

SEASIDE GROUNDWATER BASIN WATERMASTER

REGULAR BOARD MEETING AGENDA

WEDNESDAY, MAY 6, 2009, 2:00 P.M.

MONTEREY REGIONAL WATER POLLUTION CONTROL AGENCY

BOARD ROOM, 5 HARRIS COURT, BUILDING "D"

"RYAN RANCH"

MONTEREY, CALIFORNIA

WATERMASTER BOARD:

City of Seaside – Mayor Ralph Rubio, Chair

Coastal Subarea Landowner – Director Paul Bruno, Vice Chair

Monterey Peninsula Water Management District – Director Judi Lehman, Secretary

City of Del Rey Oaks – Mayor Joseph Russell, Treasurer

California American Water – Director Craig Anthony

Laguna Seca Subarea Landowner – Director Bob Costa

City of Monterey – Mayor Chuck Della Sala

City of Sand City – Mayor David Pendergrass

Monterey County/Monterey County Water Resources Agency -- Supervisor Dave Potter, District 5

I. CALL TO ORDER

II. ROLL CALL

III. MINUTES;

The minutes of the Special Board meeting of March 18, 2009 are attached to this agenda. The Board is requested to consider approving the minutes.

IV. REVIEW OF AGENDA

If there are any items that arose after the 72-hour posting deadline, a vote may be taken to add the item to the agenda pursuant to the requirements of Government Code Section 54954.2(b). (A 2/3-majority vote is required.)

V. PUBLIC COMMUNICATIONS

Oral communications is on each meeting agenda in order to provide members of the public an opportunity to address the Watermaster on matters within its jurisdiction. Matters not appearing on the agenda will not receive action at this meeting but may be referred to the Watermaster Administrator or may be set for a future meeting. Presentations will be limited to three minutes or as otherwise established by the Watermaster. In order that the speaker may be identified in the minutes of the meeting, it is helpful if speakers would use the microphone and state their names. Oral communications are now open.

VI. CONSENT CALENDAR

A. Consider Approval of Summary for Payments Made in April, 2009 totaling \$87,493.81

B. Consider Year-End Financial Reports – Through April 30, 2009

VII. ORAL PRESENTATION

(None Scheduled)

VIII. OLD BUSINESS

A. COMMITTEE REPORTS

1. BUDGET AND FINANCE COMMITTEE

- a) Receive Watermaster Budget and Finance Committee Report for Further Information Regarding In Lieu Replenishment of the Seaside Groundwater Basin

2. TECHNICAL ADVISORY COMMITTEE (TAC)

- a) Receive Watermaster Technical Advisory Committee Report for Further Information Regarding Reducing the Operating Yield of the Seaside Groundwater Basin

B. Declaration of No Replenishment Water Available for Water Year 2009

IX. NEW BUSINESS

None

X. INFORMATIONAL REPORTS (No Action Required)

- A. Timeline Schedule of Milestone Dates (Critical date monitoring)
- B. Technical Advisory Committee (TAC) minutes of March 11th and April 8, 2009
- C. Water Production Report for Second Quarter of Water Year 2009 (January 1st through March 31, 2009)
- D. Report of Water Year 2009, First and Second Quarter, Groundwater Quality and Level Data Collected for the Seaside Groundwater Basin Watermaster

XI. DIRECTOR'S REPORTS

XII. EXECUTIVE OFFICER COMMENTS

XIII. NEXT REGULAR MEETING DATE –JUNE 3, 2009 (MRWPCA-Board Room) 2:00 P.M.

XIV. ADJOURNMENT

This agenda was forwarded via e-mail to the City Clerks of Seaside, Monterey, Sand City and Del Rey Oaks; the Clerk of the Monterey Board of Supervisors, the Clerk to the Monterey Peninsula Water Management District; the Clerk at the Monterey County Resources Agency and the California American Water Company for posting on April 30, 2009 per the Ralph M. Brown Act, Government Code Section 54954.2(a).

ITEM NO. III.

MINUTES

SPECIAL MEETING
Seaside Groundwater Basin Watermaster
March 18, 2009

DRAFT MINUTES

I. CALL TO ORDER

Chairman Rubio called the meeting to order at 2:01 p.m. in the Monterey Regional Water Pollution Control Agency Boardroom at 5 Harris Court, Building D, Monterey.

II. ROLL CALL

City of Seaside – Mayor Ralph Rubio, Chairman
Coastal Subarea Landowner – Director Paul Bruno, Vice Chair
Monterey Peninsula Water Management District (“MPWMD”) – Director Judi Lehman, Secretary
City of Del Rey Oaks – Mayor Joseph Russell, Treasurer
Laguna Seca Subarea Landowner – Leonard McIntosh (Alternate)
California American Water (“CAW”) – Director Craig Anthony
City of Monterey – Mayor Charles “Chuck” Della Sala
City of Sand City – Mayor David Pendergrass
Monterey County/Monterey County Water Resources Agency (“MCWRA”) – Curtis Weeks (Alternate)

Absent: None

III. APPROVAL OF MINUTES

It was moved by Director Bruno, seconded by Mayor Pendergrass, and carried to approve the minutes of the Watermaster Special Meeting of January 21, 2009. Mayor Della Sala and Director McIntosh abstained due to not having attended the meeting.

It was moved by Director Bruno, seconded by Mayor Pendergrass, and unanimously carried to approve the minutes of the Watermaster Regular Meeting of February 4, 2009.

IV. REVIEW OF AGENDA

There were no changes to the agenda.

V. PUBLIC PARTICIPATION/ORAL COMMUNICATIONS

There were no questions or comments from the public.

VI. CONSENT CALENDAR

- A. Consider Approval of Summary for Payments Made in February 2009 totaling \$153,715.70**
- B. Consider current year Financial Reports – Through February 28, 2009**

Moved by Mayor Pendergrass, seconded by Director McIntosh, and unanimously carried, to approve the consent calendar as presented.

VII. ORAL PRESENTATION

- A. Mr. Russ McGlothlin for the City of Seaside (“City”) presented a conceptual plan for the in-lieu replenishment of the Seaside Groundwater Basin (“Basin”) in conjunction with the 540 acre feet per year (“AFY”) of Alternative Production Allocation held by the City and currently used for irrigation of the Bayonet and Blackhorse golf courses, involving the City purchasing water allocated to it by the Fort Ord Redevelopment Agency (“FORA”) purveyed by Marina Coast Water District (“MCWD”). This arrangement would allow the City to not pump its adjudicated Alternative Production Allocation to the degree that water is substituted by MCWD with the FORA allocation, and the un-pumped City in-lieu replenishment water could then be purchased by Watermaster by way of a credit to replenishment assessments owed by the City at a cost of \$3,040 per acre foot through the term of the arrangement. The \$3,040 cost was established in 2009 by Watermaster to be the average projected cost of replenishment water. If the Regional Urban Water Augmentation Project comes to pass, then the recycled water produced from that project could be purchased by the City instead of the FORA allocation. The City would expect Watermaster to annually review and consider any alternative replenishment supplies and rates available. Mr. McGlothlin stated that the connection of the City’s and MCWD’s systems for water delivery could be arranged relatively quickly. Mr. McGlothlin pointed out that the in-lieu replenishment would be enough to offset the 2009 Water Year first triennial 10% pumping reduction now being dealt with by Watermaster under the Decision.

Director Weeks felt that the proposed arrangement used Salinas Basin water supply to address the City’s revenue shortfalls, and that the \$3,040 AF cost to Watermaster for the replenishment water was substantially higher than current water supply costs. He urged the Board to proceed with caution in this matter to get a better understanding of the issues to develop a comprehensive approach that would optimize financial incentives for using recycled water when available to offset water being pumped from the Basin. Chair Rubio pointed out that the \$3,040 amount is the cost basis for replenishment assessments paid to Watermaster by the City and therefore is equitable as a cost to Watermaster for replenishment supply.

