M E E T I N G N O T I C E AND A G E N D A

TECHNICAL ADVISORY COMMITTEE
OF THE
SEASIDE BASIN WATER MASTER

DATE: Wednesday, April 11, 2012
MEETING TIME: 1:30 p.m.
Monterey Regional Water Pollution Control Agency Offices
5 Harris Court, Building D (Ryan Ranch)
Monterey, CA 93940

If you wish to participate in the meeting from a remote location, please call in on the Watermaster Conference Line by dialing (877)810-9415. Use the Access Code of 4560043. Please note that if no telephone attendees have joined the meeting by 10 minutes after its start, the conference call will be ended.

OFFICERS
Chairperson: Diana Ingersoll, City of Seaside
1st Vice-Chairperson: Eric Sabolsice, California American Water Company
2nd Vice-Chairperson: Rob Johnson, MCWRA

MEMBERS

California American Water Company | **City of Del Rey Oaks** | **City of Monterey**
City of Sand City | **City of Seaside** | **Coastal Subarea Landowners**
Laguna Seca Property Owners | **Monterey County Water Resources Agency**
Monterey Peninsula Water Management District

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	April 11, 2012
AGENDA ITEM:	2.A
AGENDA TITLE:	Approve Minutes from March 14, 2012
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY:

Draft Minutes from this meeting were emailed to all TAC members. Any changes requested by TAC members have been included in the attached version.

ATTACHMENTS:	Minutes from this meeting
RECOMMENDED ACTION:	Approve the minutes

D-R-A-F-T
MINUTES

Seaside Groundwater Basin Watermaster
Technical Advisory Committee Meeting
March 14, 2012

Attendees: TAC Members

City of Seaside – Rick Riedl
California American Water – Eric Sabolsice
City of Monterey – Norm Green
Laguna Seca Property Owners – Bob Costa
MPWMD – Joe Oliver
MCWRA – Kathy Thomasberg
City of Del Rey Oaks – Richard Simonitch
City of Sand City – Richard Simonitch
Coastal Subarea Landowners – No Representative

Watermaster
Technical Program Manager - Robert Jaques
Chief Executive Officer – Dewey Evans
Administration – Laura Dadiw

Consultants
HydroMetrics – Georgina King (via telephone)

Others:
MCWD – Carl Niizawa
MPWMD – Jon Lear

The meeting was called to order at 1:39 p.m.

1. **Public Comments**

There were no public comments.

2. **Administrative Matters:**
   A. **Approve Minutes from January 11, 2011 Meeting**
   On a motion by Mr. Simonitch, seconded by Mr. Oliver, the Minutes were unanimously approved as presented.

3. **Progress Report on Implementing Changes to the Inputting and Management of Data in the Watermaster Database**

Mr. Jaques summarized the agenda packet materials for this item.

Mr. Simonitch asked if any follow-up sampling had been done with regard to the high chloride levels found in the Sand City Public Works well. Mr. Oliver responded that this well has always been an "outlier." He reported that it was resampled and the resample chloride value was lower than the initial sample chloride value. Mr. Oliver reported that prior CAW wells in this general vicinity also had higher chloride levels before they were abandoned.

Mr. Oliver recommended that this well continue to be monitored, and that this should be done on a quarterly rather than a semi-annual basis.

Mr. Riedl suggested agendizing this matter for further discussion at a future date. Mr. Oliver recommended that this be done in May when the next data will be available.

Mr. Lear suggested that how the well was completed also be examined and reported on. Ms. King offered to assist Mr. Lear and Mr. Oliver in this matter. Mr. Oliver said he would coordinate with CAW to see if water quality data from their abandoned wells would be available.

Ms. King said that the 2011 Production data appears to be distorted on the web site. Mr. Jaques said he would look into this and have the problem corrected.

Mr. Riedl asked if a hit counter was in operation on the web site. Mr. Jaques said he believed that one was, but his experience was that it was not possible to tell exactly what the visitor to the web site was interested in based on the information provided by the hit counter.

4. Update on Coastal Water Project

With Mr. Sabolsice gave an oral update on the Coastal Water Project. He reported that on April 23rd CAW must file an application with the Public Utilities Commission for an Order to move forward with a new project. CAW is currently meeting with entities to select the best component or components to be included in the recommended project. He said that tonight there well be a public meeting with CAW, MPWMD, MRWPCA and others to discuss various proposals. There will be break-out groups for more detailed discussions.

He said that CAW is still evaluating options, which include ASR, GWR, and desalination. The size of the desalination plant will be influenced by how much water can be reliably supplied by the two other sources.

CAW estimates it will take approximately one year for this process to be completed. One specific project must be proposed, not multiple possible projects, but the one project may include multiple components.

Mr. Costa asked Mr. Sabolsice what the role would be of the recently formed Mayors Joint Powers Authority. Mr. Sabolsice responded that they could speak with a collective voice on behalf of the cities, conduct technical reviews, and provide other input. Their long-term role is still evolving.

Mr. Riedl asked Mr. Sabolsice if CAW could proceed "at risk" prior to Public Utilities Commission approval. Mr. Sabolsice responded yes, but that this was not the recommended course of action.

Mr. Riedl asked if the public could help expedite the project, so it would not be overly delayed. Mr. Sabolsice responded that public support would be very helpful.

Mr. Costa asked Mr. Sabolsice if there was any way the project could get completed by 2016. Mr. Sabolsice said the schedule is currently being developed with the objective of having the project completed by December 2016, which is when a major cutback in CAW's taking of water from the Carmel Basin must occur.

Mr. Sabolsice then posed the question of whether the Watermaster should go to the Judge and ask to allow well owners to continue pumping for an additional three to four years at current Operating Yield levels without imposing further triennial reductions, since seawater intrusion has not yet been experienced or detected in the Seaside Groundwater Basin. If the Judge were willing to grant such a

request, the severe conservation and rationing that will otherwise have to be imposed could be reduced in severity. Mr. Sabolsice suggested that the TAC consider this and potentially make a recommendation to the Board on this matter.

Mr. Sabolsice encouraged TAC members to go to the public forum that will be held tonight at the Oldemeyer Center in Seaside.

