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, May 9, 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

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SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	May 9, 2012
AGENDA ITEM:	2.A
AGENDA TITLE:	Approve Minutes from April 11, 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
April 11, 2012

Attendees: TAC Members

City of Seaside – No Representative
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

Consultants
HydroMetrics – Georgina King (via telephone)

Others:
MRWPCA – Bob Holden
MPWMD – Jon Lear

The meeting was called to order at 1:39 p.m. (Mr. Costa was delayed in arriving and arrived at 1:42 p.m., at the start of Agenda Item 3.)

1. **Public Comments**

There were no public comments.

2. **Administrative Matters:**

Approve Minutes from March 14, 2012 Meeting

Mr. Oliver pointed out that there was an error in the date listed under item 2.A in the minutes from the January 11 meeting. The year should have been 2012, not 2011. With that correction made, on a motion by Mr. Simonitch, seconded by Mr. Green, the Minutes were unanimously approved.

3. **Discussion of a Proposed Request to be Made to the Court Seeking a Temporary Suspension of Triennial Pumping Reductions**

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

Mr. Sabolsice suggested going back to the allowed Operating Yield that was in existence prior to the last 10 percent pumping cutback which went into effect on October 1, 2011, and to maintain pumping allowances at that level until approximately October 1, 2017, and to evaluate the impact on Basin water levels of doing this. This would alleviate approximately 2 x 560 = 1,120 AFY of cutbacks, including the cutback scheduled to occur in 2014.

Ms. Thomasberg asked how the judge would likely relate to such a request, and how this would relate to the Cease and Desist order requiring reductions in water diversions from the Carmel River Basin. Mr. Oliver responded that the judge in the Seaside Basin adjudication is only concerned with the Seaside Basin.

Mr. Costa asked Mr. Jaques what conditions needed to be achieved in order to avoid having to impose the 10 percent pumping reductions. In the discussion that ensued the following criteria to be met to avoid a reduction, as set forth in the Adjudication Decision, were described: (1) the Watermaster has obtained an adequate amount of non-native water and is adding it into the Basin on an annual basis, (2) the Watermaster has secured reclaimed water and producers are in the process of utilizing that water in lieu of their production allocations in an amount equal to or greater than the 10 percent reduction quantities, (3) any combination of 1 and 2 that achieves the equivalent of the 10 percent reductions, or (4) the Watermaster has determined that water levels within the aquifers are high enough to prevent seawater intrusion.

Mr. Jaques went on to say that unless the Natural Safe Yield level is reached, water levels will continue to fall, even if replenishment water and/or reduced pumping occurs. Ms. King concurred with this assessment and noted that water levels would typically take years to rise to protective levels.

There was discussion with regard to pumping impacts on water levels and how to distribute the pumping within the Basin when running the groundwater model.

Ms. Thomasberg asked Mr. Sabolsice if CAW could redistribute its pumping. He responded that he would have to check with his Operations Supervisor, but that any redistribution would be limited. Mr. Oliver said that with the ASR wells there could be some ability to redistribute. Mr. Lear noted that retirement of wells is gradually causing pumping to move further inland and into deeper strata.

Mr. Oliver said that modeling would help improve our understanding of what Basin impacts would result from pumping redistribution.

There was discussion as to whether it would be better to first ask the judge if he would consider a temporary suspension of the 10 percent pumping reductions, if modeling showed little to no impact, rather than doing the modeling first and then approaching the judge, or whether modeling should be done before making a request to the judge. Mr. Oliver suggested two approaches be presented to the Board for their consideration, one approach would be to do the modeling first and then make a request to the judge, and the other approach would be to first ask the judge if he would consider a temporary suspension if modeling demonstrated that there would be little to no adverse impact on the Basin.

It was noted that if modeling shows adverse water level impacts from temporarily suspending the reductions, then it probably would not be appropriate to pursue a request to the judge. However, if the modeling showed only minor impacts, it could be desirable to pursue this as a way of lessening the impacts of the Carmel River Cease and Desist Order. Mr. Sabolsice stressed that he did not want anyone in the public to get the wrong impression with regard to such a request potentially being made.

Ms. Thomasberg asked what safeguards could be provided in conjunction with making such a request. Mr. Oliver said that the judge had been very precise and very regimented in his prior dealings on adjudication matters, and felt that there were four things that should be covered: (1) having a time certain to end the suspension, (2) having a schedule for payback of overpumping that has occurred since the adjudication was put into effect, (3) safeguards in terms of modeling and additional monitoring that could be done.

Mr. Lear suggested looking at how the suspension would affect protective water levels and also seeing what steps in the Seawater Intrusion Response Plan could be implemented as safeguards.

Mr. Simonitch asked if the groundwater replenishment project water could be injected to help raise water levels. Mr. Jaques responded that the groundwater replenishment project water probably would not be available until almost the same time as when the proposed temporary suspension would end.

There was also discussion with regard to:

- Sand City's desalination project and what impacts it might have on Basin water levels
- How ASR water from the Carmel River Basin is accounted for when it is stored and then recovered from the Seaside Basin. It was noted that all ASR water that is taken from the Carmel Basin and put into the Seaside Basin has to be taken out and used to meet demands, and not left stored in the Seaside Basin.
- How best to involve legal counsel if a request were to be made to the judge.

Mr. Evans noted that any such recommendation would need to go through the budget and finance committee before it goes to the Board.

Ms. King said that the model will show that the rate of decline in water levels will be greater without the 10 percent cutbacks than it would be if the cutbacks were imposed.

Ms. Thomasberg asked whether it would be beneficial to pay to have the model recalibrated before doing the proposed modeling.

Mr. Simonitch asked what MPWMD's Board would think of making a request. Mr. Oliver responded that MPWMD is represented on the Watermaster Board and would thus have the opportunity to provide input on this matter at such time as it is discussed by the Watermaster Board.

Mr. Jaques asked the TAC to determine, by vote, if they wished to pursue making a request to the judge. The vote was 5 in favor of making a request and 2 opposed to making a request. Mr. Jaques then asked the TAC to determine, by vote, whether they felt modeling should be done first or done after an initial request is made to the judge. The vote was unanimous in favor of initially requesting the judge's reaction to granting a temporary suspension if modeling subsequently supported the request, before performing any modeling.

Mr. Jaques said he would draft language regarding the TAC's recommendation to the Board and email it to TAC members for their review and editing before he incorporates the language into his Agenda Transmittal for the Board's consideration of this matter.

