

Attachment 1, Part I – Application Cover Sheet

Application for Small Community Drought Relief Program pursuant to Budget Act of 2021

The _____
(Exact legal name of local entity applying for the grant)

Of _____
(Mailing address of local entity)

Of the County of _____, State of California, does hereby apply to the
California Department of Water Resources for a grant in the amount of \$_____.

For the following project under the Small Community Drought Relief Program:

(Specify project title)

By _____ Date _____
(Signature of authorized representative)

(Print or type name of authorized representative) (Title)

Telephone (_____) _____ E-mail _____

Brief Proposal Description:

Attachment 1, Part II – Applicant's Representatives

Project Name _____

Primary Project Contact

Name _____ Title _____

Address _____

Telephone (____) _____ FAX (____) _____

E-mail _____

Alternate Project Contact

Name _____ Title _____

Address _____

Telephone (____) _____ FAX (____) _____

E-mail _____

Alternate Project Contact (If Applicable)

Name _____ Title _____

Address _____

Telephone (____) _____ FAX (____) _____

E-mail _____

Type of Organization: _____
(city, county, water district, non-profit, etc.)

Attach a copy of the applicant's charter and the names and titles of its officers.

Attachment I, Part III – Summary of Project Costs

Provide a summary of the financing information about the proposed project, including cost share (if applicable).

		<u>% of Total Cost</u>
Total Cost of Project:	\$ _____	
Amount Requested:	\$ _____	_____
Amount of Cost Share ⁽¹⁾ :	\$ _____	_____
Amount of Federal Contribution:	\$ _____	_____
In-kind Contributions:	\$ _____	_____
Amount to be Funded by Other Sources: (Describe below in table.)	\$ _____	_____

Sources of funds from partner agencies for this project, if applicable:

Amount	Name of Source	Status of Funds ⁽²⁾
\$		
\$		
\$		
\$		
Total: \$		

Is the project entirely benefiting a Disadvantaged Community (DAC) or Severely Disadvantaged Community (SDAC)? (Y/N): _____

If the project is partially benefiting DAC or SDAC, provide percentage of grant funds to directly benefit a DAC or SDAC: _____

Additional explanation, if necessary:

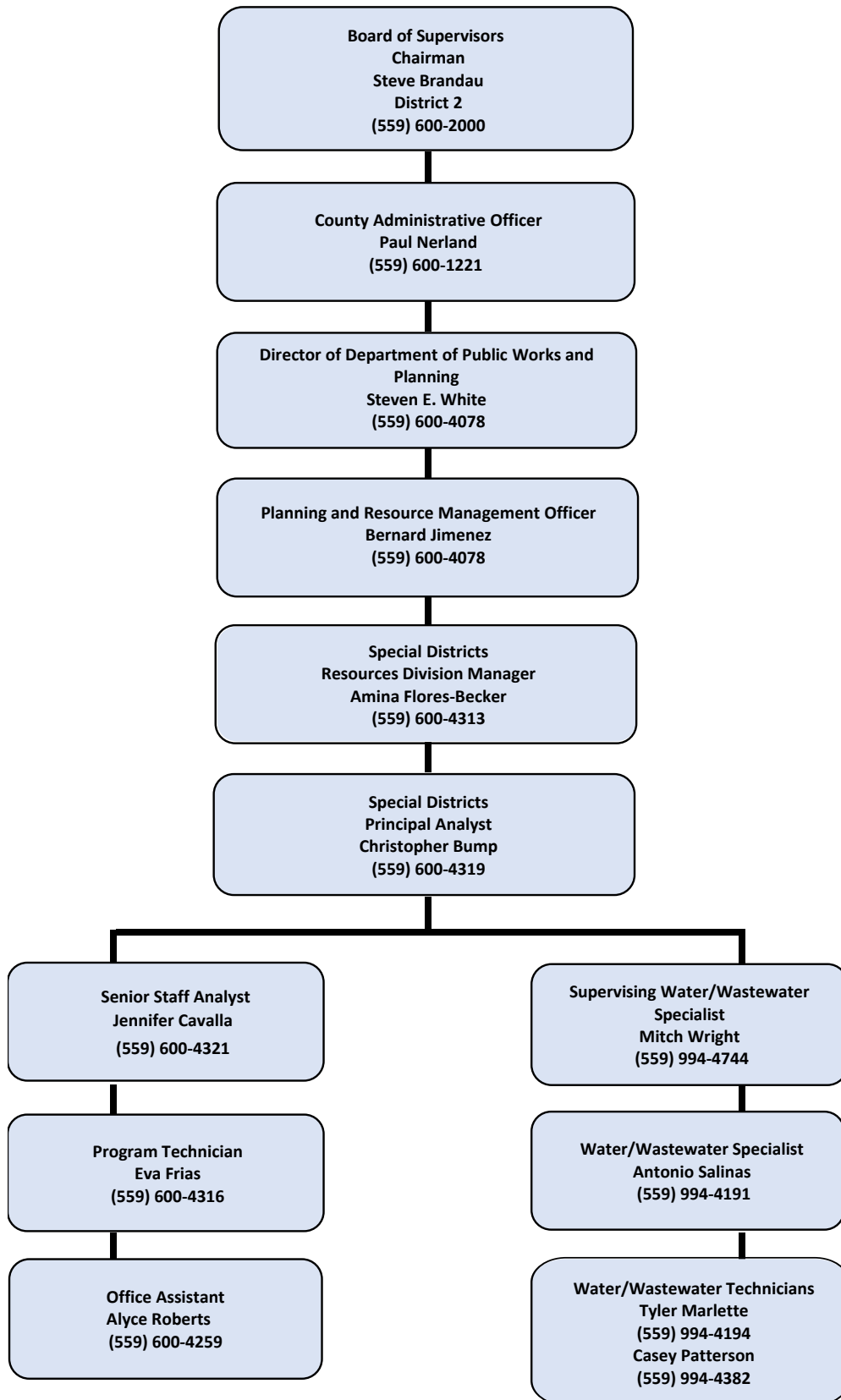
Notes:

⁽¹⁾ No cost share is required; however, grantees are required to show cost share (e.g., federal, local, or other funds) if an awarded project costs more than the grant amount.

⁽²⁾ Identify the current status of funds: available, planned/budgeted, awarded or pending.

Special Districts Organizational Chart

Exhibit A



Attachment 2 – Project Proposal, Tasks, & Budget

1. Title of Project

WWD 40 Shaver Springs - Water Treatment and New Well

2. Project Management

Project Director:

Steven E. White, PE, PLS - Director of Public Works and Planning, County of Fresno
(559) 600-4537
stwhite@fresnocountyca.gov

Project Managers:

Sebastian Artal, PE - Supervising Engineer, County of Fresno
(559) 600-4512
sartal@fresnocountyca.gov

Christopher Bump - Principal Staff Analyst, County of Fresno
(559) 600-4319
cbump@fresnocountyca.gov

Jennifer Cavalla – Staff Analyst, County of Fresno
(559) 600-4321
jcavalla@fresnocountyca.gov

Cooperators:

The County will hire a consultant to design improvements, generate plans and specifications, and provide support during the construction phase of the project.

3. Scope of Work and Project Description

The District obtains groundwater from various wells within and near the existing subdivision. The District owns seven groundwater wells. Many of these have not been in operation for several years due to low levels of production or no production at all, as well as high levels of radiological contaminants over the Maximum Contaminant Level (MCL). Out of seven wells owned by the District, only two wells, Well #6 and Well #7 currently produce water that is used to supply the community. However, both of these wells do not produce enough clean water to adequately supply the community or comply with safe drinking water standards. The capacity of these wells has fluctuated, especially during past and current droughts. In 2009, the District received a compliance order from the State Water Resources Control Board (SWRCB) for levels of uranium that exceeded the MCL in Well #6. Additionally, in 2013 the District received a compliance order from the SWRCB for gross alpha contamination above the MCL for Well #6.

While the District is currently being supplied by two wells, production of these wells remains below the amount necessary to meet the demands of the District. The Shaver Springs subdivision currently contains 69 developed parcels and at full buildout will have a total of 92 residential parcels. The two wells supplying these parcels produce a total of approximately 14-20 gallons per minute for the entire community. This equates to approximately 0.25 gallons per

minute for each of the 69 developed parcels. Due to the lack of water available to the District, the County of Fresno has placed the District on Stage 4 of the Fresno County Water Conservation Ordinance. If any of the two wells experience any shortage in capacity the community will have almost no access to water.

The County is seeking funding for a project to improve the water supply system for the District. This project would consist of identifying one or more additional sources of potable water to supply the community. This may include the purchase of an existing private well and/or construction of a new well. Additionally, the County is researching alternatives to treat contaminants present in the water sources.

Completing the project will help ensure that the residents in this District have access to safe, clean, and reliable sources of water.