5. Further Discussion of Issues Pertaining to Obtaining Water to Help Replenish the Seaside Basin

Mr. Jaques summarized the agenda packet materials on this item.

Mr. Sabolsice suggested that if a project was deemed to be "not viable" then no further discussion would be needed on that project.

With regard to the diversion of Salinas River water to help replenish the Seaside Basin, Mr. Riedl asked if diversion of water for this purpose could occur during a part of the season when the Ground Water Replenishment Advanced Water Treatment Plant and pipeline were not operating at full capacity. Mr. Jaques pointed out that MRWPCA had said in its response on this matter that its Advanced Water Treatment Plant would be operating at full capacity, so treating further quantities of water would require a larger treatment plant.

With regard to hydraulically connecting the Nacimiento and San Antonio reservoirs, there were no comments or discussion.

With regard to examining the Blanco Drain and the Salinas Industrial Ponds as possible additional sources of water, there were some questions and answers with regard to the Ground Water Replenishment Project (GWRP) and the Blanco Drain/Salinas Industrial Pond issues, and how these would benefit the Seaside Basin. It was noted that the Watermaster could potentially purchase GWRP water, if it became available, by collecting replenishment assessment monies from CAW. Mr. Sabolsice said that CAW wants to diversify the sources of water as it develops its proposed project to present to the Public Utilities Commission.

Mr. Riedl asked why the decision had been made not to simultaneously implement projects in order to avoid confusion, as noted in the MCWRA information provided on page 15 of the agenda packet. Ms. Thomasberg responded by providing some background information, but said she would need to discuss the matter further with Mr. Johnson in order to be able to provide a more definitive answer.

With regard to examining the MPWMD's projects, Mr. Green asked about the status and financing for the proposed desalination plant at the Naval Postgraduate School site in Monterey. Mr. Oliver responded that this project was only in the early planning stages at this point. There were some questions and answers on various aspects of this project. Mr. Oliver said that financing would probably be via bond sales, but that a financing plan had not yet been developed.

Mr. Green suggested that another concept that could be considered would be to treat water from Lake El Estero to help reduce seawater discharges from the city of Monterey, while also providing an additional water source for treatment and potential benefit to the Seaside Basin. There was consensus to have Mr. Green make a presentation on this at a future TAC meeting.

Ms. Thomasberg said that another concept would be to see if the substantial flow of seawater going into and out of the Monterey Bay Aquarium could potentially be used as a water source for treatment through a desalination plant. Mr. Simonitch reported that the proposed Ocean Plaza hotel project on Cannery

Row had planned on using its own desalination system with a tie-in to the Monterey Bay Aquarium's facilities.

Mr. Riedl asked how much water would be supplied through the phase 2 ASR project. Mr. Oliver and Mr. Lear responded that the full Phase 2 project would produce approximately 1,040 acre feet per year. The Phase 1 project currently produces approximately 920 acre feet per year. So the total amount that would be produced by the combined Phase 1 and Phase 2 projects would be approximately 1,960 acre feet per year. Mr. Sabolsice said there are some infrastructure limitations within CAW's distribution system that would need to be overcome in order to utilize flows that large.

Mr. Oliver said that the current RWQCB/SWRCB Orders require that all Carmel Basin water that goes into the Seaside Basin must be taken out and used to meet demands, and not left in the basin. Therefore ASR currently provides only a transitory, not a long-term, benefit to the Seaside Basin. Mr. Lear said that if a source of water other than the Carmel Basin was available, the Phase 2 ASR wells could potentially be used for replenishment purposes, and the water would not have to be withdrawn. This could provide a long-term benefit to the Seaside Basin.

Mr. Riedl asked Mr. Oliver what the potential likelihood was for implementation of the various MPWMD projects. Mr. Oliver responded that this varied between the projects.

6. Schedule

Mr. Jaques summarized the agenda packet materials for this item He asked Mr. Lear if he would be able to provide a report on the findings from his cross-aquifer contamination evaluation of the coastal wells, and Mr. Lear responded that he would like to do that at the May TAC meeting.

7. Other Business

Mr. Sabolsice asked if there are any other evaluations the Watermaster could be conducting to help benefit the Seaside Basin. For example, if the current pumping levels were continued until approximately 2017 without the triennial ramp-downs required by the Decision, could we determine what effect this would have on water levels. Ms. King responded yes, that the model could analyze this scenario, but we still would not know when/if seawater intrusion would occur. The Watermaster sentinel wells monitor the Santa Margarita aquifer.

Mr. Riedl asked about overpumping inland and piping this water to coastal wells to be injected in order to build a seawater intrusion barrier. Mr. Sabolsice said he would prefer to see what happens to water levels if pumping at current levels were continued. If results looked promising, the TAC could recommend to the Board to ask the Judge to relax the 10 percent ramp-down requirement in order to provide some additional time to implement the Coastal Water Project.

Mr. Sabolsice said that harm is currently actually being seen in the Carmel Basin, whereas currently no harm is being seen in the Seaside Basin. That would be the basis for making such a request. There was discussion of potentially doing additional monitoring to provide an increased level of comfort in conjunction with making this request.

Mr. Riedl also suggested consideration be given to producing a new baseline for modeling which reflects the producers who do not currently pump not pumping, for example Granite Rock and Security National Guarantee. This could then be used as the new baseline to run the model. He suggested exploring building a groundwater mound along the coast by overpumping from inland wells and injecting this water into coastal wells. Mr. Sabolsice said that this would have high costs because of the infrastructure that would have to be constructed in order to do this, and that such a project would only be needed as an interim project, not a long-term project.

There was discussion of whether or not two scenarios need to be included in the proposed model run, one in order to see the effects of using the new baseline suggested by Mr. Riedl, and one to then see the effects of continuing pumping at current Operating Yield levels as suggested by Mr. Sabolsice.

Ms. King said that before proceeding she would like to have a meeting to confirm all of the assumptions that would be used in running the model. Mr. Jaques will obtain a scope of work and cost proposal from HydroMetrics and provide this to the TAC for review and finalizing at the next TAC meeting.