4. Consider Request for Service (RFS) No. 2012-03 with HydroMetrics to Perform Groundwater Modeling

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

Ms. King said that many assumptions will need to be made with regard to performing the modeling. She said she wanted to insure these are all made in accordance with the TAC's desires. Mr. Simonitch asked if the model was calibrated to reflect actual pumping and hydrologic conditions, and Ms. King responded that it was.

The TAC unanimously approved the scope and cost for HydroMetrics RFS No. 2012-03 to perform modeling work to support the temporary suspension of the 10 percent pumping cutbacks, if the Board determines to pursue making a request to the judge for a temporary suspension in the 10% pumping reductions.

5. Consider Submitting an Application for a Grant Under the Local Groundwater Assistance Grant Program

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

Mr. Oliver said MPWMD was supportive of making an application for a grant, but will likely be making its own application for a grant for another project, so he did not feel that they could also serve as the applying agency for a Watermaster project. He noted, however, that a city could potentially serve in that role.

Ms. Thomasberg and Mr. Simonitch said that the same situations existed with MCWRA and the city of Sand City, in that their respective entities were also considering submitting grant applications for their own projects.

Mr. Holden said that MRWPCA is pursuing a monitoring well for its groundwater replenishment project, but is not an eligible applicant under the grant program requirements, and would therefore have to get a partner to submit an application on its behalf.

There was discussion of monitoring wells, groundwater monitoring, storm water recharge, and other potential projects for which to seek grant funding.

Ms. King said that adding monitoring wells in the areas of the Seaside Basin where the greatest impact on water levels is occurring would seem to be the most beneficial projects from her perspective.

Mr. Oliver said MPWMD is pursuing a grant for a monitoring well to support their ASR project.

There was discussion of other issues pertaining to applying for a grant. Mr. Lear said that his experience has been that the most highly ranked applications were those that could show clear benefit from the projects that were being proposed.

Mr. Sabolsice noted that the Seaside representative was not present at today's meeting, and recommended that the matter be continued to the next TAC meeting for discussion so his input could be included.

6. Schedule

Mr. Jaques briefly summarized the agenda packet materials on this item and noted that there had been no appreciable changes from the schedule in the previous TAC meeting agenda packet.

7. Other Business

Mr. Oliver reported that he was still waiting for sufficient rain to occur to perform ASR this winter season. He said that currently predicted near future rainfall may reach the trigger point to allow ASR to be done.

Mr. Sabolsice reported that CAW will be submitting its proposed project documents to the Public Utilities Commission by the April 23rd deadline.

8. Set Next Meeting Date

The next meeting date was set for Wednesday May 9, 2012 at 1:30 p.m. at the MRWPCA Board Room

The meeting was adjourned by Chair Sabolsice at 3:31 p.m.

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	May 9, 2012
AGENDA ITEM:	2.A
AGENDA TITLE:	Sentinel Well Induction Logging Results from January 2012
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY:

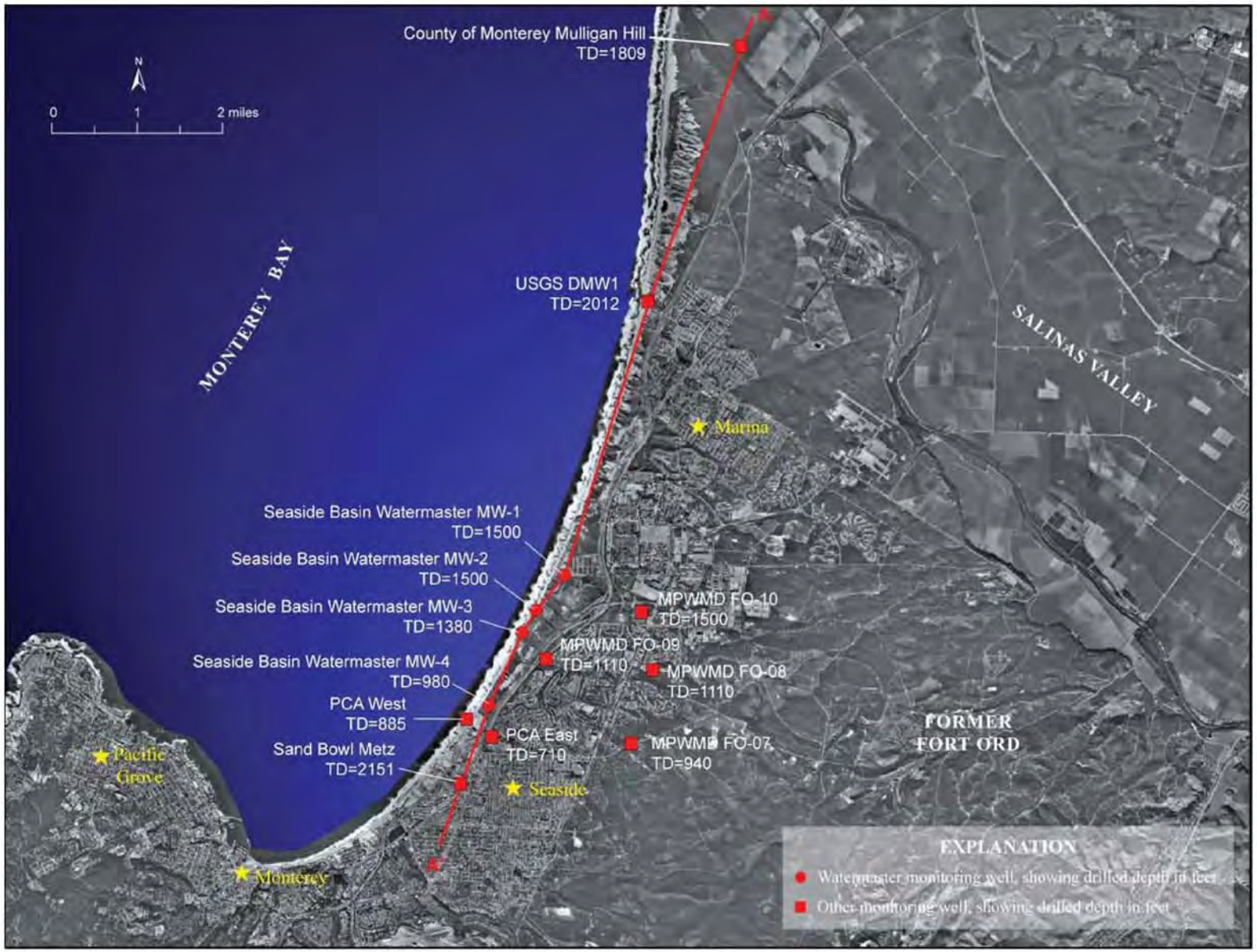
Induction logging is performed semi-annually on the four Watermaster Sentinel Wells that are located near the coast line from near the southern boundary of the former Fort Ord to slightly north of the Main Gate entrance from Highway 1 to the former Fort Ord. These four wells are identified as Seaside Basin Watermaster MW-1 through MW-4 in the attached map.

