

## **Introduction**

Attachment 5 contains the overall proposal schedule, project schedules, and schedule justification. The project schedules are consistent with the tasks discussed in Attachment 3 - Work Plan.

The Gold Village Drought Resiliency project comprises three components: *A. Installation of a storage tank, B. Implementation of a residential rebate program (landscaping and appliances/fixtures), and (C) Investigation of possible new water source.*

A schedule has been prepared for each project component. The Proposal schedule integrates these respective project schedules.

### **Award of Construction Bids by April 1, 2015 (per DWR Guidelines, Table 10 – Scoring Criteria, # 21, page 28)**

The Gold Village Drought Resiliency project would serve a rural DAC exclusively, so is considered to be a DAC project and eligible for design, permitting, and CEQA activities. While each of the components will commence immediately upon receipt of Notice of Award, the storage tank project needs design and engineering prior to 'breaking ground'. Therefore, the schedule anticipates initiating the requisite contracting services, design, engineering and/or permitting by April 1, 2016.

The following project schedules demonstrate the steps necessary to ensure that the proposed objectives and outcomes can be met. The tables below displays each of the three project components for Project #1 – Gold Village Drought Resiliency, as well as an overview of the schedule for all three components.

**Implementing Agency: Yuba County as fiscal agent and project manager for the Gold Valley Community Services District**

The project comprises three components: *A. Installation of a storage tank, B. Implementation of a residential rebate program (landscaping and appliances/fixtures), and (C) Investigation of possible new water source.*

Each of these components has its own implementation schedule. The narrative below provides additional information beyond that shown on the schedule.

**PLEASE NOTE: There are no dependencies and predecessors between components.** None of the components depend on one another to meet the stated objectives. The bullet points below are meant to provide an overview summary of the work effort and are not meant to repeat or replace the specific tasks shown in the Work Plan (Att 3) and Budget (Att 4) or the Excel forms in this Att 5). Rather, these lists illustrate the basic flow of work and emphasize the relatively simplicity of the work effort associated with each component.

*A. Installation of a storage tank*

**Work Flow:**

- Identify and retain design engineer (via competitive bid process)
- Create 100% design materials for the storage tank and ancillary facilities
- Create bid materials to support selection of a contractor to construct the tank and ancillary facilities
- Initiate construction activities
- Following construction of the tank, initiate post-project monitoring and documentation of project benefits

**Dependencies and predecessors:** The tasks presented on the schedule are discrete, linear, and sequential. In other words, retaining the design engineer/consultant, preparing the design, completing the bid process and award contract for construction, implementing construction activities and monitoring to determine the results of the project will, necessarily, occur in sequence.

**Why schedule is realistic, reasonable, and accomplishable:** The County (acting as fiscal agent and project manager for the CSD) has considerable experience with implementation of complex construction projects. Staff from the Public Works Department will be managing this project, all of whom are experienced professionals with a track record of implementing projects equal to and larger than the project proposed. Design and installation of a storage tank and ancillary facilities is not an intrinsically complex project and there are no conditions in the area which would complicate the construction process. The schedule includes contingency for weather-related delays.

*B. Implementation of a residential rebate program (landscaping and appliances/fixtures)*

**Work Flow:**

- Create materials to support implementation of the rebate program (forms, policies, administrative systems)
- CSD board approves the rebate program materials
- Announce rebates and solicit application forms
- Review and approve application forms based on criteria
- Award rebates
- Document rebate-related purchase and installation of fixtures and/or landscaping
- Monitor outcomes against performance standards

**Dependencies and predecessors:** The tasks presented on the schedule are discrete, linear, and sequential. In other words, creating materials to support processing rebate requests, getting these materials approved by the CSD Board, soliciting and reviewing applications for rebates, issuing rebates and monitoring to determine the results of the project will, necessarily, occur in sequence. Therefore, the tasks as presented implicitly indicate dependencies and predecessors.

