

MEETING NOTICE AND AGENDA
TECHNICAL ADVISORY COMMITTEE
OF THE
SEASIDE BASIN WATER MASTER

DATE: Wednesday, February 9, 2011

MEETING TIME: 1:30 p.m.

NOTE DIFFERENT MEETING LOCATION → Monterey Peninsula Water Management District
Offices

5 Harris Court, **Building G** (Ryan Ranch) (**Right next to MRWPCA offices**)
Monterey, CA 93940

If you wish to participate in the meeting from a remote location, please contact Bob Jaques, Technical Program Manager at (831) 375-0517 not later than Tuesday February 8, 2011 to make telephonic arrangements. The usual conference call-in system will not be operating during this meeting.

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	Public Member (Vacant)
Monterey Peninsula Water Management District		

<u>Agenda Item</u>	<u>Page No.</u>
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6. Other Business	
7. Set next meeting date:	
The next regular meeting will be held on Wednesday, March 9, 2011 at 1:30 p.m. at the MRWPCA Board Room	

**SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE**

***** AGENDA TRANSMITTAL FORM *****

MEETING DATE:	February 9, 2011
AGENDA ITEM:	1.A
AGENDA TITLE:	Approve Minutes from January 12, 2011
PREPARED BY:	Robert Jaques, Technical Program Manager
SUMMARY: Draft Minutes from this meeting were emailed to all TAC members. Proposed changes 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
January 12, 2011**

Attendees: TAC Members

City of Seaside – Rick Riedl
California American Water – Eric Sabolsice
City of Monterey – Norm Green
Laguna Seca Property Owners – Bob Costa (departed @ 2:30 p.m. for another
commitment)
MPWMD – Joe Oliver
Public Member – No Representative
MCWRA – Rob Johnson (initially by telephone and then in person)
City of Del Rey Oaks – Dan Dawson
City of Sand City – Richard Simonitch
Coastal Subarea Landowners – No Representative

Watermaster

Technical Program Manager - Robert Jaques

Consultants

HydroMetrics LLC – Georgina King (via telephone)

Others:

MPWMD – Jonathan Lear

The meeting was called to order at 1:35 p.m.

1. Administrative Matters:

A. Approve Minutes from October 13, 2010 Meeting

On a motion by Mr. Johnson, second by Mr. Simonitch, the minutes were unanimously approved as presented.

B. Receive Notes from Gathering of Portion of TAC on November 10, 2010 (No Quorum so no meeting was convened)

This item was received for information only, and there was no discussion or action taken on it.

C. TAC Member Named for Laguna Seca Property Owners

Mr. Costa was welcomed as the Laguna Seca Property Owner's representative to the TAC. No action was taken on this item.

2. Live Demonstration of Database Enhancements

Mr. Oliver provided a live on-line demonstration of the recently made enhancements to the Watermaster's Database and handed out a description of those enhancements taken from the RFS that authorized MPWMD to do this work. He summarized the background of development of the Database. He and Mr. Jaques responded with answers to questions from the TAC.

There was discussion with regard to whether or not it would be worth the time and effort to populate the Database with all of the historical data from prior years.

Mr. Sabolsice said that CAW has its prior years' data in various report formats. Mr. Jaques reported that MPWMD and the Watermaster also have various reports of prior years' data.

Mr. Jaques asked Ms. King if having the historical data in the Watermaster's Database would be important for future BMAP and Modeling work that HydroMetrics will be doing. She responded that the time period covered by the Model ends on December 2008, and the Model has all of the prior data in it up to that date. She said It would be good to input all data thereafter.

Mr. Johnson recommended seeing if the data in HydroMetrics' Model could be electronically transferred into the Watermaster's Database. Ms. King said that HydroMetrics would be glad to help with this process. Production and some water level data is principally what are not currently in the Watermaster's Database, according to Mr. Oliver.

Mr. Sabolsice asked that a proposed scope of work and cost to transfer HydroMetrics' data into the Watermaster's Database be provided for discussion at the next TAC meeting. Mr. Jaques will pursue this.

3. Discuss Timing of Proceeding with Modeling Scenario 2, Updating the Basin Management Action Plan (BMAP), and Refining the Protective Water Levels (PWLs)

Mr. Sabolsice summarized the agenda packet material on this item. He reported that PUC approval of the Regional Water Supply Project has now been received, but that the test wells to determine the salinity of the aquifer from which the desalination plant intake wells would draw their water have not yet been constructed.