The purpose of the induction logging is to look for signs of seawater intrusion by comparing the conductivity in these wells from the date they were installed in 2007 to their conductivity during the ensuing years up until the present time.

Martin Feeney performs this work as a subcontractor to MPWMD, whose scope of services for the Watermaster includes induction logging of these wells as well as sampling and analyzing samples from other wells within the Seaside Basin.

As the plotted data that is attached shows, there has been virtually no change in the conductivity in any of these four wells since they were first installed. Thus, the induction logging does not show any evidence of seawater intrusion occurring. This data is one source of information that is evaluated by HydroMetrics in the Seawater Intrusion Analysis Report which it prepares for the Watermaster each year.

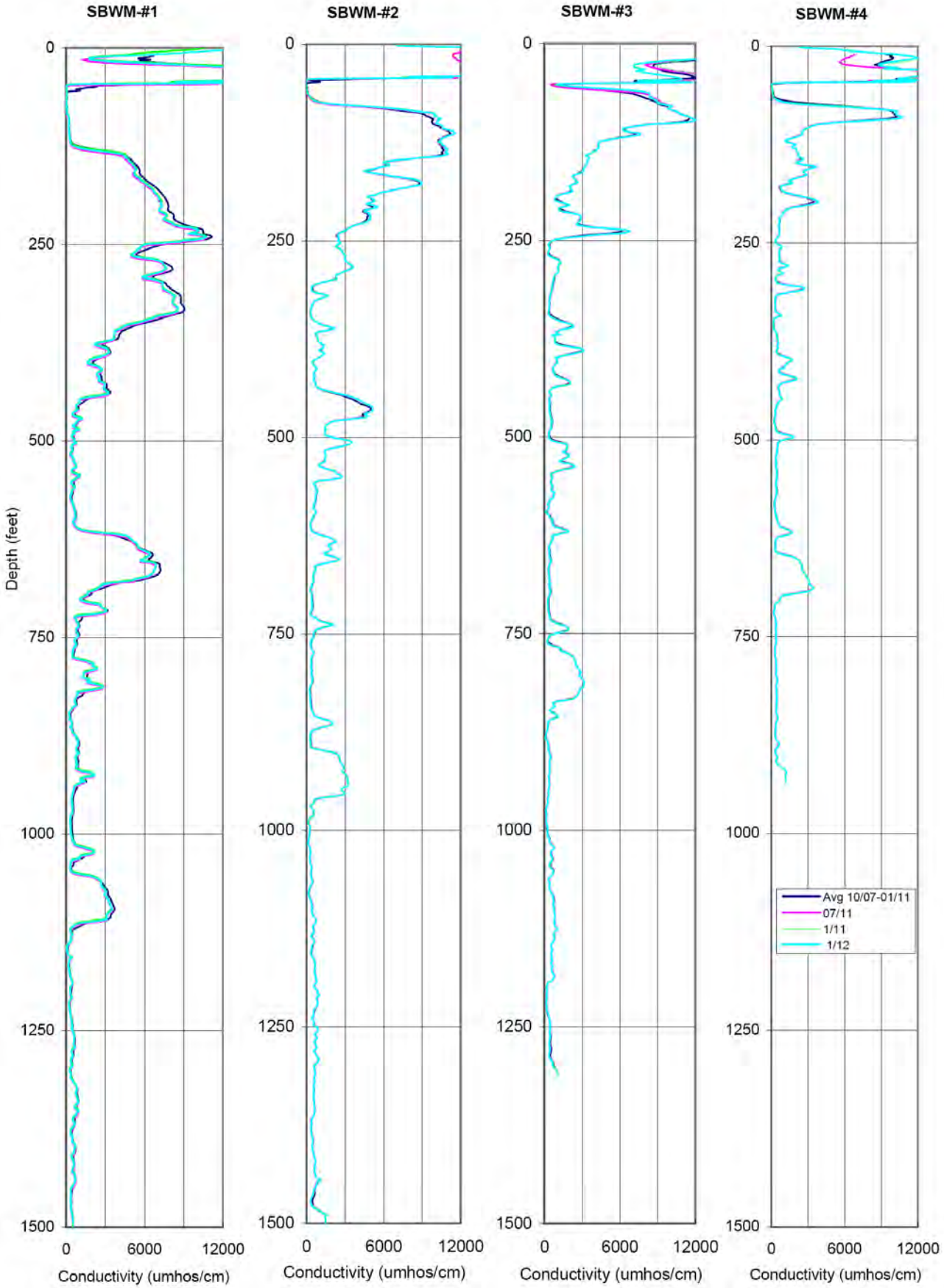
ATTACHMENTS:	1. Map showing location of Sentinel Wells 2. Plot of induction logging results from these wells for the period July 2011 through January 12
RECOMMENDED ACTION:	No action required – information only



Orthophoto base from HJW (1999), 1:36,000 scale imagery

FIGURE 1

Seaside Groundwater Basin Watermaster
Sentinel Wells
Induction Logs
2007-2012



SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	May 9, 2012
AGENDA ITEM:	3
AGENDA TITLE:	Update on Resampling of Sand City Public Works Well
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY:

Joe Oliver will provide an oral update on the resampling work that has been done on the Sand City Public Works well. This well had an unusually high chloride level when it was sampled in mid-2011, so it was resampled later in 2011. This well is located in an area where wells in the past have also reportedly seen higher chloride levels than other wells in the Basin.

Attached is the most recent water quality analysis for the Sand City Public Works well (sample date 4/3/12). The most recent results show that the chloride concentration was 291 mg/L, which is down slightly from the 7/26/11 330 mg/L value (previous water quality sample results for this well, Well No. 165, are available on the Watermaster's website under the "DATA" tab).

As was discussed, this well's water quality has exhibited somewhat unique water quality characteristics relative to other coastal Seaside Basin wells. Since the first sample was analyzed under the Watermaster M&MP in 2008, both sodium and chloride levels have been elevated relative to other coastal wells in the basin. In addition, the water quality from this well has shown elevated levels of other constituents, including nitrate and fluoride, relative to other coastal wells. MPWMD and Cal-Am staff are continuing to search historical water quality records to determine if any similar conditions had been recorded from other now abandoned wells that were in this area of the Basin.