The County is proposing two independent phases for this project. The first phase would involve installing treatment facilities and equipment to treat existing sources and remove contaminants. Wells currently or previously contaminated with uranium, gross alpha, iron or manganese would be safely connected to the new treatment system to increase reliability and water quality of the system. The second phase would source additional water capacity for the community.

The location of the project is within the jurisdiction of the County of Fresno, State of California. A project location map is presented in **Exhibit A on page 5**.

4. Project Objectives

Phase 1:

Install a water treatment system to the District's current water supply to remove contaminants, allowing the District to provide the community with water that meets drinking water standards. Each well has been tested for radiological contaminants. The intent of the project is to provide the necessary treatment to the contaminated water so that the water system will be in compliance with current standards for potable drinking water. Without the installation of a water treatment system, the amount of potable drinking water available to the community will be severely jeopardized.

Phase 2:

Increase the available water supply: Water supply will be increased by connecting the WWD 40 water system to a new well. The connection of an additional well to the water system will increase its capacity to manage the daily water demands of the residents within WWD 40. The community's Average Day Demand (ADD) was reported in a 2018 Technical Memorandum to be approximately 8,826 gpd.

Improve the reliability of the water system. The existing community wells have all experienced similar complications consisting of shortages in water supply and radiological contamination. Adding a new source of water will improve the reliability of the system.

The County anticipates the selection and installation of an additional groundwater well to be a time-consuming process, hence the separate phases proposed above. The new source may take longer than the allotted time outlined in the DWR Drought Grant guidelines. The County understands the time to complete projects under this grant is extremely limited. The County would like to pursue a secondary water source under the terms of the grant if time permits. At

the very least, a location for the new well should be selected and plans drafted to incorporate a future source for the community.

5. Task Breakdown

The County anticipates the following action items remaining to prepare the project for advertisement and construction:

- Generate a Request for Proposal for Design Services
- Award Design Contract to chosen consultant
- Complete CEQA application requirements
- Complete PS&E's
- ROW Acquisition (if timing allows)

6. Schedule

A detailed project schedule that includes tasks, duration and estimated start and finish dates is presented in **Exhibit B on page 6.**

7. Budget

The cost of Phase 1 of the project is estimated at \$793,380. This includes \$783,380 in construction, planning, and other project costs estimated by the project engineer, and \$10,000 for project oversight and administration activities by the County of Fresno on behalf of the WWD.

The projected cost of Phase 2 is \$556,200. This includes \$546,200 in construction, planning, and other project costs estimated by the project engineer, and \$10,000 for project oversight and administration activities by the County of Fresno on behalf of WWD 40.

The total cost of the two phases of the project is estimated at \$1,349,580.

Itemized budgets for each of the two phases of the project are presented in Exhibits C.1 and C.2 on pages 7-8.

8. Deliverables

The County will submit the following for DWR approval or comment once funding is in place:

- CEQA recordation for project
- Plans and Specifications: 30/60/90/Final
- Proof of advertisement of project for bidding
- Bid and Award Notices
- Notice to Proceed
- Final as-built drawings

