



Bay Area Regional Climate Change Preparedness

Attachment 5

SCHEDULE



Association of Bay Area Governments
Proposition 84
Integrated Regional Water Management
2015 Implementation Grant Application





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Introduction

Detailed schedules for the nine projects in the Bay Area Regional Climate Change Preparedness Program (Proposal) and grant administration (Project 10) are provided in this attachment. An overall Proposal schedule including a roll-up of all 10 project schedules is provided, followed by detailed schedules for each project. For each project, a task summary is provided, followed by a detailed Gantt chart schedule.

The summaries describe how the project schedules are realistic, reasonable, and accomplishable. The schedules indicate start dates, end dates, and milestones for each task and linkages/dependencies between tasks. The tasks listed in the schedules align with the same tasks identified and described in the Work Summary (Attachment 3) and Budget Summary (Attachment 4), and use January 4, 2016, as the assumed award date of the grant. Note that the timeline bars in the Gantt charts are standardized to start on January 4, 2016 and extend to the end of the project. Tasks that are completed prior to January 2016 are listed on the left side, but the bars are not shown on the right side of the Gantt chart pages.

The majority of projects will be ready to proceed to construction/implementation (Task 12) by April 1, 2016 meaning construction bids, if applicable, will be awarded by April 1, 2016. All project construction work will be complete by August 31, 2020. The schedule extends through October 30, 2020 when all final reports and invoicing will be complete for the grant.

Proposal Schedule Summary

The Bay Area Regional Climate Change Preparedness Program comprises a geographically diverse and well-integrated implementation program with multiple water supply, water conservation, flood protection, habitat restoration, and drought preparedness benefits for the Bay Area's population. The majority of the nine projects included in the Proposal are currently in progress or will be ready to proceed to construction/implementation by April 1, 2016. Construction tasks for all projects in the Proposal will be complete by October 2020, with the majority of projects (8 of 9 projects) completed by October 2019 or sooner.

In accordance with the California Department of Water Resources (DWR) 2015 Integrated Regional Water Management (IRWM) Grant Solicitation Guidelines, no match funding will be claimed for project work conducted prior to January 1, 2011. No grant funding (reimbursement) will be claimed for project work conducted prior to January 17, 2014.

The overall Proposal Gantt chart schedule on the next page extends over multiple pages and includes a summary of each of the 9 project schedules with start and end dates for each task included in the project work plans. Tasks are organized by budget categories (a, b, c, and d) that align with the project budget categories presented in Attachment 4 and the Work Plan summaries in Attachment 3.

Tasks that do not apply to a particular project are indicated with "N/A" at the end of the project title.

Grant administration support from the Association of Bay Area Governments (ABAG)/San Francisco Estuary Partnership (SFEP) (Project 10) will begin on the assumed grant award date (January 4, 2016) and extend through October 30, 2020. This schedule includes time needed to prepare final reports and invoicing.

Overall, the Proposal addresses current and projected future drought impacts in the San Francisco Bay Area Region in a realistic, reasonable, and accomplishable manner. Again, the projects included in the Proposal will be complete and project benefits realized by October 2020 or sooner. The Proposal will be administered by ABAG/SFEP, which has many years' experience overseeing grants and specific experience overseeing IRWM Proposition 84 grants from the DWR. ABAG/SFEP's grant administration experience will ensure timely and smooth implementation of the projects.

Bay Area Regional Climate Change Preparedness Program
Proposal Schedule
 2015 IRWM Implementation Grant Application

ID	Task Name	Duration	Start	Finish	2016				2017				2018				2019				2020			
					Qtr 1	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	Qtr 1	Qtr 2	Qtr 3	Qtr 4
1	Bay Area Climate Change Preparedness Program	4653 days	Wed 1/1/03	Fri 10/30/20																				
2	Category (a): Direct Project Administration	1458 days	Wed 4/1/15	Fri 10/30/20																				
3	Task 1 Project Administration	1458 days	Wed 4/1/15	Fri 10/30/20																				
4	Project 1: Bay Area AQPI System	1000 days	Wed 6/1/16	Tue 3/31/20																				
5	Project 2: Anderson Dam Seismic Retrofit Project	915 days	Mon 5/1/17	Fri 10/30/20																				
6	Project 3: Marin 2020 Turf Replacement Project	1043 days	Thu 10/1/15	Mon 9/30/19																				
7	Project 4: East Palo Alto Groundwater Supply Project	585 days	Mon 1/4/16	Fri 3/30/18																				
8	Project 5: Coastal San Mateo County Drought Relief Phase II	815 days	Mon 1/4/16	Fri 2/15/19																				
9	Project 6: San Francisquito Flood Protection and Ecosystem Restoration Project	542 days	Tue 3/1/16	Wed 3/28/18																				
10	Project 7: Mountain View Shoreline Portion of SBSPR Project	586 days	Fri 7/1/16	Fri 9/28/18																				
11	Project 8: Eden Landing Portion of SBSPR Project	458 days	Tue 5/1/18	Thu 1/30/20																				
12	Project 9: Novato Creek Flood Protection and Habitat Enhancement Projects	737 days	Wed 4/5/17	Thu 1/30/20																				
13	Project 10: Grant Administration	1458 days	Wed 4/1/15	Fri 10/30/20																				
14	Task 2 Labor Compliance Program	1283 days	Thu 10/1/15	Mon 8/31/20																				
15	Project 1: Bay Area AQPI System	892 days	Wed 6/1/16	Thu 10/31/19																				
16	Project 2: Anderson Dam Seismic Retrofit Project	871 days	Mon 5/1/17	Mon 8/31/20																				
17	Project 3: Marin 2020 Turf Replacement Project	1043 days	Thu 10/1/15	Mon 9/30/19																				
18	Project 4: East Palo Alto Groundwater Supply Project	531 days	Mon 1/4/16	Mon 1/15/18																				
19	Project 5: Coastal San Mateo County Drought Relief Phase II	726 days	Mon 1/4/16	Mon 10/15/18																				
20	Project 6: San Francisquito Flood Protection and Ecosystem Restoration Project	479 days	Tue 3/1/16	Fri 12/29/17																				
21	Project 7: Mountain View Shoreline Portion of SBSPR Project	522 days	Fri 7/1/16	Mon 7/2/18																				
22	Project 8: Eden Landing Portion of SBSPR Project	393 days	Tue 5/1/18	Thu 10/31/19																				
23	Project 9: Novato Creek Flood Protection and Habitat Enhancement Projects	672 days	Wed 4/5/17	Thu 10/31/19																				
24	Project 10: Grant Administration - N/A																							
25	Task 3 Reporting	1327 days	Thu 10/1/15	Fri 10/30/20																				
26	Project 1: Bay Area AQPI System	1000 days	Wed 6/1/16	Tue 3/31/20																				
27	Project 2: Anderson Dam Seismic Retrofit Project	915 days	Mon 5/1/17	Fri 10/30/20																				
28	Project 3: Marin 2020 Turf Replacement Project	1107 days	Thu 10/1/15	Fri 12/27/19																				
29	Project 4: East Palo Alto Groundwater Supply Project	585 days	Mon 1/4/16	Fri 3/30/18																				
30	Project 5: Coastal San Mateo County Drought Relief Phase II	815 days	Mon 1/4/16	Fri 2/15/19																				