More recent water quality fluctuations and historical WQ data from this area (if available) will continue to be tracked.

ATTACHMENTS:	Water quality analysis for the Sand City Public Works well
RECOMMENDED ACTION:	None required – information only

MPWMD
Joe Oliver
P.O. Box 85
Monterey, CA 93442-0085

MBAS
MONTEREY BAY ANALYTICAL SERVICES
PRECISION ● ACCURACY ● DEPENDABILITY
4 Justin Court Suite D, Monterey, CA 93940
831.375.MBAS
montereybayanalytical@usa.net
ELAP Certification Number: 2385

 Wednesday, April 25, 2012

Lab Number: AA86360

Collection Date/Time: 4/3/2012 15:00 Sample Collector: LINDBERG, T
Submittal Date/Time: 4/3/2012 15:40 Sample ID

Sample Description: Sand City Corp. Yard

Analyte	Method	Unit	Result	Qual	PQL	MCL	Date Analyzed
Alkalinity, Total (as CaCO3)	2320B	mg/L	**131**		2		4/12/2012
Ammonia-N	4500NH3 D	mg/L	**1.25**		0.05		4/9/2012
Boron	EPA200.7	mg/L	**1.08**		0.05		4/11/2012
Bromide	EPA300.0	mg/L	**0.68**		0.10		4/5/2012
Calcium	EPA200.7	mg/L	**38**		0.5		4/11/2012
Chloride	EPA300.0	mg/L	**291**		1	250	4/5/2012
Fluoride	EPA300.0	mg/L	**3.54**		0.10	2.0	4/5/2012
Hardness (as CaCO3)	2340B	mg/L	**136**		10		4/20/2012
Iron	EPA200.7	ug/L	**Not Detected**		10	300	4/11/2012
Magnesium	EPA200.7	mg/L	**10**		0.5		4/11/2012
Manganese, Total	EPA 200.7	ug/L	**19**		10	50	4/11/2012
Nitrate as NO3	EPA300.0	mg/L	**30**		1	45	4/5/2012
Nitrite as NO2-N	EPA300.0	mg/L	**Not Detected**		0.10	1.00	4/5/2012
o-Phosphate-P	EPA300.0	mg/L	**Not Detected**		0.10		4/5/2012
pH (Laboratory)	4500-H+B	STD. Units	**7.3**				4/3/2012
Potassium	EPA200.7	mg/L	**5.3**		0.1		4/11/2012
QC Anion Sum x 100	Calculaltion	%	**95%**				4/16/2012
QC Anion-Cation Balance	Calculaltion	%	**-2**				4/20/2012
QC Cation Sum x 100	Calculaltion	%	**90%**				4/20/2012
QC Ratio TDS/SEC	Calculation		**0.59**				4/10/2012
Sodium	EPA200.7	mg/L	**251**		0.5		4/11/2012
Specific Conductance (E.C)	2510B	umhos/cm	**1532**		1	900	4/5/2012
Sulfate	EPA300.0	mg/L	**152**		1	250	4/5/2012
Total Diss. Solids	2540C	mg/L	**897**		10	500	4/5/2012
Total Organic Carbon	SM5310C	mg/L	**0.70**	E	0.20		4/12/2012

Sample Comments:

Report Approved by:

David Holland, Laboratory Director

mg/L: Milligrams per liter ug/L : Micrograms per liter PQL : Practical Quantitation Limit MCL: Maximum Contamination Level
H = Analyzed ouside of hold time E = Analysis performed by External Laboratory; See External Laboratory Report attachments.

SEASIDE BASIN WATER MASTER TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	May 9, 2012
AGENDA ITEM:	4
AGENDA TITLE:	Presentation on the Salt and Nutrient Management Plan for the Seaside Groundwater Basin
PREPARED BY:	Georgina King, HydroMetrics

On February 3, 2009, the California State Water Resources Control Board adopted a Recycled Water Policy as part of Resolution No. 2009-0011. The goals of the Recycled Water Policy are to promote and increase the use of recycled water, to streamline water recycling project permitting, and to provide direction to the Regional Boards regarding recycled water project permitting. This resolution included the requirement for all groundwater basins to prepare and adopt a Salt and Nutrient Management Plan (S&NMP). All basins are required to adopt such a plan by May 14, 2014.

The intention of the S&NMP is to involve all surface and groundwater users and wastewater dischargers in the Basin to participate in efforts to protect the Basin's water from accumulating concentrations of salt and nutrients that would degrade the quality of water supplies in the Basin to the extent that it may limit their use.

Activities such as irrigation using imported water, or recycled water can potentially add salts and nutrients to the Basin. Other sources of salts/nutrients include natural soil conditions, atmospheric deposition, discharges of waste, soil amendments, and water supply augmentation using surface water or recycled water.

The general scope for developing the S&NMP will include the following tasks:

Task 1. Stakeholder Outreach
Task 2. Establish Basin Characteristics
Task 3. Identify Existing and Foreseeable Salt and Nutrient Sources
Task 4. Salt and Nutrient Evaluation
Task 5. Monitoring Programs and Database
Task 6. Prepare Salt and Nutrient Management Plan

Data from recent Basin studies will be integrated into the S&NMP wherever possible. The existing groundwater monitoring network and associated database will also be included in the S&NMP's Task 5.

During the project, stakeholder participation will include attending several stakeholder meetings, assisting in identifying current and future salt and nutrient sources, providing water quality data that may not be included in the already established databases, providing data on salt and nutrient loading, and review of the S&NMP.

AGENDA ITEM:	4 (Cont'd)

Discussion of the Salt and Nutrient Management Plan at today's TAC meeting is an initial step in Task 1. Discussion points in the meeting will include:

- Addressing questions on the purpose and process of the plan, and
- Identifying other potential stakeholders,

The overall scope of the Stakeholder Outreach task is provided below.

Task 1. Stakeholder Outreach

The recycled water policy adopted by Resolution No. 2009-0011 states in part that the plans should be a, "…locally driven and controlled, collaborative processes open to all stakeholders…" Stakeholder outreach ensures integration between all regional water users and water producers. To ensure broad stakeholder involvement, all agencies and private individuals who use or influence groundwater, or have the potential to, will be identified. Each of these stakeholders will be contacted and invited to participate in the process of developing the S&NMP. The Seaside Groundwater Basin Watermaster (Watermaster) will be a starting point for this outreach, as all the main stakeholders are already represented on the Watermaster's Board. The Regional Board will be an important and necessary stakeholder in this process who will help guide the project's direction. In addition, we anticipate contacting agencies or individuals that may be significant sources of salt or nutrients including the Monterey Regional Water Pollution Control Agency (MRWPCA) and the owners of golf courses or other intensely irrigated areas. Once the stakeholders have been identified and have chosen to commit to participating in development of the plan, specific roles and responsibilities can be assigned.