Mayor Pendergrass, Director Bruno, and Attorney Lloyd Lowery for the Hidden Hills Subunit Ratepayers Association expressed support of the City’s proposed plan. Mr. Lowery submitted a letter to the Board at the beginning of the meeting that addressed some points made by Mr. McGlothlin. Director Weeks suggested that a rate structure for different types of water use by the City of Seaside – i.e., 300 AFY overlying demand offset by 300 AFY of the FORA allocation at one rate, and other incremental use at another – be considered when reviewing. Director Lehman requested wording that the \$3,040 cost is a placeholder based on current findings and is open for adjustment be included in the review.

Moved by Director Weeks, seconded by Director Anthony, and unanimously carried, to refer the City of Seaside’s conceptual plan for In-Lieu Replenishment of the Seaside Basin to the Technical Advisory Committee (TAC) and the Budget and Finance Committee.

VIII. OLD BUSINESS

A. COMMITTEE REPORT

1. TECHNICAL ADVISORY COMMITTEE

- a) The Board received and reviewed the submitted memorandum and paper describing the TAC findings and conclusions regarding each of the four points of the Amended Decision determining the requirement that the operating yield be reduced by 10% as of January 1, 2009. The conceptual plan by the City of Seaside for in-lieu replenishment was not considered by the TAC when developing its findings as it had not yet been presented.
- b) Declaration of Artificial Replenishment Water Available for Water Year 2009.

Moved by Director McIntosh, seconded by Director Bruno, and unanimously carried, to direct the TAC to consider the City of Seaside's conceptual plan for In-Lieu Replenishment of the Seaside Basin and present its findings, conclusions and recommendation on replenishment water available for Water Year 2009 to the Board at its May 2009 Board meeting.

- c) The Board received the matrix of comments developed by the TAC upon its review of the California Public Utilities Commission ("CPUC") Draft Environmental Impact Report ("DEIR") for the Monterey Coastal Water Project. Mr. Robert Jaques, Technical Program Manager, stated that the first table, *TAC Comments on DEIR for the CAW Coastal Water Project*, contained comments of a technical nature, and the second table, *Possible Board Policy and Preference Comments That Could Be Added to the TAC Comments in Table 1*, contained comments more for policy and preference consideration. Mayor Della Sala requested that in the future a slide presentation be furnished for items of this type. With regard to Watermaster filing as an intervenor in the proceedings, Attorney Don Freeman recommended that the Board preserve the right to intervene as soon as possible as allowed by the administrative law judge due to the filing deadline having passed. Mayor Russell noted in Table 1- Section ES13 Project 4, degradation of the quality of advanced treated water being conveyed in the same pipeline as tertiary treated water, it was his understanding that the issue had been addressed by MRWPCA. TAC comments urged that the matter be discussed and the resolution duly noted in the DEIR. Mr. Keith Israel, MRWPCA, stated the issue had been brought up with CPUC however the DEIR document had already been submitted. CPUC had indicated verbally to MRWPCA that the appropriate flushing of the lines as is planned would be adequate to resolve the issue. MRWPCA had requested from CPUC a written response in the matter and had not yet received anything.

Director Bruno noted in Table 1 - DEIR Page No. 2-4 referencing footnote 6 the statement had not been verified yet by action of the Board and should be removed.

Mayor Pendergrass stated the importance of the Ground Water Replenishment Project ("GWRP") and requested the inclusion of Table 2 in its entirety with the Table 1 comments when submitted to the CPUC.

Director Anthony felt that the role of the Watermaster was to protect the Basin under the physical solution; he was uncomfortable with Watermaster endorsing the GWRP or any other project or project component. He supported the comments in Table 1, and agreed with Table 2 – 1-4 and 7-3, and did not feel it appropriate to include the other comments in Table 2. Mayor Russell stated he felt supporting the GWRP with the comments in Table 2 supported replenishment and preservation of the Basin in a reliable, ecological, and un-contentious manner. Mayor Della Sala stated the City of Monterey’s strong opposition to the GWRP being placed back into Phase I of the Regional Projects stating that the portfolio of recycled water projects comprised the first component projects that should be considered before replenishment projects. Mr. Israel stated MRWPCA was not necessarily requesting support from Watermaster to endorse the GWRP, but to request that the CPUC more fully analyze the project for reconsideration at the project level by way of the comments in Table 2 – ES14 3, 4.

Attorney Lloyd Lowery for the Hidden Hills Subunit rate payers stated he agreed that the Table 1 – DEIR page 2-4 was inappropriate in the comments at this time. Regarding Table 2 – DEIR page no. 7-3, Mr. George Riley urged support of carefully proceeding in the DEIR rather than rushing to judgment and potentially incurring errors in decision making.

Director Lehman, referencing Table 1 – 2-1 with regard to requiring an additional 2,000 AFY be supplied to the Basin from projects implemented, felt the level of additional water needed could not be satisfactorily quantified at this point to justify including the requirement in the response comments. Mr. Jaques stated that in the future when the groundwater modeling component of the technical work was functional, that quantity could be accurately stated, but not in time for the DEIR response period. Chair Rubio requested that the statements in 2-1 regarding the 2,000 AF additional supplies and the statement regarding the groundwater modeling providing a more accurate figure be tied together.

It was moved by Director Bruno, seconded by Director McIntosh, and carried, to approve Table 1 with the exception of item 2-4. Director Lehman voted no.

It was moved by Mayor Russell to endorse Table 2 in its entirety and include it with the approved Table 1 comments. There was no second to the motion.

It was moved by Director Bruno, seconded by Director Weeks, and carried, to include in Table 1 only comments 1-4 and 7-3 from Table 2 and direct the CEO to submit the comments to the CPUC prior to the April 1, 2009 deadline. Mayor Russell voted no.

It was moved by Mayor Russell, seconded by Director Lehman, and unanimously carried, to add the item regarding Watermaster filing as an intervenor to today’s agenda.

It was moved by Director McIntosh, seconded by Mayor Russell, and unanimously carried, to direct staff to prepare and file the appropriate documents for Watermaster to preserve intervenor status in the DEIR proceedings before the CPUC.

IX. NEW BUSINESS

A. COMMITTEE REPORT

1. TECHNICAL ADVISORY COMMITTEE (TAC)

- a) **Moved by Director Weeks, seconded by Director Lehman, and unanimously carried, to approve the Request for Services with Mr. Martin Feeney to prepare a Basis of Design Report for the new Watermaster monitoring well to be installed later this fiscal year.**
- b) Mr. John Fischer, TAC public member, addressed the Board stating that he had consulted with counsel associated with Watermaster issues prior to the groundwater modeling goals and objectives workshop meeting held by Hydrometrics LLC on February 19, 2009 and chose not to participate as the meeting was not noticed as per the Brown Act. Mr. Fischer requested clarification as to the requirements for noticing this type of meeting. CEO Evans stated that the Watermaster TAC and the Watermaster Budget and Finance Committee meetings were required to be noticed as per the Brown Act. Mr. Jaques stated that the workshop had been arranged and hosted by HydroMetrics LLC and was not a TAC meeting. No action was taken during the workshop, and the results of the workshop were considered by the TAC at a noticed meeting on March 11, 2009. Attorney Don Freeman suggested that in the future if a meeting or workshop was held with committee members in attendance and had the appearance of a noticed meeting, the clearest way to proceed for public and others not familiar with the noticing requirements is to give notice of the meeting per the Brown Act.