Bay Area Regional Climate Change Preparedness Program

Proposal Schedule

2015 IRWM Implementation Grant Application

ID	Task Name	Duration	Start	Finish	2016				2017				2018				2019				2020			
					Qtr 1	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	Qtr 1	Qtr 2	Qtr 3	Qtr 4
31	Project 6: San Francisquito Flood Protection and Ecosystem Restoration Project	543 days	Tue 3/1/16	Thu 3/29/18																				
32	Project 7: Mountain View Shoreline Portion of SBSPR Project	586 days	Fri 7/1/16	Fri 9/28/18																				
33	Project 8: Eden Landing Portion of SBSPR Project	458 days	Tue 5/1/18	Thu 1/30/20																				
34	Project 9: Novato Creek Flood Protection and Habitat Enhancement Projects	737 days	Wed 4/5/17	Thu 1/30/20																				
35	Project 10: Grant Administration	1198 days	Wed 3/30/16	Fri 10/30/20																				
36	Category (b): Land Purchase/Easement	3609 days	Wed 1/1/03	Mon 10/31/16																				
37	Task 4 Land Purchase/Easement	3609 days	Wed 1/1/03	Mon 10/31/16																				
38	Project 1: Bay Area AQPI System	130 days	Fri 1/1/16	Thu 6/30/16																				
39	Project 2: Anderson Dam Seismic Retrofit Project	827 days	Sun 9/1/13	Mon 10/31/16																				
40	Project 3: Marin 2020 Turf Replacement Project - N/A																							
41	Project 4: East Palo Alto Groundwater Supply Project - N/A																							
42	Project 5: Coastal San Mateo County Drought Relief Phase II - N/A																							
43	Project 6: San Francisquito Flood Protection and Ecosystem Restoration Project	979 days	Sun 1/1/12	Wed 9/30/15																				
44	Project 7: Mountain View Shoreline Portion of SBSPR Project	3544 days	Wed 1/1/03	Mon 8/1/16																				
45	Project 8: Eden Landing Portion of SBSPR Project - N/A (complete)																							
46	Project 9: Novato Creek Flood Protection and Habitat Enhancement Projects - N/A																							
47	Project 10: Grant Administration - N/A																							
48	Category (c): Planning/Design/Engineering/Environmental Documentation	1937 days	Wed 6/1/11	Thu 11/1/18																				
49	Task 5 Feasibility Studies	1370 days	Mon 1/2/12	Fri 3/31/17																				
50	Project 1: Bay Area AQPI System	587 days	Thu 1/1/15	Fri 3/31/17																				
51	Project 2: Anderson Dam Seismic Retrofit Project	390 days	Mon 1/2/12	Fri 6/28/13																				
52	Project 3: Marin 2020 Turf Replacement Project - N/A																							
53	Project 4: East Palo Alto Groundwater Supply Project - N/A																							
54	Project 5: Coastal San Mateo County Drought Relief Phase II	198 days	Wed 4/1/15	Fri 1/1/16																				
55	Project 6: San Francisquito Flood Protection and Ecosystem Restoration Project - N/A																							
56	Project 7: Mountain View Shoreline Portion of SBSPR Project - N/A (complete)																							

Bay Area Regional Climate Change Preparedness Program
Proposal Schedule
 2015 IRWM Implementation Grant Application

ID	Task Name	Duration	Start	Finish	2016				2017				2018				2019				2020			
					Qtr 1	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	Qtr 1	Qtr 2	Qtr 3	Qtr 4
86	Project 4: East Palo Alto Groundwater Supply Project	378 days	Wed 7/1/15	Fri 12/9/16	████████████████████																			
87	Project 5: Coastal San Mateo County Drought Relief Phase II	328 days	Wed 4/1/15	Fri 7/1/16	██████████																			
88	Project 6: San Francisquito Flood Protection and Ecosystem Restoration Project	641 days	Wed 1/30/13	Wed 7/15/15																				
89	Project 7: Mountain View Shoreline Portion of SBSPR Project	430 days	Thu 1/1/15	Wed 8/24/16	██████████████																			
90	Project 8: Eden Landing Portion of SBSPR Project	262 days	Sun 1/1/17	Sun 12/31/17					████████████████████															
91	Project 9: Novato Creek Flood Protection and Habitat Enhancement Projects	544 days	Wed 7/1/15	Mon 7/31/17	████████████████████																			
92	Project 10: Grant Administration - N/A																							
93	Task 9 Project Performance Monitoring Plan	830 days	Tue 2/25/14	Mon 5/1/17	████████████████████																			
94	Project 1: Bay Area AQPI System	457 days	Thu 1/1/15	Fri 9/30/16	██████████████████																			
95	Project 2: Anderson Dam Seismic Retrofit Project	600 days	Tue 2/25/14	Mon 6/13/16	██████████																			
96	Project 3: Marin 2020 Turf Replacement Project	30 days	Mon 1/4/16	Fri 2/12/16	████																			
97	Project 4: East Palo Alto Groundwater Supply Project	40 days	Thu 8/4/16	Wed 9/28/16					██████															
98	Project 5: Coastal San Mateo County Drought Relief Phase II	305 days	Tue 3/1/16	Sun 4/30/17	██████████████████																			
99	Project 6: San Francisquito Flood Protection and Ecosystem Restoration Project	42 days	Fri 1/1/16	Mon 2/29/16	████																			
100	Project 7: Mountain View Shoreline Portion of SBSPR Project	22 days	Fri 7/1/16	Mon 8/1/16					████															
101	Project 8: Eden Landing Portion of SBSPR Project	44 days	Wed 6/1/16	Mon 8/1/16					████															
102	Project 9: Novato Creek Flood Protection and Habitat Enhancement Projects	130 days	Tue 11/1/16	Mon 5/1/17					██████████															
103	Project 10: Grant Administration - N/A																							
104	Category (d): Construction/Implementation	1282 days	Sat 8/1/15	Tue 6/30/20	████████████████████				████████████████████				████████████████████				████████████████████							
105	Task 10 Contract Services	935 days	Sun 11/1/15	Fri 5/31/19	████████████████████				████████████████████				████████████████████				████████████████████							
106	Project 1: Bay Area AQPI System	783 days	Wed 6/1/16	Fri 5/31/19					██████████████████				██████████████████											
107	Project 2: Anderson Dam Seismic Retrofit Project	86 days	Fri 12/30/16	Fri 4/28/17					██████															
108	Project 3: Marin 2020 Turf Replacement Project - N/A																							
109	Project 4: East Palo Alto Groundwater Supply Project	35 days	Sun 11/1/15	Thu 12/17/15																				
110	Project 5: Coastal San Mateo County Drought Relief Phase II	675 days	Tue 3/15/16	Mon 10/15/18	██████████████████				██████████████████				██████████████████											
111	Project 6: San Francisquito Flood Protection and Ecosystem Restoration Project	42 days	Fri 1/1/16	Mon 2/29/16	████																			
112	Project 7: Mountain View Shoreline Portion of SBSPR Project	67 days	Mon 8/1/16	Tue 11/1/16					██████															

Organization of Project Schedules

The Bay Area Regional Climate Change Preparedness Program consists of grant administration and nine projects geographically spanning all four regions of the San Francisco Bay Area, with three primary areas of benefit:

- Water Supply – Drought Preparedness
- Human Right to Water
- Shoreline Resilience – Sea Level Rise Preparedness

To facilitate review, the projects are grouped by primary benefit type, as listed below. Project 10 is Grant Administration.

Primary Project Benefit	Project ID#	Project Proponent	Project Title
Water Supply – Drought Preparedness	1	San Francisco Estuary Partnership (SFEP)	Bay Area Advanced Quantitative Precipitation Information (AQPI) System
	2	Santa Clara Valley Water District (SCVWD)	Anderson Dam Seismic Retrofit Project
	3	Marin Municipal Water District (MMWD)	Marin 2020 Turf Replacement Project
Human Right to Water	4	City of East Palo Alto	East Palo Alto Groundwater Supply Project
	5	San Mateo County RCD	Coastal San Mateo County Drought Relief Phase II
Shoreline Resilience – Sea Level Rise Preparedness	6	State Coastal Conservancy	San Francisquito Creek Flood Protection and Ecosystem Restoration Project
	7	State Coastal Conservancy	Mountain View Shoreline Portion of SBSPR Project
	8	State Coastal Conservancy	Eden Landing Portion of SBSPR Project
	9	State Coastal Conservancy	Novato Creek Flood Protection and Habitat Enhancement Project
Administration	10	Association of Bay Area Governments (ABAG)	Grant Administration

One-page schedule summaries are presented in the order listed above, by project type, and describe how the project schedules are realistic, reasonable, and accomplishable. Gantt charts with additional project schedule detail are provided following the schedule summary.

Project Schedules: Water Supply – Drought Preparedness Projects

Project schedule summaries and detailed Gantt charts are presented in this section for the projects listed below.

Project ID#	Project Proponent	Project Title
1	SFEP	Bay Area Advanced Quantitative Precipitation Information (AQPI) System
2	SCVWD	Anderson Dam Seismic Retrofit Project
3	MMWD	Marin 2020 Turf Replacement Project

Project 1 – Bay Area Advanced Quantitative Precipitation Information (AQPI) System

Schedule Overview/Key Milestones:

Task	Status	Percent Completion	Started By	Completed By
Task 4: Land Purchase	In Progress	50	January 1 2016	June 30, 2016
Task 5: Feasibility Studies - Phase 1 – complete - Radar Siting Studies - Surface Monitoring Siting Studies	In Progress	40	January 1, 2006 January 1, 2015 January 1, 2015	January 1, 2015 December 31, 2015 March 31, 2017
Task 6: CEQA/NEPA	In Progress	15	January 1, 2015	August 31, 2017
Task 7: Permitting	Pending	0	January 1, 2016	December 30, 2017
Task 8: Design	In Progress	25	September 1, 2014	February 28, 2017 for radars; March 31, 2018 for surface meteorology
Task 9: Project Performance Monitoring Plan	In Progress	50	January 1, 2015	September 30, 2016
Task 10: Contract Services	Pending	0	June 1, 2016	May 31, 2019
Task 11: Construction Administration	Pending	0	June 1, 2016	May 31, 2019
Task 12: Construction/Implementation Hardware Installation - Year 1 – 1 radar - Year 2 – 2 radars - Year 3 – 2radars + all monitoring gauges	Pending	0	June 1, 2016 June 1, 2017 June 1, 2018	May 31, 2017 May 31, 2018 May 31, 2019
Data Systems			June 1, 2016	October 31, 2019
User Interface			June 1, 2016	October 31, 2019

The AQPI System project is currently underway and will be complete by October 30, 2019. Siting studies have been conducted to identify two of the five proposed radar units and the remaining radar site locations will be secured by December 31, 2015, and all the surface meteorological monitoring equipment sites will be identified by March 31, 2017. Data from the radars and monitoring stations will be available as soon as December 2016, with the entire network complete by May 31, 2019. The Data Systems and User Interface will be complete by October 31, 2019.