ATTACHMENTS:	None
RECOMMENDED ACTION:	None Required – Information Only

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	May 9, 2012
AGENDA ITEM:	5
AGENDA TITLE:	Report on Investigation into Potential for Aquifer Cross-Contamination in the Coastal Wells
PREPARED BY:	Robert Jaques, Technical Program Manager

Under Task I.3.d of MPWMD's RFS No. 2011-01 they are to 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 PROFESSIONAL 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 PROFESSIONAL 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 PROFESSIONAL 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 PROFESSIONAL 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.

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

AGENDA ITEM:	5 (Cont'd)

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.

Task I.3.d in MPWMD's RFS No. 2012-01 states that if the work started in 2011 under RFS No. 2011-01 for this Task identifies further work which WATERMASTER wishes to perform under this Task in 2012, WATERMASTER will issue a separate RFS to PROFESSIONAL to perform that work. No work on this Task is authorized under this RFS No. 2012-01.

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This analysis has compiled data from multiple sources into a single database allowing MPWMD staff to identify wells that might pose contamination risk based on screened intervals, age, construction material, and status. The TAC previously received a presentation summarizing results from this study, and as a follow-up instructed MPWMD to field verify wells identified during the analysis and wells identified as abandoned or destroyed. MPWMD has conducted field investigations into the locations of wells with unknown locations or status and the results of this investigation will be summarized in a PowerPoint presentation to the TAC by Mr. Lear at today's meeting.

ATTACHMENTS:	None
RECOMMENDED ACTION:	Determine Whether or Not Further Action on this Matter Should be Taken

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	May 9, 2012
AGENDA ITEM:	6
AGENDA TITLE:	Discussion of Lake El Estero Stormwater as a Potential Water Source for MPWMD Proposed Desalination Plant on Former Monterey Wastewater Treatment Plant Site
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY:

During the discussion of issues pertaining to obtaining water to help replenish the Seaside Basin at the March 14, 2012 TAC meeting, there was discussion regarding the MPWMD's 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.

Following up on that discussion Mr. Green suggested that another concept that could be considered would be to treat water from Lake El Estero to help reduce stormwater discharges from the city of Monterey, while also providing an additional water source for a desalination plant and potential benefit to the Seaside Basin.

There was consensus to have Mr. Green make a presentation on this at a future TAC meeting, and he will make that presentation at today's meeting.

ATTACHMENTS:	None
RECOMMENDED ACTION:	Determine whether the Watermaster should take any action or further evaluate this concept

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	May 9, 2012
AGENDA ITEM:	7
AGENDA TITLE:	Consider Recommendation for Modifications to the Monitoring and Management Plan Operations Budget
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY:

At its meeting of May 2, 2012 the Board considered the TAC's recommendation to seek a temporary suspension of the triennial 10% pumping cutbacks required by the Adjudication Decision. The Board is continuing discussion of this matter to its next meeting, and asked in the meantime that the Monitoring and Management Program (M&MP) Operations Budget be examined to see if there were any line items in it which are expected to be completed below the budgeted amounts, and/or if there were any line items that may not need to be performed during the current Fiscal Year.

The purpose of this Budget evaluation would be to identify funds that could be used to perform the groundwater modeling work to support making this request to the Court, so that nearly the entire Contingency line item would not have to be expended to perform that unbudgeted work.

Attached is a copy of the approved FY 2012 M&MP Operations Budget. Those items shaded in grey are those that I feel will either be completed below the budgeted amount, or which could be deferred to a future FY. Deferring these items to a future FY would free up $80,000 from the FY 2012 M&MP Operations Budget.

The TAC is asked to either concur with this assessment, or to modify it, so that the Technical Program Manager can provide to the Board the information it has requested.

ATTACHMENTS:	Copy of the FY 2012 M&MP Operations Budget
RECOMMENDED ACTION:	Accept or modify the Technical Program Manager's assessment of the Budget with regard to items that could be deferred to a future FY

Management and Monitoring Plan Operations Budget
For Tasks to be Undertaken in 2012

Task	Subtask	Sub-Subtask	Cost Description	CONSULTANTS & CONTRACTORS[3]			Total
				MPWMD	Private Consultants	Contractors	
Labor							
			Technical Project Manager	$0	$60,000	$0	$60,000
M.1 Program Administration							
	M.1.a		Project Budget and Controls	$0	$0	$0	$0
	M.1.b		Assist with Board and TAC Agendas	$0	$0	$0	$0
	M.1.c & M.1.d		Preparation for and Attendance at Meetings[8]	$0	$5,150	$0	$5,150
	M.1.e		Peer Review of Documents and Reports[8]	$0	$3,100	$0	$3,100
	M.1.f		QA/QC	$0	$0	$0	$0
I.1 Initial Phase 1 Monitoring Well Construction (Task Completed in Phase 1)							
I.2 Production, Water Level and Quality Monitoring							
	I. 2. a.		Database Management				
		I. 2. a. 1.	Conduct Ongoing Data Entry/ Database Maintenance/Enhancement	$9,900	$2,400	$0	$12,300
		I. 2. a. 2.	Verify Accuracy of Production Well Meters	$0	$0	$0	$0
	I. 2. b.		Data Collection Program				
		I. 2. b. 1.	Site Representation and Selection[7]	$0	$0	$0	$0
		I. 2. b. 2.	Collect Monthly Water Levels[6]	$3,450	$0	$0	$3,450
		I. 2. b. 3.	Collect Quarterly Water Quality Samples[1][5][6]	$38,300	$0	$17,220	$55,520
		I. 2. b. 4.	Update Program Schedule and Standard Operating Procedures.	$0	$0	$0	$0
		I. 2. b. 5.	Monitor Well Construction[7]	$0	$0	$0	$0
		I. 2. b. 6.	Reports	$5,850	$1,050	$0	$6,900
I.3 Basin Management							
	I. 3. a.		Enhanced Seaside Basin Groundwater Model	(Costs Shown in Subtasks Below)			
		I. 3. a. 1	Update the Existing Model	$0	$0	$0	$0
		I. 3. a. 2	Develop Protective Water Levels [11]	$0	$25,000	$0	$25,000