Mr. Riedl asked Mr. Evans if the ramp-down could be less than 10 percent in view of the in-lieu replenishment benefit from the Seaside golf courses using water from MCWD's system. Mr. Jaques said the Watermaster staff could evaluate this and report its findings to the TAC at its next meeting. Mr. Sabolsice recommended not pursuing this at this time and awaiting further direction before doing so, if at all.

Ms. King requested an agenda item for presentation on the Salt and Nutrient Management Plan that is being developed for the Seaside Basin. HydroMetrics has been hired by MPWMD to prepare this plan. Mr. Lear will be the project manager for the Seaside Basin portion of the plan. Stakeholders need to be identified, and data needs to be obtained. Mr. Riedl asked for ample lead-time to be provided for any requests made to the City of Seaside to provide data for this purpose.

8. Set Next Meeting Date

The next meeting date was set for Wednesday April 11, 2012 at 1:30 p.m. at the MRWPCA Board Room

The meeting was adjourned by Chair Sabolsice at 3:48 p.m.

SEASIDE BASIN WATER MASTER TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	April 11, 2012
AGENDA ITEM:	3
AGENDA TITLE:	Discussion of a Proposed Request to be Made to the Court Seeking a Temporary Suspension of Triennial Pumping Reductions
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY:

Background: At the March 14, 2012 TAC meeting there was a proposal made by Chair Sabolsice to consider seeking a temporary suspension of the triennial pumping reductions required by the Decision. The purpose of this suspension would be to lessen the impacts of potential severe water rationing and water conservation measures that could be imposed on users within the California American Water (CAW) system in their Monterey District, if the time schedule in the Cease and Desist Order (CDO) issued by the SWRCB regarding the amount of water that CAW can withdraw from the Carmel River Basin cannot be met.

Required Reductions in Carmel River Water Diversions: Under the CDO, which is SWRCB Order WR 2009-0060, issued in October 2009, by WY 2016, a total of 9,318 AF of water diversions from the Carmel River by CAW would be allowed, which is about a 17% reduction (1,967 AF) from the 11,285 AF annual Carmel River diversions that had been allowed until October 2009. By WY 2017, CAW diversions may total only 3,376 AFY, which is its defined legal water right. This is a 70% (7,909 AF) reduction as compared to the 11,285 AFY allowed until late 2009.

Potential Impacts on Users: If these reductions in water diversion are not met by the water conservation measures currently in effect (Stage 1 of MPWMD's *Expanded Water Conservation and Standby Rationing Plan*) and other measures being taken by CAW, then more severe water rationing and water conservation measures will have to be imposed to reduce CAW's take of water from the Carmel River Basin to the maximum extent possible. Depending on a number of conditions and circumstances, Stage 5 of MPWMD's Plan might need to be imposed. This would essentially have these impacts on users: For single-family residential use, there would be a usage limit of 70 gallons per day per person, regardless of the size of the home or landscaping, and multi-family residential users (apartment dwellers) would receive a ration of 45 gallons per day per person. Commercial businesses, public uses and golf courses would also be required to reduce their use to meet the reduction goals. In addition to these impacts under the MPWMD Plan, there could be a moratorium on Water Permits for new construction and remodels, and fines could be levied by the State if pumping limits are exceeded.

Triennial Pumping Reductions Imposed by the Seaside Basin Adjudication Decision: The Decision adjudicating the Seaside Basin requires that there be a 10% reduction in pumping by Standard Producers (which includes CAW) every three years until the 3,000 AFY "natural safe yield" of the Seaside Basin is achieved. These 10% reductions amount to 560 AFY every three years.

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

AGENDA ITEM:	3 (Cont'd)

Rationale for Making a Request to Temporarily Suspend Triennial Reductions in Pumping from the Seaside Basin: To date no evidence of seawater intrusion, or even the imminent onset of seawater intrusion, has been detected in the Seaside Basin. However, in the Carmel River Basin, evidence of adverse impacts from current levels of water diversion from the River has been documented. Thus, there exists a current condition in the Carmel River Basin which requires that water diversions be reduced, whereas in the Seaside Basin no such condition currently exists. Temporarily suspending the 10% pumping reductions in the Seaside Basin would help to reduce the adverse impacts of water rationing and water conservation measures that may have to be imposed while CAW implements a project to reduce its Carmel River Basin diversions to comply with the CDO,

The TAC is encouraged to discuss the proposal of seeking a temporary suspension of the 10% pumping reductions, and if it determines that such a request should be made to the Court, to make that recommendation to the Watermaster Board.

Related to this Agenda Item is Agenda Item No. 4 which pertains to performing groundwater modeling of the Seaside Basin to evaluate the impacts of a temporary suspension of the 10% pumping reductions. Such an evaluation could be used to support the request to the Court.

ATTACHMENTS:	None
RECOMMENDED ACTION:	Determine whether or not to recommend to the Board that a request be made to the Court seeking a temporary suspension of triennial pumping reductions

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	April 11, 2012
AGENDA ITEM:	4
AGENDA TITLE:	Consider Request for Service with HydroMetrics to Perform Groundwater Modeling
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY:

If the TAC determines, under Agenda Item No. 3, to recommend to the Board that the Court be asked to temporarily suspend the triennial pumping reductions required by the Decision, it is likely that such a request would need to be supported by evidence indicating that doing so will have little if any short-term impact on the Seaside Basin. Groundwater modeling will provide information on the impacts of both (1) using a new baseline pumping scenario based on actual, not Decision-allowed, pumping rates (as discussed at the March 14, 2012 TAC meeting), and (2) temporarily suspending the triennial pumping reductions.

Attached is RFS No. 2012-03 for HydroMetrics to perform this modeling work. This work was not included in the FY 2012 Budget, but there is sufficient funding within the Contingency line item in the M&MP Operations Budget to cover these costs. Georgina King of HydroMetrics will be available at today's TAC meeting via telephone conference connection to respond to any questions regarding the scope of work and costs to perform this modeling.

There is considerable cost involved in doing this work, and there is no assurance that the Court will approve the request, even if the work is performed to provide support for the request. Another approach would be to first make the request to the Court to temporarily suspend the triennial pumping reductions <u>if</u> groundwater modeling shows that doing so will have little to no impact on the Seaside Basin. While there is no assurance that the modeling work would find that there is little to no impact on the Basin by temporarily suspending the pumping reductions, using this approach would at least ensure that the Court was receptive to the request before expending funds to perform the modeling work.

