Attachment 7: Schedule

The proposed schedule is shown on Figure Att7-1. The schedule starts in April 1, 2013 with a proposed end date on June 20, 2014. The project length will be 64 weeks. No environmental permitting is required. We are prepared to start work as soon as a contract with the State has been signed.

Assumptions made for development of the budget in Attachment 6 may not match the schedule because primary Zone 7, HydroMetrics WRI, and LLNL staff have partial commitment to the project due to other responsibilities. The percentage commitment for primary project staff is as follows:

Associate Hydrogeologist	(Zone 7 Water Agency)	25%
Senior Engineer	(HydroMetrics WRI)	33%
Peer Review Modeler	(LLNL)	25%

All other staff will complete their tasks concurrently with the time scheduled for the above personnel.

A total of five meetings are planned. The first two will be stakeholder collaboration meetings, which will be held in May and December 2013. The third meeting will be a peer review meeting in mid January 2014 to discuss the model construction and calibration (Task 2B). The fourth meeting during the last week of February 2014 will be to train Zone 7 staff on setting up and running optimization models (Task 3B). A final meeting will be in June 2012 with DWR to discuss DWR's comments on the report and close out the project.

An extra week has been added to tasks that take place in December to account for the holidays.

Four quarterly reports will be prepared.

Attachment 7 - Schedule

Upgrades, Calibration, and Application of the Groundwater Model for Groundwater and Salt Management in the Livermore Valley Groundwater Basin

ID	Task Name	Duration	Start	Finish
1	**Task 1. Revise and Add Model Features**	**13 wks**	**4/1/13**	**6/28/13**
2	1A. Re-layer Model	13 wks	4/1/13	6/28/13
3	1B. Incorporate Streams, Lakes, and Arroyos	8 wks	4/1/13	5/24/13
4	1C. Update water balance and salt budget through 2012	5 wks	5/27/13	6/28/13
5	**Task 2. Calibrate the Model and Validate Model Code**	**26 wks**	**6/24/13**	**12/20/13**
6	2A. Include New Calibration Data	5 wks	6/24/13	7/26/13
7	2B. Calibrate the Model	19 wks	7/29/13	12/6/13
8	2C. Validate Model Code with Comparison to USGS code	2 wks	12/9/13	12/20/13
9	**Task 3: Model Scenarios with Optimization**	**11 wks**	**12/9/13**	**2/21/14**
10	3A. Develop Baseline Scenario	6 wks	12/9/13	1/17/14
11	3B. Perform Optimization Run	5 wks	1/20/14	2/21/14
12	3C. Run Model Scenarios	5 wks	1/20/14	2/21/14
13	**Task 4. Review, Reporting, and Project Management**	64 wks	4/1/13	6/20/14
14	4A1. Review Calibrated Model	5 wks	12/9/13	1/10/14
15	4A2. Review Draft Model Report	2 wks	4/14/14	4/25/14
16	4B. Produce Model Report (Drafts & Final)	17 wks	2/24/14	6/20/14
17	4C. Project Management	64 wks	4/1/13	6/20/14
18	Meetings	5 wks	5/27/13	6/6/14
19	Quarterly Reports	4 wks	7/1/13	4/4/14

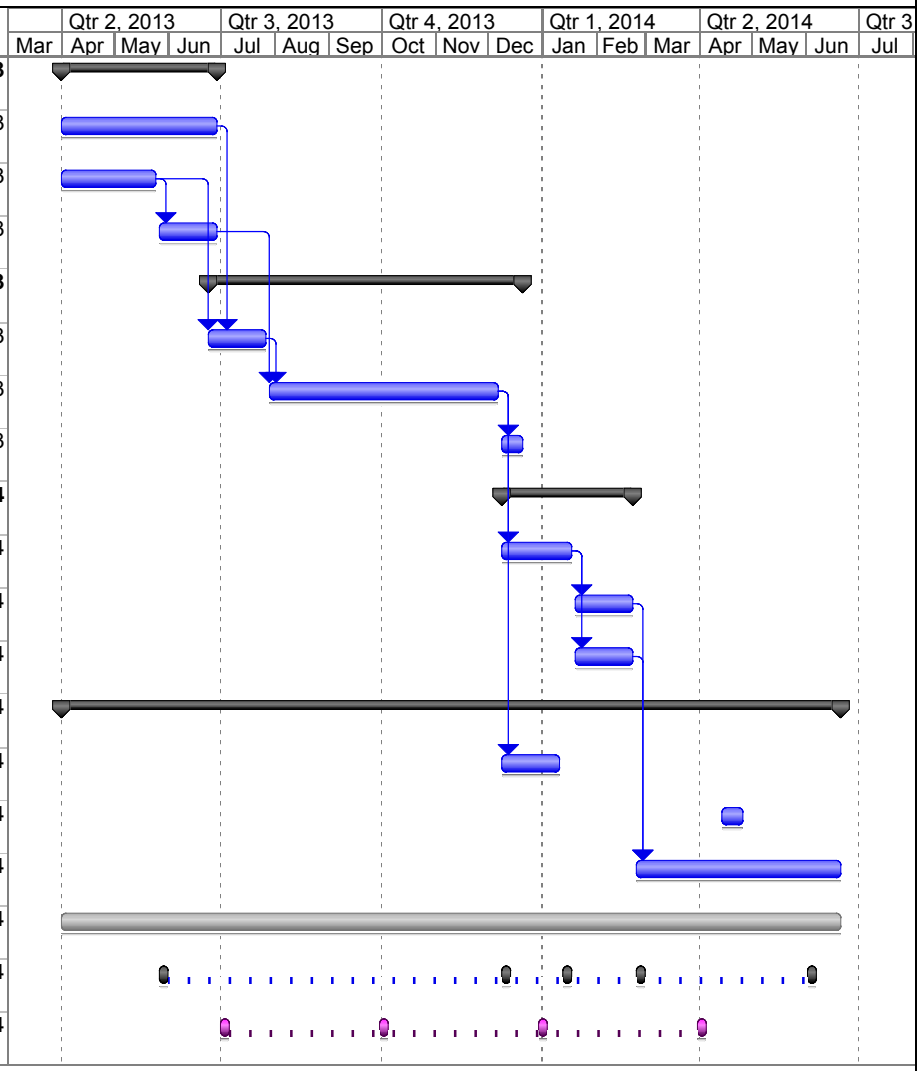

Figure Att7-1: Proposed Project Schedule