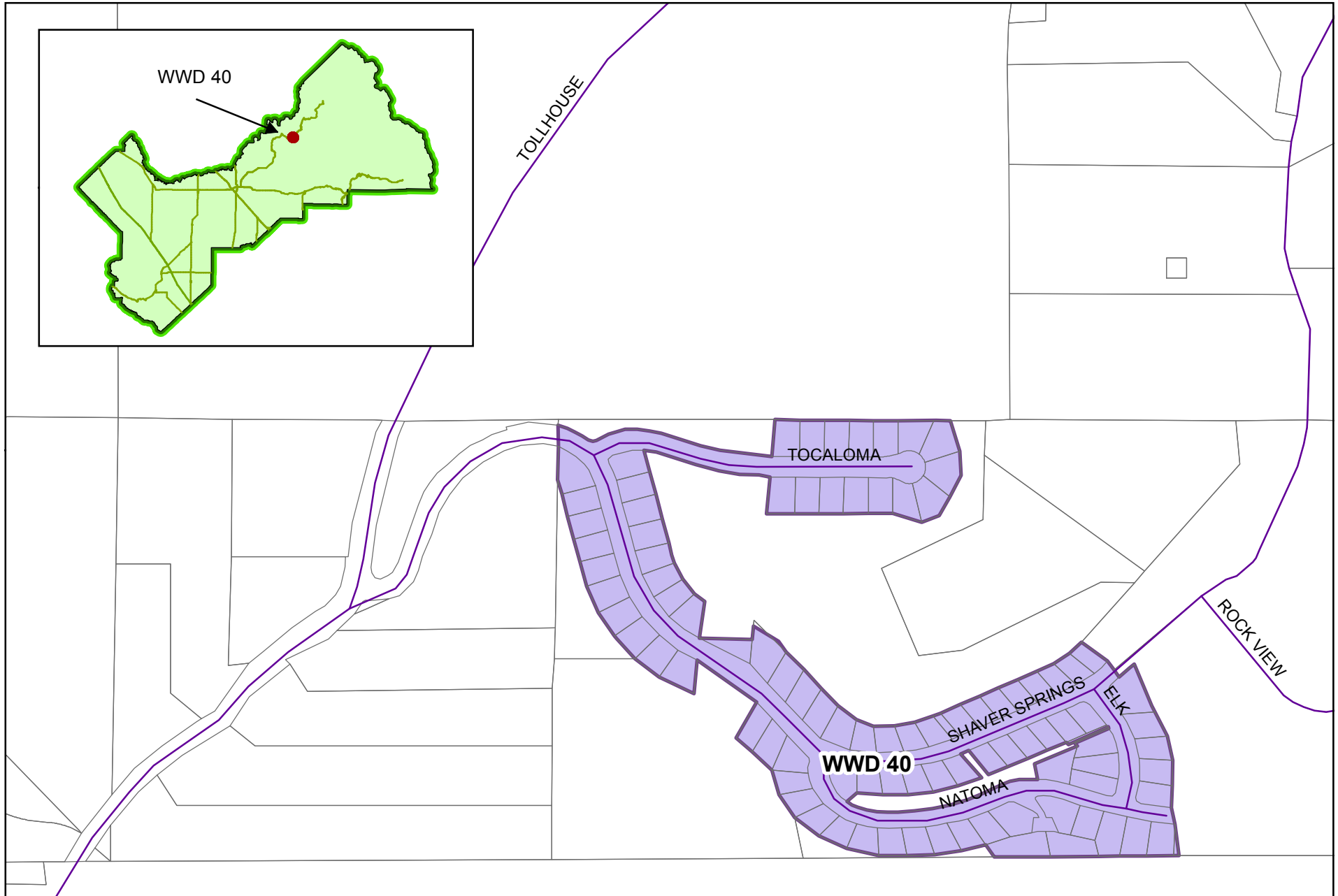
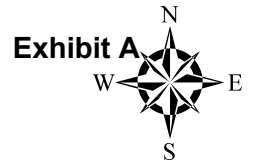
Note: For Phase 2 some of these deliverables may not be attainable due to time constraints. The County will make every effort possible to deliver the entire project; however, some deliverables are out of the County's control, such as obtaining Right of Way Acquisition which may impact the overall deliverables.



County of Fresno

Water Works District 40

EXHIBIT A - PROJECT LOCATION MAP



Small Community Drought Relief Program Funding Application, 2021
County of Fresno on behalf of WWD 40 Shaver Springs

Exhibit A

Project: WWD40 Improvements Date: Fri 12/10/21	Task		External Tasks		Inactive Summary		Start-only		Deadline	
	Split		External Milestone		Manual Task		Finish-only			
	Milestone		Inactive Task		Duration-only		External Tasks			
	Summary		Inactive Milestone		Manual Summary Rollup		External Milestone			
	Project Summary		Inactive Milestone		Manual Summary		Progress			