Moved by Director Bruno, seconded by Director Weeks, and unanimously carried, to approve the Watermaster Groundwater Modeling Goals and Objectives developed by HydroMetrics LLC.

B. OTHER NEW BUSINESS

1. a) Director Anthony recused stating that California American Water (“CAW”) was a party to the application referenced in the issue before the board and left the room.

Director Bruno stated he attended the most recent Monterey Peninsula Water Management District board meeting and apologized to Director Lehman for his impassioned comments to her after that meeting. He felt the MPWMD board had overstepped its bounds and felt Watermaster needed to make a forceful appeal to the MPWMD board to reverse its action denying an application by CAW and Security National Guaranty (“SNG”) to produce water from the Seaside Groundwater Basin under SNG’s adjudicated water entitlement as an Alternative Producer for use on its land which overlays the Basin. Director Bruno felt that a right delayed is a right denied, and that Watermaster should proceed directly with a letter to MPWMD and,

that failing to reverse the MPWMD board action, direct staff to engage legal counsel to keep agencies from hijacking water rights. Director Lehman, also a MPWMD board member, stated that her understanding was that pumpers' rights were not being questioned by MPWMD in the matter, but that the environmental impacts of the project needed to be addressed.

Mr. Freeman suggested the Board direct a consortium of legal counsel to draft a project neutral letter to the MPWMD board for its upcoming meeting requesting it reconsider recent action in light of the considerations in the letter presented by Watermaster and that the District issue findings concerning legal and policy principles contained in the letter concurrently with its decision on the instant application. Mr. McGlothlin submitted to the board an outline of water rights principals and standards to be included in the draft letter stating that missing from the submitted outline was the issue that pumping from the Basin is governed by and part of the physical solution that is embodied in the judgment and therefore under the auspices of the court and exempt from CEQA. Chair Rubio stated that the outline submitted did not preclude comments by others made at today's meeting from being included in the letter. Mr. Ghandour clarified that the MPWMD staff report included in the last MPWMD board meeting packet analyzed issues as stated by Mr. McGlothlin.

Mr. Fischer urged all legal counsels in the matter along with a representative from the SWRCB to gather to come to a timely, less costly resolution rather than continuing the issue on for months or years.

Attorney Heidi Quinn, associate district counsel for MPWMD, addressed the board stating that MPWMD exercised its appropriate authority in denying the application based on potential adverse environmental impacts to the Basin and the Carmel River pursuant to CEQA. MPWMD was not challenging the water rights of the applicant, but was using its powers affirmed by Judge Randall.

Attorney Jim Heisinger, City of Sand City, respectfully disagreed with MPWMD counsel stating that the last several pages of the Adjudication Decision include MPWMD's request to act as Watermaster claiming plenary authority. Based on the fact that MPWMD had been in existence since 1977 and had not in that time period produced a Basin Management Plan for the Basin, the judge adjudicated the basin under Article 10 Section 2 of the California Constitution and denied MPWMD its request to act as Watermaster, tasking the Watermaster board with producing the plan. Page 53 of the Seawater Intrusion Analysis Report, a component of the Basin Management Plan that was approved by the Watermaster board in January 2009 indicates the advantage of pumping water allocations relatively far inland: SNG has complied with the physical solution by its arrangement with CAW to supply water for the project from wells located inland and away from the coastline. Mr. Heisinger viewed MPWMD's action as requiring CEQA on Judge Randall's Adjudication Decision which is exempt under California Law, Section 15379 of CEQA guidelines, and as MPWMD exerting unauthorized jurisdiction in interference with the Judgment's physical solution.

Attorney Sheri Damon for Security National Guaranty requested that the Watermaster include in the letter to MPWMD a reference to both the physical solution governing extractions and location of production facilities and the priority of use within the Basin as a fundamental law concept that goes hand in hand with the Decision. She also encouraged Watermaster to retain legal counsel to appear before Judge Randall to keep MPWMD from usurping authority and to uphold Watermaster governance for issues of production and extraction from the Basin.

Mr. George Riley addressed the board stating that the original EIR produced by SNG was dated 1998 and noted that many circumstances had changed relating to the EIR and the permitting process since that time and felt the Watermaster Board should review the 1998 EIR. He questioned why pumpers and not the Watermaster would be bringing suit against MPWMD and felt Watermaster was manufacturing a legal issue.

Mr. Steve Shimek with Monterey Coast Keepers Otter Project stated that the core of the issue as witnessed at the MPWMD board meeting as he understood it was the inadequacy of the 1998 project EIR analysis on environmental impacts and that new impacts were not considered. He believed that MPWMD had the authority to request a subsequent EIR and that Judge Randall had reserved that right for MPWMD. Mr. Shimek had issue with Watermaster considering a joinder with SNG counsel to address the issue when in his opinion it was not one relating to the adjudication.

Mr. Ed Ghandour, SNG Project Owner, stated that neither Mr. Riley nor Mr. Shimek presented the fact that a more recent project EIR dated October 2008 was available and that furthermore he had himself given a copy of the updated EIR to Mr. Shimek. The 400-page updated EIR studies the project's baseline EIR and all the new circumstances such as hydrology and the judge's Decision and can be viewed at the SNG web site www.montereybayshores.com. Mr. Ghandour stated that for the two gentlemen to claim that the SNG project EIR is based on 1998 data is a falsehood. Mr. Ghandour thanked MPWMD staff for their work and conclusion that the project had no CEQA issues remaining. Mr. Ghandour stated MPWMD had made repeated requests for enhancements in project water savings and water catchments in the project plans, which SNG complied with, obtaining approval from the Department of Health for the first grey water recycling system in the County, and obtaining necessary approval for the most advanced storm water management and catchment system in the world. Although MPWMD staff recommended acceptance, the MPWMD board had voted no in the past on these project water savings improvements as well as others such as green roofs that would equate to a 25% water savings. Mr. Ghandour stated SNG had held countless open forums regarding the project and published the EIR. He submitted that the MPWMD board is requiring CEQA and others such as Mr. Shimek are supporting the requirement, not because of environmental impact concerns but because they want to stop the project. The issue had been continued twice by MPWMD, over 6 months, when it required SNG to present a letter from SWRCB stating that no water offsets were required for the project, which SNG obtained and presented and MPWMD rejected. Mr. Ghandour contended that no CEQA was required to examine the judge's decision and that no Carmel River issue existed. Mr. Ghandour appealed to Director Lehman to reconsider the MPWMD board decision at its next board meeting. He

requested Watermaster send a letter to the MPWMD board, and to engage legal counsel to obtain definitive clarity from the judge as to jurisdiction in the matter.

Chair Rubio noted that Watermaster was formed to serve at the pleasure of the judge and that he would be the best one to describe the duties and authorities of Watermaster in this matter, and felt it was well within the interest of Watermaster to request the board of MPWMD to reconsider the CEQA requirement. Mayor Pendergrass stated that the Decision gave brackish water rights to the City of Sand City for use in desalination treatment which MPWMD approved by only a slim margin. He felt that in the interest of parties with adjudicated water rights under the Decision the issue of jurisdiction needed to be settled once and for all. Mayor Russell stated that the language in the Decision was not clear as far as agency authority and noted that the Watermaster was formed due to fear of what MPWMD would do in such a situation as this; he favored drafting a letter to the MPWMD board.

Mr. Heisinger stated that the SNG project had on file a certified EIR with the responsible party being City of Sand City. MPWMD had requested a subsequent EIR the scope of which was not defined, but hearings would reveal that the scope covers at least the same subject matter as the adjudication itself, if not the entire water distribution system for the Monterey Peninsula. Director Weeks stated that CEQA roadblocks would usurp Watermaster's ability to be an effective manager of the Basin. Director Lehman stated she would not vote in favor of sending a letter although she felt it within the rights of the Board to send a letter. She stated that there would be findings that may give clarity to the Watermaster Board on what the real issues are to be reconsidered.