On a related matter, MRWPCA has requested the Watermaster to have HydroMetrics perform certain modeling work in support of MRWPCA's development of a project level EIR for its Groundwater Replenishment Project. If that work were authorized by the Watermaster, it would be on the condition that MRWPCA pay the costs of having the work performed, and MRWPCA has already stated it willingness to do so. Some of that work may overlap with the work described in RFS No. 2012-03, so it may be desirable to integrate the work into a single authorization to HydroMetrics, with the Watermaster and MRWPCA paying for their respective portions of the work. As more detail on the MRWPCA request is developed, a decision can be made about consolidating the work.

ATTACHMENTS:	RFS No. 2012-3 for HydroMetrics to perform groundwater modeling work
RECOMMENDED ACTION:	If the TAC determines, under Agenda Item No. 3, to recommend seeking a temporary suspension in the triennial reductions, provide direction regarding recommending Board approval of RFS No. 2012-3

SEASIDE BASIN WATERMASTER
REQUEST FOR SERVICE

DATE: May 2, 2012

RFS NO. 2012-03
(To be filled in by WATERMASTER)

TO: Derrik Williams
HydroMetrics LLC
PROFESSIONAL

FROM: Robert Jaques
WATERMASTER

Services Needed and Purpose: Perform groundwater monitoring as described in Attachment 1.
Completion Date: All work of this RFS shall be completed not later than 60 days from the date of execution of this RFS No. 2012-03.

Method of Compensation: Time and Materials (As defined in Section V of Agreement.)

Total Price Authorized by this RFS: $30,780.00 (Cost is authorized only when evidenced by signature below.) (See Attachment 1 for Estimated Costs).

Total Price may not be exceeded without prior written authorization by WATERMASTER in accordance with Section V. COMPENSATION.

Requested by: _____ Date:_____.
WATERMASTER Technical Program Manager

Authorized by: _____ Date:_____.
WATERMASTER Chief Executive Officer

Agreed to by: _____ Date:_____.
PROFESSIONAL

ATTACHMENT 1

SCOPE OF WORK AND COST PROPOSAL FROM HYDROMETRICS

519 17th Street, Suite 500
Oakland, CA 94612

Mr. Robert S. Jaques, Technical Program Manager
Seaside Basin Watermaster
83 Via Encanto
Monterey, CA 93940

April 3, 2012

Subject: Scope and Cost Estimate to Model Sustaining Standard Producer Pumping at 2011 Volumes

Dear Mr. Jaques:

HydroMetrics Water Resources Inc. is pleased to submit this scope and cost estimate for modeling the effects from sustaining Seaside Basin Standard Producer's production at 2011 levels from Water Year 2012 through Water Year 2017. The purpose of the modeling work is to evaluate impacts to Seaside Basin groundwater levels over the short-term, if the Decision-mandated triennial reduction is not implemented from Water Year 2012 through 2017.

Our scope includes providing professional consulting services to the Seaside Groundwater Basin Watermaster for preparing and running a revised baseline scenario and a new model scenario that keeps Standard Producers production at 2011 levels from Water Year 2012 through Water Year 2017.

Task 1. Develop and Run Revised Baseline Scenario

The Seaside Groundwater Basin Watermaster has requested that a Revised Baseline Scenario be modeled reflecting historical pumping rather than the maximum amount any water rights holder could pump. Any baseline model that begins in Water Year 2012 requires use of a calibrated model through 2011. To avoid the need for a full update of the calibrated model, which is only calibrated through December 2008, the Revised Baseline Scenario period will remain the same as the previous baseline period: from 2009 through 2030. The

following two changes to the baseline scenario will allow us to develop the requested new baseline scenario:

1. The Revised Baseline Scenario will be updated to reflect the actual hydrology since the model was completed, i.e., from 2009 to present. For months beyond the present, the same hydrology as the previous baseline will be used.
2. The Revised Baseline Scenario will use reported pumping data for all producers in the groundwater basin from 2009 through 2011. The previous baseline scenario assumed that producers with water rights who were not currently pumping would exercise their right to pump in the future. The Revised Baseline Scenario assumes these producers will not exercise their right to pump in the future, but will instead pump at their 2011 levels. Pumping data from Water Year 2012 to 2030 will reflect Decision-mandated triennial reductions for Standard Producers and keep the other producers' production at 2011 amounts.

After the baseline revisions have been made, the model will be run and outputs generated for tabular and graphical representation.

Task 2. Prepare and Run 2011 Pumping Scenario

The 2011 Pumping Scenario will maintain all Standard Producers' at their 2011 pumping rates through Water Year 2017. All other producers will pump their 2011 Decision-mandated amounts for the full simulation, which goes to 2030. This will simulate not implementing the triennial reduction for Standard Producers until September 2017. After this date, pumping will revert back to triennial reductions for Standard Producers. All other producers will pump their 2011 rates for the full simulation. Specific assumptions that are needed to finalize this scenario will be discussed and agreed to at the first meeting called out in Task 3.

After the scenario has been prepared, the model will be run and outputs generated for tabular and graphical representation of basin-wide impacts to groundwater levels. The Revised Baseline Scenario will be compared against this scenario to assess differences in the impacts to wells and protective elevations between these two scenarios.

Task 3. Meetings

The budget includes time for two meetings. The first meeting will be used to discuss and reach agreement on all the assumptions that will be made in setting up the Revised Baseline Scenario and the 2011 Pumping Scenario. The second meeting will be used to present the final results to the TAC.

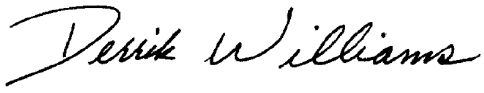
Task 4. Reporting

Model assumptions, descriptions of the Revised Baseline Scenario and the 2011 Pumping Scenario, and model results will be summarized in a brief technical memorandum. A draft of the technical memorandum will be provided electronically to the Watermaster's Technical Program Manager in MS Word format for presentation and discussion with the Technical Advisory Committee (TAC) at the second meeting mentioned in Task 3. A final version of the Technical Memorandum, reflecting comments and issues raised by the Technical Program Manager and the TAC will be provided electronically to the Technical Program Manager in MS Word format.