This schedule is realistic, reasonable, and accomplishable based on previous experience with installing similar equipment and data systems in Texas (by Colorado State University and partners) and at an international location in Japan (that Colorado State University participated in).

2015 IRWM Implementation Grant Proposal
 Bay Area Climate Change Preparedness Program
 Project 1: Bay Area AQPI System

ID	Task Name	Duration	Start	Finish	Predecessors	2016				2017				2018				2019				2020			
						Qtr 1	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	Qtr 1			
1	Project 1: Bay Area AQPI System	3977 days	Sat 1/1/05	Tue 3/31/20																					
2	Category (a): Direct Project Administration	1000 days	Wed 6/1/16	Tue 3/31/20																					
3	Task 1 Project Administration	892 days	Wed 6/1/16	Thu 10/31/19																					
4	Task 2 Labor Compliance Program	892 days	Wed 6/1/16	Thu 10/31/19																					
5	Task 3 Reporting	1000 days	Wed 6/1/16	Tue 3/31/20																					
6	Quarterly Reports	1000 days	Wed 6/1/16	Tue 3/31/20																					
7	Draft Project Completion Report	44 days	Thu 10/31/19	Tue 12/31/19																					
8	Final Project Completion Report	30 days	Wed 1/1/20	Tue 2/11/20	7																				
9	Category (b): Land Purchase/Easement	130 days	Fri 1/1/16	Thu 6/30/16																					
10	Task 4 Land Purchase/Easement	130 days	Fri 1/1/16	Thu 6/30/16																					
11	Category (c): Planning/Design/Engineering/Environmental Documentation	3455 days	Sat 1/1/05	Sat 3/31/18																					
12	Task 5 Feasibility Studies	587 days	Thu 1/1/15	Fri 3/31/17																					
13	Phase 1 - Complete	2610 days	Sat 1/1/05	Thu 1/1/15																					
14	Radar Siting Studies	261 days	Thu 1/1/15	Thu 12/31/15																					
15	Surface Monitoring Siting Studies	587 days	Thu 1/1/15	Fri 3/31/17																					
16	Task 6 CEQA Documentation	696 days	Thu 1/1/15	Thu 8/31/17																					
17	CEQA compliance	696 days	Thu 1/1/15	Thu 8/31/17																					
18	NEPA compliance	696 days	Thu 1/1/15	Thu 8/31/17																					
19	Task 7 Permitting	521 days	Fri 1/1/16	Sat 12/30/17																					
20	CWA Section 404 (USACE)	522 days	Fri 1/1/16	Sat 12/30/17																					
21	CWA Section 401 or WDR (RWQCB)	522 days	Fri 1/1/16	Sat 12/30/17																					
22	CDFW Section 1602 Agreement	522 days	Fri 1/1/16	Sat 12/30/17																					
23	CDFW Section 2081 Incidental Take Permit	522 days	Fri 1/1/16	Sat 12/30/17																					
24	NHPA Section 106 Compliance	522 days	Fri 1/1/16	Sat 12/30/17																					
25	ESA Compliance	522 days	Fri 1/1/16	Sat 12/30/17																					
26	Task 8 Design	935 days	Mon 9/1/14	Sat 3/31/18																					
27	10% Design - Complete	174 days	Mon 9/1/14	Thu 4/30/15																					
28	30% Design	120 days	Sun 3/1/15	Thu 8/13/15																					
29	60% Design	130 days	Fri 8/14/15	Thu 2/11/16	28																				
30	90% Design	100 days	Fri 2/12/16	Thu 6/30/16	29																				
31	100% Design for radars	173 days	Fri 7/1/16	Tue 2/28/17	30																				
32	100% Design for surface monitors	457 days	Fri 7/1/16	Sat 3/31/18	30																				
33	Task 9 Project Performance Monitoring Plan	457 days	Thu 1/1/15	Fri 9/30/16																					
34	Project Performance Monitoring Plan	457 days	Thu 1/1/15	Fri 9/30/16																					
35	Category (d): Construction/Implementation	892 days	Wed 6/1/16	Thu 10/31/19																					
36	Task 10 Contract Services	783 days	Wed 6/1/16	Fri 5/31/19																					
37	Task 11 Construction Administration	783 days	Wed 6/1/16	Fri 5/31/19																					
38	Task 12 Construction/Implementation Activities	892 days	Wed 6/1/16	Thu 10/31/19																					
39	Hardware Installation	783 days	Wed 6/1/16	Fri 5/31/19																					
40	Year 1 - 1 Radar	261 days	Wed 6/1/16	Wed 5/31/17																					
41	Year 2 - 2 Radars	261 days	Thu 6/1/17	Thu 5/31/18	40																				
42	Year 3 - 2 Radars + All Monitoring Gauges	261 days	Fri 6/1/18	Fri 5/31/19	41																				
43	Data Systems	892 days	Wed 6/1/16	Thu 10/31/19																					
44	User Interface Development	892 days	Wed 6/1/16	Thu 10/31/19																					

Project 2 – Anderson Dam Seismic Retrofit Project

Schedule Overview/Key Milestones:

Task	Status	Percent Completion	Started By	Completed By
Task 4: Land Purchase	In Progress	20	September 2013	October 2016
Task 6: CEQA/NEPA	In Progress	30	January 2013	July 2016
Task 7: Permitting	Pending	0	January 2016	January 2017
Task 8: Design	In Progress	30	September 2013	November 2016
Task 9: Project Performance Monitoring Plan	Pending	0	February 2014	June 2016
Task 10: Contract Services	Pending	0	December 2016	April 2017
Task 11: Construction Administration	Pending	0	May 2017	June 2020
Task 12: Construction/Implementation	Pending	0	May 2017	June 2020

The schedule for the ADSRP is aggressive; however, several factors provide confidence that the schedule is realistic, reasonable, and accomplishable, as listed below.

- Due to the need for the project, particularly during drought conditions, the Santa Clara Valley Water District (SCVWD) has committed to completing this project on an accelerated pace. The Planning Study Report was completed in only 18 months, representing a significantly expedited process (it commonly takes 36 months to complete planning studies).
- The SCVWD is working with multiple teams of experts to ensure the project is designed to meet Division of Safety of Dams (DSOD) and Federal Energy Regulatory Commission (FERC) requirements, and will be constructed in an efficient and effective manner.
- The SCVWD is working with a technical board of consultants to provide review of technical aspects of the project throughout the planning, data collection, and design phase. Having this early involvement of the technical board, and their ongoing and close interaction with SCVWD staff, consultant staff, and dam safety regulators reduces the risk of unforeseen complications leading to delays during the design phase.
- The SCVWD is currently in the Planning and Design Phase for dam seismic retrofit projects on two other dams within the system (Calero and Guadalupe). Having multiple Dam safety projects underway allows SCVWD to make efficient use of resources in the planning and design phases to accelerate project completion.
- Although still in the data collection and early design phase, SCVWD anticipates conducting early and ongoing communication with the environmental agencies to decrease the risk of project delays due to environmental permitting.
- The SCVWD is a signatory to the Santa Clara Valley Habitat Plan (VHP), which includes the ADSRP as a covered activity. This will provide the federal and state Endangered Species Act compliance pathway for the project under the jurisdictions of USFWS and CDFW. VHP coverage will expedite the permitting process for the project.
- An Internal Draft EIR has been prepared by SCVWD consultants, and is under review by the SCVWD. The CEQA compliance process is on track and aligned with the first stages of project design.