Mr. Johnson reported that, barring permitting issues, the test wells are expected to be constructed by approximately June 2011. Mr. Sabolsice said it would be important to obtain data from these wells in order to make proper assumptions for performing the modeling work.

Mr. Johnson and Mr. Sabolsice reported that Coastal Commission permitting will be a major approval issue for both the test well project and the Regional Water Supply Project itself.

Mr. Green asked several questions with regard to O&M costs and institutional arrangements for the Regional Water Supply Project, and Mr. Sabolsice and Mr. Johnson provided responses.

Mr. Sabolsice noted that some of the Regional Water Supply Project EIR information has now been superseded by events occurring subsequent to its preparation, and that this may impact the quantities of water that the Regional Water Supply Project will be able to deliver for the benefit of the Carmel and Seaside Basins.

Ms. King cautioned that the amount of time before sea water intrusion into the Seaside Basin will occur is unknown, and that the longer that part of the Basin remains below Protective Water Levels, the greater the risk of sea water intrusion occurring. She said that HydroMetrics does not expect the Regional Water Supply Project to be able to achieve Protective Water Levels in the Seaside Basin, and that additional water will be needed to accomplish this.

Mr. Johnson said it would probably require three to four months of data collection from the test wells and about one month to evaluate the data before conclusions with regard to the salinity issue could be drawn. Thus it will probably not be possible to have these conclusions developed until October or November of 2011.

Mr. Riedl felt that, since HydroMetrics expects the amount of refinement that the test well data will provide will likely be minor, it would be better not to further delay the modeling work. Mr. Lear said that one approach would be to say the worst-case scenario with regard to the salinity issue would be to

find that 85% sea water is contained in the groundwater, and that the best case scenario would likely be that 95% of the water is sea water. The Scenario 2 modeling could then be conducted for these two conditions to bracket the likely range of possibilities. Mr. Sabolsice noted that if higher than 85% sea water is found to be the case, the desalination plant could potentially produce more water to help restore the Seaside Basin water levels to Protective Water Levels.

In response to a question from the TAC, Mr. Jaques provided cost information, taken from the RFS previously prepared for HydroMetrics, to run the Scenario 2 Model.

Mr. Riedl asked Mr. Sabolsice about his reluctance to run the Scenario 2 Model now. Mr. Sabolsice responded that the cost to run the Model is not the concern. Rather, the concern is ensuring that data is available to develop good assumptions for purposes of running the Model. If the decision were made to proceed with the modeling work now, HydroMetrics could be told to assume certain water quantities to be provided by the Regional Water Supply Project to benefit the Seaside Basin. It might be possible to use some of the salinity trend data taken from the recently installed Sand City desalination wells to help develop the Scenario 2 modeling assumptions.

There was discussion with regard to several topics including the relative cost of Seaside Groundwater Basin water vs. desalination plant water, difficulties involved in operating the desalination plant at varying production levels, and the use of vertical vs. slant wells.

Ms. King recommended doing a "best case" condition for Scenario 2 to see if even under the best case condition Protective Water Levels can be achieved. If Protective Water Levels could not be achieved under the best case condition, this would indicate that additional water would be needed to achieve Protective Water Levels.

Mr. Johnson said that the TAC could propose running the 80% sea water and 95% sea water conditions on just the Protective Water Level wells to bracket the possibilities. Ms. King recommended running just the 95% condition first to see what is learned from that work.

Following this discussion Mr. Sabolsice made a motion to table further discussion on performing the Scenario 2 modeling work, updating the BMAP, and refining the Protective Water Levels (all of the items covered under agenda item No. 3) until the June 2011 TAC meeting. The motion carried with Mr. Riedl dissenting. Mr. Costa was not present at the time this vote was taken.

4. Schedule

Mr. Jaques briefly discussed the 2011 Schedule, and provided a brief update on the upcoming Central Coast Surveyors wellhead survey work which he anticipates putting on the Board's February agenda for approval.

5. Other Business

Mr. Jaques reported on the status of filling the Public Member position on the TAC, and that only one name has thus far been submitted.

Mr. Jaques asked Mr. Sabolsice about the status of CAW's Storage Agreement Application. Mr. Sabolsice responded that Mr. Anthony said he expected the Application to be submitted later this month.