The estimated cost for the work discussed is $30,780, as shown on the attached table.

The TAC should take into account that future model runs may require that the model be updated and re-calibrated. Recalibration is not necessary for the work included in this proposal. However, for future work on predictive modeling scenarios, it may be technically more sound to use a recalibrated, updated model and to start the predictive simulation at the end of the updated calibrated model.

Sincerely,



Derrik Williams, President
HydroMetrics Water Resources Inc.

Cost Esimate for Seaside Groundwater Basin Watermaster
Professional Services to Model Sustaining Standard Producer Pumping at 2011 Volumes

Tasks	HydroMetrics WRI Labor				Other Direct Costs	TOTALS
	Derrik Williams	Georgina King	Labor Total			
	Program Manager	Senior Hydrogeologist				
Rates	$190	$160	Hours	($)	($)	($)
Task 1. Develop and Run Revised Baseline Scenario						
1A. Compile All Seaside Basin Pumping from 2009 to 2011	2	8	10	$ 1,660	$ -	$ 1,660
1B. Update Model Hydrology	30	24	54	$ 9,540	$ -	$ 9,540
1C. Run Model and Produce Tabular and Graphical Output	10	8	18	$ 3,180	$ -	$ 3,180
Subtotal Task 1			***82***	***$ 14,380***	***$ -***	***$ 14,380***
Task 2. Develop and Run 2011 Pumping Scenario						
2A. Update Standard Producer Pumping	2	2	4	$ 700	$ -	$ 700
2B. Run Model and Produce Tabular and Graphical Output	10	16	26	$ 4,460	$ -	$ 4,460
Subtotal Task 2			***30***	***$ 5,160***	***$ -***	***$ 5,160***
Task 3. Meetings						
Assume Two Meetings - One to Discuss Model Assumptions, One to Present Model Results	8	20	28	$ 4,720	$ 200	$ 4,920
Subtotal Task 3			***28***	***$ 4,720***	***$ 200***	***$ 4,920***
Task 4. Reporting						
Prepare Technical Memorandum describing Scenarios and Modeling Results	8	30	38	$ 6,320	$ -	$ 6,320
Subtotal Task 4			***38***	***$ 6,320***	***$ -***	***$ 6,320***
TOTAL			***178***	***$ 30,580***	***$ 200***	***$ 30,780***

Notes

Other Direct Costs includes mileage, postage, office supplies

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	April 11, 2012
AGENDA ITEM:	5
AGENDA TITLE:	Consider Submitting an Application for a Grant Under the Local Groundwater Assistance Grant Program
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY:

Bob Costa alerted me to a grant program that may be beneficial to the Watermaster. It is called the "Local Groundwater Assistance Program" and is administered by the State Department of Water Resources (DWR). The attached "Description of the Local Groundwater Assistance Grant Program" contains information from DWR's website about this program.

With regard to the Eligibility Requirements mentioned in the attachment, only the types of entities described in Section 10701(a) of the California Water Code are eligible to apply for a Grant. That Code section states: "10701. (a) As used in this part, "local agency" means any city, county, district, agency, or other political subdivision of the state for the local performance of governmental or proprietary functions within limited boundaries." I spoke with DWR's contact person for the LGA Grant Program and he informed me that he was not aware of any Watermasters in California that had applied for, or had been deemed eligible to apply for, an LGA Grant. However, he said that DWR would be receptive to an application that was filed by an eligible member of a Watermaster, such as a city or a district, and which listed the Watermaster itself as the "project proponent." Under such an application, the Grant, if awarded, would be made to the applying entity, but the funds could be used to reimburse the Watermaster for carrying out the project for which the grant application had been made.

With regard to the Groundwater Management Plan requirement listed in the attachment, it may be that plans already developed by the MPWMD, or the Basin Management Action Plan developed by the Watermaster, could fulfill this requirement. This would need to be investigated if a decision is made to pursue getting a grant.

Since there are many Watermaster activities that would appear eligible for grant funding, this item has been placed on the agenda to solicit discussion and possible direction from the TAC regarding having the Watermaster pursue applying for a grant. Some such activities include evaluations associated with MRWPCA's proposed Groundwater Replenishment Project, possible installation of an additional monitoring well, adding dataloggers to existing monitoring wells, and making improvements to the groundwater model developed for the Watermaster by HydroMetrics.

ATTACHMENTS:	Description of the Local Groundwater Assistance Grant Program
RECOMMENDED ACTION:	Provide direction to Technical Program Manager regarding submitting an application for a grant under this Program

Description of the Local Groundwater Assistance Grant Program

Overview. This program in intended to provide financial assistance for projects designed to improve groundwater management and knowledge of various groundwater basins throughout the state. The maximum amount of any single grant is $250,000, and there is no local cost share requirement, unless the cost of the project exceeds the $250,000 amount. The table below provides examples of eligible project topics. The examples on this list are not inclusive and other projects will be considered provided they fall into the scope of CWC Section 10795.4, which is to perform groundwater studies, monitoring, or management activities. Pure research and major construction projects, such as a water supply well, typically do not directly fall into the scope of work for this program. Shaded in gray are a number of types of projects that the Seaside Basin Watermaster has been, or may be, involved with.

Example Topics	
Groundwater Studies	• Collect and evaluate data related to groundwater management • Evaluate the potential for natural or artificial recharge or evaluate conjunctive use opportunities • Develop and calibrate a groundwater model to assist in managing groundwater resources • Examine alternative methods of reducing the impact of high water tables • Evaluate the potential to deliver untreated water or treated wastewater for groundwater recharge • Perform aquifer tests • Gather information or perform studies for developing or improving groundwater management
Groundwater Monitoring, Mapping, and Data Reporting	• Develop groundwater level monitoring and reporting program to support participation in the California Statewide Groundwater Elevation Monitoring (CASGEM) Program. • Develop and implement monitoring programs to measure water quality and subsidence • Install monitoring wells, extensometers, or other monitoring devices • Install data loggers in wells at strategic locations • Mapping of groundwater recharge areas
Groundwater Management	• Plan variations in amount and locations of pumping to better utilize the basin storage capacity • Develop or expand a local or regional GWMP • Evaluate alternatives to improve water supply reliability or to protect and improve water quality • Develop local or regional groundwater basin management objectives • Integrate groundwater management with other water management strategies • Well destruction to eliminate potential contaminant conduits

Eligibility requirements. An applicant for an LGA grant must be a local public agency, as defined in CWC 10701(a). Examples of local public agencies include cities, counties, special districts, Joint Powers Authorities (JPA), boards, commissions, other political subdivisions of the State, or local agencies administering a court ordered adjudication of water rights in a subject groundwater basin. Some entities, including some court-appointed water masters, associations, and entities formed under a Memorandum of Agreement (MOA) or Memorandum of Understanding (MOU) may not be considered to be local public agencies.

