

SOUTH ORANGE COUNTY WMA 2015 IRWM IMPLEMENTATION GRANT PROPOSAL**ATTACHMENT 5****SCHEDULE****I. PROJECT SCHEDULES**

Schedules for the following projects are included:

1. Dairy Fork Wetland
2. San Juan Aquatic Passage and Habitat Improvement
3. Crown Valley Park Entry Channel Improvements
4. Strategic Turfgrass Removal & Design Assistance Program
5. 3A Water Recycling Plant Tertiary Expansion
6. Recycled Water Distribution Upgrade
7. County of Orange Grant Administration

The schedules reflect the following:

- The start and end dates as well as milestones for each task contained in the Work Summary.
- All projects will be completed by October 31, 2020.
- All projects will be completed by October 31, 2019.
- Tasks in the schedule are identical to the tasks described in the Work Plan.
- All projects will start construction/implementation by April 1, 2016.
- Some of the projects have phases that may start prior to the April 1, 2016 anticipated start date. The Project Proponents are aware that work being paid for with the grant will not proceed without an executed state agreement and all DWR requirements to start the project have been fulfilled.
- The schedules are realistic, reasonable, and accomplishable based on the state of project development, as described in section II of this attachment.

South Orange County WMA
2015 IRWM Implementation Grant
Attachment 5 Schedule

ID	Task Name	Start	Finish	Duration	Q2 '14	Q3 '14	Q4 '14	Q1 '15	Q2 '15	Q3 '15	Q4 '15	Q1 '16	Q2 '16	Q3 '16	Q4 '16	Q1 '17	Q2 '17	Q3 '17	Q4 '17				
					MayJun	Jul AugSep	OctNovDec	JanFebMar	AprMayJun	Jul AugSep	OctNovDec	JanFebMar	AprMayJun	Jul AugSep	OctNovDec	JanFebMar	AprMayJun	Jul AugSep	OctNovDec	JanFebMar	AprMayJun	Jul AugSep	OctNovDec
0	1. Dairy Fork Wetland	Tue 7/1/14	Sat 9/30/17	849 days																			
1	Grant Award (mid-December)	Tue 12/15/15	Tue 12/15/15	1 day																			
2	Task 1: Project Management	Tue 7/1/14	Sat 9/30/17	850 days																			
3	Task 2: Labor Compliance Program	Tue 7/1/14	Sat 9/30/17	850 days																			
4	Task 3: Reporting	Tue 7/1/14	Sat 9/30/17	850 days																			
5	Task 4: Land Easement	Tue 7/1/14	Tue 12/1/15	371 days																			
6	Task 5: CEQA Documentation	Tue 7/1/14	Mon 3/2/15	175 days																			
8	Task 6: Permitting	Tue 7/1/14	Tue 12/1/15	371 days																			
9	Task 7: Design	Tue 7/1/14	Mon 6/1/15	240 days																			
10	Task 8: Project Performance Monitoring Plan	Tue 7/1/14	Tue 12/1/15	371 days																			
11	Task 9: Contract Services	Mon 6/1/15	Fri 9/30/16	261 days																			
12	Task 10: Construction Administration	Tue 12/1/15	Sat 9/30/17	480 days																			
13	Task 11: Construction/Implementation Activities	Tue 12/1/15	Sat 9/30/17	480 days																			
14	Subtask 11a: Mobilization and Demobilization	Tue 12/1/15	Sat 5/7/16	10 days																			
15	Subtask 11b: Site Preparation	Mon 12/7/15	Mon 12/14/15	6 days																			
16	Subtask 11c: Installation/Excavation, and Construction	Tue 12/15/15	Sat 9/30/17	365 days																			
17	Subtask 11d: Start-up Testing	Sun 5/1/16	Sat 5/7/16	7 days																			

