration	1	LS	\$41,084.00	\$41,084.00
25	Wireless Radio Communication Path Survey	1	LS	\$15,000.00	\$15,000.00
26	Tuolumne County Air Pollution Control District (Permit to Construct)	1	LS	\$1,500.00	\$1,500.00
27	As-Built Drawings	1	LS	\$2,000.00	\$2,000.00
<b>Total Bid Price</b>					<b>\$700,000.00</b>