Mr. Riedl asked about progress being made on this year's work with regard to cross-aquifer contamination in the coastal wells. Mr. Lear said that the initial work had been finished last year and that an additional RFS would be needed to perform the next phase of the work. Mr. Jaques said he would work with MPWMD to pursue this. [Note: After the meeting it was found that an RFS authorizing this year's work on this had already been issued, and MPWMD will now schedule that work.]

Mr. Johnson requested that an item be placed on the February TAC meeting agenda to discuss the proposal by Pasadera to use storm water from that project to help replenish the Seaside Basin. Mr. Jaques will put this item on that agenda.

6. Set next meeting date:

The next regular meeting was set for Wednesday, February 9, 2011 at 1:30 p.m. at the MRWPCA Board Room

The meeting adjourned at 3:45 p.m.

**SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE
*** AGENDA TRANSMITTAL FORM *****

MEETING DATE:	February 9, 2011
AGENDA ITEM:	2
AGENDA TITLE:	Discuss Populating of Watermaster Database with Historical Data that is Currently Not in It
PREPARED BY:	Robert Jaques, Technical Program Manager
SUMMARY:	<p>At the January TAC meeting there was discussion regarding populating the Watermaster's Database with data that is not currently in it, but which does exist in other documents. It was agreed that I would look into this with the intention to report on this at today's meeting.</p> <p>On January 27 a meeting was held with me, Joe Oliver, Jon Lear, and Laura Dadiw to discuss this topic.</p> <p>The enhancements that have been made to date have definitely improved the usability and user-friendliness of the Database. However, during the course of that meeting a number of recently discovered difficulties with using the Database, and in being able to make updates to it to account for changing conditions, were reported and discussed.</p> <p>The Database is rather complex, and the issues discussed at the January 27th meeting are complicated. This group is continuing to consider the best ways of addressing those difficulties, and will likely meet again, after some further research has been done, to arrive at a plan that can then be presented to the TAC for its consideration. That presentation will likely be made at the March TAC meeting.</p>
ATTACHMENTS:	None
RECOMMENDED ACTION:	None required – information only

**SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE**

***** AGENDA TRANSMITTAL FORM *****

MEETING DATE:	February 9, 2011
AGENDA ITEM:	3
AGENDA TITLE:	Offer by Pasadera General Manager to Discuss Possible Use of Storm Water Runoff from Pasadera as a Water Source for Helping to Recharge the Seaside Basin
PREPARED BY:	Robert Jaques, Technical Program Manager
SUMMARY:	<p>This topic was originally presented to the TAC at its September 8, 2010 meeting. At that time the TAC determined to defer discussion on this topic until early in 2011, and at its January 12, 2011 meeting determined to conduct that discussion at today's meeting.</p> <p>In the late Spring of 2010 Dean Leonard of Pasadera contacted Dewey Evans to discuss the potential for storm water runoff from Pasadera to be used to help recharge the Seaside Groundwater Basin. Mr. Evans and Mr. Jaques met with Mr. Leonard in mid-June 2010 to see the Pasadera storm water and golf course irrigation facilities. At that meeting Mr. Leonard described these facilities and explained his ideas on this concept.</p> <p>I thanked Mr. Leonard for brining this concept to the attention of the Watermaster. I said that I would discuss this with the TAC and let him know if the TAC would like to have him attend a future TAC meeting to present his ideas in more detail and to respond to TAC questions.</p> <p>The attached paper describes the key elements of the Pasadera facilities, as I understood them from the June meeting with Mr. Leonard, as they pertain to the concept of using storm water runoff from the Pasadera development to help recharge the Seaside Groundwater Basin. The paper also lists some issues that I believe would need to be considered, if the TAC felt that examining this concept further was desirable.</p> <p>TAC input on this concept is invited, along with the TAC's thoughts about having Mr. Leonard present his ideas in more detail at a future TAC meeting.</p>
ATTACHMENTS:	Paper describing Pasadera's water facilities and suggested issues to be considered if the TAC desires to undertake a further examination of the concept of using storm water runoff from Pasadera to help recharge the Seaside Groundwater Basin
RECOMMENDED ACTION:	Provide input to the Technical Program Manager regarding whether the TAC would like to receive a more in-depth presentation from Mr. Leonard on this concept

**PAPER DESCRIBING PASADERA'S WATER FACILITIES
AND SOME ISSUES TO BE CONSIDERED
IF THE TAC DESIRES TO UNDERTAKE A FURTHER EXAMINATION OF
THE CONCEPT OF USING STORM WATER RUNOFF FROM PASADERA TO
HELP RECHARGE THE SEASIDE GROUNDWATER BASIN**

The Pasadera golf course and housing development is served by three separate water facilities, which are used conjunctively to meet the water supply, irrigation, and storm water management needs of the development.