EXHIBIT C.1 - PHASE 1 PROJECT BUDGET

COUNTY OF FRESNO
DEPARTMENT OF PUBLIC WORKS AND PLANNING
ENGINEER'S ESTIMATE

Exhibit A

COUNTY OF FRESNO
DEPARTMENT OF PUBLIC WORKS AND PLANNING
PROJECT: WWD40 - WATER TREATMENT & FACILITY IMPROVEMENTS

PROJECT:
WWD40 - Site improvements

BUDGET ESTIMATE

LOCATION:
SHAVER SPRINGS

ITEM NO.	ESTIMATED QUANTITY	UNIT OF MEASURE	ITEM	UNIT PRICE	TOTAL PRICE
1	1	LS	Mobilization, Demobilization, Insurance, and Bonds	\$20,000	\$20,000
2	1	LS	Finish project site	\$3,000	\$3,000
3	1	LS	Water Pollution Control Plan	\$2,500	\$2,500
4	1	LS	Dust Control Plan	\$5,000	\$5,000
5	1	LS	Job Site Management	\$5,000	\$5,000
6	1	LS	Worker Protection	\$3,000	\$3,000
7	1	LS	Traffic Control	\$2,000	\$2,000
8	1	LS	Miscellaneous Facilities & Operations	\$5,000	\$5,000
9	1	LS	Clearing and Grubbing	\$5,000	\$5,000
10	1	LS	Site Grading	\$5,000	\$5,000
11	1	LS	Site Piping, Valves & Appurtenances	\$40,000	\$40,000
12	200	LF	Chain Link Fence and Access Gates	\$50	\$10,000
13	1	EA	Tie-in to Existing System (2 groundwater wells)	\$10,000	\$10,000
14	1	LS	Permanent Treatment Skid	\$110,000	\$110,000
15	1	LS	Treatment Equipment Installation	\$25,000	\$25,000
16	1	LS	Permanent Housing: Permanent Treatment Skid	\$25,000	\$25,000
17	1	LS	Pilot Study Equipment	\$30,000	\$30,000
18	1	LS	Class 2 Aggregate Base Surfacing	\$5,000	\$5,000
19	1	LS	Electrical, Controls & Lighting	\$150,000	\$150,000
SUBTOTAL					\$460,500

CONSTRUCTION CONTINGENCY (20%) \$92,100

TOTAL CONSTRUCTION COST \$552,600 \$552,600

PLANNING, SURVEY, ENVIRONMENTAL, PERMITS \$35,000

PG&E Rule 16 \$20,000

PS&Es (15% OF TOTAL CONSTRUCTION) \$82,890

ADVERTISE & AWARD \$10,000

CONSTRUCTION ENGINEERING (15%) \$82,890

CSA PROJECT OVERSIGHT & ADMINISTRATION \$10,000

TOTAL PHASE 1 PROJECT COST \$793,380

EXHIBIT C.2 - PHASE 2 PROJECT BUDGET

COUNTY OF FRESNO
DEPARTMENT OF PUBLIC WORKS AND PLANNING
ENGINEER'S ESTIMATE

Exhibit A

Optional: Additional Source					
20	1	LS	Mobilization, Demobilization, Insurance, and Bonds	\$15,000	\$15,000
21	1	LS	Finish project site	\$1,500	\$1,500
22	1	LS	Water Pollution Control Plan	\$1,000	\$1,000
23	1	LS	Dust Control Plan	\$1,500	\$1,500
24	1	LS	Job Site Management	\$2,500	\$2,500
25	1	LS	Worker Protection	\$1,000	\$1,000
26	1	LS	Traffic Control	\$500	\$500
27	1	LS	Miscellaneous Facilities & Operations	\$1,500	\$1,500
28	1	LS	Clearing and Grubbing	\$5,000	\$5,000
29	1	LS	Drill 14 in Diam borehole, instal 8 5/8" casing & 100 ft cement seal	\$20,000	\$20,000
30	1200	LF	Drill 6" diam in hard rock	\$30	\$36,000
31	1	LS	Pump Development and Pump Test	\$30,000	\$30,000
32	1	LS	Well Pump Foundation	\$10,000	\$10,000
33	1	LS	Pump Bowls & motor	\$15,000	\$15,000
34	800	LF	Column Pipe & Shaft	\$40	\$32,000
35	1	LS	Discharge Head	\$30,000	\$30,000
36	1	LS	Site Grading	\$5,000	\$5,000
37	1	LS	Site Piping, Valves & Appurtenances	\$10,000	\$10,000
38	200	LF	Chain Link Fence and Access Gates	\$50	\$10,000
39	1000	LF	2" Diam pipe from new well to distribution system	\$50	\$50,000
SUBTOTAL					\$277,500

CONSTRUCTION CONTINGENCY (20%)	\$55,500	
TOTAL CONSTRUCTION COST	\$333,000	\$333,000
RoW ACQUISITION		\$25,000
PLANNING, SURVEY, ENVIRONMENTAL, PERMITS		\$35,000
PG&E Rule 16		\$20,000
PS&Es (20% OF TOTAL CONSTRUCTION)		\$66,600
ADVERTISE & AWARD		\$10,000
CONSTRUCTION ENGINEERING (20%)		\$66,600
TOTAL PHASE 2 PROJECT COST		\$556,200

WWD 40

Org No.: 9360
Account No.: 8400
Program: 91938
Fund No.: 0900
Subclass No.: 16000