		I. 3. a. 3	Evaluate Replenishment Scenarios and Develop Answers to Basin Management Questions	$0	$25,000	$0	$25,000
	I. 3. b.		Complete Preparation of Basin Management Action Plan	$0	$0	$0	$0
	I. 3. c.		Refine and/or Update the Basin Management Action Plan [(11)]	$0	$25,000	$0	$25,000
	I. 3. d		Evaluate Coastal Wells for Cross-Aquifer Contamination Potential	$5,000	$0	$0	$5,000
I.4 Seawater Intrusion Contingency Plan							
	I. 4. a.		Oversight of Seawater Intrusion Detection and Tracking	$3,700	$2,050	$0	$5,750
	I. 4. b.		Analyze and Map Water Quality from Coastal Monitoring Wells	(Costs Included Under I.4.a)			
	I. 4. c.		Annual Report- Seawater Intrusion Analysis	$0	$25,750	$0	$25,750
	I. 4. d.		Complete Preparation of Seawater Intrusion Response Plan[(2)]	$0	$0	$0	$0
	I. 4. e.		Refine and/or Update the Seawater Intrusion Response Plan[(2) (9)]	$0	$0	$0	$0
	I. 4. f.		If Seawater Intrusion is Determined to be Occurring, Implement Contingency Response Plan[(2)]	(No Costs are Included for This Task, as This Task Will Likely Not be Necessary During 2012. If it Does Become Necessary, Use of Contingency Funds or a Budget Modification Will Likely be Necessary)			
			TOTALS CONSULTANTS & CONTRACTORS	**$66,200**	**$174,500**	**$17,220**	
						SUBTOTAL not including Technical Program Manager =	$197,920
						Contingency (not including Technical Program Manager) @ 20%[(4)]=	$39,584
						Technical Program Manager =	$60,000
						TOTAL=	**$297,504**

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	May 9, 2012
AGENDA ITEM:	8
AGENDA TITLE:	Continued Discussion in Regard to Submitting an Application for a Grant Under the Local Groundwater Assistance Grant Program
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY:

At the TAC's April 11, 2012 meeting one of the Agenda topics pertained to consideration of submitting an application for a Grant under the State's Local Groundwater Assistance Grant Program. The Chair continued this topic to today's meeting, so that any TAC members who were unable to attend the April 11th meeting could participate in these discussions.

To provide background information for today's discussion, I have included the attached "Description of the Local Groundwater Assistance Grant Program" which was included in the April 11th Agenda packet. The items highlighted with gray shading in the attachment are those which I felt might be topics of interest for the TAC to consider. I have also attached an excerpt pertaining to this topic from the Minutes of that TAC meeting.

ATTACHMENTS:	1. Description of the Local Groundwater Assistance Grant Program 2. Except from Minutes of April 11, 2012 TAC Meeting
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.

Excerpt from Minutes of April 11, 2012 TAC Meeting

5. Consider Submitting an Application for a Grant Under the Local Groundwater Assistance Grant Program

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

Mr. Oliver said MPWMD was supportive of making an application for a grant, but will likely be making its own application for a grant for another project, so he did not feel that they could also serve as the applying agency for a Watermaster project. He noted, however, that a city could potentially serve in that role.

Ms. Thomasberg and Mr. Simonitch said that the same situations existed with MCWRA and the city of Sand City, in that their respective entities were also considering submitting grant applications for their own projects.

Mr. Holden said that MRWPCA is pursuing a monitoring well for its groundwater replenishment project, but is not an eligible applicant under the grant program requirements, and would therefore have to get a partner to submit an application on its behalf.

There was discussion of monitoring wells, groundwater monitoring, storm water recharge, and other potential projects for which to seek grant funding.

Ms. King said that adding monitoring wells in the areas of the Seaside Basin where the greatest impact on water levels is occurring would seem to be the most beneficial projects from her perspective.

Mr. Oliver said MPWMD is pursuing a grant for a monitoring well to support their ASR project.

There was discussion of other issues pertaining to applying for a grant. Mr. Lear said that his experience has been that the most highly ranked applications were those that could show clear benefit from the projects that were being proposed.

Mr. Sabolsice noted that the Seaside representative was not present at today's meeting, and recommended that the matter be continued to the next TAC meeting for discussion so his input could be included.

SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	May 9, 2012
AGENDA ITEM:	9
AGENDA TITLE:	Schedule
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY:

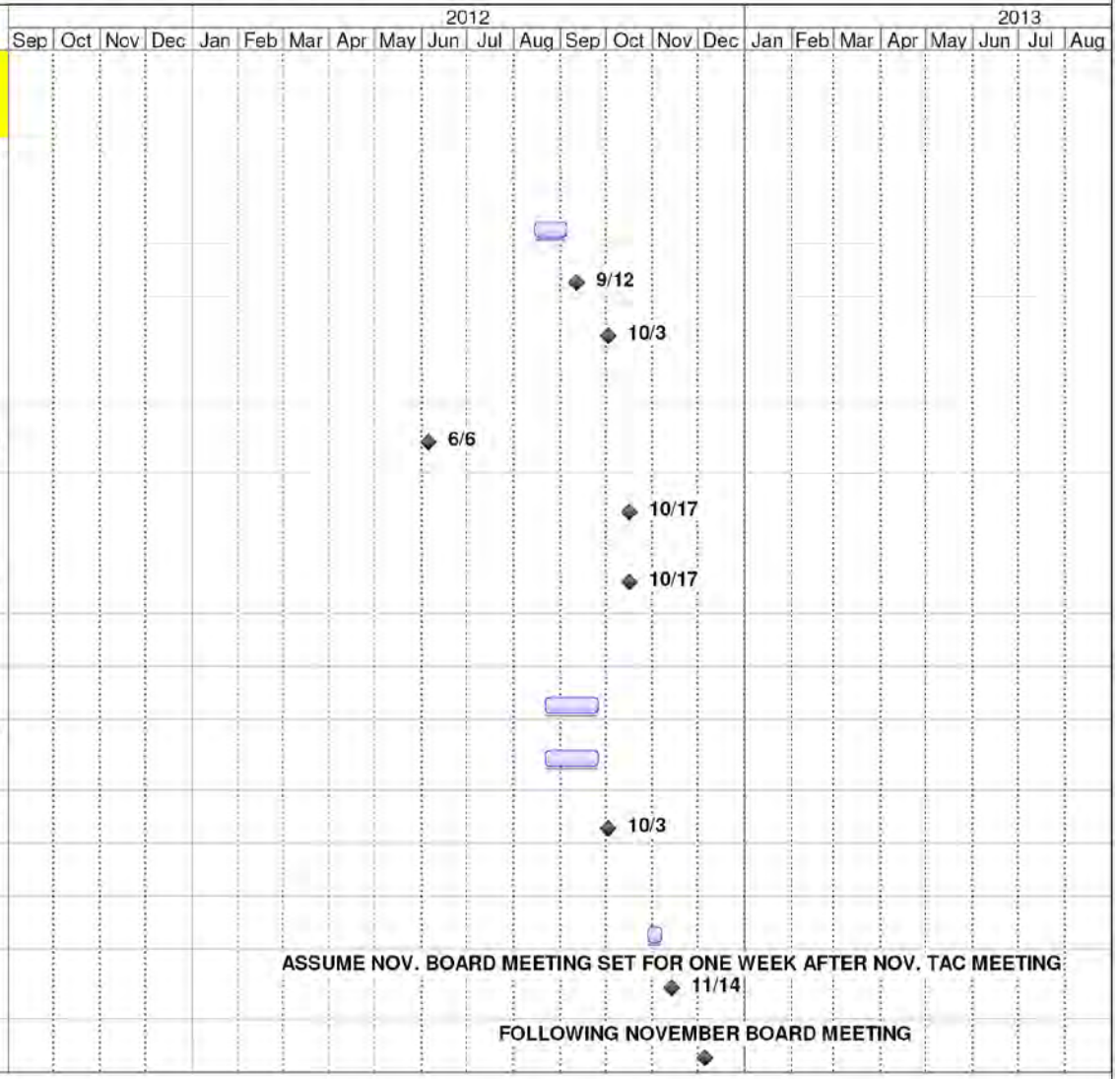
As a regular part of each monthly TAC meeting, I will provide the TAC with an updated Consultants Work Schedule of the activities being performed by the Watermaster's consultants and the public entity, MPWMD, which is performing certain portions of the work, and of the Critical Program Milestones Schedule.

