

ATTACHMENT 6: SCHEDULE

PROPOSAL SCHEDULE

Detailed schedules for each of the individual projects and the Proposal are provided on the following pages. The schedules show the sequence and timing of work items presented in the Proposal and assumes the effective date of the grant agreement to be October 16, 2014. The schedule shows the start dates, end dates, and milestones for consistency with each work item contained in Attachment 4, Work Summary, and when applicable, dependence on predecessors is also shown. All projects in this proposal are scheduled to start construction/implementation by April 1, 2015. The bulk of the work occurs in 2015 and many of the benefits, such as water savings, water supply protection and recharge, will be realized soon after. All major work is expected to be complete in 2016 with follow-up activities such as monitoring extending into later years..

ID	Task Name	Start	Finish	2014				2015				2016				2017			
				Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	
1	Westside - Sacramento 2014 Drought Funding Application Roll-up Schedule	5/1/13	9/15/16																
2	YCFWCD Drought Preparedness Canal Modernization	9/1/13	7/1/16																
3	Woodland Recycled Water Project	5/1/13	4/1/16																
4	Mount Hannah Pipeline Water Loss Minimization Project	6/1/13	1/1/16																
5	Spring Valley Pipeline Water Loss Minimization	5/1/13	7/31/16																
6	Paradise Valley Water System Intertie and Consolidation Project	6/1/13	4/1/16																
7	Grant Administration and Application	5/1/14	9/15/16																
8	Grant Award Date	10/16/14	10/16/14																
9	Grant Application	5/1/14	7/21/14																
10	Grant Administration	10/16/14	9/15/16																
11	Reporting	4/1/15	9/15/16																

Westside - Scaramento 2014 Drought Grant Application

Task  Summary  Manual Task 
 Milestone  Project Summary 

YCFCWCD Drought Preparedness Canal Modernization Project

The Yolo County Flood Control and Water Conservation District (YCFCWCD) has prepared a detailed schedule for the YCFCWCD Drought Preparedness Canal Modernization Project. The YCFCWCD prepared the schedule based on tasks necessary to complete the canal gate retrofit and groundwater well system improvements. Task durations have been reviewed by a consultant to verify estimates are reasonable for the project. Construction of the canal gate and well drilling improvements is expected to begin in early spring 2015; and operational by spring 2016. Elements of the project, such as specific gates will be online and operational as soon as they are installed, therefore some project benefits will be realized during construction, providing operational improvements and water savings right away. The schedule is achievable for the following reasons:

- The project is located on existing easements and property owned by YCFC&WCD, eliminating the time needed to acquire private easements and other land acquisitions, allowing the project to be streamlined to construction and implementation.
- Project design is 100% complete for slide gates, automatic gates, Chapman outlet, and SCADA flow meters as YCFCWCD has performed field testing of a range of equipment and has selected the equipment for use in this project. The well design estimated 60% complete and is awaiting funding to proceed with final design of the wells.
- Environmental documentation is considered 90% complete (only review of the existing CEQA document for the wells remains). No permits are required for gates and meters and well permits are considered 30% complete.

The significant progress of the design and environmental documentation phases of this project indicates a quick turnaround to the construction and implementation phase of the project once funding has been awarded.

Woodland Recycled Water Project

The City of Woodland has prepared a detailed schedule for the Woodland Recycled Water Project. The City has prepared the schedule based on tasks necessary to complete the recycled water pipeline, connection retrofits and pump station modifications. Task durations have been reviewed by a consultant to verify estimates are reasonable for the project. Construction of the recycled water system improvements is expected to begin in early spring 2015; and operational by winter 2016. This project will provide immediate water savings and reduce potable water demand in the City. The schedule is achievable for the following reasons:

- The project is located in existing public right-of-ways of the City of Woodland, reducing the time needed to acquire private easements and other land acquisitions, allowing the project to be streamlined to construction and implementation.
- The land is relatively flat and in most areas, traffic is relatively low. Creating detours and installing pipeline will cause minimal traffic disturbance, allowing for a faster construction and implementation schedule than if it were in a densely urbanized area.
- Design needs are well understood because a feasibility study has been completed in early 2014. Design and completion of the Title 22 Engineering report is expected to begin in August 2014, providing ample time to complete the needed documents prior to construction bidding.