Mayor Pendergrass stated that the next MPWMD meeting was scheduled for March 26, 2009 and he requested the letter from Watermaster include a request to the MPWMD board to consider the contents at its March 26th meeting.

It was moved by Director Bruno, seconded by Director Pendergrass, and carried, to direct attorneys to draft a letter to MPWMD inclusive of the points of the outline submitted and comments of Ms. Damon and Mr. Heisinger, and to request the letter be placed on the MPWMD board meeting agenda for its March 26, 2009 meeting, and that an action item be placed on the next Watermaster board meeting agenda to consider retaining legal counsel in the matter. Director Lehman voted no.

- b) The letters from the California Environmental Law Center were taken into consideration during the above item discussion.
2. Mr. McGlothlin highlighted the revised approach for calculation of the Replenishment Assessment and accounting of carryover credits per the joint request of California American Water and City of Seaside. Mr. Evans stated that Mr. McGlothlin had convinced him of the legal nature of the issue and felt that since counsel to the parties had not objected, then he was in agreement with the revised approach presented.

It was moved by Director Bruno, seconded by Mayor Russell, and unanimously carried, to accept the request of the City of Seaside to use its proposed method for Carryover Credit when calculating Replenishment Assessments, and to accept the non-duplicative method of Replenishment Assessment of Alternative Production Allocation producers for Operating Yield Over-Production as set forth by the City of Seaside.

IX. NEW BUSINESS

There were no new business items.

X. INFORMATIONAL REPORTS (No Action Required)

- A. Timeline Schedule of Milestone Dates (Critical date monitoring)
- B. Technical Advisory Committee minutes of February 11, 2009
- C. Water Production Report for First Quarter of Water Year 2009 (10/1/08 – 12/31/08)

XI. DIRECTORS' REPORTS

Chair Rubio requested that page numbers be included for all pages in the board agenda packets.

XII. EXECUTIVE OFFICER COMMENTS

The next Watermaster TAC meeting is scheduled for Wednesday, April 8, 2009 at 1:30pm at the Seaside City Hall portable building conference room.

XIII. NEXT MEETING DATE – Regular Meeting to be held on April 1, 2009, at the Monterey Regional Water Pollution Control Agency (MRWPCA) Board meeting room at 5 Harris Court, Building "D" on Ryan Ranch in Monterey at 2:00 p.m.

XIV. There being no further business, Chairman Rubio adjourned the meeting at 4:55 p.m.

ITEM NO. VI.

CONSENT CALENDAR

SEASIDE GROUNDWATER BASIN
WATERMASTER

TO: Board of Directors
FROM: Dewey D Evans, CEO
DATE: May 6, 2009
SUBJECT: Summary of Payments Authorized to be paid during March and April, 2009.

PURPOSE:

To advise the Board of payments authorized to be paid during the months of March and April, 2009

RECOMMENDATIONS:

Consider approving the payment of bills submitted and authorized to be paid during the months of March and April, 2009

COMMENTS and FISCAL IMPACT:

DDEvans Consulting (Professional Services Agreement—CEO) –March 1, 2009 through March 31; 2009 worked on Watermaster business a total of 87 hours at \$100.00 per hour or **\$8,700.00**. Prepared and distributed Board of Director’s agenda packet for March 18, 2009 Special Board meeting. Reviewed and discussed TAC meeting agendas with Bob Jaques and others as appropriate. Had series of meetings, telephone calls and e-mail correspondence with variety of individuals interested in what is happening with the Seaside Basin, with special interest this month replenishment of Seaside Basin by the City of Seaside in conjunction with using Marina Coast Water District water to irrigate the Blackhorse and Bayonet Golf Courses. Additional time used to evaluate the ramifications of a declaring a 10% reduction in water production from the Basin. Coordinated setting up and attending various Watermaster related committee meetings. Evaluated the calculation regarding the replenishment assessment fees. Coordinated preparation of Board meeting packet with many involved participants, paid bills, attended variety of meetings regarding Watermaster issues

Robert “Bob” Jaques (Technical Program Manager)—March 1, 2009 through March 26, 2009 worked a total of 46.0 hours at \$100.00 per hour or **\$4,600.00**. Prepared material, attended and transcribed minutes for March 11th TAC meeting. Prepared Board meeting agenda item and e-mailed to CEO, attended March 18, 2009 Board meeting. Reviewed and commented on HydroMetrics Revised Groundwater Model Tech Memo. Attended CWP DEIR Workshop in Seaside; worked on preparing TAC meeting agenda for March 11, 2009 meeting. Prepared application to MPC for installation of monitoring well; prepared for and attended March 11th TAC meeting. Prepared and mailed out minutes for March 11th TAC meeting. Prepared and sent to Watermaster CEO staff reports for March 18th Board meeting. Met with State Parks Department on monitoring well at Fort Ord Dunes State Park.

HydroMetrics, LLC—Four separate invoices were submitted and authorized for payment during the months of March and April totaling **\$57,573.81**. The four invoices included 363 hours of time spent completing the 2008 Basin Management Plan and working on the Seaside Basin Modeling Plan to develop protective Groundwater Elevation Goals and Objectives, Protective Groundwater Elevations, Model Goals and Objectives, Groundwater Flow Model, Run Predictive Model Scenarios and prepare a comprehensive detailed report covering all of the above.

Denise Duffy & Associates, Inc.—One invoice was submitted and authorized for payment of **\$2,895.00**. The amount billed and paid was for CEQA services rendered for the Basin Management Action Plan (BMAP) and the Seawater Intrusion Response Plan (SIRP).

DDEvans Consulting (Professional Services Agreement—CEO)—April 1, 2009 through April 30, 2009 worked on Watermaster business a total of 78 hours at \$100.00 per hour or **\$7,800.00**. Reviewed and discussed TAC meeting agenda with Bob Jaques and others as appropriate. Had many telephone calls, meetings, email correspondence with a number of people regarding a wide variety of items involving the Seaside Basin. This month special interest was focused on the pending 10% reduction in water production from the Basin dictated by the Court Decision and the pending court action involving SNG vs the MPWMD. Attended Superior Court hearing on April 29th. Coordinated setting up and attending a variety of Watermaster related meetings. Prepared staff action and informational reports for the May 6th regular Board meeting.

Robert “Bob” Jaques (Technical Program Manager)—March 27, 2009 through April 27, 2009 worked a total of 59.25 hours at \$100.00 per hour or **\$5,925.00**. Prepared material, attended and transcribed minutes for April 8, 2009 TAC meeting. Prepared Board meeting agenda items and emailed to CEO for May 6th regular Board meeting. Attended number of meetings regarding the placement of the pending monitoring well at MPC and Fort Ord. Prepared for and attended the HydroMetrics GW Modeling Scenario workshop/Special TAC meeting. Began review of Martin Feeney’s BODR review for the new monitoring well. Started work on State Park permit application and met with Joe Oliver on database issues, and attended Budget and Finance Committee meeting at Seaside City Hall on April 27th.