Groundwater Management Program. All applicants must submit information regarding the status of the GWMP that covers the area in which the proposed project is located. The GWMP need not have been adopted at the time of the application, but a draft of the proposed GWMP, along with the date the GWMP is expected to be adopted, must be provided. An application can even be made to develop a GWMP, if one has not been developed.

Schedule. Projects should be completed within a two year period from the date of grant award. DWR anticipates finalizing its application requirements and making the application package available in May, with applications due probably by mid-summer.

More Information: The DWR website at http://www.water.ca.gov/lgagrant/index.cfm provides more details on the LGA Grant Program.

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	April 11, 2012
AGENDA ITEM:	6
AGENDA TITLE:	Schedule
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY:

As a regular part of each monthly TAC meeting, I will provide the TAC with an updated Consultants Work Schedule of the activities being performed by the Watermaster's consultants and the public entity, MPWMD, which is performing certain portions of the work, and of the Critical Program Milestones Schedule.

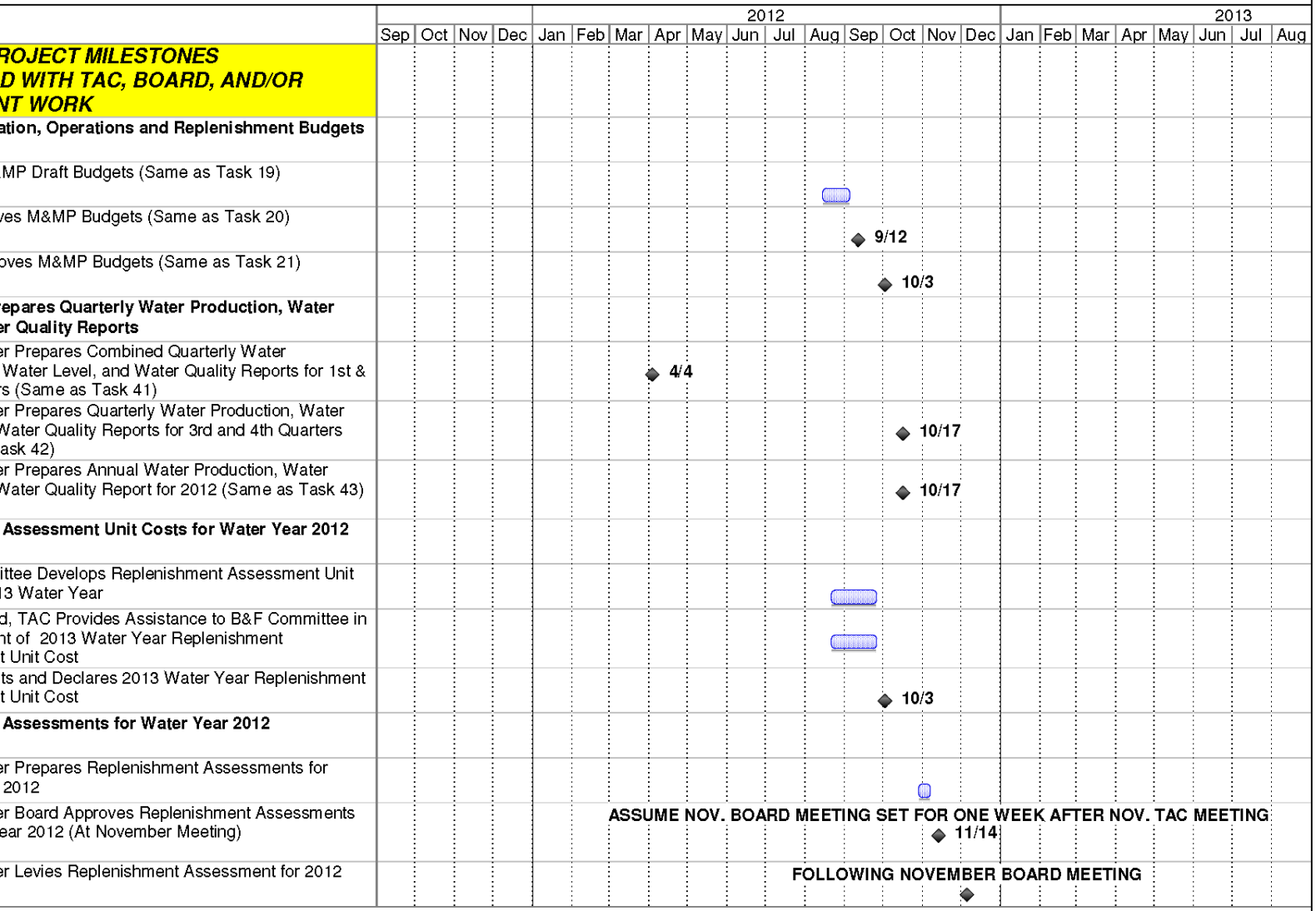
Attached is the Consultants Work Schedule for FY 2012.

Depending on the TAC's action under Items No. 3 and 4 on today's Agenda, the Schedule may be updated to include the groundwater modeling work associated with those items.