ID	Task Name	Start	Finish	2014				2015				2016				
				Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3
1	YFCWCWD Drought Preparedness Canal Modernization	9/1/13	7/1/16													
2	Grant Award Date	10/16/14	10/16/14													
3	Direct Project Administration	6/2/14	7/1/16													
4	Administration	10/16/14	7/1/16													
5	Kickoff	11/18/14	11/18/14													
6	Quarterly invoices	10/16/14	7/1/16													
15	Labor compliance	4/1/15	4/29/16													
16	Reporting	6/2/14	7/1/16													
17	Grant execution materials	6/2/14	11/14/14													
18	Quarterly progress report	10/16/14	5/16/16													
26	Final project report	5/2/16	7/1/16													
27	Land Purchase/Easement	1/1/14	9/1/14													
28	Easement/Right of Way	1/1/14	9/1/14													
29	Planning/Design/Engineering/Environmental Documentation	9/1/13	7/27/15													
30	Environmental documentation	1/1/14	10/1/14													
31	Design	12/1/13	11/20/14													
32	Permitting	3/1/14	7/27/15													
33	Assesment & evaluation	9/1/13	4/30/14													
34	Construction/Implementation	1/1/15	7/1/16													
35	Construction contracting	1/1/15	3/30/15													
36	Bidding & contracting	1/1/15	3/25/15													
37	Notice to proceed	3/30/15	3/30/15													
38	Construction/implementation	4/1/15	4/29/16													
39	Environmental compliance/mitigation/enhancement	4/1/15	4/29/16													
40	Construction Administration	4/1/15	7/1/16													

ID	Task Name	Start	Finish	Predecessors	2014				2015				2016					
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	
1	Woodland Recycled Water Project	Wed 5/1/13	Fri 4/1/16		[Summary bar]													
2	Grant Award Date	Thu 10/16/14	Thu 10/16/14		[Milestone diamond]													
3	Direct Project Administration	Mon 6/2/14	Fri 4/1/16		[Manual Task bar]													
4	Administration	Thu 10/16/14	Fri 4/1/16		[Manual Task bar]													
5	Kickoff	Tue 11/18/14	Tue 11/18/14	17	[Milestone diamond]													
6	Quarterly invoices	Thu 10/16/14	Fri 4/1/16		[Manual Task bar]													
15	Labor Compliance	Sat 3/21/15	Tue 3/22/16		[Manual Task bar]													
16	Reporting	Mon 6/2/14	Fri 4/1/16		[Manual Task bar]													
17	Grant execution materials	Mon 6/2/14	Fri 11/14/14		[Manual Task bar]													
18	Quarterly progress reports	Thu 10/16/14	Mon 2/15/16		[Manual Task bar]													
25	Final project report	Wed 2/3/16	Fri 4/1/16	35	[Manual Task bar]													
26	Land Purchase/Easement	Wed 5/1/13	Sat 1/31/15		[Manual Task bar]													
27	Easements/Right of Way	Wed 5/1/13	Sat 1/31/15		[Manual Task bar]													
28	Planning/Design/ Engineering/Environmental Documentation	Sun 12/1/13	Mon 12/15/14		[Manual Task bar]													
29	Environmental documentation	Sun 6/1/14	Mon 9/1/14		[Manual Task bar]													
30	Design	Sun 6/1/14	Mon 12/15/14		[Manual Task bar]													
31	Permitting	Sun 6/1/14	Fri 10/31/14		[Manual Task bar]													
32	Assesment & Evaluation	Sun 12/1/13	Fri 8/1/14		[Manual Task bar]													
33	Construction/Implementation	Fri 1/30/15	Fri 4/1/16		[Manual Task bar]													
34	Construction contracting	Fri 1/30/15	Fri 3/20/15		[Manual Task bar]													
35	Bidding & contracting	Fri 1/30/15	Sun 3/15/15		[Manual Task bar]													
36	Notice to proceed	Fri 3/20/15	Fri 3/20/15	35	[Milestone diamond]													
37	Construction/implementation	Sat 3/21/15	Tue 2/2/16	36	[Manual Task bar]													
38	Environmental compliance/mitigation/enhancement	Sat 3/21/15	Tue 2/2/16	36	[Manual Task bar]													
39	Construction Administration	Sat 3/21/15	Fri 4/1/16	36	[Manual Task bar]													