2015 IRWM Implementation Grant Proposal
 Bay Area Climate Change Preparedness Program
 Project 2: Anderson Dam Seismic Retrofit Project

ID	Task Name	Duration	Start	Finish	2016				2017				2018				2019				2020			
					Qtr 1	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	Qtr 1	Qtr 2	Qtr 3	Qtr 4
1	Project 2: Anderson Dam Seismic Retrofit Project	2305 days	Mon 1/2/12	Fri 10/30/20																				
2	Category (a): Direct Project Administration	915 days	Mon 5/1/17	Fri 10/30/20																				
3	Task 1 Project Administration	915 days	Mon 5/1/17	Fri 10/30/20																				
4	Task 2 Labor Compliance Program	871 days	Mon 5/1/17	Mon 8/31/20																				
5	Task 3 Reporting	915 days	Mon 5/1/17	Fri 10/30/20																				
6	Quarterly Reports	915 days	Mon 5/1/17	Fri 10/30/20																				
7	Draft Project Completion Report	43 days	Wed 7/1/20	Fri 8/28/20																				
8	Final Project Completion Report	22 days	Thu 10/1/20	Fri 10/30/20																				
9	Category (b): Land Purchase/Easement	826 days	Sun 9/1/13	Mon 10/31/16																				
10	Task 4 Land Purchase	827 days	Sun 9/1/13	Mon 10/31/16																				
11	Category (c): Planning/Design/Engineering/Environmental Documentation	1307 days	Mon 1/2/12	Tue 1/3/17																				
12	Task 5 Feasibility Studies - Task Complete	390 days	Mon 1/2/12	Fri 6/28/13																				
13	Task 6 CEQA Documentation	914 days	Tue 1/1/13	Fri 7/1/16																				
14	CEQA compliance	804 days	Tue 1/1/13	Fri 1/29/16																				
15	NEPA compliance	914 days	Tue 1/1/13	Fri 7/1/16																				
16	Task 7 Permitting	263 days	Fri 1/1/16	Tue 1/3/17																				
17	CWA Section 404 (USACE)	263 days	Fri 1/1/16	Tue 1/3/17																				
18	CWA Section 401 (RWQCB)	263 days	Fri 1/1/16	Tue 1/3/17																				
19	CDFW Section 1602 Agreement	263 days	Fri 1/1/16	Tue 1/3/17																				
20	NHPA Section 106 Compliance	263 days	Fri 1/1/16	Tue 1/3/17																				
21	ESA Compliance	263 days	Fri 1/1/16	Tue 1/3/17																				
22	Task 8 Design	848 days	Mon 9/2/13	Wed 11/30/16																				
23	10% Design - Complete	174 days	Mon 9/2/13	Thu 5/1/14																				
24	30% Design	220 days	Mon 3/2/15	Fri 1/1/16																				
25	60% Design	130 days	Fri 1/1/16	Thu 6/30/16																				
26	90% Design	43 days	Fri 7/1/16	Tue 8/30/16																				
27	100% Design	65 days	Thu 9/1/16	Wed 11/30/16																				
28	Task 9 Project Performance Monitoring Plan	600 days	Tue 2/25/14	Mon 6/13/16																				
29	Project Performance Monitoring Plan	600 days	Tue 2/25/14	Mon 6/13/16																				
30	Category (d): Construction/Implementation	913 days	Fri 12/30/16	Tue 6/30/20																				
31	Task 10 Contract Services	86 days	Fri 12/30/16	Fri 4/28/17																				
32	Task 11 Construction Administration	827 days	Mon 5/1/17	Tue 6/30/20																				
33	Task 12 Construction/Implementation Activi	827 days	Mon 5/1/17	Tue 6/30/20																				
34	Project Construction	827 days	Mon 5/1/17	Tue 6/30/20																				

Project 3 – Marin 2020 Turf Replacement Project

Schedule Overview/Key Milestones:

Task	Status	Percent Completion	Started By	Completed By
Task 8: Design	In Progress	30	January 2015	September 2015
Task 9: Project Performance Monitoring Plan	Pending	0	January 2016	February 2016
Task 12: Implementation	Pending	0	October 2015	September 2019
Marketing and Outreach			October 2015	April 2019
Site Inspections			October 2015	September 2019
Implement Incentive/Rebate Program			October 2015	September 2019
Technical Assistance			October 2015	September 2019
Effectiveness Monitoring – Grant Period			October 2016	September 2019

The project schedule is realistic, reasonable and supportable based upon extensive Marin Municipal Water District (MMWD) staff experience in implementing previous incentive and rebate programs. A number of previously implemented incentive and rebate programs have entailed similar work. Setting up an incentive program involves identifying potential candidates, conducting outreach and advertising, implementing the rebate program, and measuring results over time. The four year implementation schedule is realistic and reasonable as it allows a relatively long window of opportunity for determination of candidate eligibility, stakeholder participation, verification and launching effectiveness monitoring.

The project schedule is accomplishable based on the assumption that planning and design will be complete by fall of 2015 and prior to notification of grant award. Following official notification of grant award, project implementation will launch, opening the four year window for fully rolling out and utilizing the rebate program. All grant funded implementation tasks will be complete by September 30, 2019, with project effectiveness monitoring continuing for a ten year period and concluding by October 1, 2029.

2015 IRWM Implementation Grant Proposal
 Bay Area Climate Change Preparedness Program
 Project 3: Marin 2020 Turf Replacement Project

ID	Task Name	Duration	Start	Finish	2016				2017				2018				2019			
					Qtr 1	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	Project 3: Marin 2020 Turf Replacement Project	1302 days	Thu 1/1/15	Fri 12/27/19																
2	Category (a): Direct Project Administration	1107 days	Thu 10/1/15	Fri 12/27/19																
3	Task 1 Project Administration	1043 days	Thu 10/1/15	Mon 9/30/19																
4	Task 2 Labor Compliance Program	1043 days	Thu 10/1/15	Mon 9/30/19																
5	Task 3 Reporting	1107 days	Thu 10/1/15	Fri 12/27/19																
6	Quarterly Reports	1107 days	Thu 10/1/15	Fri 12/27/19																
7	Draft Project Completion Report	43 days	Mon 9/30/19	Wed 11/27/19																
8	Final Project Completion Report	22 days	Thu 11/28/19	Fri 12/27/19																
9	Category (b): Land Purchase/Easement - N/A																			
10	Land Purchase - N/A																			
11	Category (c): Planning/Design/Engineering/Environmental Documentation	292 days	Thu 1/1/15	Fri 2/12/16																
12	Task 5 Feasibility Studies - N/A																			
13	Task 6 CEQA Documentation - N/A																			
14	Task 7 Permitting - N/A																			
15	Task 8 Design	195 days	Thu 1/1/15	Wed 9/30/15																
16	10% Design - Complete	78 days	Thu 1/1/15	Mon 4/20/15																
17	30% Design	76 days	Mon 4/20/15	Sat 8/1/15																
18	100% Design	44 days	Sat 8/1/15	Wed 9/30/15																
19	Task 9 Project Performance Monitoring Plan	30 days	Mon 1/4/16	Fri 2/12/16																
20	Project Performance Monitoring Plan	30 days	Mon 1/4/16	Fri 2/12/16																
21	Category (d): Construction/Implementation	1043 days	Thu 10/1/15	Mon 9/30/19																
22	Task 10 Contract Services - N/A																			
23	Task 11 Construction Administration - N/A																			
24	Task 12 Construction/Implementation Activities	1043 days	Thu 10/1/15	Mon 9/30/19																
25	Marketing and Outreach	934 days	Thu 10/1/15	Tue 4/30/19																
26	Site Inspections	1043 days	Thu 10/1/15	Mon 9/30/19																
27	Incentive/Rebate Program	1043 days	Thu 10/1/15	Mon 9/30/19																
28	Technical Assistance	1043 days	Thu 10/1/15	Mon 9/30/19																
29	Effectiveness Monitoring - Grant Period	782 days	Sat 10/1/16	Mon 9/30/19																

Project Schedules: Human Right to Water Projects

Project schedule summaries and detailed Gantt charts are presented in this section for the projects listed below.

Project ID#	Project Proponent	Project Title
4	City of East Palo Alto	East Palo Alto Groundwater Supply Project
5	San Mateo County RCD	Coastal San Mateo County Drought Relief Phase II

Project 4 – East Palo Alto Groundwater Supply Project

Schedule Overview/Key Milestones:

Task	Status	Percent Completion	Started By	Completed By
Task 6: CEQA/NEPA	In Progress	50	January 2013	December 2016
Gloria Way Well	Complete	100	January 2013	June 2013
Pad D Well	In Progress	0	November 2015	December 2016
Task 7: Permitting	In Progress	15	February 2015	December 2017
Gloria Way Well	In Progress	30	February 2015	December 2016
Pad D Well	Pending	0	January 2016	December 2017
Task 8: Design	In Progress	15	December 2014	December 2016
Gloria Way Well	In Progress	30	December 2014	December 2015
Pad D Well	Pending	0	January 2016	December 2016
Task 9: Project Performance Monitoring Plan	Pending	0	August 2016	December 2016
Task 10: Contract Services	Pending	0	December 2015	February 2016
Task 11: Construction Administration	Pending	0	February 2016	December 2016
Task 12: Construction/Implementation	Pending	0	February 2016	December 2016
Gloria Way Well	Pending	0	February 2016	December 2016

The Project schedule is realistic and accomplishable because much of the initial planning for the Project has already been completed. This initial planning has provided the framework to complete design of the Gloria Way Well Treatment System and Pad D Well and Treatment System, and to complete the construction of the Gloria Way Well Treatment System.