ATTACHMENTS:	Schedule of Work Activities for FY 2012
RECOMMENDED ACTION:	Provide Input to Technical Program Manager Regarding Any Corrections or Additions to this Schedule

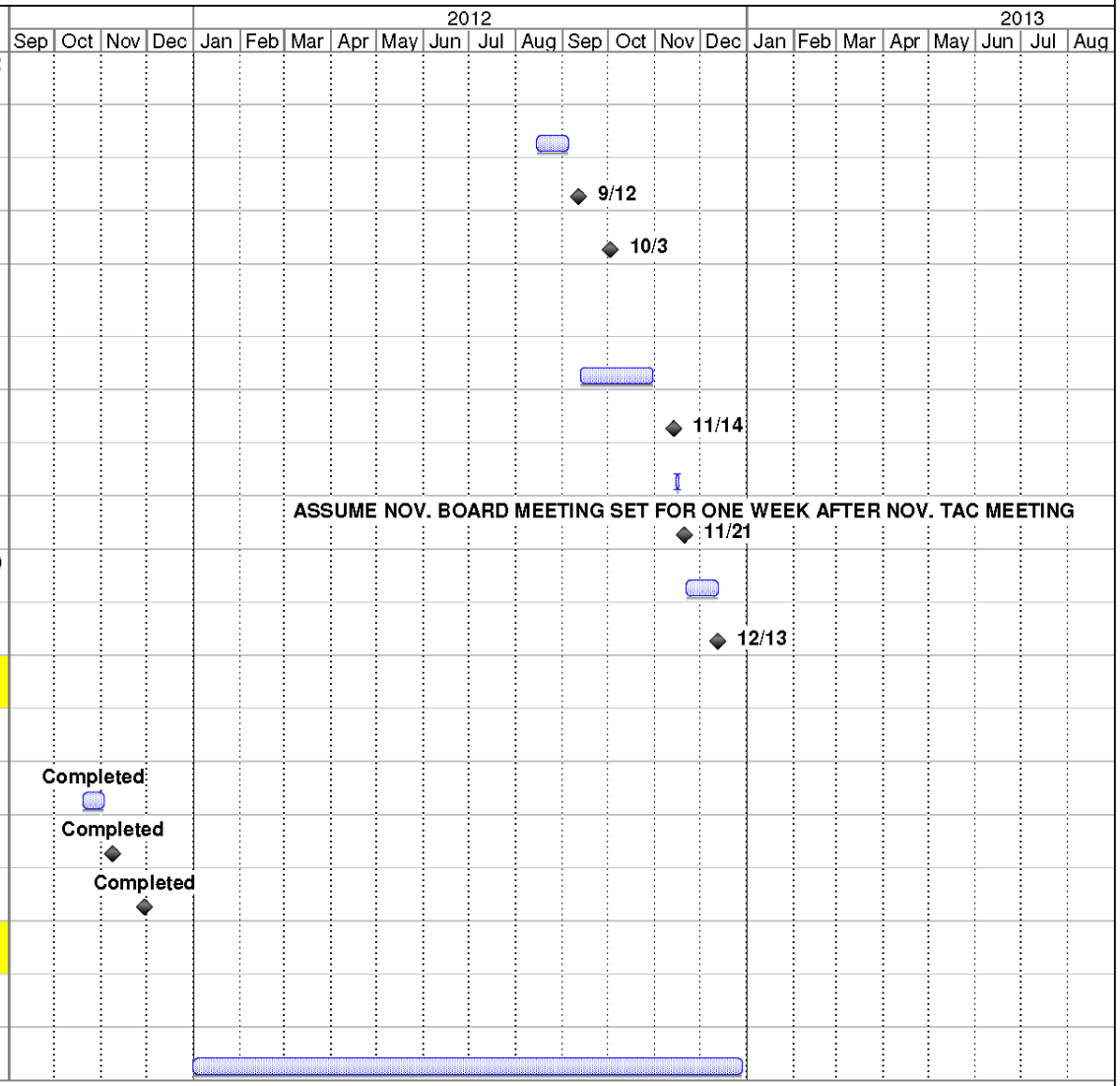
Seaside Basin Watermaster
Monitoring and Management Program
2012 Work Schedule

ID	Task Name
1	***CRITICAL PROJECT MILESTONES ASSOCIATED WITH TAC, BOARD, AND/OR CONSULTANT WORK***
2	**2011 Administration, Operations and Replenishment Budgets**
3	Prepare M&MP Draft Budgets (Same as Task 19)
4	TAC Approves M&MP Budgets (Same as Task 20)
5	Board Approves M&MP Budgets (Same as Task 21)
6	**Watermaster Prepares Quarterly Water Production, Water Level, and Water Quality Reports**
7	Watermaster Prepares Combined Quarterly Water Production, Water Level, and Water Quality Reports for 1st & 2nd Quarters (Same as Task 41)
8	Watermaster Prepares Quarterly Water Production, Water Level, and Water Quality Reports for 3rd and 4th Quarters (Same as Task 42)
9	Watermaster Prepares Annual Water Production, Water Level, and Water Quality Report for 2012 (Same as Task 43)
10	**Replenishment Assessment Unit Costs for Water Year 2012**
11	B&F Committee Develops Replenishment Assessment Unit Cost for 2013 Water Year
12	If Requested, TAC Provides Assistance to B&F Committee in Development of 2013 Water Year Replenishment Assessment Unit Cost
13	Board Adopts and Declares 2013 Water Year Replenishment Assessment Unit Cost
14	**Replenishment Assessments for Water Year 2012**
15	Watermaster Prepares Replenishment Assessments for Water Year 2012
16	Watermaster Board Approves Replenishment Assessments for Water Year 2012 (At November Meeting)
17	Watermaster Levies Replenishment Assessment for 2012