According to website information, the residences at Pasadera consist of a mix of lifestyle options including 55 luxury Golf Villas, 33 Designer Series homes, and 100 Custom Estates. At present there are reportedly a remaining 26 Custom home sites yet to be developed. The golf course is 18-holes and includes a number of water hazards as well as a 38,000 square foot clubhouse with associated amenities.

Domestic Water Supply System

Water for potable domestic uses, and to supplement golf course irrigation water provided by the Recycled Water System, is provided to the development through two wells that are located on the property. In Water Year 2009 the combined production of these two wells, the "Main Gate" and the "New Paddock" wells, was approximately 182 acre-feet. Piping and storage tanks are used to deliver this water throughout the development.

Recycled Water System

Wastewater generated within the development is combined with wastewater from a portion of the adjacent Laguna Seca development and is treated to a tertiary level by an on-site water recycling plant. The treated water is pumped to a storage reservoir at an upper elevation within the development and feeds the golf course's irrigation system. Since there is insufficient recycled water to meet all of the golf course's irrigation needs, this water source is supplemented as necessary with water from the Domestic Water Supply System. Recycled water is rarely used in the winter months, unless it is an extremely dry winter, so there should be little opportunity for recycled water to mix with storm water runoff.

Storm Water System

Storm water runoff from the development, as well as runoff that is received from some adjacent lands that are located at higher elevations (mainly in the former Fort Ord) are conveyed via pipes and open channels to a series of 7 lakes located within the golf course. These lakes serve as aesthetic elements of the golf course, water hazards for the players, and provide some flow equalization for the storm water flows.

The water levels in the lakes are controlled by weirs, the heights of which are adjusted during the year to maintain the desired water levels. Depth of water in the lakes is generally about 7 feet, and the total area occupied by the lakes is about 8 acres. Water from a pond can flow through piping and creeks to the next downstream pond. The furthest downstream pond has a pump station that is used to pump water back up to the highest lake, so there is a continuous flow in the system. In the winter this pond discharges into a creek that runs along Highway 68 and into Del Rey Oaks. Ultimately, this stormwater flows into Laguna Grande and then through Roberts Lake into Monterey Bay.

Seaside Groundwater Basin Recharge Concept

Mr. Leonard suggested that it might be possible to capture the storm water runoff from the Pasadera development and use it to help recharge the Seaside Groundwater Basin. He did not have any actual measurement of the amount of runoff that might be available for this purpose, but described the amount of storm water that comes off of the development during the rainy season as being on the order of hundreds of acre-feet. He also did not have any water quality data on the runoff water.

Mr. Leonard did not feel that there were undeveloped sites available within the Pasadera development where groundwater recharge facilities, such as a percolation pond, could be constructed. He did, however, comment that there is an area to the left of the Pasadera Main Entrance where a large ravine is located. This ravine flows to a lake located on the Laguna Seca Golf Course. He thought it might be possible to raise the water level in this ravine by raising the top elevation of the dam that controls its water level, and thus provide a potential recharge basin for storm water.

He also commented that there was an apparently abandoned well, which he believed had been constructed by Cal Am some years ago, that is either on or adjacent to the development and which he thought might possibly be adapted to serve as an injection well.

Some Issues to Consider Regarding the Feasibility and Practicality of this Concept

1. Is the quantity of stormwater runoff that could be captured for recharge purposes sufficient to warrant pursuing this concept?
2. Is the quality of the runoff water suitable for recharge purposes?
3. Would recharge be feasible using an injection well (or wells) or would percolation or some other recharge method be needed?
4. If a percolation site is needed, and if the site could not be located on Pasadera property, where could it be located?
5. What regulatory and other agency approvals would be necessary to implant a recharge project?
6. Were there any prior commitments made by the Pasadera development, for example when it was going through the permitting and approval process for the original construction of the project, which would impact implementation of this concept?
7. Would there be concerns about the recharge water possibly containing some recycled water that had been used to irrigate the golf course?
8. How would recharge in this location affect groundwater levels and other groundwater characteristics in the Seaside Basin, and would this recharge benefit the Basin?
9. If the runoff was diverted out of the creek to which it currently flows, would there be any adverse impacts, e.g. riparian vegetation, water levels and water quality in Laguna Grande and/or Roberts Lake, etc.

**SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE
*** AGENDA TRANSMITTAL FORM *****

MEETING DATE:	February 9, 2011
AGENDA ITEM:	4
AGENDA TITLE:	Progress Report on Investigation of Potential for Aquifer Cross-Contamination in the Coastal Wells
PREPARED BY:	Robert Jaques, Technical Program Manager
SUMMARY:	<p>A progress report on work being performed by MPWMD to investigate the potential for aquifer cross-contamination in the Coastal Wells was requested at the last TAC meeting. The scope-of-work authorized to MPWMD for this year is attached.</p> <p>Jonathan Lear of MPWMD, who is performing this work, will provide an oral progress report at today's meeting.</p>
ATTACHMENTS:	MPWMD's Scope of Work for this investigation for calendar year 2011
RECOMMENDED ACTION:	None required – informational only

MPWMD will perform the following initial work to further evaluate coastal wells for their potential risk of causing cross-aquifer contamination:

1. **Field verify selected older steel cased wells** – Wells older than 30 years that were constructed with steel casings have been identified. Under this task MPWMD will contact land owners and conduct interviews, conduct site investigations using a metal detector (if appropriate), document the condition of the well head, determine total available well depth, and collect a water level (if possible).
2. **Inspect well logs to assess proper seal placement to isolate aquifers** – Wells that penetrate multiple aquifers but are screened in one can be conduits for cross-aquifer contamination if well seals were not placed adjacent to confining layers between the aquifer units. Under this Task MPWMD will review well logs to determine if surface and/or transition seals are installed, and assessed as to the risk associated with those that do not contain sufficient seals.
3. **Add wells to Watermaster database** – Adding wells identified during the first phase of this investigation will provide the Watermaster with a more complete list of wells known to exist in the basin. If the current well status can be verified (e.g., inactive, destroyed, etc.) they can then be tracked by the database, with the correct current well status. Under this Task MPWMD will add these additional wells to the Watermaster’s database.
4. **Investigate the Santa Margarita – Purisima interface** – Wells constructed with PVC provide the opportunity to collect resistivity information via an induction log. This is of interest because the transition between the Santa Margarita Sandstone and the Purisima Formation is not well understood. Locating PVC constructed wells in the region of the Seaside Basin where the transition between the units is thought to occur and collecting resistivity data will help to better define this boundary, and will provide additional information about current, depth-specific water quality conditions. Under this Task MPWMD will identify and field verify wells that are candidates for induction logging and prepare a list of wells to bring back to the Watermaster.
5. **Investigate video logging of selected wells suspected to be conduits for cross-contamination** – Video logs verify if the well has been compromised and is allowing groundwater flow between aquifer units. Following field verification of wells, under this Task MPWMD will provide a list of wells recommended for video logging. Criteria for selection will be age of well, condition of well head, proximity of well to potential contamination sources (e.g., coastline), and aquifer units penetrated by well.
6. **Identify abandoned wells that are screened in the Santa Margarita** – The Santa Margarita Sandstone is the primary production aquifer for drinking water in the Seaside Basin and is also the target aquifer currently used for Aquifer Storage and Recovery and potential future aquifer replenishment projects. While properly-sealed wells screened solely in the Santa Margarita are not candidates for cross-aquifer contamination, such abandoned wells could provide a direct conduit for pollutants. MPWMD staff believes that to best protect the water resource system these wells should also be identified. Under this Task MPWMD would prepare a list of any such abandoned wells that are identified, and a course of action to conduct any additional work if warranted.

Pertinent information from the above tasks will be prepared in summary tables and figures, along with a brief report.

**SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE**

***** AGENDA TRANSMITTAL FORM *****

MEETING DATE:	February 9, 2011
AGENDA ITEM:	5
AGENDA TITLE:	Schedule
PREPARED BY:	Robert Jaques, Technical Program Manager
SUMMARY:	<p>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.</p> <p>Attached is the Consultants Work Schedule for FY 2011.</p>
ATTACHMENTS:	Schedule of Work Activities for FY 2011
RECOMMENDED ACTION:	Provide Input to Technical Program Manager Regarding Any Corrections or Additions to these Schedules

Seaside Basin Watermaster Monitoring and Management Program 2011 Work Schedule

ID	Task Name	2011												Jan	F													
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug			Sep	Oct	Nov	Dec									
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 Report for 3rd Quarter (Same as Task 42)																											
9	Watermaster Prepares Quarterly Water Production, Water Level, and Water Quality Report for 4th Quarter (Same as Task 43)																											
10	Replenishment Assessment Unit Costs for Water Year 2012																											
11	B&F Committee Develops Replenishment Assessment Unit Cost for 2012 Water Year																											
12	If Requested, TAC Provides Assistance to B&F Committee in Development of 2012 Water Year Replenishment Assessment Unit Cost																											
13	Board Adopts and Declares 2012 Water Year Replenishment Assessment Unit Cost																											

Seaside Basin Watermaster Monitoring and Management Program 2011 Work Schedule

ID	Task Name	2011																
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
14	Replenishment Assessments for Water Year 2011																	
15	Watermaster Prepares Replenishment Assessments for Water Year 2011																	
16	Watermaster Board Approves Replenishment Assessments for Water Year 2011																	
17	Watermaster Levies Replenishment Assessment for 2011																	
18	Monitoring & Management Program (M&MP) Budgets for 2012 & 2013																	
19	Prepare Draft 2012 and 2013 M&MP O&M and Capital Budgets																	
20	TAC approves Draft 2012 and 2013 M&MP O&M and Capital Budgets																	
21	Board approves 2012 and 2013 M&MP O&M and Capital Budgets																	
22	2011 Annual Report (Note: Schedule May be Relaxed if Court Approves Later Submittal Date for Annual Report)																	
23	Prepare Preliminary Draft 2011 Annual Report																	
24	TAC Provides Input on Draft 2011 Annual Report																	
25	Prepare Revised Draft 2011 Annual Report (Incorporating TAC Input)																	
26	Board Provides Input on Revised Draft 2011 Annual Report																	
27	Prepare Final 2011 Annual Report (Incorporating Board Input)																	
28	Watermaster Submits Final 2011 Annual Report to Judge																	

Seaside Basin Watermaster Monitoring and Management Program 2011 Work Schedule

ID	Task Name	2011												2012								
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	F			
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																					
34	IMPLEMENTATION																					
35	I.2.a DATABASE MANAGEMENT																					
36	I.2.a.1 Conduct Ongoing Data Entry/Database Maintenance																					
37	I.2.b DATA COLLECTION PROGRAM																					
38	I.2.b.2 Collect Monthly Water Levels (MPWMD)																					
39	I.2.b.3 Collect Quarterly Water Quality Samples (MPWMD)																					
40	I.2.b.6 Reports (from MPWMD)																					
41	Watermaster Prepares Combined Quarterly Water Production, Water Level, and Water Quality Reports for 1st & 2nd Quarters																					
42	Watermaster Prepares Quarterly Water Production, Water Level, and Water Quality Report for 3rd Quarter																					
43	Watermaster Prepares Quarterly Water Production, Water Level, and Water Quality Report for 4th Quarter																					

Seaside Basin Watermaster Monitoring and Management Program 2011 Work Schedule

ID	Task Name	2011												Jan	F								
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug			Sep	Oct	Nov	Dec				
44	New Task: Resurvey Wellheads and Prepare Subsidence Evaluation																						
45	TAC Provides Direction Regarding Performing a Re-Survey of Wellheads and Preparing a Subsidence Evaluation	Completed																					
46	Technical Program Manager Negotiates Scopes of Work and Costs with Central Coast Surveyors and MPWMD to Perform Re-Survey of Wellheads				[Bar]																		
47	Board Approves Contracts with Central Coast Surveyors and MPWMD to Perform Re-Survey of Wellheads						[Bar]																
48	Perform Re-Survey of Wellheads						[Bar]																
49	Prepare Subsidence Evaluation						[Bar]																
50	TAC Reviews and Provides Input on Subsidence Evaluation											[Bar]											
51	Board Reviews and Provides Input on Subsidence Evaluation											[Bar]											
52	I.3.a ENHANCED SEASIDE BASIN GROUNDWATER MODEL																						
53	I.3.a.2 Develop Protective Water Levels																						
54	TAC Continues Discussion Regarding Refining Protective Water Levels						[Bar]																
55	TAC Continues Discussion Regarding Refining Protective Water Levels											[Bar]											
56	Board Approves Contract with HydroMetrics to Refine Protective Water Levels (Board Deferred Performing this Work to an Unspecified Future Date)																						
57	HydroMetrics Refines Protective Water Levels																						