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ID	Task Name	Start	Finish	Duration	Q4 '15	Q1 '16			Q2 '16			Q3 '16			Q4 '16			Q1 '17			Q2 '17			Q3 '17			Q4 '17			Q1 '18			Q2 '18			Q3 '18			Q4 '18			Q1 '19			Q2 '19			Q3 '19			Q4 '19		
					Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
0	4. Strategic Turfgrass Removal & Design Assistance Program	Tue 12/15/15	Thu 10/31/19	1013 days	[Gantt bar for ID 0]																																																
1	Grant Award (mid-December)	Tue 12/15/15	Tue 12/15/15	0 days	[Gantt bar for ID 1]																																																
2	Task 1: Project Management	Tue 12/15/15	Thu 10/31/19	1013 days	[Gantt bar for ID 2]																																																
3	Task 2: Labor Compliance Program	Fri 12/18/15	Fri 12/18/15	1 day	[Gantt bar for ID 3]																																																
4	Task 3: Reporting	Fri 1/29/16	Wed 10/30/19	979 days	[Gantt bar for ID 4]																																																
21	Task 4: CEQA Documentation	Tue 12/15/15	Tue 12/15/15	1 day	[Gantt bar for ID 21]																																																
22	Task 5: Design	Fri 1/22/16	Thu 9/5/19	945 days	[Gantt bar for ID 22]																																																
23	Task 6: Project Performance Monitoring Plan	Mon 1/11/16	Mon 9/30/19	971 days	[Gantt bar for ID 23]																																																
24	Task 7: Database Improvement	Mon 11/28/16	Fri 1/6/17	30 days	[Gantt bar for ID 24]																																																
25	Task 8: Marketing and Promotion	Mon 1/18/16	Fri 8/30/19	945 days	[Gantt bar for ID 25]																																																
26	Task 9: Construction/Implementation Activities	Mon 1/11/16	Mon 9/16/19	961 days	[Gantt bar for ID 26]																																																
27	Subtask 9a: Rebate Incentive	Mon 1/11/16	Mon 9/16/19	961 days	[Gantt bar for ID 27]																																																
28	Subtask 9b: Site Inspections	Fri 2/5/16	Fri 8/30/19	931 days	[Gantt bar for ID 28]																																																

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ID	Task Name	Start	Finish	Duration	Q2 '15		Q3 '15		Q4 '15			Q1 '16			Q2 '16			Q3 '16			Q4 '16			Q1 '17						
					Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
0	5. 3A Water Recycling Plant Tertiary Expansion	Mon 6/1/15	Tue 2/28/17	457 days																										
1	Grant Award (mid-December)	Tue 12/15/15	Tue 12/15/15	1 day	◆ 12/15																									
2	Task 1: Project Management	Wed 7/1/15	Tue 2/28/17	435 days																										
3	Task 2: Labor Compliance Program	Mon 1/4/16	Tue 2/28/17	302 days																										
4	Task 3: Reporting	Mon 1/4/16	Tue 2/28/17	302 days																										
5	Task 4: Feasibility Studies	Mon 6/1/15	Fri 8/21/15	60 days																										
6	Task 5: CEQA Documentation	Mon 8/24/15	Fri 4/29/16	180 days																										
7	Task 6: Permitting	Mon 10/5/15	Fri 11/6/15	25 days																										
8	Task 7: Design	Mon 8/24/15	Fri 12/11/15	80 days																										
9	Task 8: Project Performance Monitoring Plan	Mon 1/25/16	Tue 2/28/17	287 days																										
10	Task 9: Contract Services	Mon 12/21/15	Fri 1/20/17	285 days																										
11	Task 10: Construction Administration	Mon 12/21/15	Fri 1/20/17	285 days																										
12	Task 11: Construction/Implementation Activities	Mon 12/21/15	Fri 1/20/17	285 days																										
13	Subtask 11a: Mobilization and Demobilization	Mon 1/25/16	Fri 1/20/17	260 days																										
14	Subtask 11b: Site Preparation	Mon 1/25/16	Wed 2/24/16	23 days																										
15	Subtask 11c: Install, Construct, Excavate	Sun 2/21/16	Fri 1/20/17	241 days																										
16	Subtask 11d: Procure Equipment	Mon 12/21/15	Fri 6/10/16	125 days																										
17																														

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ID	Task Name	Start	Finish	Duration	Q4 '14			Q1 '15			Q2 '15			Q3 '15			Q4 '15			Q1 '16			Q2 '16			Q3 '16			Q4 '16			Q1 '17			Q2 '17			Q3 '17		
					Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
0	6. Recycled Water Distribution Upgrade	Mon 11/17/14	Fri 8/25/17	725 days																																				
1	Grant Award (mid-December)	Tue 12/15/15	Tue 12/15/15	1 day	◆ 12/15																																			
2	Task 1: Project Management	Mon 11/17/14	Fri 2/24/17	595 days																																				
3	Task 2: Labor Compliance Program	Tue 9/6/16	Fri 2/24/17	124 days																																				
4	Task 3: Reporting	Mon 12/14/15	Fri 2/24/17	315 days																																				
5	Task 4: CEQA Documentation (completed)	Mon 11/17/14	Mon 11/17/14	1 day	◆ 11/17																																			
6	Task 5: Permitting	Tue 2/3/15	Mon 12/14/15	225 days																																				
7	Task 6: Design	Wed 2/4/15	Tue 11/10/15	200 days																																				
8	Task 7: Project Performance Monitoring Plan	Mon 12/14/15	Fri 8/25/17	445 days																																				
9	Task 8: Contract Services (Bid Award - November 2015)	Mon 11/17/14	Fri 2/5/16	320 days																																				
10	Task 9: Construction Administration	Wed 3/2/16	Fri 2/24/17	258 days																																				
11	Task 10: Construction/Implementation Activities	Tue 9/6/16	Fri 3/10/17	134 days																																				
12	Subtask 10a: Mobilization and Demobilization	Tue 9/6/16	Fri 2/24/17	9 days																																				
13	Subtask 10b: Site Preparation	Mon 9/12/16	Fri 2/17/17	115 days																																				
14	Subtask 10c: Install, Construct, Excavate	Mon 9/12/16	Fri 2/17/17	115 days																																				
15	Subtask 10d: Start-up Testing	Mon 2/27/17	Fri 3/10/17	10 days																																				