The City is committed to maintaining this schedule and completing the construction of the Gloria Way Well Treatment System by December 2016.

Following completion of the Gloria Way Well System, the Pad D Well and Treatment System will be constructed based on the design documents completed as part of the Project, so that all of the Project's benefits will be realized.

Although not included in this grant request (and not shown on the schedule for Task 12), construction of the Pad D Well and Treatment System is planned for completion by December 2017. Grant funding for state permits to operate the Pad D Well and Treatment system are requested for Task 7, Permitting, and Task 8 Design (Category c). Permits to operate the Pad D Well are anticipated by December 2017, and cannot be issued until the well is constructed. No Category d construction/implementation funds for the Pad D Well and Treatment system are included in this grant request.

2015 IRWM Implementation Grant Proposal
 Bay Area Climate Change Preparedness Program
 Project 4: East Palo Alto Groundwater Supply Project

ID	Task Name	Duration	Start	Finish	2016				2017				2018			
					Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1			
1	Project 4: East Palo Alto Groundwater Supply Project	825 days	Mon 2/2/15	Fri 3/30/18												
2	Category (a): Direct Project Administration	585 days	Mon 1/4/16	Fri 3/30/18												
3	Task 1 Project Administration	585 days	Mon 1/4/16	Fri 3/30/18												
4	Task 2 Labor Compliance Program	531 days	Mon 1/4/16	Mon 1/15/18												
5	Task 3 Reporting	585 days	Mon 1/4/16	Fri 3/30/18												
6	Quarterly Reports	585 days	Mon 1/4/16	Fri 3/30/18												
7	Draft Project Completion Report	43 days	Mon 1/1/18	Wed 2/28/18												
8	Final Project Completion Report	22 days	Thu 3/1/18	Fri 3/30/18												
9	Category (b): Land Purchase/Easement - N/A															
10	Land Purchase - N/A															
11	Category (c): Planning/Design/Engineering/Environmental	760 days	Mon 2/2/15	Fri 12/29/17												
12	Task 5 Feasibility Studies - N/A															
13	Task 6 CEQA Documentation	149 days	Sat 8/1/15	Thu 2/25/16												
14	CEQA compliance	150 days	Sat 8/1/15	Thu 2/25/16												
15	Task 7 Permitting	760 days	Mon 2/2/15	Fri 12/29/17												
16	Gloria Wy. Permits to Operate	500 days	Mon 2/2/15	Fri 12/30/16												
17	Pad D Well Permits to Operate	500 days	Mon 2/1/16	Fri 12/29/17												
18	Task 8 Design	378 days	Wed 7/1/15	Fri 12/9/16												
19	10% Design, Geotechnical Report, Topographic Survey, Preliminary Design (Gloria Wy) - complete															
20	10% Design, Geotechnical Report, Topographic Survey, Preliminary Design (Pad D)	80 days	Mon 2/1/16	Fri 5/20/16												
21	30% Design (Gloria Wy.) - complete															
22	30% Design (Pad D)	60 days	Mon 5/23/16	Fri 8/12/16												
23	65% Design (Gloria Wy.)	50 days	Wed 7/1/15	Tue 9/8/15												
24	65% Design (Pad D)	45 days	Mon 8/15/16	Fri 10/14/16												
25	100% Design (Gloria Wy)	38 days	Wed 9/9/15	Fri 10/30/15												
26	100% Design (Pad D)	20 days	Mon 10/17/16	Fri 11/11/16												
27	Final Design (Gloria Wy)	20 days	Mon 11/2/15	Fri 11/27/15												
28	Final Design (Pad D)	20 days	Mon 11/14/16	Fri 12/9/16												
29	Task 9 Project Performance Monitoring Plan	63 days	Thu 8/4/16	Mon 10/31/16												
30	Project Performance Monitoring Plan	63 days	Thu 8/4/16	Mon 10/31/16												
31	Category (d): Construction/Implementation	305 days	Sun 11/1/15	Sat 12/31/16												
32	Task 10 Contract Services	87 days	Sun 11/1/15	Sat 2/27/16												
33	Task 11 Construction Administration	241 days	Mon 2/1/16	Sat 12/31/16												
34	Task 12 Construction/Implementation Activities	240 days	Mon 2/1/16	Sat 12/31/16												
35	Mobilization and Demobilization (Gloria Wy. site)	20 days	Mon 2/1/16	Fri 2/26/16												
36	Project Construction (Gloria Wy. site)	171 days	Mon 2/1/16	Mon 9/26/16												
37	Performance Testing and Demobilization (Gloria Wy. site)	68 days	Thu 9/29/16	Sat 12/31/16												

Project 5 – Coastal San Mateo County Drought Relief Phase II

Schedule Overview/Key Milestones:

Tasks	Status	Percent Completion	Started By	Completed By
<i>Element A – Domestic Water Use Efficiency</i>				
Task 5: Feasibility	In Process	90	May 2015	September 2015
Task 8: Design	In Process	50	May 2015	November 2015
Task 9: Project Performance Monitoring Plan	Pending	0	March 2016	April 2016
Task 10: Contract Services	Pending	0	March 2016	October 2018
Task 11: Construction Administration	Pending	0	March 2016	November 2018
Task 12: Construction/Implementation	Pending	0	March 2016	October 2018
<i>Element B – Agricultural Water Supply Storage and Efficiency</i>				
Task 5: Feasibility Studies	In Process	50	April 2015	January 2016
Task 6: CEQA Documentation	Pending	0	April 2017	June 2018
Task 7: Permitting	Pending	0	December 2014	November 2018
Task 8: Design	In Process	50	April 2015	July 2016
Task 9: Project Performance Monitoring Plan	Pending	0	March 2017	April 2017
Task 10: Contract Services	Pending	0	September 2017	October 2018
Task 11: Construction Administration	Pending	0	September 2017	November 2018
Task 12: Construction/Implementation	Pending	0	September 2017	October 2018

Assessments of water use, conservation opportunities, and efficiency improvements have been ongoing in the San Gregorio, Pescadero-Butano and Pilarcitos watersheds since 2010, and interest from the community has far outpaced available funding to complete assessments and implement resulting recommendations. The proposed projects constitute the second phase of a project that is already successfully underway to improve water supply and drought resiliency for both domestic and agricultural water users.

The schedule for *Element A – Domestic Water Use Efficiency* is realistic, reasonable, and accomplishable based on the current project status. The project team has already completed the necessary outreach to support moving forward with this work. Preliminary planning, feasibility studies, and design will be completed by September 2015 for three previously-identified pipelines located in the Cuesta La Honda Guild's system that serves 800 to 900 homes in the upper San Gregorio watershed. Construction to fix a total of 1,550 linear feet of leaking pipelines is projected to begin in March 2016 and will result in annual savings of 1.15 AFY when completed by October 2018.

The schedule for *Element B – Agricultural Water Supply Storage and Efficiency* is realistic, reasonable, and accomplishable based on the current project status. The project team has already completed the necessary outreach to secure participation of three privately owned agricultural operations to participate in the project. Feasibility analysis for three water storage ponds and irrigation efficiency improvements are underway. Feasibility analysis includes irrigation audits to understand water demands throughout the growing season, as well as the level of efficiency and opportunities for efficiency improvements of the irrigation system. In addition, initial engineering investigations into the construction of ponds are underway and are used to determine the appropriate size and location for a pond. One of the three pond projects has 90% designs complete for the expansion and revitalization of an existing pond. The feasibility analysis for the remaining two sites is underway and will be completed by January 1, 2016.

These projects are considered small restoration projects under CEQA and a Notice of Exemption will be prepared and filed for each site as 60% designs are completed by June 2018 for all projects. One hundred percent designs will then be completed and construction contracting and administration will begin, with construction expected to take 1 month for each project and all projects to be completed by October 2018.