Mount Hannah Pipeline Water Loss Minimization Project

Lake County Special Districts (LCSD) has prepared a detailed schedule for the Mount Hannah Pipeline Water Loss Minimization Project. LCSD prepared the schedule based on tasks necessary to complete the pipeline and well, which is already underway. Task durations have been reviewed by a consultant to verify estimates are reasonable for the project. Construction of the pipeline is expected to begin in early spring 2015; the replacement well, which is funded from other sources, will deliver water by mid-fall 2015. This is a short-time frame, but high benefit, project. The schedule is achievable for the following reasons:

- The project is located on property owned by LCSD and/or existing right-of-way, reducing the time to be shovel-ready.
- Because this project is for replacement of an existing pipeline, it is exempt from CEQA, expediting the process to be shovel-ready.
- Design of the project is well underway and is estimated 90% complete. LCSD is also working with CDPH to drill and equip the new well on an expedited tract due to the urgency and necessity of the project.
- Permitting is considered to be 85% to be complete as indicated in the work plan for Mount Hannah.
- The water transmission main is only 6-inches in diameter and 900 LF reaching from the well to the system storage tank in an existing right of way adjacent to the existing pipeline, making this a straightforward project.

Spring Valley Pipeline Water Loss Minimization Project

LCSD has prepared a detailed schedule for the Spring Valley Pipeline Water Loss Minimization Project. LCSD prepared the schedule based on tasks necessary to complete the water distribution system improvements. Task durations have been reviewed by a consultant to verify estimates are reasonable for the project. Construction of distribution system improvements is expected to begin in early spring 2015; and operational by late spring 2015. This project will provide immediate distribution system redundancy, water savings, and water quality improvements. The schedule is achievable for the following reasons:

- The project is located in existing public right-of-ways of Spring Valley, reducing the time needed to acquire private easements and other land acquisitions, allowing the project to be streamlined to construction and implementation.
- Project design is estimated 50% complete. The project is relatively straight-forward and includes replacing 7,500 LF of 6-inch diameter pipe, installing 9,100 LF of new 6-inch diameter pipe, and pavement replacement.
- Initial reviews indicate that no special permits are required for this project, therefore confirming that the proposed project timeframe is reasonable and achievable.

ID	Task Name	Start	Finish	2014				2015				2016			
				Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1
1	Mount Hannah Pipeline Water Loss Minimization Project	6/1/13	1/1/16												
2	Grant Award Date	10/16/14	10/16/14												
3	Direct Project Administration	3/23/14	1/1/16												
4	Administration	3/23/14	1/1/16												
5	Kick off	11/18/14	11/18/14												
6	Quarterly invoices	10/16/14	1/1/16												
13	Labor compliance	3/23/14	10/28/15												
14	Reporting	6/2/14	1/1/16												
15	Grant execution materials	6/2/14	11/14/14												
16	Quarterly progress reports	10/16/14	1/1/16												
23	Final project report	11/2/15	1/1/16												
24	Land Purchase/Easement	1/1/14	7/15/14												
26	Planning/Design/Engineering/Environmental Documentation	6/1/13	11/28/14												
27	Environmental documentation (CEQA - categorical exemption)	6/1/14	9/15/14												
28	Design	1/1/14	10/15/14												
29	Permitting (Encroachment Permit)	4/1/14	11/28/14												
30	Assesment & Evaluation	6/1/13	1/1/14												
31	Construction/Implementation	1/4/15	1/1/16												
32	Construction contracting	1/4/15	3/21/15												
33	Bidding & contracting	1/4/15	3/20/15												
34	Notice to proceed	3/21/15	3/21/15												
35	Construction/implementation	3/23/15	11/1/15												
36	Environmental compliance/mitigation/enhancement	3/23/15	11/1/15												
37	Construction Administration	3/23/15	1/1/16												

Mt Hannah Westside - Sacramento 2014 Drought Grant Application	Task		Project Summary	
	Milestone		Manual Task	
	Summary			