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ID	Task Name	Start	Finish	Duration	5																																																
					Q1 '16	Q2 '16	Q3 '16	Q4 '16	Q1 '17	Q2 '17	Q3 '17	Q4 '17	Q1 '18	Q2 '18	Q3 '18	Q4 '18	Q1 '19	Q2 '19	Q3 '19	Q4 '19	Q1 '20	Q2 '20	Q3 '20	Q4 '20																													
					Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	7. County of Orange Grant Administration	Tue 12/15/15	Thu 4/30/20	1143 days																																																	
1	Grant Award (mid-December)	Tue 12/15/15	Tue 12/15/15	1 day	◆ 12/15																																																
2	Task 1: Agreement Administration	Tue 12/15/15	Thu 10/31/19	1013 days																																																	
3	Task 2: Invoicing	Fri 4/1/16	Thu 4/30/20	1065 days																																																	
4	Task 3: Project Reports and Project Completion Reports	Fri 4/1/16	Thu 4/30/20	1065 days																																																	
5																																																					

II. DESCRIPTION OF HOW PROJECT SCHEDULE IS REALISTIC, REASONABLE, AND ACCOMPLISHABLE

1. Dairy Fork Wetland Project

The Project schedule is realistic, reasonable, and accomplishable because it has been developed utilizing current construction work and the City of Aliso Viejo has past experience executing similar projects. The schedule for invasive *arundo donax* (Arundo) removal included in Task 11 is realistic, reasonable, and accomplishable based upon extensive experience in the South Orange County Watershed Management Area of conducting Arundo removal; the Project will utilize the same methodologies as at least 5 other projects conducted over the past five years in separate segments of Aliso Creek.

Task 1: Project Management, Task 2: Labor Compliance Program, and Task 3: Reporting. These tasks will be carried out throughout the duration of the project as these involve ongoing management, labor compliance, and required reporting, respectively.

Task 4: Land Easement. Task 4 includes negotiations to finalize the easement agreement between Southern California Edison and the City of Aliso which are scheduled to be completed by December 1, 2015. Negotiations for the easement began on Jul 1, 2014. Given the progress of the easement process already completed, we expect the December 1 date to be accurate.

Task 5: CEQA documentation. This task began for the wetland Jul 1, 2014 and was completed by city staff in March of 2015, as a notice of exemption was issued for CEQA documentation. CEQA was completed in 2009 for Arundo removal efforts.

Task 6: Permitting. The permit filing process for the wetland began on July 1, 2014 by city staff. The project will have to comply with the existing MS4 permit, but does not require a new permit to be filed. The City is currently obtaining a Streambed Alteration Agreement with the California Department of Fish and Wildlife (CDFW), and expects its completion by December 1, 2015. The city has submitted its application to the CDFW, which has 30 day period of review of the application, and a subsequent 60 day issuance period. It is expected that the project will comply with the RWQCB's existing 402 permit and will not require new filing. A Streambed Alteration Agreement was obtained for Arundo removal efforts in 2008 (Notification # 1600-208-0247-R5) and an agreement executed. This agreement was extended on December 14, 2014 to expire on March 15, 2020. Additionally, a US Army Corps of Engineers Regional General Permit No. 41 (RGP 41) has also been obtained – permit number 2003-01094-CLM became effective on January 22, 2009 and was extended on April 7, 2014.

Task 7: Design. The design phase of the wetland project began on July 1, 2014 and was completed on June 1, 2015; including the geotechnical investigation, topographical survey, updated cost estimate, and the design documents.

Task 8: Project Performance Monitoring Plan. Work on the plan began on July 1, 2015 by city staff and is estimated to be completed by December 1, 2015.