**Why schedule is realistic, reasonable, and accomplishable:** The County (acting as fiscal agent and project manager for the CSD) has considerable experience with grant administration and has already begun the process of creating forms to support the application process (40% complete). The administrative systems for issuing checks, creating separate accounts within the County accounting/reporting system to support reporting and other similar activities are well within the demonstrated capacity of the Public Works Department.

C. *Investigation of possible new water source*

Please note – this component has two parts: Ground Water Availability and Surface Water Availability.

**Work Flow – Ground Water Availability:**

- Prepare materials to support retaining a consulting engineer
- Retain engineer
- Prepare preliminary exploratory well drilling plan
- Prepare materials to support retaining a well drilling firm
- Retain firm
- Refine drilling plan
- Drill wells and report results
- Cap wells

**Dependencies and predecessors:** The tasks presented on the schedule are discrete, linear, and sequential. In other words, retaining the engineering consultant, preparing the initial well drilling plan, initiating the bid process and award of contract for exploratory well drilling firms, completing the test wells and monitoring to determine the results of the project will, necessarily, occur in sequence. Therefore, the tasks as presented implicitly indicate dependencies and predecessors.

**Why schedule is realistic, reasonable, and accomplishable:** The County (acting as fiscal agent and project manager for the CSD) has considerable experience with implementation of complex construction projects. Staff from the Public Works Department will be managing this project, all of whom are experienced professionals with a track record of implementing projects significantly larger and more complex than the project proposed. Design and installation of six exploratory wells is not an intrinsically complex project and there are no conditions in the area which would complicate the drilling process. The schedule includes contingency for weather-related delays.

**Work Flow – Surface Water Availability:**

- Prepare materials to support retaining a consulting engineer
- Retain engineer
- Coordinate discussion and create a record of interactions
- If agreement is reached then codify the nature of the agreement
- Initiate selection of an engineer to design to a 30% level the necessary infrastructure design
- Determine feasibility based on 30% design.

**Dependencies and predecessors:** The tasks presented on the schedule are discrete, linear, and sequential. In other words, retaining the consultant, interviewing agencies to determine project feasibility, entering into detailed discussions with possible water purveyors and then initiating 30% design activities will, necessarily, occur in sequence. Therefore, the tasks as presented implicitly indicate dependencies and predecessors.

**Why schedule is realistic, reasonable, and accomplishable:** The County (acting as fiscal agent and project manager for the CSD) has considerable experience with a variety of inter and intra-agency negotiations and joint infrastructure development and design. Staff from the Public Works Department will be managing this project, all of whom are experienced professionals with a track record of implementing similar projects that equal to and larger than the project proposed. Identifying a water purveyor with the ability and willingness to serve the CSD is not an intrinsically complex project, the project is similar to other initiatives guided by the Public Works Department.

<b>Project Title:</b> Gold Village Drought Resiliency - Component A : Installation of a storage tank																												
<b>Project Proponent:</b> Yuba County (as fiscal agent/project manager for Gold Village Community Services District)																												
<b>NOTE: If a task from the work plan is not shown below, it has been intentionally omitted as there was no work for this Component within that task.</b>					Quarter 1		Quarter 2		Quarter 3		Quarter 4		Quarter 5		Quarter 6		Quarter 7		Quarter 8									
Budget Category	Task #	Tasks*	Start	End	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
<b>(a)</b>	<b>Direct Project Administration</b>																											
	1	Project Management	1/2/2016	10/31/2017																								
	2	Labor Compliance	1/3/2017	9/30/2017																								
	3	Reporting	1/2/2016	10/31/2017																								
<b>(b)</b>	<b>Land Purchase/Easement</b>																											
<b>(c)</b>	<b>Planning/Design/Engineering/Environmental Documentation</b>																											
	6	<b>CEQA documentation</b>																										
	6.1	Component A: Installation of storage tank	10/1/2016	10/31/2016																								
	<b>Permitting</b>																											
	7.1	Component A:Installation of storage tank	10/1/2016	11/20/2016																								
	<b>Design</b>																											
	8.1	Component A – Installation of storage tank	1/2/2016	10/31/2016																								
	9	Project Performance Monitoring Plan																										
	9.1	Component A – Installation of storage tank	8/1/2017	10/31/2017																								
	<b>Contract Services</b>																											
	10.1	Component A – Installation of storage tank	10/1/2016	12/31/2016																								
	11	<b>Construction Administration</b>																										
	11.1	Component A – Installation of storage tank	1/2/2017	9/30/2017																								
<b>(d)</b>	<b>Construction/Implementation Activities</b>																											
	12.1	Component A – Installation of storage tank	1/2/2017	9/30/2017																								
	12.1 .1	Mobilization and Demobilization	1/2/2017	9/30/2017																								
	12.1.2	Site preparation	1/2/2017	9/30/2017																								
	12.1.3	Install, construct, excavate	1/2/2017	9/30/2017																								