Attached is the Consultants Work Schedule for FY 2012. The only changes to the Schedule since the April 11 TAC meeting were to reschedule MPWMD's completion of its Quarterly Water Quality and Water Level reports for the first and second quarters of WY 2012 from early April to early June, 2012.

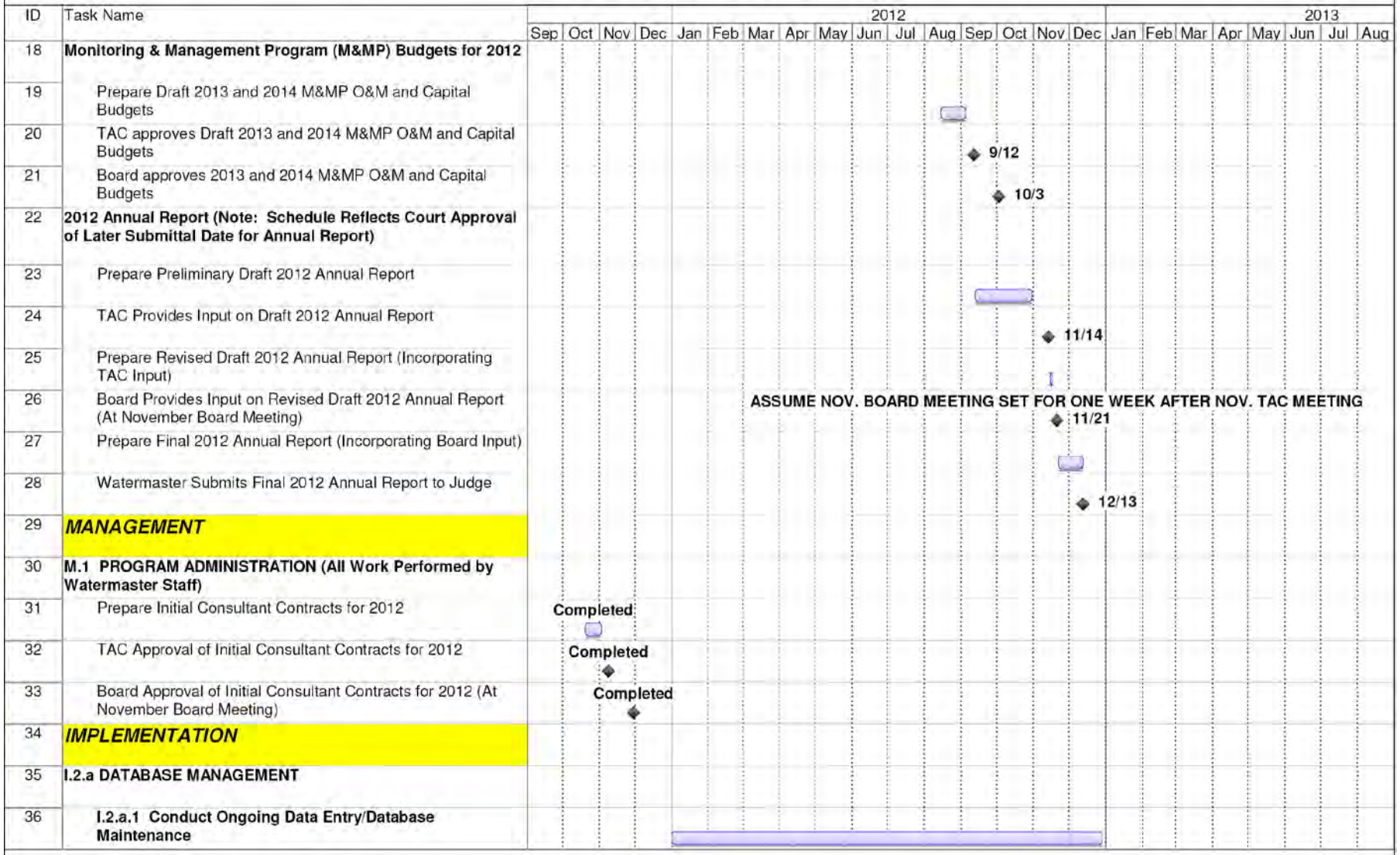
ATTACHMENTS:	Schedule of Work Activities for FY 2012
RECOMMENDED ACTION:	Provide Input to Technical Program Manager Regarding Any Corrections or Additions to this Schedule