Task 9: Contract Services. Bid documents and proof of advertisement started on June 1, 2015 and were completed June 31, 2015 for the wetland construction. It is expected that the award of contract and notice to proceed will be issued by December 1, 2015 for the wetland construction. A separate contract bid process will for Arundo removal activities will begin in April 2016 for work to start in September 2016.

Task 10: Construction Administration. Administration is ongoing with a dedicated city engineer. Administrative activities will end September 2017, when construction activities are completed and signed off. In the event that construction takes longer than scheduled, Administrative activities will end at the same time as construction completion.

Task 11: Construction/Implementation Activities. This is the final task of the project. Construction is expected to run from December 1, 2015 until May 7, 2016 for the wetland phase and from September 2016 until September 2017 for the Arundo removal phase, as mentioned under Subtask 11c.

Subtask 11a: Mobilization/Demobilization. Mobilization will occur during the period of December 1, 2015 – December 7, 2015. Demobilization will occur directly after construction is completed. Demobilization will begin on May 1, 2016 and will last about a week, until May 7, 2016.

Subtask 11b: Site Preparation. Site preparation will occur as soon as mobilization is complete. This will occur from December 7, 2015 until site preparation is complete on approximately December 14, 2015.

Subtask 11c: Installation/Excavation and Construction. This phase of construction begins on the wetland as soon as site preparation is completed on the site; it will run from December 15, 2015 until April 30, 2016. The Arundo removal phase will take place from September 30, 2016 until September 30, 2017. Implementation of Arundo removal activities will not begin until after the wetland portion has been completed and will conclude September 2017.

Subtask 11d: Start-up Testing. This will occur when installation/excavation and construction of the wetland are completed. To give enough to ensure project is completed, and allow for any unforeseen delays, we anticipate that testing will be concluded on May 7, 2016. This phase will operate concurrently with demobilization.

All of the tasks have been reviewed and compared to recently completed projects to confirm that the schedules are both reasonable and accurate. These milestones are all achievable based on our experience managing similar projects.

2. San Juan Aquatic Passage and Habitat Improvement

The project schedule is realistic, reasonable, and accomplishable because it has been developed based on previous projects the Forest Service has completed in the past. The Forest Service has extensive experience completing similar projects.

Task 1: Project Management, Task 2: Labor Compliance Program, and Task 3: Reporting will be carried out throughout the duration of the project as these involve ongoing management, labor compliance, and required reporting, respectively.

Task 4: CEQA/NEPA Documentation is 95% complete. NEPA, CEQA, SHPO concurrence, and tribal and USFWS consultations are complete for the dam removals and stream crossings. Three NEPA documents were signed in 2011, 2013, and 2014. CEQA compliance for the invasive weed treatment will be tiered from the NEPA document and be completed by Feb 28, 2016.

Task 5: Permitting is 100% complete for all project activities. 404/401 permits were submitted in 2014 and 2015.

Task 6: Final Designs are the design portions of the work and are necessary to complete the work. Forest Service staff has experience in developing designs for prefabricated bridge installation (ex. Holy Jim Creek crossing in 2007, adjacent to the project area). We expect Task 6 to be complete by January of 2017. This schedule gives us one year to prepare the preliminary design work and the final design. Based on success with other crossings and given that the two crossings are similar in nature and located adjacent to each other, we expect this schedule to be accurate.

Task 7: Project Performance Monitoring Plan is the monitoring plan for the project. In submitting the 401 and 404 permits for the work, a monitoring plan was developed. We intend to use that plan as the basis for the monitoring plan. A few adjustments to include the invasive weed treatment will be included. We expect to complete this work by June 30, 2016.

Task 8: Contract Services includes what is needed to secure a contract for the construction of the crossing. In 2014, the Forest Service began the project and removed 9 of the dams. The schedule shows remaining contract services for one stream crossing. An agreement with American Conservation Experience (ACE) will be used to implement the invasive weed treatment; however, if ACE is not available due scheduling, the Forest Service will use contract services as well. Contract Services for the stream crossing will involve preparation of documents along with following the official Forest Service contracting process. This process is expected to take approximately three months; however, we have included 1 year, should there be any complications with the process. Construction bids for the remaining will be awarded by June 30, 2017.

Task 9: Construction Administration includes basic administration of the contract, which requires processing of submittals, responding to requests for both information and change orders, and processing progress payments and retention. Administration also includes tracking performance, progress, and overseeing contractor to verify they are working within the agreed scope work and following contract provisions. This task will carry on throughout construction activities.

Task 10: Construction/Implementation Activities will include three different subtasks.