Total payments authorized to be paid during January totaled **\$87,493.81**

Seaside Groundwater Basin Watermaster
Budget vs. Actual Administrative Fund
 Fiscal Year (January 1 - December 31, 2009)
 Balance through April 30, 2009

	2009 Adopted Budget	Year to Date Revenue / Expenses
Available Balances & Assessments		
Dedicated Reserve	25,000.00	25,000.00
FY 2008 (Estimated Rollover)	24,241.00	24,241.00
FY 2009 Assessments	108,759.00	93,097.70
Available	158,000.00	142,338.70
Expenses		
Contract Staff	108,000.00	30,150.00
Legal Advisor	25,000.00	-
Total Expenses	133,000.00	30,150.00
Total Available	25,000.00	
Dedicated Reserve	25,000.00	25,000.00
Net Available	-	87,188.70

Seaside Groundwater Basin Watermaster
Budget vs. Actual Monitoring & Management - Operations Fund
 Fiscal Year (January 1 - December 31, 2009)
 Balance through April 30, 2009

ITEM VI.B.
5/6/2009

	<u>2009 Adopted Budget</u>	<u>Contract Encumbrance</u>	<u>Year to Date Revenue/Expenses</u>
Available Balances & Assessments			
Monitoring & Management - Ops Fund	\$ 683,998.00	\$ -	\$ 636,118.14
FY 2008 Rollover	133,496.15	-	133,496.15
Total Available	\$ 817,494.15	\$ -	\$ 769,614.29
Appropriations & Expenses			
GENERAL			
Technical Project Manager	\$ 100,000.00	\$ 100,000.00	\$ 22,275.00
Contingency @ 20% (not including TPM)	45,273.00	\$ 45,273.00	-
Total General	\$ 145,273.00	\$ 145,273.00	\$ 22,275.00
CONSULTANTS (Hydrometrics)			
Program Administration	\$ 35,000.00	\$ 35,000.00	\$ -
Production/Lvl/Qty Monitoring	29,000.00	-	1,490.00
Basin Management (BMAP, Modeling)	305,000.00	294,200.00	59,111.00
Seawater Intrusion (Plan, Analysis)	37,000.00	35,960.00	5,900.00
Total Consultants	\$ 406,000.00	\$ 365,160.00	\$ 66,501.00
MPWMD			
Production/Lvl/Qty Monitoring	\$ 99,670.00	91,000.00	\$ 9,760.00
Basin Management	12,800.00	12,800.00	1,200.00
Seawater Intrusion	6,800.00	6,800.00	1,800.00
Direct Costs	-	5,840.00	9,797.17
Total MPWMD	\$ 119,270.00	\$ 116,440.00	\$ 22,557.17
DENISE DUFFY AND ASSOCIATES			
Basin Management	-	11,400.00	1,447.50
Seawater Intrusion	-	8,353.00	1,447.50
Total MRWMD	\$ -	\$ 19,753.00	\$ 2,895.00
MCWRA			
Program Administration	\$ -	\$ -	\$ -
Production/Lvl/Qty Monitoring	2,645.00	2,645.00	-
Basin Management	4,600.00	4,600.00	-
Seawater Intrusion	6,210.00	6,210.00	-
Total MRWMD	\$ 13,455.00	\$ 13,455.00	\$ -
Total Appropriations & Expenses	\$ 683,998.00	\$ 640,328.00	\$ 112,780.67
Total Available	133,496.15		656,833.62

Seaside Groundwater Basin Watermaster
Budget vs. Actual Monitoring and Management - Capital Fund
Fiscal Year (January 1 - December 31, 2009)
Balance through April 30, 2009

ITEM VI.B.
5/6/2009

	<u>2009 Adopted Budget</u>	<u>Contract Encumbrance</u>	<u>Year to Date Revenue / Expense</u>
Available Balances and Assessments:			
Monitoring & Management Fund - Capital	\$ 225,000.00		\$ 209,250.00
Appropriations & Expenses:			
Professional Services			
Project Management	-	-	-
Subtotal	-	-	
Direct Costs			
Site Selection - Martin Feeney	6,000.00	6,000.00	2,250.00
Permitting - Denise Duffy	19,553.00	19,553.00	-
Well Drilling -	199,447.00	-	-
Subtotal	225,000.00	25,553.00	2,250.00
Total Appropriations and Expenses	\$ 225,000.00	25,553.00	2,250.00
Total Available	\$ -		\$ 207,000.00

ITEM VIII.

OLD BUSINESS

ITEM VIII. A.

COMMITTEE REPORTS

ITEM NO. VIII. A. 1.

**BUDGET/FINANCE
COMMITTEE**

SEASIDE GROUNDWATER BASIN WATERMASTER

TO: Watermaster Board of Directors

FROM: Laura Dadiw, Assistant to the Watermaster CEO

APPROVED BY: Dewey Evans, CEO

DATE: May 6, 2009

SUBJECT: Watermaster Budget / Finance Committee meeting of April 27, 2009 and Subcommittee meeting of April 29, 2009.

RECOMMENDATION: It is recommended that the Board defer the Committee's determination of City of Seaside proposed in-lieu replenishment project pricing to the June 3, 2009 regular Board meeting.

It is further recommended that the Board not approve retention of legal counsel at this time.

The remaining items covered in the meetings are presented as informational only.

BACKGROUND: At the March 18, 2009 Regular Watermaster meeting, the Board received a presentation by counsel for the City of Seaside, Russ McGlothlin on a proposed arrangement that would make available in-lieu replenishment water to Watermaster for purchase. The Board directed the issue be deferred to the Technical Advisory Committee for viability as a means to offset the 2009 10% reduction in production called for in the Decision, and to the Budget / Finance Committee to determine pricing scenarios.

DISCUSSION: The Watermaster Budget / Finance Committee met on April 27, 2009 and a subcommittee convened on April 29, 2009 regarding a revision to the Watermaster Replenishment Assessment Budget, Seaside proposed in-lieu replenishment, retention of legal counsel, and the credit to Replenishment Assessment given by Watermaster to California American Water in relation to the CAW rate case before the Public Utilities Commission.

It was determined at the first meeting, attended by Ray Corpuz (chair), Paul Bruno, Steve Matarazzo, Craig Anthony, Robert Jaques, Dewey Evans and Laura Dadiw, to recommend the Board not approve retention of independent legal counsel to assist staff in situations where a conflict of interest may arise when using the services of counsels to the parties of the Judgment, but to address the need for independent counsel as situations arise. *Staff notes that use of such independent counsel is projected to be minimal and costs for such services to be far under the \$25,000 approved by the Board in the current year Administrative Budget for independent legal services.*

Steve Matarazzo suggested that first quarter production in the current year be examined to see if any reduction is attributable to circumstances such as increased rainfall or conservation efforts. Mr. Jaques noted that in comparing 2008/09 with 2007/08 first quarter production reports (see Item X.C.), a noticeable reduction has occurred and perhaps could be included in an appeal to the Court

to include as part of the 10% reduction effort. Mr. McGlothlin felt the Court would not oblige such an appeal.

Watermaster inquired of California American Water (“CAW”) General Manager, Craig Anthony as to whether the \$12,305,924 Replenishment Assessment credit had been reported to the Public Utilities Commission (“PUC”) to offset any expense of Replenishment Assessment reported to the PUC in the CAW rate case now pending. Mr. Anthony stated that the Replenishment Assessments charged to CAW by Watermaster since Water Year 2005/06 had not been included in the expenses reported to the PUC in the rate case and that any suggestion that the assessments had been included as expenses was without merit.

At the second meeting attended by: Ray Corpuz, Lori Gerard, Craig Anthony, Tim Miller, Russ McGlothlin, Rick Reidl, Dewey Evans, Laura Dadiw, Dianna Ingersol, and Tim O’halaran; the specific details of the formulas involved in the approved new method of Replenishment Assessment calculation were reviewed and agreed upon by all. A revised Replenishment Assessment Budget for the current fiscal year 2009 will be presented at the June 3, 2009 Regular Board meeting.