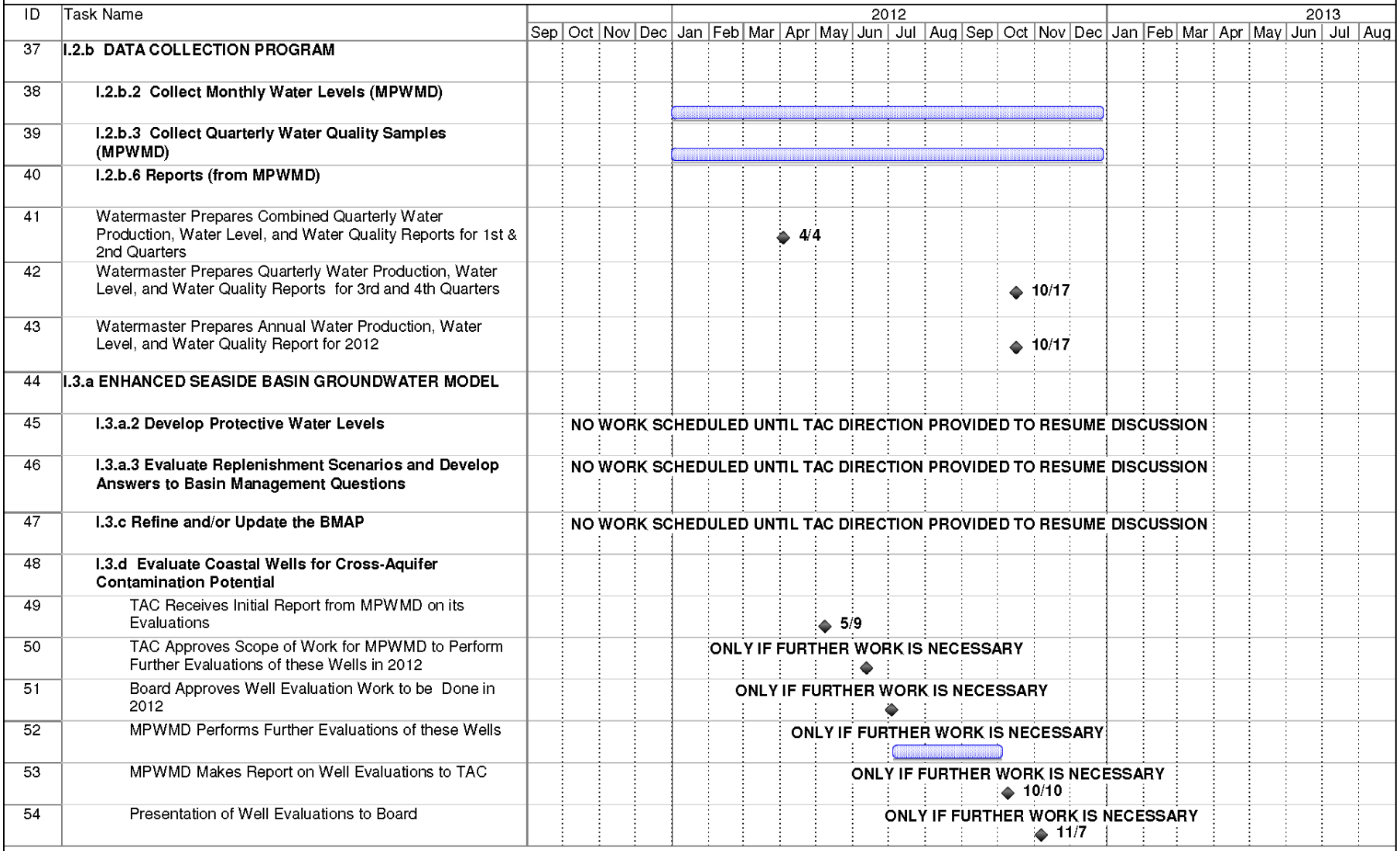


Seaside Basin Watermaster
Monitoring and Management Program
2012 Work Schedule

ID	Task Name
18	**Monitoring & Management Program (M&MP) Budgets for 2012**
19	Prepare Draft 2013 and 2014 M&MP O&M and Capital Budgets
20	TAC approves Draft 2013 and 2014 M&MP O&M and Capital Budgets
21	Board approves 2013 and 2014 M&MP O&M and Capital Budgets
22	**2012 Annual Report (Note: Schedule Reflects Court Approval of Later Submittal Date for Annual Report)**
23	Prepare Preliminary Draft 2012 Annual Report
24	TAC Provides Input on Draft 2012 Annual Report
25	Prepare Revised Draft 2012 Annual Report (Incorporating TAC Input)
26	Board Provides Input on Revised Draft 2012 Annual Report (At November Board Meeting)
27	Prepare Final 2012 Annual Report (Incorporating Board Input)
28	Watermaster Submits Final 2012 Annual Report to Judge
29	***MANAGEMENT***
30	**M.1 PROGRAM ADMINISTRATION (All Work Performed by Watermaster Staff)**
31	Prepare Initial Consultant Contracts for 2012
32	TAC Approval of Initial Consultant Contracts for 2012
33	Board Approval of Initial Consultant Contracts for 2012 (At November Board Meeting)
34	***IMPLEMENTATION***
35	**I.2.a DATABASE MANAGEMENT**
36	**I.2.a.1 Conduct Ongoing Data Entry/Database Maintenance**



Seaside Basin Watermaster
Monitoring and Management Program
2012 Work Schedule



Seaside Basin Watermaster
Monitoring and Management Program
2012 Work Schedule

ID	Task Name	2012																2013							
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
55	**I.4.a HydroMetrics & MPWMD Provide Oversight of Seawater Intrusion Detection and Tracking**																								
56	**I.4.b HydroMetrics Analyzes and Maps Water Quality from Coastal Monitoring Wells**																								
57	**I.4.c Annual Seawater Intrusion Analysis Report (SIAR)**																								
58	HydroMetrics Provides Draft SIAR to Watermaster															11/8									
59	TAC Approves Annual Seawater Intrusion Analysis Report (SIAR)															11/14									
60	Board Approves Annual Seawater Intrusion Analysis Report (SIAR)							ASSUME NOV. BOARD MEETING SET FOR ONE WEEK AFTER NOV. TAC MEETING								11/21									
61	**I.4.d Complete Preparation of Seawater Intrusion Response Plan (SIRP)**					WORK COMPLETED - NO FURTHER WORK PLANNED IN 2012																			
62	**I.4.e Refine and/or Update the SIRP**						NOT NECESSARY																		

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	April 11, 2012
AGENDA ITEM:	7
AGENDA TITLE:	Other Business
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY:
The "Other Business" agenda item is intended to provide an opportunity for TAC members or others present at the meeting to discuss items not on the agenda that may be of interest to the TAC.

ATTACHMENTS:	None
RECOMMENDED ACTION:	None required – information only