Subtask 10a: Invasive Weed Removal includes Invasive weed removal, which includes improvement of 5 acres and will involve crew time and biomass removal. Biomass removal may require piling, burning, chipping or hauling of biomass. The Forest Service has been successfully treating invasive weeds across the Cleveland National Forest for many years as treatment of invasive weeds is part of our Land Management Plan (ex. arundo treatment in 2012, just downstream of the project area). Follow-up treatment for two years at sites is necessary to ensure invasive weed removal and has been included in the schedule. Based on our success with other sites and previous experience with the ACE crew, we believe the final retreatment will be completed by October 31, 2019.

Subtask 10b: Small Stream Crossings and Dams involves replacement of a streamcrossing with a prefabricated bridge and removal of 16 dams. The work involves survey and staking, mobilization, site prep, dewatering during construction, purchasing of materials, and stream simulation. In 2014, the Forest Service began the project and removed 9 of the dams. The Forest Service successfully contracted out the construction of the Holy Jim Creek crossing (a similar project with a prefabricated bridge). Construction would begin after the designs have been completed and the contract has been awarded. It is anticipated that the project would be completed by December of 2017; however, if a large water year occurs, the work may be delayed until 2018. In that instance the work would be completed by December 31, 2018. We believe this schedule has sufficient time to carry out all of the proposed construction.

Subtask 10c: Large Bridge Construction involves replacement of an undersized streamcrossing with a large bridge. The work involves mobilization, site prep, dewatering during construction, purchasing of materials, and stream simulation. The Forest Service has successfully contracted out several bridges over the years. The contract has been awarded and is anticipated to begin August 2015. The project is expected to be completed by April of 2017; however, if a large water year occurs, the work may be delayed but would be completed by December 31, 2016. We believe this schedule has sufficient time to carry out all of the proposed construction.

All of the tasks have been reviewed and compared to recently completed projects to confirm that the schedules are both reasonable and accurate. The identified milestones are all achievable based on our experience managing similar projects.

3. Crown Valley Park Entry Channel Improvements

The project schedule is realistic, reasonable, and accomplishable based upon work completed to date on the project and development and preparation of remaining project elements that has already been completed or is underway. The City of Laguna Niguel's project is supported by a local grant, applied for in 2013 and awarded in 2014, from the Orange County Transportation Authority (OCTA), which has an earlier deadline (June 2017) for the start of construction than necessitated by the IRWM program timeline. CEQA work for the project was completed in 2014 and final design work for both Phase 1 and Phase 2 was started in 2014. The attached schedule shows the project's proposed deadlines and milestones, but the City is proceeding with the expectation of completing the project sooner than indicated. With respect to specific Project Tasks:

Task 1: Project Management. This spans the duration of the project. Task 1 is reasonable because the preparation of invoices, project performance monitoring plan, and other deliverables, will occur until project completion.

Task 2: Labor Compliance Program. The City adopted a Labor Compliance Program on June 16, 2015 and has already submitted the application and associated documentation to the State Department of Industrial Relations. The same specialty Labor Compliance consultant who prepared the documentation will be used to implement the program for the duration of project implementation.

Task 3: Reporting. This will be accomplished by the Project Manager. Reporting starts at the same time as Task 10 Construction Administration so that the Construction Project Manager can assist with providing project status reports. The schedule shows this task will span the duration of the project through the end of construction. Quarterly, final and post completion progress reports will be submitted until shortly after project completion.

Task 4: Feasibility Studies and Task 5: CEQA Documentation. These efforts were initiated concurrent with the City's grant application to OCTA in 2013, and the documents were both approved by the City on 06/17/2014.

Task 6: Permitting. This effort started at the time the consultant team began work on the final design, in July of 2014. No permits are required for Phase 1. Permit applications for the Phase 2 work were submitted to the resources agencies in June 2015. The environmental consultant estimates that 6 to 9 months will be required to finalize the permits, possibly allowing for early start of Phase 2 construction as early as Summer 2016; but the attached schedule allows for an additional 12 month for permit negotiation, if necessary, before the June 2017 OCTA deadline to start construction.

Task 7: Design. This effort started in July 2014. Phase 1 design is targeted to be complete by December 2015. Phase 2 design may be completed by Spring 2016, but the attached schedule allows for an additional 9 months, in case of design changes due to permitting negotiations or other issues, before the Phase 2 project would need to go out to bid in Spring 2017 to meet the OCTA construction-start deadline.

Task 8: Project Performance Monitoring Plan. This schedule is realistic, reasonable, and accomplishable, because it will start after permitting and design have started and will span the project, completing at the same time as Task 3: Reporting since the monitoring results will be incorporated into the final project completion report.

Task 9: Contract Services. This schedule is realistic, reasonable, and accomplishable because it follows proven City standard procedures for bidding and award of a construction contract.