Seaside Basin Watermaster Monitoring and Management Program 2011 Work Schedule

ID	Task Name	2011												Jan	F												
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug			Sep	Oct	Nov	Dec								
58	HydroMetrics Makes Summary Report to TAC on Refinement of Protective Water Levels																										
59	HydroMetrics Makes Summary Report to Board on Protective Water Levels																										
60	I.3.a.3 Evaluate Replenishment Scenarios and Develop Answers to Basin Management Questions																										
61	TAC Continues Discussion of Issues and Timing Pertaining to Scenario 2 - Regional Water Supply Project Scenario																										
62	TAC Continues Discussion of Issues and Timing Pertaining to Scenario 2 - Regional Water Supply Project Scenario																										
63	Board Approves HydroMetrics Contract to Model Scenario 2																										
64	HydroMetrics Evaluates Scenario 2 - Regional Water Supply Project																										
65	HydroMetrics Makes Summary Report to TAC Regarding Evaluation of Scenario 2																										
66	HydroMetrics Makes Summary Report to Board Regarding Evaluation of Scenario 2																										
67	I.3.c Refine and/or Update the BMAP																										
68	TAC Continues Discussion Regarding Updating the BMAP																										
69	TAC Continues Discussion Regarding Updating the BMAP																										
70	Prepare Contract with HydroMetrics for Updating the BMAP																										
71	TAC Approves Contract with HydroMetrics for Updating the BMAP																										

Seaside Basin Watermaster Monitoring and Management Program 2011 Work Schedule

ID	Task Name	2011												Jan	F													
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug			Sep	Oct	Nov	Dec									
72	Board Approves Contract with HydroMetrics for Updating the BMAP																											
73	HydroMetrics Updates the BMAP																											
74	HydroMetrics Makes Presentation on Draft Updated BMAP to TAC																											
75	HydroMetrics Makes Presentation of Final Updated BMAP to Board and Board Adopts Final Updated BMAP																											
76	I.3.d Evaluate Coastal Wells for Cross-Aquifer Contamination Potential																											
77	TAC Approves Scope of Work for MPWMD to Perform Further Evaluations of these Wells	Completed																										
78	Board Approves Well Evaluation Work to be Done in 2011	Completed																										
79	MPWMD Performs Further Evaluations of these Wells																											
80	MPWMD Makes Presentation of Well Evaluations to TAC																											
81	MPWMD Makes Final Presentation of Well Evaluations to TAC & TAC Determines if Further Work Should be Done in 2011																											
82	If Further Work is Recommended for 2011 Board Approves Contract with MPWMD to Perform this Work																											
83	I.4.a HydroMetrics & MPWMD Provide Oversight of Seawater Intrusion Detection and Tracking																											
84	I.4.b HydroMetrics Analyzes and Maps Water Quality from Coastal Monitoring Wells																											
85	I.4.c Annual Seawater Intrusion Analysis Report (SIAR)																											

Seaside Basin Watermaster Monitoring and Management Program 2011 Work Schedule

ID	Task Name	2011																	
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	F
86	HydroMetrics Provides Draft SIAR to Watermaster																		
87	TAC Approves Annual Seawater Intrusion Analysis Report (SIAR)																		
88	Board Approves Annual Seawater Intrusion Analysis Report (SIAR)																		
89	I.4.d Complete Preparation of Seawater Intrusion Response Plan (SIRP)																		
90	I.4.e Refine and/or Update the SIRP																		

◆ 10/6
◆ 10/12
◆ 11/2

WORK COMPLETED - NO FURTHER WORK PLANNED IN 2011

NOT NECESSARY

**SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE**

***** AGENDA TRANSMITTAL FORM *****

MEETING DATE:	February 9, 2011
AGENDA ITEM:	6
AGENDA TITLE:	Other Business
PREPARED BY:	Robert Jaques, Technical Program Manager
SUMMARY:	<p>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.</p>
ATTACHMENTS:	None
RECOMMENDED ACTION:	None required – information only