Seaside Basin Watermaster
Monitoring and Management Program
2012 Work Schedule

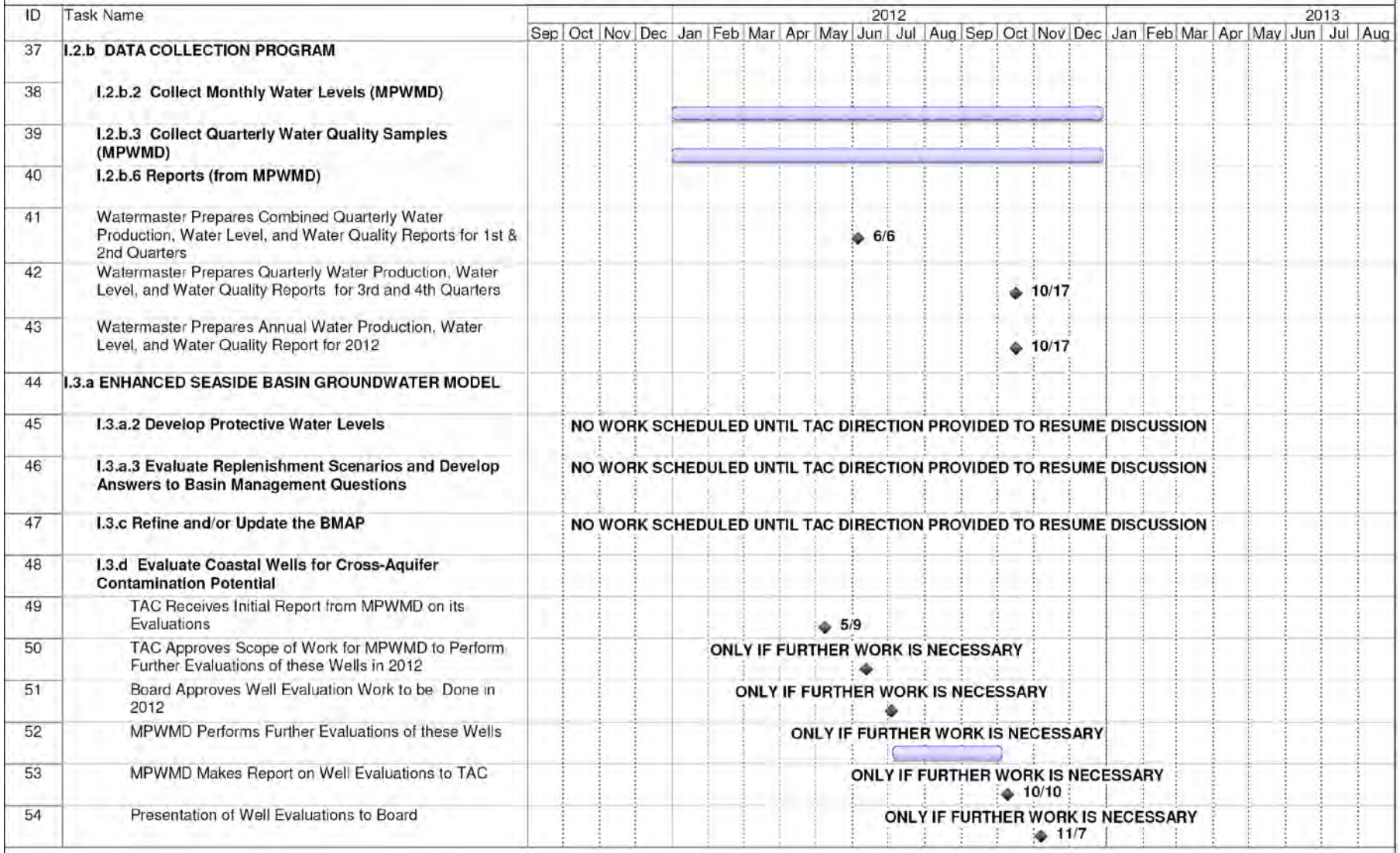
ID	Task Name
1	***CRITICAL PROJECT MILESTONES ASSOCIATED WITH TAC, BOARD, AND/OR CONSULTANT WORK***
2	**2011 Administration, Operations and Replenishment Budgets**
3	Prepare M&MP Draft Budgets (Same as Task 19)
4	TAC Approves M&MP Budgets (Same as Task 20)
5	Board Approves M&MP Budgets (Same as Task 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



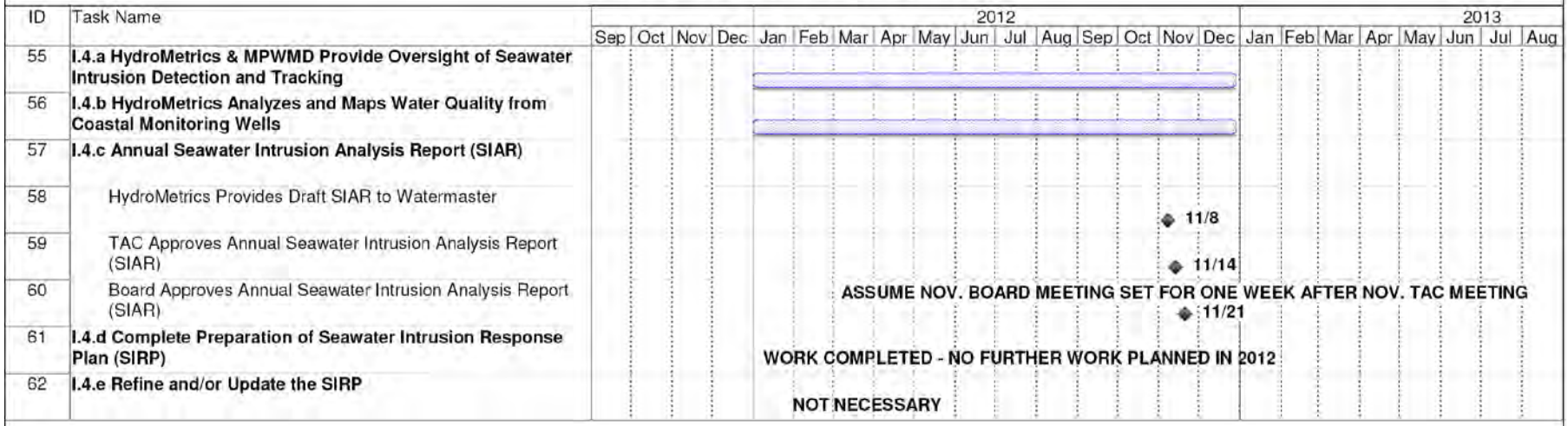
Seaside Basin Watermaster
Monitoring and Management Program
2012 Work Schedule



Seaside Basin Watermaster
Monitoring and Management Program
2012 Work Schedule



Seaside Basin Watermaster
Monitoring and Management Program
2012 Work Schedule



SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE

** * * AGENDA TRANSMITTAL FORM * * **

MEETING DATE:	May 9, 2012
AGENDA ITEM:	10
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