**Project Title:** Gold Village Drought Resiliency - Component A : Installation of a storage tank

**Project Proponent:** Yuba County(as fiscal agent/project manager for Gold Village Community Services District)

<b>Milestones</b>		
<b>Task</b>		<b>Date</b>
1	Initiate Project Management activities	1/2/16
	Complete project	12/31/17
3	Initiation of first Progress Report	1/2/16 - 3/1/16
	Completion of Final Progress Report, Project Completions and final invoice	12/31/17
6.1	Completion of Categorical Exemption	10/31/16
7.1	Obtain grading and building permits from County	10/1-11/30/16
8.1	Completion of design of storage tank and ancillary facilities	10/31/16
9.1	Implement performance monitoring plan - measure actual water used	8/1-10/30/16
10.1	Contract for engineering and design services	3/16/16
11.1	Initiate and follow thru with construction	1/2-9/30/16
12.1.1	On-going mobilization as part of phase construction activities	8/31/17
12.1.2	Site preparation activities in sequence, as needed to accommodate construction phase	9/1/17
12.1.3	Initiation and completion of construction activities	9/2/17

Project Title: Component B - Implementation of residential appliance/fixture and landscaping rebate																												
Project Proponent: Yuba County (as fiscal agent/project manager for Gold Village Community Services District)																												
NOTE: if a task from the workplan is not shown below, it has been intentionally omitted					Quarter 1			Quarter 2			Quarter 3			Quarter 4			Quarter 5			Quarter 6			Quarter 7			Quarter 8		
Budget Category	Task #	Tasks*	Start	End	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
(a)	<b>Direct Project Administration</b>																											
	1	Project Management	1/2/2016	12/31/2017																								
	3	Reporting	1/2/2015	12/31/2017																								
(c)	8	<b>Design</b>																										
	8.2	Component B - Implementation of residential appliance/fixture and landscaping rebate	1/2/2015	3/31/2016																								
	9	<b>Project Performance Monitoring Plan</b>																										
	9.2	Component B - Implementation of residential appliance/fixture and landscaping rebate	2/1/2015	3/31/2015		Develop			Implement																			
(b)	<b>Construction/Implementation</b>																											
(c)	12	<b>Construction/Implementation Activities</b>																										
	12.2	Component B - Implementation of residential appliance/fixture and landscaping rebate	4/1/2015	12/31/2017																								

**Project Title:** Component B - Implementation of residential appliance/fixture and landscaping rebate  
**Project Proponent:** Yuba County (as fiscal agent/project manager for Gold Village Community Services District)

Milestones	Date	
1	Initiate Project Management activities	1/2/16
	Complete project	12/31/17
3	Initiation of first Progress Report	1/2/16 - 3/31/16
	Completion of Final Progress Report, Project Completions and	12/31/17
8.2	Design and publicize rebate application material	1/2-3/31/16
9.2	Implement performance monitoring plan - measure actual water used against performance target, also number of rebates applied	5/1/16 - 12/31/17
12.2	Full implementation of rebate program (appliances/fixtures and landscaping)	4/1/16 - 12/31/17