Staff presented a rough draft of pricing scenarios regarding the proposed City of Seaside in-lieu replenishment arrangement using Marina Coast Water District Fort Ord Redevelopment Agency allocation to the City of Seaside for irrigation of its golf courses within the Fort Ord footprint. Since the pricing scenarios propose offsetting City of Seaside Replenishment Assessments owed to Watermaster, and involve certain elements of the Memorandum of Understanding entered into between CAW and Watermaster as a condition of CAW’s currently approved Replenishment Assessment credit, both CAW and City of Seaside agreed to meet further on the matter in time for the Committee to reconvene and make a determination prior to the June 3, 2009 Watermaster Board meeting. Mr. McGlothlin and others in attendance concurred that the project most likely would not provide enough in-lieu replenishment to the Basin this water year to offset to any significant degree the 10% reduction imposed by the Court however Watermaster might consider seeking pro rata relief from the Court for any efforts toward and actual replenishment that occurs.

FISCAL IMPACT: An increase in Replenishment Assessments may occur due to the 10% reduction per the Court that the City of Seaside arrangement is currently not able to alleviate. The \$25,000 approved in the 2009 Administrative Budget for independent legal counsel will not be used in the near future. The reduction in Replenishment Assessments due to the new calculation method will be reflected in a revised Replenishment Assessment Budget to be presented at the June 3rd meeting.

ATTACHMENTS: 2008/09 and 2007/08 Production Reports are included under Item X.C.

ITEM NO. VIII. A. 2.

**TECHNICAL ADVISORY
COMMITTEE
(TAC)**

**SEASIDE GROUNDWATER BASIN
WATERMASTER**

TO: Board of Directors

FROM: Robert S. Jaques, Technical Program Manager
FORMATTED AND APPROVED BY: Dewey D Evans, CEO

DATE: May 6, 2009

SUBJECT: Further Information for the Board's Consideration Regarding Reducing the Operating Yield

BACKGROUND and PURPOSE: At its March 18, 2009 meeting the Board received an oral presentation by the City of Seaside's water attorney, Mr. Russ McGlothlin, describing a proposal the City is considering as a means of helping to avert the Court-imposed 10% pumping reduction for the remainder of Water Year 2008-2009.

Since this proposal was viewed with optimism by the Board, the Board deferred taking action on whether or not to impose the 10% reduction in order for the proposal to be further developed by the City, and for the Budget and Finance and the Technical Advisory Committees to review the proposal and provide their findings and conclusions.

RECOMMENDATION: The TAC does not provide a recommendation, since this is a matter for the Board to decide. The TAC only provides its findings and conclusions, from a technical perspective, to assist the Board in making its decisions.

DISCUSSION: The matter was discussed by the TAC at its April 8, 2009 meeting. Draft working papers for purposes of this discussion were prepared by the Technical Program Manager, and substantial changes to those draft documents were proposed by the TAC. After making those revisions, the documents were circulated for further TAC review. The two attached documents reflect the revisions proposed by, and agreed to by, the TAC.

Attachment 1 describes the concept being pursued by the City of Seaside to change the source of water to irrigate its golf courses from well water that is pumped from the Seaside Groundwater Basin, to water provided by the MCWD's potable water distribution system, which draws from the Salinas Valley Groundwater Basin.

Attachment 2 describes the consensus of the TAC as to how this approach would alter the Findings and Conclusions that were presented to the Board at its March 18th meeting with regard to the first of the four conditions listed in the Decision, the satisfying of any one of which would avert having to impose the 10% reduction in pumping. The concept being pursued by the City of Seaside would not pertain to the other three of the four conditions.

It was the TAC's conclusion that, even if the City of Seaside's proposal were to be implemented for the remainder of Water Year 2008-2009, none of the four sets of conditions which would avert the Court-

imposed 10% pumping reduction for the remainder of Water Year 2008-2009 have been met. It is therefore the TAC's conclusion that a 10% Basin-wide pumping reduction should be imposed.

ATTACHMENTS:

- 1) Description of Proposal by the City of Seaside to Reduce or Eliminate Pumping from its Golf Course Irrigation Wells as a Means of Averting the Impending 10% Reduction in Pumping Required by the Adjudication Decision
- 2) Paper Describing the Technical Advisory Committee's Findings and Conclusions Regarding the Impact of Implementing the City of Seaside's Concept of the First Condition in the Decision Pertaining to Reducing the Operating Yield.

ATTACHMENT 1
DESCRIPTION OF
PROPOSAL BY THE CITY OF SEASIDE
TO REDUCE OR ELIMINATE PUMPING FROM ITS GOLF COURSE
IRRIGATION WELLS
AS A MEANS OF AVERTING THE IMPENDING 10% REDUCTION IN
PUMPING
REQUIRED BY THE ADJUDICATION DECISION

THE CONCEPT

The City of Seaside, property owner for the Bayonet and Blackhorse golf courses, is considering a change in source for the irrigation water for these golf courses. The proposed project involves a change in water supply from the City's own wells that draw from the Seaside Basin to Marina Coast Water District (MCWD) potable water which draws its water from the Salinas Basin.

The proposed project would result in decreased groundwater withdrawals from the Seaside Basin, which would benefit the Seaside Basin by bringing it closer to its Natural Safe Yield.

The City is considering making this change so that the Watermaster could potentially use the water for in-lieu replenishment of the Basin.

PROJECT DESCRIPTION

The proposed project is the change in water supply source at the Bayonet and Blackhorse golf courses from the city's own wells that draw from the Seaside Basin to MCWD potable water which draws its water from the Salinas Basin to allow for alternative uses of the golf course water supply.

MCWD water is currently available at the project site. Some physical improvements are expected to be necessary to switch to the MCWD source.

As condition of approval, the City must receive approval from MCWD to make the change in the water source for the irrigation system. The City submitted an application on March 3, 2009 to obtain irrigation water from MCWD.

WATER USE

Blackhorse and Bayonet Golf course irrigation used as much as 600 acre-feet per year at the time the City assumed ownership of the courses in 1998. In coordination with the City's Golf Course Operator, a new irrigation system has been installed in conjunction with major renovation of the golf course fairways and greens that has led to a decrease in water use. Now that the renovations are completed and the new irrigation system is in use on all 36 holes, water use is expected to be less than 450 acre-feet per year. The Seaside Basin adjudication authorizes annual withdrawals of 540 acre-feet from the golf course irrigation well; the actual 2007 water year withdrawal was 473 acre-feet. The golf course lease establishes 400 acre-feet as a baseline water use, above which the golf course operator must pay current MCWD rates for all water used. Based on expected water use savings from the new irrigation system, the City anticipates that its golf courses will use up to 450 acre-feet annually.

Seaside withdraws water from the Seaside Basin through four wells, two of which provide the potable supply to part of the city under the management of Seaside Municipal Water District, and two of which provide irrigation water for the golf courses. The golf course irrigation wells are allotted 540 acre-feet per year; in water year 2007 actual production was 473 acre-feet. The golf course wells are Alternative Production wells, whereas the municipal wells are Standard Production wells, as defined in the Adjudication Decision.

FUTURE USE OF RECYCLED WATER

The MCWD anticipates the eventual construction of a recycled water pipeline that would serve the golf courses, which is not a part of this currently proposed project. When a recycled water pipeline is completed to the project site, irrigation of the golf courses with recycled water would be possible, and use of potable water could end. The date at which the recycled water pipeline will be built is not known. However, at the Water for Monterey County Coalition meeting held on April 1, 2009 Mr. Heitzman, General Manager of MCWD, said he anticipated that the recycled water project could become operational by the summer of 2011.

CURRENT STATUS

The City is in the midst of negotiations with MCWD to reach agreement on the terms and conditions under which water for the golf courses would be provided by MCWD's potable water distribution system. The City is optimistic that agreement will be reached in the near future. However, no date-certain can currently be projected for this, and thus no date-certain by which the changeover in water sources would occur can be projected.