Task 10: Construction Administration. This schedule starts before Task 11 Construction implementation activities and lasts until Phase 2 construction is completed.

Task 11: Construction/Implementation Activities, includes **subtasks 11a-11d.** Phase 1 of the project (Improve Irrigation Water Supply for the Niguel Botanical Preserve area of Crown Valley Park) will meet the IRWM's program requirement to award a contract after 01/01/16 but no later than 03/31/2016. Phase 1 – which includes converting to recycled water for an existing landscape irrigation system, as a drought

response strategy – does not require permits, and the design effort remaining is not substantial. The City's Phase 1 project bidding schedule is targeted for the last quarter of 2015, and contract award should be completed sooner than shown in the attached schedule, which reflects the IRWM program deadline of 03/31/16 for the award of contract.

With respect to complying with the completion deadlines for the IRWM program, the OCTA grant program has a firm deadline to award the Phase 2 construction contract no later than June 30, 2017, which is reflected as a deadline milestone in the schedule attached to this application. The City will award the contract sooner if the plans and permits are ready sooner, as noted above. The City estimates 12-16 months are needed to complete construction, which would mean completion by not later than October 2018 based on the OCTA start date deadline. However, the attached schedule provides an extra cushion of 4 months for adverse weather or other unforeseen delays, showing the construction completion deadline as 02/28/19.

4. Strategic Turfgrass Removal & Design Assistance Program

The project schedule is realistic, reasonable, and accomplishable because it has been developed utilizing existing programmatic structure based on the District's past experience executing such projects.

Task 1: Project Management, Task 2: Labor Compliance Program, and Task 3: Reporting will be carried out throughout the duration of the project as these involve ongoing management, labor compliance, and required reporting, respectively.

Task 4: CEQA Documentation includes filing the CEQA notice of exemption. Which will take one day to file, and is therefore reflected with 1 day on the schedule. MWDOC regularly completes filing a notice of exemption and knows that it will take only 1 day to complete. December 15, 2015 is the estimated award date and therefore it is estimated that CEQA will be completed by this date.

Task 5: Design Project elements will require an outside consultant for execution. Selection of the consultant will begin in Q1 2016 following the execution of the grant award. We expect Task 5 to continue through September 5, 2019 in Q3 2019 and include development of 25 design templates. These templates will then be modified/manipulated to meet the needs of the 4,000 sites. This schedule provides sufficient time to utilize the designs at projects throughout the program term.

Task 6: Project Performance Monitoring Plan will commence during Q1 2016 and is expected to be complete by the end of Q3 2019. The Project Performance Monitoring Plan will include a robust statistical examination using regression analysis utilizing measurements from the Program's residential and commercial landscape conversion sites.

Task 7: Database Improvement will commence during mid-Q4 2016 and be complete by early Q1 2017. MWDOC's current historical Landscape Program's database will be modified to accommodate the Program's participation data. 30 days is realistic because the database will be simply updated with new data.

Task 8: Marketing and Promotion will commence during Q1 2016 and is expected to be continue through mid-Q3 2019. MWDOC will develop, print, and distribute 300,125 marketing materials and other supplies necessary to convert residential and commercial non-functional turfgrass to California Friendly landscapes and provide residential sites with technical assistance. Marketing and Promotion will occur throughout the length of the project because regular publicizing of the program is required to remind potential participants about the program.

Task 9: Construction/Implementation Activities, including **subtasks 9a-9b**, will commence in early Q1 2016 and continue through the end of Q3 2019. This will include all activities related to implementing the landscape conversions. This work will include the removal of up to 1,796,330 ft² of turfgrass by providing incentives through a rebate-style format to residential and commercial property owners/water users. Consumers will be targeted based on a volume of excess use as compared to a customized efficiency target determined by the characteristics of each consumer. Rebates will continue to be offered throughout

the program timeline. Following the turf removal project, all (100%) sites will also receive a visual post-inspection to confirm all conversion requirements are met. The visual inspections will be conducted by MWDOC staff, retail water agency, or a consultant representing MWDOC. The site inspections will occur prior to and following each individual turf removal project as implemented throughout the overall project term. We believe this schedule has sufficient time to carry out all of the proposed construction.

All of the tasks have been reviewed and compared to recently completed projects to confirm that the schedules are both reasonable and accurate. These milestones are all achievable based on our experience managing similar projects.

5. 3A Water Recycling Plant Tertiary Expansion

The Project schedule is realistic, reasonable, and accomplishable because it has been developed using similar previous plant expansion work that the District has recently performed. The schedule incorporates the personal experience of the District's team of engineers and construction managers who have performed similar projects previously.