ID	Task Name	Start	Finish	2014				2015				2016						
				Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	
1	Spring Valley Pipeline Water Loss Minimization Project	5/1/13	7/31/16															
2	Grant Award Date	10/16/14	10/16/14															
3	Direct Project Administration	6/2/14	7/31/16															
4	Administration	10/16/14	7/31/16															
5	Kickoff	11/18/14	11/18/14															
6	Quarterly invoices	10/16/14	7/31/16															
15	Labor compliance	4/1/15	5/1/16															
16	Reporting	6/2/14	7/31/16															
17	Grant execution materials	6/2/14	11/14/14															
18	Quarterly Reports	10/16/14	7/31/16															
27	Final project report	5/2/16	7/31/16															
28	Land Purchase/Easement	5/1/13	11/1/14															
29	Easements/Right of Way	5/1/13	11/1/14															
30	Planning/Design/Engineering/Environmental Documentation	12/1/13	12/23/14															
31	Environmental documentation	7/1/14	8/31/14															
32	Design	12/1/13	12/23/14															
33	Permitting	7/1/14	9/30/14															
34	Assesment & Evaluation	12/1/13	7/15/14															
35	Construction/Implementation	1/1/15	7/31/16															
36	Construction contracting	1/1/15	3/25/15															
37	Bidding & contracting	1/1/15	3/20/15															
38	Notice to proceed	3/25/15	3/25/15															
39	Construction/implementation	4/1/15	5/1/16															
40	Environmental Compliance/Mitigation/Enhancement	4/1/15	5/1/16															
41	Construction Administration	4/1/15	7/31/16															

<p>Spring Valley Westside - Sacramento 2014 Drought Grant Application</p>	Task		Project Summary	
	Milestone		Manual Task	
	Summary			

Paradise Valley Water System Intertie and Consolidation Project

LCSD has prepared a detailed schedule for the Paradise Valley Water System Intertie and Consolidation Project. LCSD prepared the schedule based on tasks necessary to complete the 1.8 mile intertie with the Clearlake Oaks system and construction of a new 300,000 gallon water storage tank. Task durations have been reviewed by a consultant to verify estimates are reasonable for the project. Construction of the intertie and tank is expected to begin in early spring 2015; and operational by mid-fall 2015. This project will provide immediate system water supply reliability. The schedule is achievable for the following reasons:

- The project is located in Caltrans and other existing right-of-ways, and the critical encroachment permit has already been obtained from Caltrans, which is on the critical path for project completion allowing the project to be streamlined to construction and implementation.
- Design of the project is well underway and is estimated 90% complete. The project is relatively straight-forward and includes installing 1.8 miles of 8-inch diameter pipe and pavement replacement.
- Permitting is considered to be 80% complete as indicated in the work plan for Paradise Valley.
- Construction of the pipeline and tank can occur with two or more separate construction crews, thereby ensuring that project construction can occur on the proposed timeline.

Grant Administration and Application

A schedule for Grant Administration and Application is included in the Proposal Schedule on page 2 of this attachment. Grant administration is an ongoing activity following grant award until the completion of all projects and includes final reporting. The grant application preparation occurred prior to grant award and started in April 2014.

ID	Task Name	Start	Finish	2014				2015				2016					
				Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	
1	Paradise Valley Water System Intertie and Consolidation	6/1/13	4/1/16														
2	Grant Award Date	10/16/14	10/16/14														
3	Direct Project Administration	6/2/14	4/1/16														
4	Administration	10/16/14	4/1/16														
5	Kickoff	11/18/14	11/18/14														
6	Quarterly invoices	10/16/14	4/1/16														
14	Labor compliance	4/1/15	2/1/16														
15	Reporting	6/2/14	4/1/16														
16	Grant execution materials	6/2/14	11/14/14														
17	Quarterly progress reports	10/16/14	4/1/16														
25	Final project report	2/2/16	4/1/16														
26	Land Purchase/Easement	6/1/14	7/15/14														
27	Easement/Right of Way	4/1/14	7/15/14														
28	Planning/Design/Engineering/Environmental Documentation	6/1/14	7/15/14														
29	Environmental documentation	6/1/13	8/1/14														
30	Design	1/1/14	10/1/14														
31	Permitting	6/1/13	8/1/14														
32	Assesment & Evaluation	7/1/13	1/1/14														
33	Construction/Implementation	1/1/15	4/1/16														
34	Construction contracting	1/1/15	3/25/15														
35	Bidding & contracting	1/1/15	3/20/15														
36	Notice to proceed	3/25/15	3/25/15														
37	Construction/implemenation	4/1/15	2/1/16														
38	Environmental compliance/mitigation/enhancement	4/1/15	2/1/16														
39	Construction Administration	4/1/15	4/1/16														

Paradise Valley: Intertie and Consolidation Westside - Sacramento 2014 Drought Grant Application	Task		Project Summary	
	Milestone		Manual Task	
	Summary			