Project Title: Gold Village Drought Resiliency - Component C: Investigation of new water source																												
Project Proponent: Yuba County (as fiscal agent/project manager for Gold Village Community Services District)																												
NOTE: If a task from the work plan is not shown below, it has been intentionally omitted as there was no work for this Component within that task.					Quarter 1			Quarter 2			Quarter 3			Quarter 4			Quarter 5			Quarter 6			Quarter 7			Quarter 8		
Budget Category	Task #	Tasks*	Start	End	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
(a)	Direct Project Administration																											
	1	Project Management	1/2/2016	12/31/2017																								
	3	Reporting	1/2/2016	12/31/2017																								
(c)	Land Purchase/Easement																											
	4	Land Easement/Acquisition																										
	4.1	Groundwater Availability	9/1/2016	11/30/2016																								
(c)	Planning/Design/Engineering/Environmental Documentation																											
	5	Feasibility Studies																										
	5.1.1	Groundwater availability	5/1/2016	8/31/2016																								
	5.1.2	Surface water availability (X = decision point as to feasibility)	1/2/2016	4/30/2016				Phase 1	X																			
	7	Permitting																										
	7.2	Component C - Investigation of new water source (Groundwater availability)	9/1/2016	10/1/2016																								
	8.0	Design																										
	8.3	Component C - Investigation of new water source (Surfacewater availability)	6/1/2016	4/30/2017																								
	9	Project Performance Monitoring Plan																										
	9.3	Component C - Investigation of new water source																										
	9.3.1	Component C - Investigation of new water source (Groundwater availability)	5/1/2017	6/30/2017																								
	9.3.2	Component C - Investigation of new water source (Surfacewater availability)	5/1/2017	6/30/2017																								
(c)	Construction/Implementation																											
	10.0	Contract Services																										
	10.2	Component C - Investigation of new water source (Groundwater availability)... engineer	1/2/2016	4/15/2016				Engineer																				
	10.2	Component C - Investigation of new water source (Groundwater availability)	5/1/2016	8/30/2015																								
	11	Construction Administration																										
	12	Construction/Implementation																										

<b>Project Title:</b> Gold Village Drought Resiliency - Component C: Investigation of new water source																												
<b>Project Proponent:</b> Yuba County (as fiscal agent/project manager for Gold Village Community Services District)																												
<b>NOTE: If a task from the work plan is not shown below, it has been intentionally omitted as there was no work for this Component within that task.</b>					Quarter 1			Quarter 2			Quarter 3			Quarter 4			Quarter 5			Quarter 6			Quarter 7			Quarter 8		
Budget Category	Task #	Tasks*	Start	End	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
	12.3	Component C - Investigation of new water source (Groundwater availability)	12/1/2016	4/30/2017																								

Milestones: Groundwater Availability		Date
1	Begin Project	1/2/16
2	Project Management	
3	Initiate preparation of first progress report and submit	1/2-3/31/16
4.1	Obtain Right of Access ofr exploratory wells	9/1-11/30/16
5.1.1	Feasibility Study Complete - wells sites located	5/1-8/31/16
7.2	Permitting Complete	9/1-9/30/16
9.3.1	Exploratory Wells completed - monitoring completed	5/30/17
10.2	Contracting - engineer	1/2-4/30/16
	Contracting driller	5/1-4/15/16
11	Constructon Admistration	9/1/16-3/31/17
12.3	Develop expploratory wells	9/1/16-3/31/18
Milestones: Surfacewater Availability		Date
1	Begin Project	1/2/16
3	Initiate preparation of first progress report and submit	1/2-3/31/16
5.1.2	Phase 1 - Initial discussions with purveyors	1/2/-4/31/16
5.1.2	Determination if surface water connection is feasible	5/16
8.3	Initiate Phase 2 (If connection deemed feasible)	1/6/16-4/30/17
8.3	Initate design if connection deemed feasible	8/16
9.3.2	Monitor results of work effort	4/1-5/31/17