2015 IRWM Implementation Grant Proposal
 Bay Area Climate Change Preparedness Program
 Project 5: Coastal San Mateo County Drought Relief Phase II

ID	Task Name	Duration	Start	Finish	Predecessors	2016				2017				2018				2019			
						Qtr 1	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	Project 5: Coastal San Mateo County Drought Relief Phase II	1100 days	Mon 12/1/14	Fri 2/15/19																	
2	Category (a): Direct Project Administration	815 days	Mon 1/4/16	Fri 2/15/19																	
3	Task 1 Project Administration	815 days	Mon 1/4/16	Fri 2/15/19																	
4	Task 2 Labor Compliance Program	726 days	Mon 1/4/16	Mon 10/15/18																	
5	Task 3 Reporting	815 days	Mon 1/4/16	Fri 2/15/19																	
6	Quarterly Reports	815 days	Mon 1/4/16	Fri 2/15/19																	
7	Draft Project Completion Report	43 days	Fri 11/16/18	Tue 1/15/19	38																
8	Final Project Completion Report	22 days	Wed 1/16/19	Thu 2/14/19	7																
9	Category (b): Land Purchase/Easement - N/A																				
10	Category (c): Planning/Design/Engineering/Environmental Documentation	1024 days	Mon 12/1/14	Thu 11/1/18																	
11	Task 5 Feasibility Studies	198 days	Wed 4/1/15	Fri 1/1/16																	
12	Element A	88 days	Fri 5/1/15	Tue 9/1/15																	
13	Element B	198 days	Wed 4/1/15	Fri 1/1/16																	
14	Task 6 CEQA Documentation	305 days	Mon 4/3/17	Fri 6/1/18																	
15	Element B	305 days	Mon 4/3/17	Fri 6/1/18																	
16	Task 7 Permitting	1024 days	Mon 12/1/14	Thu 11/1/18																	
17	Element B - FGC Section 1602	391 days	Thu 9/1/16	Thu 3/1/18																	
18	Element B - Section 7 Consultation	371 days	Mon 12/1/14	Mon 5/2/16																	
19	Element B - Water Rights	566 days	Thu 9/1/16	Thu 11/1/18																	
20	Task 8 Design	328 days	Wed 4/1/15	Fri 7/1/16																	
21	Element A	152 days	Fri 5/1/15	Mon 11/30/15																	
22	Concept Design (10%)	88 days	Fri 5/1/15	Tue 9/1/15																	
23	60% Design	111 days	Mon 6/1/15	Mon 11/2/15																	
24	100% Design	86 days	Mon 8/3/15	Mon 11/30/15																	
25	Element B	328 days	Wed 4/1/15	Fri 7/1/16																	
26	Element B - Concept Design, Geotech Report, Topo Survey, Basis of Design	198 days	Wed 4/1/15	Fri 1/1/16																	
27	Element B - 60% Design	66 days	Fri 1/1/16	Fri 4/1/16																	
28	Element B - 100% Design	66 days	Fri 4/1/16	Fri 7/1/16																	
29	Task 9 Project Performance Monitoring Plan	304 days	Tue 3/1/16	Sun 4/30/17																	
30	Element A	45 days	Tue 3/1/16	Sat 4/30/16																	
31	Element B	44 days	Wed 3/1/17	Sun 4/30/17																	
32	Category (d): Construction/Implementation	859 days	Sat 8/1/15	Thu 11/15/18																	
33	Task 10 Contract Services	675 days	Tue 3/15/16	Mon 10/15/18																	
34	Element A	675 days	Tue 3/15/16	Mon 10/15/18																	
35	Element B	282 days	Fri 9/15/17	Mon 10/15/18																	
36	Task 11 Construction Administration	860 days	Sat 8/1/15	Thu 11/15/18																	
37	Element A	698 days	Tue 3/15/16	Thu 11/15/18																	
38	Element B	305 days	Fri 9/15/17	Thu 11/15/18																	
39	Task 12 Construction/Implementation Activities	282 days	Fri 9/15/17	Mon 10/15/18																	
40	Element A	153 days	Thu 3/15/18	Mon 10/15/18																	
41	Element B	282 days	Fri 9/15/17	Mon 10/15/18																	
42																					
43																					

Project Schedules: Shoreline Resilience – Sea Level Rise Preparedness Projects

Project schedule summaries and detailed Gantt charts are presented in this section for the projects listed below.

Project ID#	Project Proponent	Project Title
6	State Coastal Conservancy	San Francisquito Creek Flood Protection and Ecosystem Restoration Project
7	State Coastal Conservancy	Mountain View Shoreline Portion of SBSPR Project
8	State Coastal Conservancy	Eden Landing Portion of SBSPR Project
9	State Coastal Conservancy	Novato Creek Flood Protection and Habitat Enhancement Project

Project 6 – San Francisquito Creek Flood Protection and Ecosystem Restoration Project

Schedule Overview/Key Milestones:

Task	Status	Percent Completion	Started By	Completed By
Task 4: Land Purchase	In Progress	95	January 2012	September 2015
Task 7: Permitting	In Progress	80	January 2014	February 2016
Task 8: Design	In Progress	99	January 2013	July 2015
Task 9: Project Performance Monitoring Plan	In Progress	25	January 2016	February 2016
Task 10: Contract Services	In Progress	25	January 2016	February 2016
Task 11: Construction Administration	In Progress	5	March 2016	December 2017
Task 12: Construction/Implementation	In Progress	5	March 2016	December 2017

The schedule for the San Francisquito Creek Flood Protection and Ecosystem Restoration Project is realistic, reasonable, and accomplishable because the SFCJPA and its member agencies have worked diligently to advance all aspects of the project to the point that it is shovel-ready for construction during the 2016 and 2017 summer construction seasons (June 15 – October 15 due to Endangered Species Act (ESA) restrictions). Agencies in two counties have collaborated in the project design and environmental documentation process. The SFCJPA and its five member agencies have entered into a funding agreement for anticipated construction costs.

2015 IRWM Implementation Grant Proposal
 Bay Area Climate Change Preparedness Program
 Project 6: San Francisquito Creek Flood Protection and Ecosystem Restoration Project

ID	Task Name	Duration	Start	Finish	2016				2017				2018			
					Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1			
1	Project 6: San Francisquito Flood Protection and Ecosystem Restoration Project	1782 days	Wed 6/1/11	Thu 3/29/18												
2	Category (a): Direct Project Administration	543 days	Tue 3/1/16	Thu 3/29/18												
3	Task 1 Project Administration	542 days	Tue 3/1/16	Wed 3/28/18												
4	Task 2 Labor Compliance Program	479 days	Tue 3/1/16	Fri 12/29/17												
5	Task 3 Reporting	543 days	Tue 3/1/16	Thu 3/29/18												
6	Quarterly Reports	543 days	Tue 3/1/16	Thu 3/29/18												
7	Draft Project Completion Report	43 days	Fri 12/29/17	Tue 2/27/18												
8	Final Project Completion Report	22 days	Wed 2/28/18	Thu 3/29/18												
9	Category (b): Land Purchase/Easement	978 days	Sun 1/1/12	Wed 9/30/15												
10	Task 4 Land Purchase	979 days	Sun 1/1/12	Wed 9/30/15												
11	Category (c): Planning/Design/Engineering/Environmental Documentation	1239 days	Wed 6/1/11	Mon 2/29/16												
12	Task 5 Feasibility Studies - N/A															
13	Task 6 CEQA Documentation	564 days	Wed 6/1/11	Mon 7/29/13												
14	CEQA compliance - complete	564 days	Wed 6/1/11	Mon 7/29/13												
15	NEPA compliance - N/A															
16	Task 7 Permitting	542 days	Thu 1/30/14	Sun 2/28/16												
17	CWA Section 404 (USACE)	543 days	Thu 1/30/14	Sun 2/28/16												
18	CWA Section 401 or WDR (RWQCB)	543 days	Thu 1/30/14	Sun 2/28/16												
19	CDFW Section 1602 Agreement	391 days	Mon 9/1/14	Sun 2/28/16												
20	Task 8 Design	641 days	Wed 1/30/13	Wed 7/15/15												
21	100% Design	641 days	Wed 1/30/13	Wed 7/15/15												
22	Task 9 Project Performance Monitoring Plan	42 days	Fri 1/1/16	Mon 2/29/16												
23	Project Performance Monitoring Plan	42 days	Fri 1/1/16	Mon 2/29/16												
24	Category (d): Construction/Implementation	521 days	Fri 1/1/16	Fri 12/29/17												
25	Task 10 Contract Services	42 days	Fri 1/1/16	Mon 2/29/16												
26	Task 11 Construction Administration	479 days	Tue 3/1/16	Fri 12/29/17												
27	Task 12 Construction/Implementation Activities	479 days	Tue 3/1/16	Fri 12/29/17												
28	Mobilization	7 days	Tue 3/1/16	Wed 3/9/16												
29	Site Preparation	80 days	Thu 3/10/16	Wed 6/29/16												
30	Project Construction	360 days	Thu 6/30/16	Wed 11/15/17												
31	Performance Testing and Demobilization	32 days	Thu 11/16/17	Fri 12/29/17												

Project 7 – Mountain View Shoreline Portion of SBSPR Project

Schedule Overview/Key Milestones:

Task	Status	Percent Completion	Started By	Completed By
Task 4: Land Purchase	In Progress	90	January 2003	August 2016
Task 6: CEQA/NEPA	In Progress	50	June 2013	June 2016
Task 7: Permitting	Pending	0	July 2015	August 2016
Task 8: Design	In Progress	30	January 2015	August 2016
Task 9: Project Performance Monitoring Plan	Pending	0	July 2016	August 2016
Task 10: Contract Services	Pending	0	August 2016	November 2016
Task 11: Construction Administration	Pending	0	August 2016	July 2018
Task 12: Construction/Implementation	Pending	0	December 2016	July 2018

The project schedule is based on experience with other similar construction projects recently completed by the South Bay Salt Pond Restoration (SBSPR) Project as part of the Phase 1 implementation. Based on this experience, the project schedule is reasonable and realistic. Once construction commences it will take less than two years to complete work, even when considering limitations from “work windows” to protect nesting wildlife. All grant funded implementation tasks will be complete by July 2018, with project effectiveness monitoring continuing for a ten year period and concluding by July 2028.