Task 1: Project Management, Task 2: Labor Compliance Program, and Task 3: Reporting will be carried out throughout the duration of the project as these involve ongoing management, labor compliance, and required reporting, respectively.

Task 4: Feasibility Studies have been prepared for the Project and presented to the District's Board of Directors for approval of pursuing the Project. This work was prepared by in house staff including the plant operating personnel. Further refinements to the feasibility study will be made and completed in the August, which will help guide the final design efforts.

Task 5: CEQA Documentation work will begin in August and will be completed by January 2016. A Request for Proposal has been sent to an outside consultant. It is fully anticipated that this effort will involve the preparation of an Initial Study/Mitigated Negative Declaration for the work that will be required to complete. These expectations have been developed based on similar expansion work that has been performed at one of the other two District water reclamation plants for a recent project.

Task 6: Permitting will include obtaining an encroachment permit from the City of Mission Viejo for the upgrading of an effluent pipe; request will be filled in October 2015 and is proposed for completion in November 2015.

Task 7: Design activities will involve a combination of both District personnel and consultants preparing the construction documents for bidding the Project. It is anticipated that the District will prepare the preliminary design work and then contract for the final design from an outside consultant. Depending on the final outcome of the preliminary design, the District may self-perform the process design elements and contract for the electrical, structural and geotechnical engineering. At this same time the District, with the assistance of outside consultants will develop and begin implementing a performance monitoring plan as identified in Task 8.

Task 8: Project Performance Monitoring Plan will take place throughout the Project and extend beyond the construction phase as part of the on-going reporting requirements.

Task 9: Contract Services involves the construction phase engineering that will address responding to contractor's requests for clarification, change order requests and submittal review.

Task 10: Construction Administration includes managing the construction contractor. Efforts will involve inspecting the construction work for conformance with the contract documents, reviewing pay applications, monitoring the contractor's work schedule and provide the various reporting activities that are necessary for completing a public works project.

Task 11: Construction Implementation Activities, including **subtasks 11a-11d**, involves all of the activities related to the actual construction of the facilities. This includes mobilization of the contractor,

procurement of the various mechanical, electrical and instrumentation equipment components that will be included in the Project, constructing the various structures and foundation to support and/or house the equipment, install the various components and start up the equipment to demonstrate conformance to the contract documents and the operability of the new facilities. The schedule associated with this activity has been developed based on the District's experience as well as the results of similar projects.

Based on the collective experience of SMWD staff, these activities and the identified schedule to complete them are reasonable.

6. Recycled Water Distribution Upgrade

The project schedule is realistic, reasonable, and accomplishable because it is based on the District's experience with previous, similar projects. The District has reviewed the anticipated schedule associated to this project and considered the existing and pending project load and the work can be completed using the District's current in-house and consultant staffing levels. The schedule depicts the tasks that are linked to predecessors to identify the critical path items and to ensure the project is completed on time.

Task 1: Project Management spans the duration of the project. Task 1 is reasonable because the preparation of invoices, project performance monitoring plan, and other deliverables, will occur until project completion.

Task 2: Labor Compliance Program starts at the same time as Task 9 Construction Administration. SCWD will utilize a Labor Compliance Consultant to insure that the contractor provides documentation for proof of compliance with labor codes throughout the construction phase.

Task 3: Reporting is reasonable and will be accomplished by the SCWD Project Manager. Reporting will span the duration of the project through the end of construction. Quarterly, final and post completion progress reports will be submitted until shortly after project completion.

Task 4: CEQA Documentation has been completed. SCWD processed a Program EIR for the 2008 SCWD Infrastructure Master Plan. This Recycled Water Distribution Upgrade Project was included in the Program EIR.

Task 5: Permitting is reasonable and will be accomplished by the SCWD's Design Consultant, Psomas. Psomas has obtained an encroachment permit from Caltrans for the geotechnical borings that were part of the sub-surface field investigation for this project that was completed in July 2015. An Encroachment Permit from Caltrans for project construction will be obtained when the 100% submittal is complete. Contact with Caltrans staff was initiated during the geotechnical work task. Work on the application is in progress. An application for an Encroachment Permit will be submitted to the City of Laguna Beach concurrent with the submittal of 90% plans. The Storm Water Pollution Prevention Plan (SWPPP) is scheduled for preparation in September 2015. A set of plans and specifications will be sent to the County of Orange for a courtesy review concurrent with the submittal of 90% plans and specifications.

Task 6: Design is reasonable and approximately 75% of design contract scope of work has been completed to date. Psomas, the SCWD Design Engineering Consultant, has completed the 75% submittal. Sets of 75% plans and specifications were submitted to the SCWD for review on July 8, 2015. SCWD review of 75% Design Submittal is currently in progress. This task is anticipated to be complete by November 2015.