ATTACHMENT 2

PAPER DESCRIBING THE TECHNICAL ADVISORY COMMITTEE'S FINDINGS AND CONCLUSIONS REGARDING THE IMPACT OF IMPLEMENTING THE CITY OF SEASIDE'S CONCEPT ON THE FIRST CONDITION IN THE DECISION PERTAINING TO REDUCING THE OPERATING YIELD (REVISED APRIL 14, 2009)

(Note: This paper updates the materials provided in the Board's March 18, 2009 agenda packet on this same topic)

BACKGROUND

The Amended Decision filed February 9, 2007 states, in part, that beginning January 1, 2009 there shall be triennial 10% reductions in the Operating Yield of the Seaside Basin, unless one or more of the conditions contained in Section III.B.2 of the Decision are met. Specifically, the language in Section III.B.2 states:

“Commencing with the fourth Water Year [starting January 1, 2009] and triennially thereafter the Operating Yield for both subareas [Coastal Subarea and Laguna Seca Subarea] will be decreased by ten percent (10%) until the Operating Yield is the equivalent of the Natural Safe Yield unless:

- a. The Watermaster has secured and is adding an equivalent amount of Non-Native water to the Basin on an annual basis; or*
- b. The Watermaster has secured reclaimed water in an equivalent amount and has contracted with one or more of the Producers to utilize said water in lieu of their Production Allocation, with the Producer agreeing to forego their right to claim a Stored Water Credit for such forbearance; or*
- c. Any combination of a and b which results in the decrease in Production of Native Water required by this decision; or*
- d. The Watermaster has determined that Groundwater levels within the Santa Margarita and Paso Robles aquifers are at sufficient levels to ensure a positive offshore gradient to prevent seawater intrusion.”* (language in brackets added for clarity).

The Board was provided the TAC's findings and conclusions regarding each of these four conditions at its meeting of March 18, 2009. This paper updates the TAC's findings and conclusions with regard to the first of these four conditions, based on the City of Seaside's proposal to seek a new water supply source for the irrigation of its golf courses. This updated information is provided for the Board's use in determining whether or not to impose a reduction in pumping for Water Year 2008-2009.

This paper focuses on just the technical issues pertaining to this matter, but does include the TAC's thoughts and other information that the Board may wish to consider in making its decisions.

FINDINGS

The TAC's findings with regard to whether or not the first of the four conditions would be satisfied by implementing the City of Seaside's proposal are shown below in **boldface underlined italics**.

- a. **Question:** Has the Watermaster secured and is adding an equivalent amount of Non-Native water to the Basin on an annual basis?

Answer: If the City of Seaside enters into its proposed agreement with MCWD to secure water from the MCWD distribution system to irrigate the City's golf, and if the City commits to reducing its pumping of water from its golf course wells on a 1:1 basis by the amount of water delivered by MCWD as a result of this change in water supply sources for its golf courses, then in-lieu recharge in the amount of water that MCWD delivers will have been achieved. However, based on historical pumping data for the golf course wells, and the fact that the golf courses have been recently reconstructed to require less irrigation water than in the past, the amount of in-lieu replenishment water would be less than the 420 AFY required by the Decision for Water Year 2008-2009. Thus, the concept described in this paragraph would partially, but not fully, offset the required 420 AFY amount. **Therefore, the TAC finds that the answer to this Question is "no."**

In future years there would be a potential to in-lieu recharge more water than could be recharged during the remaining portion of Water Year 2008-2009. However, it still may not be possible to achieve the full 560 AFY of reduction that is required beginning in Water Year 2009-2010, because the water demand of the golf courses may not be as high as 560 AFY.

The following is a related issue the Board should take into consideration: The City of Seaside stated in its presentation at the Board's March 18, 2009 meeting that it intended to ask the Watermaster to pay for its costs in obtaining the in-lieu replenishment water from MCWD. This cost is likely to be well in excess of \$1 million. In order for the proposal to be implemented the Watermaster would have to have sufficient funds available to pay the City of Seaside for its costs. The TAC understands that the Watermaster does not currently have this amount of money in its Replenishment Assessment Account. Therefore, a means of acquiring the necessary funds should be put in place in order for the proposal to be implemented.

CONCLUSIONS

Determining whether or not the Watermaster is required to impose a pumping reduction is a complex matter. Meeting any one of the four sets of conditions contained in Section III.B.2 of the Decision would avert having to impose a pumping reduction. Even if the City of Seaside's proposal were to be implemented for the remainder of Water Year 2008-2009, based on the TAC's interpretation of the Decision it is the TAC's conclusion that none of the four sets of conditions have been met. It is therefore the TAC's conclusion that a 10% Basin-wide pumping reduction must be imposed.

The proposal by the City of Seaside to change the water source for irrigation of the Seaside golf courses (Blackhorse and Bayonet) from wells fed by the Seaside Groundwater Basin to potable water supplied by the MCWD is beneficial to the Seaside Groundwater Basin and the Watermaster. The water delivered by MCWD to the golf courses for irrigation would constitute an in-lieu replenishment of groundwater to the Seaside Basin. This in-lieu replenishment could be used by the Watermaster to replenish prior overdraft or as a component of an offset of the required 10% Operating Yield reduction. The Watermaster may also elect to petition the judge to allow a proration of the required 10-percent pumping reduction in an amount equivalent to the replenishment amount. For example, since the required Water Year 2008-2009

pumping reduction is 420 AF, if the MCWD delivered 210 AF to the Seaside golf courses, the Watermaster might petition the court to allow a prorated reduction of only 5-percent rather than 10-percent.

SEASIDE GROUNDWATER BASIN
WATERMASTER

TO: Board of Directors
FROM: Dewey D Evans, CEO
DATE: May 6, 2009
SUBJECT: Watermaster Declaration of **NO** Replenishment Water Available for Water Year 2009

PURPOSE:

To notify all Seaside Groundwater Basin producers that the Watermaster has declared for Water Year 2009 that **NO** Artificial Replenishment Water is available to offset Over-Production in excess of the Operating Yield for the Seaside Groundwater Basin pursuant to the Amended Decision entered in the Seaside Adjudication.

RECOMMENDATION:

Consider approving the Declaration of No Artificial Replenishment Water Available for Water Year 2009.

DISCUSSION:

The Court has declared that in the event Watermaster cannot procure Artificial Replenishment Water to offset Operating Yield Over-Production during the ensuing Water Year, that the Watermaster Board shall so declare that no Operating Yield Over-Production then in effect may occur during the ensuing Water Year.

Watermaster has determined that there is no foreseeable replenishment water available for Water Year 2009. As ordered by the Court at the January 12, 2007 hearing, the initial potential 10% reduction in Operating Yield will occur on January 1, 2009. *(Commencing with the fourth Water Year, and triennially thereafter the Operating Yield for both Subareas will be decreased by ten percent (10%) until the Operating Yield is equivalent of the Natural Safe Yield.)*

If potable water becomes available to the Watermaster during Water Year 2009, all producer under the Decision would be notified of such availability and of any resulting adjustments to the limits of production.

ATTACHMENTS

- 1) Declaration of Unavailability of Replenishment Water for Water Year 2009 and limits on production
- 2) Watermaster Producer Allocations Water Year 2009 based on the Calculation Method Approved on March 18, 2009 Including a 10% Reduction for 75% of this Water Year.