2015 IRWM Implementation Grant Proposal
 Bay Area Climate Change Preparedness Program
 Project 7: Mountain View Shoreline Portion of SBSPR Project

ID	Task Name	Duration	Start	Finish	2016				2017				2018			
					Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	
1	Project 7: Mountain View Shoreline Portion of SBSPR Project	4108 days	Wed 1/1/03	Fri 9/28/18												
2	Category (a): Direct Project Administration	586 days	Fri 7/1/16	Fri 9/28/18												
3	Task 1 Project Administration	586 days	Fri 7/1/16	Fri 9/28/18												
4	Task 2 Labor Compliance Program	522 days	Fri 7/1/16	Mon 7/2/18												
5	Task 3 Reporting	586 days	Fri 7/1/16	Fri 9/28/18												
6	Quarterly Reports	586 days	Fri 7/1/16	Fri 9/28/18												
7	Draft Project Completion Report	43 days	Mon 7/2/18	Wed 8/29/18												
8	Final Project Completion Report	22 days	Thu 8/30/18	Fri 9/28/18												
9	Category (b): Land Purchase	3544 days	Wed 1/1/03	Mon 8/1/16												
10	Task 4 Construction Access Easement	110 days	Wed 1/1/03	Tue 6/3/03												
11	Category (c): Planning/Design/Engineering/Environmental Documentation	823 days	Sun 6/30/13	Wed 8/24/16												
12	Task 5 Feasibility Studies - N/A (complete)															
13	Task 6 CEQA Documentation	779 days	Sun 6/30/13	Thu 6/23/16												
14	CEQA/NEPA compliance	780 days	Sun 6/30/13	Thu 6/23/16												
15	Task 7 Permitting	284 days	Wed 7/1/15	Mon 8/1/16												
16	BCDC Permit	284 days	Wed 7/1/15	Mon 8/1/16												
17	CWA Section 401 Certification	284 days	Wed 7/1/15	Mon 8/1/16												
18	CDFW Section 1602 Agreement	284 days	Wed 7/1/15	Mon 8/1/16												
19	CDFW Section 2081 Incidental Take Permit	284 days	Wed 7/1/15	Mon 8/1/16												
20	ESA Compliance	284 days	Wed 7/1/15	Mon 8/1/16												
21	Task 8 Design	430 days	Thu 1/1/15	Wed 8/24/16												
22	100% Design	430 days	Thu 1/1/15	Wed 8/24/16												
23	Task 9 Project Performance Monitoring Plan	22 days	Fri 7/1/16	Mon 8/1/16												
24	Project Performance Monitoring Plan	22 days	Fri 7/1/16	Mon 8/1/16												
25	Category (d): Construction/Implementation	520 days	Mon 8/1/16	Fri 7/27/18												
26	Task 10 Contract Services	67 days	Mon 8/1/16	Tue 11/1/16												
27	Task 11 Construction Administration	520 days	Mon 8/1/16	Fri 7/27/18												
28	Task 12 Construction/Implementation Activities	413 days	Thu 12/1/16	Mon 7/2/18												
29	Mobilization/Site Preparation	22 days	Thu 12/1/16	Fri 12/30/16												
30	Project Construction	370 days	Mon 1/2/17	Fri 6/1/18												
31	Performance Testing and Demobilization	21 days	Mon 6/4/18	Mon 7/2/18												

Project 8 – Eden Landing Portion of SBSPR Project

Schedule Overview/Key Milestones:

Task	Status	Percent Completion	Started By	Completed By
Task 5: Feasibility Studies	In Progress	30	July 2013	December 2015
Task 6: CEQA/NEPA	Pending	0	January 2016	December 2016
Task 7: Permitting	Pending	0	June 2017	December 2017
Task 8: Design	In Progress	10	January 2017	December 2017
Task 9: Project Performance Monitoring Plan	Pending	0	June 2016	August 2016
Task 10: Contract Services	Pending	0	January 1, 2018	March 30, 2018
Task 11: Construction Administration	Pending	0	April 1, 2018	October 31, 2019
Task 12: Construction/Implementation	Pending	0	May 1, 2018	October 31, 2019

The project schedule is based on experience with similar construction projects recently completed by the South Bay Salt Pond Restoration (SBSPR) Project as part of the Phase 1 implementation. Based on this experience, the project schedule is reasonable and realistic. Once construction commences it will take less than two years to complete work, even when considering limitations from “work windows” to protect nesting wildlife. All grant funded implementation tasks will be complete by October 2019, with project effectiveness monitoring continuing for a ten year period, concluding by October 2029.

2015 IRWM Implementation Grant Proposal
 Bay Area Climate Change Preparedness Program
 Project 8: Eden Landing Portion of SBSPR Project

ID	Task Name	Duration	Start	Finish	2016				2017				2018				2019				2020			
					Qtr 1	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	Qtr 1			
1	Project 8: Eden Landing Portion of SBSPR Project	1719 days	Mon 7/1/13	Thu 1/30/20																				
2	Category (a): Direct Project Administration	458 days	Tue 5/1/18	Thu 1/30/20																				
3	Task 1 Project Administration	458 days	Tue 5/1/18	Thu 1/30/20																				
4	Task 2 Labor Compliance Program	393 days	Tue 5/1/18	Thu 10/31/19																				
5	Task 3 Reporting	458 days	Tue 5/1/18	Thu 1/30/20																				
6	Quarterly Reports	458 days	Tue 5/1/18	Thu 1/30/20																				
7	Draft Project Completion Report	43 days	Fri 11/1/19	Tue 12/31/19																				
8	Final Project Completion Report	22 days	Wed 1/1/20	Thu 1/30/20																				
9	Category (b): Land Purchase/Easement - N/A (compl																							
10	Category (c): Planning/Design/Engineering/Environmental Documentation	1175 days	Mon 7/1/13	Sun 12/31/17																				
11	Task 5 Feasibility Studies	654 days	Mon 7/1/13	Thu 12/31/15																				
12	Design Memorandum	654 days	Mon 7/1/13	Thu 12/31/15																				
13	Task 6 CEQA Documentation	261 days	Fri 1/1/16	Sat 12/31/16																				
14	CEQA/NEPA compliance	262 days	Fri 1/1/16	Sat 12/31/16																				
15	Task 7 Permitting	131 days	Fri 6/30/17	Sun 12/31/17																				
16	BCDC Permit	132 days	Fri 6/30/17	Sun 12/31/17																				
17	CWA Section 401 Certification	132 days	Fri 6/30/17	Sun 12/31/17																				
18	CDFW Section 1602 Agreement	132 days	Fri 6/30/17	Sun 12/31/17																				
19	CDFW Section 2081 Incidental Take Permit	132 days	Fri 6/30/17	Sun 12/31/17																				
20	ESA Compliance	132 days	Fri 6/30/17	Sun 12/31/17																				
21	Task 8 Design	260 days	Sun 1/1/17	Sun 12/31/17																				
22	100% Design	262 days	Sun 1/1/17	Sun 12/31/17																				
23	Task 9 Project Performance Monitoring Plan	44 days	Wed 6/1/16	Mon 8/1/16																				
24	Project Performance Monitoring Plan	44 days	Wed 6/1/16	Mon 8/1/16																				
25	Category (d): Construction/Implementation	479 days	Mon 1/1/18	Thu 10/31/19																				
26	Task 10 Contract Services	65 days	Mon 1/1/18	Fri 3/30/18																				
27	Task 11 Construction Administration	415 days	Sun 4/1/18	Thu 10/31/19																				
28	Task 12 Construction/Implementation Activities	393 days	Tue 5/1/18	Thu 10/31/19																				
29	Mobilization/Site Preparation	23 days	Tue 5/1/18	Thu 5/31/18																				
30	Project Construction	348 days	Fri 6/1/18	Tue 10/1/19																				
31	Performance Testing and Demobilization	22 days	Wed 10/2/19	Thu 10/31/19																				

Project 9 – Novato Creek Flood Protection and Habitat Enhancement Project

Schedule Overview/Key Milestones:

Element A: Bel Marin Keys Wetlands Restoration Project Phase I

Task	Status	Percent Completion	Started By	Completed By
Task 5: Feasibility Studies	In Progress	70	December 2013	November 2015
Task 6: CEQA/NEPA	In Progress	80	January 2015	November 2016
Task 7: Permitting	Pending	0	March 2016	March 2018
Task 8: Design	In Progress	10	July 2015	May 2017
Task 9: Project Performance Monitoring Plan	Pending	0	November 2016	January 2017
Task 10: Contract Services	Pending	0	February 2017	April 2017
Task 11: Construction Administration	Pending	0	April 2017	October 2018
Task 12: Construction/Implementation	Pending	0	April 2017	September 2018

The project schedule is realistic because it allows sufficient time for final design, permitting, and construction of the project. The Bel Marin Keys Project is well situated to move forward quickly to final design and permitting. The project schedule is reasonable based on the status of the project design and scope of the project which fits within the goals and objectives of the Hamilton Wetland Restoration Project (HWRP) along with various stakeholders.