Task 7: Project Performance Monitoring Plan is realistic, reasonable, and accomplishable, because SCWD has the ability use customer service records to track the annual and cumulative increase in recycled water consumption to monitor performance. This task is anticipated to be complete by August 2017.

Task 8: Contract Services is realistic, reasonable, and accomplishable because it follows proven District standard procedures for bidding and award of a construction contract. The process will involve preparation of documents along with an advertising period and finally a Board of Director's action

awarding a contract. This process is expected to take approximately 6 weeks, however we have included 8 weeks should there be any complications with the process. SCWD's experience is that 6 weeks will be sufficient. A construction contract is schedule to be awarded at the February 2016 SCWD Board Meeting and executed on or before March 2016 to meet the April 1, 2016 deadline for the start of construction.

Task 9: Construction Administration is realistic, reasonable, and accomplishable because it follows proven District standard procedures and processes. Administration of the contract requires processing of submittals, responding to requests for both information and change orders, and processing progress payments and retention. Tracking out of scope work along with construction progress is also needed. This task will also be necessary to track coordination of testing of backfill, asphalt, and pipelines. This task will carry on throughout construction activities. This work will include mobilization, trenching, installation of pipe and appurtenances, backfilling, pavement restoration and demobilization. SCWD has executed numerous projects within the area of similar scope and using that information a construction schedule of 25 weeks was developed. This schedule provides sufficient time to carry out all of the proposed construction. Based on the project schedule, construction will be completed by February 24, 2017.

Task 10: Construction/Implementation Activities including **subtasks 10a-10d**, is realistic, reasonable, and accomplishable because it follows typical construction standard procedures for pipeline construction projects. Construction will include all activities related to executing the construction contract. This work will include mobilization, trenching, installation of pipe and appurtenances, backfilling, and pavement repairs. SCWD has executed numerous projects within the area of similar scope and using that information a construction schedule of 26 weeks was developed. We believe this schedule has sufficient time to carry out all of the proposed construction. Based on the project schedule, subtask 10b: Site Preparation and 10c: Install, Construct, Excavate will be completed by February 17, 2017, with subtask 10a: Mobilization and Demobilization completed by February 24, 2017, and subtask 10d: Start-up Testing completed by March 20, 2017.

7. County of Orange Grant Administration

The County of Orange serves as the lead applicant and program grant administrator for the proposed South Orange County Watershed Management Area projects. Each proposed project will have a project manager assigned from the respective agency to perform project administration in coordination with the County of Orange. The County of Orange Grant Administration Project includes the County's grant administration, including DWR grant agreement execution, reporting and invoicing to DWR. The schedule includes a start date of December 15, 2015 as the assumed grant award date, which is when the effort would begin, and will continue until the proposed projects are completed and final invoices processed (estimated to be six months after the final completion date specified in the grant agreement). The schedule is reasonable because it corresponds with the project schedules and required program invoicing and reporting, as required in previous Proposition 84 Implementation Grant agreements. The schedule is also reasonable because it is consistent with the County's previous grant administration experience.

Task 1: Agreement Administration Agreement Administration will include processing of agreements between the County of Orange and DWR as well as an agreement between the County of Orange as the grant administrator and project proponents following a mid-December award date (12/15/15). Subsequent activity to administer and amend agreements, as necessary, will continue until the last project has been completed; the latest completion date for projects included in the proposal is October 31, 2019. Based upon previous grant administration experience, the County expects this schedule to be accurate.

Task 2: Invoicing The County of Orange will be responsible for compiling and submitting invoices to DWR for all projects contained within the agreement. Based upon previous grant administration experience, the County expects processing of invoices to begin once agreements are in place and after work has begun. Projects included in the proposal will all begin construction or implementation by April 1, 2016, which will serve as the project task start date. Invoicing is expected to be completed six months after completion of all projects contained within the proposal or sooner; October 31, 2019 is the final completion date specified in the grant agreement, resulting in an expected task completion date of April 30, 2020.

Task 3: Project Reports and Project Completion Reports As the grant applicant, the County of Orange will be responsible for compiling and submitting project progress and completion reports throughout the duration and at the conclusion of construction activity. Quarterly report activities will begin on the April 1, 2016 project start date indicated by project proponents and required for the grant and conclude approximately six months after conclusion of the final project – April 30, 2020. It is expected based upon previous experience that the final quarterly and annual report will be prepared as projects are completed, and six months will allow adequate time to summarize project results.

II. PROPOSAL SCHEDULE

Attached is the Proposal's overall schedule.