The project schedule is accomplishable based on the project status, funding secured and commitment of the State Coastal Conservancy (SCC) and U.S. Army Corps of Engineers (USACE) to complete this phase of the Hamilton Wetland Restoration Project (HWRP). The SCC has the necessary funds to complete the project with the added funds from the IRWM grant. No property acquisitions are required which could derail the project.

Element B: Novato Creek Phase I Flood Reduction and Enhancement Project

Task	Status	Percent Completion	Started By	Completed By
Task 5: Feasibility Studies	In Progress	80	June 2014	January 2016
Task 6: CEQA/NEPA	Pending	0	April 2016	November 2017
Task 7: Permitting	In Progress	5	August 2016	May 2018
Task 8: Design	In Progress	10	July 2015	July 2017
Task 9: Project Performance Monitoring Plan		0	November 2016	May 2017
Task 10: Contract Services	Pending	0	April 2018	June 2018
Task 11: Construction Administration	Pending	0	June 2018	October 2019
Task 12: Construction/Implementation	Pending	0	June 2018	October 2019

The project schedule is realistic because it allows sufficient time for final design, permitting of the project. Over the past two years, the Marin County Flood Control District has been working and will continuing working with stakeholders through the watershed program to develop and vet various alternatives to the community and stakeholders.

The project schedule is reasonable based on the status of the project design and scope of the project which fits within the goals and objectives of the Marin County Flood Zone Board and City of Novato along with various stakeholders.

The project schedule is accomplishable based on the project status, funding secured and commitment of the City of Novato, Marin County Flood Control District and the Flood Zone Board. The Flood Zone Board has the necessary funds to complete the project with the added funds from the IRWM grant. No property acquisitions are required which could derail the project.

2015 IRWM Implementation Grant Proposal
 Bay Area Climate Change Preparedness Program
 Project 9: Novato Creek Flood Protection and Habitat Enhancement Project

ID	Task Name	Duration	Start	Finish	Predecessors	2016				2017				2018				2019				2020			
						Qtr 1	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	Qtr 1			
1	Project 9: Novato Creek Flood Protection and Habitat Enhancement Projects	1588 days	Tue 12/31/13	Thu 1/30/20																					
2	Category (a): Direct Project Administration	737 days	Wed 4/5/17	Thu 1/30/20																					
3	Task 1 Project Administration	737 days	Wed 4/5/17	Thu 1/30/20																					
4	Task 2 Labor Compliance Program	672 days	Wed 4/5/17	Thu 10/31/19																					
5	Task 3 Reporting	737 days	Wed 4/5/17	Thu 1/30/20																					
6	Quarterly Reports	737 days	Wed 4/5/17	Thu 1/30/20																					
7	Draft Project Completion Report	43 days	Fri 11/1/19	Tue 12/31/19	35																				
8	Final Project Completion Report	22 days	Wed 1/1/20	Thu 1/30/20	7																				
9	Category (b): Land Purchase/Easement - N/A																								
10	Category (c): Planning/Design/Engineering/Environmental Documentation	1131 days	Tue 12/31/13	Tue 5/1/18																					
11	Task 5 Feasibility Studies	544 days	Tue 12/31/13	Sun 1/31/16																					
12	Element A	500 days	Tue 12/31/13	Mon 11/30/15																					
13	Element B	437 days	Sun 6/1/14	Sun 1/31/16																					
14	Task 6 CEQA Documentation	740 days	Thu 1/1/15	Wed 11/1/17																					
15	Element A	479 days	Thu 1/1/15	Tue 11/1/16																					
16	Element B	414 days	Sun 4/3/16	Wed 11/1/17																					
17	Task 7 Permitting	566 days	Tue 3/1/16	Tue 5/1/18																					
18	Element A	523 days	Tue 3/1/16	Thu 3/1/18																					
19	Element B	457 days	Mon 8/1/16	Tue 5/1/18																					
20	Task 8 Design	544 days	Wed 7/1/15	Mon 7/31/17																					
21	Element A - 100% Design	500 days	Wed 7/1/15	Tue 5/30/17																					
22	Element B - 100% Design	544 days	Wed 7/1/15	Mon 7/31/17																					
23	Task 9 Project Performance Monitoring Plan	130 days	Tue 11/1/16	Mon 5/1/17																					
24	Element A	45 days	Tue 11/1/16	Mon 1/2/17																					
25	Element B	130 days	Tue 11/1/16	Mon 5/1/17																					
26	Category (d): Construction/Implementation	717 days	Wed 2/1/17	Thu 10/31/19																					
27	Task 10 Contract Services	357 days	Wed 2/1/17	Thu 6/14/18																					
28	Element A	45 days	Wed 2/1/17	Tue 4/4/17																					
29	Element B	45 days	Sun 4/15/18	Thu 6/14/18																					
30	Task 11 Construction Administration	674 days	Sat 4/1/17	Thu 10/31/19																					
31	Element A	414 days	Sat 4/1/17	Wed 10/31/18																					
32	Element B	370 days	Fri 6/1/18	Thu 10/31/19																					
33	Task 12 Construction/Implementation Activities	672 days	Wed 4/5/17	Thu 10/31/19																					
34	Element A	411 days	Wed 4/5/17	Wed 10/31/18																					
35	Element B	360 days	Fri 6/15/18	Thu 10/31/19																					
36																									
37																									

Project Schedules: Grant Administration

A project schedule summary and a detailed Gantt chart are presented in this section for grant administration.

Project ID#	Project Proponent	Project Title
10	ABAG/SFEP	Grant Administration

Project 10 – Grant Administration

The project schedule for administration of the Bay Area Regional Climate Change Preparedness begins with preparation of the grant application and project selection in April 2015 and is complete when the last Local Project Sponsor completes their final project report.

The anticipated schedule, based upon DWR's schedule noted in the Proposal Solicitation Package is as follows:

Budget Category (a): Direct Project Administration

Task 1 – Project Administration

- Negotiate contract with DWR – December 2015 to February 2016
- Negotiate Local Project Sponsor Agreements with Local Project Sponsors – January 2016 to March 2016
- Local Project Sponsor Committee Meetings – At project award, and as needed throughout the term of the grant
- Project Management – throughout the term of the grant

Task 2 – Invoicing

- Invoicing – Submitted 90 days following the end of the quarter (i.e., March, June, September, December)
- Reimbursement of Local Project Sponsors – Submitted within 30 days of receipt of payment from DWR
- Bookkeeping and auditing – throughout the term of the grant

Task 3 – Progress Reports and Project Completion

- Field Verification – As projects are completed and/or as needed to assure that projects are on schedule
- Quarterly Reports – Submitted 45 days following the end of the quarter (i.e., March, June, September, December)
- Final Project Reports – Submitted 90 days following the conclusion of individual projects, and signed off by DWR

2015 IRWM Implementation Grant Proposal
 Bay Area Climate Change Preparedness Program
 Project 10: Grant Administration

ID	Task Name	Duration	Start	Finish	2016				2017				2018				2019				2020			
					Qtr 1	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	Qtr 1	Qtr 2	Qtr 3	Qtr 4
1	Project 10: Grant Administration	1458 days	Wed 4/1/15	Fri 10/30/20																				
2	Category (a): Direct Project Administration	1458 days	Wed 4/1/15	Fri 10/30/20																				
3	Task 1 Project Administration	1458 days	Wed 4/1/15	Fri 10/30/20																				
4	Proposal Preparation	93 days	Wed 4/1/15	Fri 8/7/15																				
5	Contracting	77 days	Tue 12/15/15	Wed 3/30/16																				
6	Project Coordination	1274 days	Tue 12/15/15	Fri 10/30/20																				
7	Project Management	1274 days	Tue 12/15/15	Fri 10/30/20																				
8	Task 2 Invoicing	1198 days	Wed 3/30/16	Fri 10/30/20																				
9	Task 3 Progress Reports and Project Completion Reports	1198 days	Wed 3/30/16	Fri 10/30/20																				
10	Quarterly Reports	1198 days	Wed 3/30/16	Fri 10/30/20																				
11	Draft Project Completion Report	1198 days	Wed 3/30/16	Fri 10/30/20																				
12	Final Project Completion Report	1198 days	Wed 3/30/16	Fri 10/30/20																				