NOTICE TO ALL SEASIDE GROUNDWATER PRODUCERS:

The Watermaster, as of January 1, 2009 hereby declares that **NO** Artificial Replenishment Water is available:

- a. The Watermaster has not secured nor is adding an equivalent amount of Non-Native water to the Basin on an annual basis.
- b. The Watermaster has not secured reclaimed water in an equivalent amount and has not contracted with one or more of the Producers to utilize said water in lieu of their Production Allocation, with the Producer agreeing to forego their right to claim a Stored Water Credit for such forbearance; and
- c. No combination of a and b has resulted in the decrease in Production of Native Water required by this decision; or
- d. The Watermaster has determined that Groundwater levels within the Santa Margarita and Paso Robles aquifers are not at sufficient levels to ensure a positive offshore gradient to prevent seawater intrusion.

All producers are limited in production to the following quantities of water, inclusive of the 10% decrease in pumping:

Coastal Subarea Alternative Producers:

Seaside (Golf)	540 acre-feet
SNG	149 acre-feet
Cypress (Calabrese)	14 acre-feet
Mission Memorial (Alderwood)	31 acre-feet
Sand City	9 acre-feet

Laguna Seca Subarea Alternative Producers:

Pasadera	251 acre-feet
Bishop	320 acre-feet
York School	32 acre-feet
Laguna Seca County Park	41 acre-feet

Coastal Subarea Standard Producers:

California American Water	3191 acre-feet
Seaside (Municipal)	262 acre-feet
Granite Rock	63 acre-feet
D.B.O. Development 27	114 acre-feet

Laguna Seca Subarea Standard Producers:

California American Water	271 acre-feet
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WATERMASTER PRODUCER ALLOCATIONS WATER YEAR 2009
BASED ON THE CALCULATION METHOD APPROVED ON MARCH 18, 2009
INCLUDING A 10% REDUCTION FOR 75% OF THIS WATER YEAR

Initial Basin-Wide Operating Yield ⁽¹⁾	5180.0	Coastal Operating Yield ⁽¹⁾	4265.2
Natural Safe Yield (NSY) ⁽²⁾	3000.0	Laguna Seca Operating Yield ⁽¹⁾	914.8

ALTERNATIVE PRODUCER ALLOCATIONS

Coastal Subarea ⁽³⁾	Acre-Feet	Laguna Seca Subarea ⁽³⁾	Acre-Feet
Seaside (Golf)	540.0	Pasadera	251.0
SNG	149.0	Bishop	320.0
Calabrese	14.0	York School	32.0
Mission Memorial (Alderwood)	31.0	Laguna Seca County Park	41.0
Sand City	9.0		
Total⁽¹⁾	743.0	Total⁽¹⁾	644.0

STANDARD PRODUCER ALLOCATIONS

Coastal Operating Yield Available to Standard Producers (AFY)			3522.18	Laguna Seca Operating Yield Available to Standard Producers (AFY)			270.83
Coastal Subarea	Standard Producer Allocations		AFY Available to This Producer	Laguna Seca Subarea	Standard Producer Allocations		AFY Available to This Producer
	Base Water Right % ⁽⁴⁾	Weighted % ⁽⁵⁾			Base Water Right % ⁽⁴⁾	Weighted % ⁽⁵⁾	
California American Water	77.55%	90.60%	3191.09	CAW	45.13%	100.00%	270.83
Seaside (Municipal)	6.36%	7.43%	261.70				
Granite Rock	0.60%	0.70%	24.66				
D.B.O. Development No. 27	1.09%	1.27%	44.73				
Total	85.60%	100.00%	3522.18	Total	45.13%	100.00%	270.83

Allocation of Available Operating Yield Among Standard Producers	Base Water Right Available to this Producer (AF)	% NSY to SPA (Base Water Right / Total Water Right)	NSY Available to Producers (AF) Current Water Year	Free Carryover Credits from Prior Water Year	Not-Free Carryover Credits from Prior Water Year	Total Producer NSY (AF) (NSY Available + Free Carryover Credits)	Total Base Water Right Available to Producer in Current Water Year	Actual AFY Pumped by Producer in WY 2008	Free Carryover Credits to WY 2009	Not-Free Carryover Credits to WY 2009
		NSY 3000 - 1114.9 =	WY '08 APA Pumped 1061.9 AF 1938.1							
California American Water	3461.92	91.27%	1768.92	0.00	0.00	1768.92	3461.92	3862.90	0.00	0.00
Seaside (Municipal)	261.70	6.90%	133.72	0.00	0.00	133.72	261.70	294.20	0.00	0.00
Granite Rock	24.66	0.65%	12.60	25.63	28.57	38.23	78.86	0.00	38.23	40.63
D.B.O. Development No. 27	44.73	1.18%	22.86	46.63	51.97	69.49	143.33	0.00	69.49	73.84
Total	3793.01	100.00%	1938.10	72.27	80.53	2010.37	3945.81	4157.10	107.72	114.47

Footnotes:

- (1) From page 17 of Exhibit A (Amended Decision) of Court Order filed February 9, 2007.
 - (2) From page 14 of Exhibit A (Amended Decision) of Court Order filed February 9, 2007.
 - (3) From page 21 of Exhibit A (Amended Decision) of Court Order filed February 9, 2007.
 - (4) From Table 1 on page 19 of Exhibit A (Amended Decision) of Court Order filed February 9, 2007.
 - (5) Calculated from the Base Water Right percentages in the adjacent column.
- Base Water Right plus Free Carryover Credit = 2009 Production Allocation (see 2009 Declaration)

ITEM X.

**INFORMATIONAL
REPORTS**

SEASIDE GROUNDWATER BASIN WATERMASTER CRITICAL MILESTONE DATES

ITEM X.A. 5/6/2009

ANNUAL MILESTONES	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016		
Each Producer ¹ is authorized to Produce its Production Allocation ² within the designated Subarea ¹ in each of the first three Water Years. ³ Alternative Producers may change to Standard Production by March 27, 2009 by filing a declaraton with the Court and with the other parties.	27-Mar-06	30-Sep-07	APA to SPA election amended to in perpetuity 12/12/2009										
Commencing with the fourth Water Year and Triennially thereafter, the Operating Yield for both Subareas will be decreased by 10% until the Operating Yield is equivalent to the Natural Safe Yield unless by recharge or reclaimed water use results in a decrease in production of Native Water as required by the decision.				75% of the Operating Yield of 5,600 decreased 10% Jan 1, 2009		Operating yield could decrease 10% every three years on October 1st until it is the equivalent of Natural Safe Yield			1-Oct	1-Oct	1-Oct		
Each Water Year by November 15th, the Watermaster will determine and levy a Replenishment Assessment ⁴ on each Standard Producer ¹ , with payment due from Producer 40 days after the levy is mailed		15-Nov		15-Nov	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov		
After the close of each Water Year, the Watermaster will determine and levy a Replenishment Assessment ⁴ against all Producers ¹ that incurred Operating Yield Over Production during the Water Year, with payment due from Producer by January 15th		15-Nov		30-Nov	30-Nov	30-Nov	30-Nov	30-Nov	30-Nov	30-Nov	30-Nov		
California American Water to submit annually to Watermaster any augmentation to water supply for possible credit toward Replenishment Assessment	Annually	15-Nov	CAW Credit Request Granted (signed MOU) January 15, 2009	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov		
Water level monitoring - monthly data collection from all members for inclusion in the consolidated database.	Reported Annually	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly		
Water quality monitoring - yearly data collection from all members for inclusion in the consolidated database	Reported Annually	15-Nov	28-Feb & 15-Nov	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov		
Summary report of water resources data to all members/parties Reported the 15th each quarter month:	Quarterly	15-Nov	Jan, Apr, Jul, Oct 15th	Jan, Apr, Jul, Oct 15th	Jan, Apr, Jul, Oct 15th	Jan, Apr, Jul, Oct 15th	Jan, Apr, Jul, Oct 15th	Jan, Apr, Jul, Oct 15th	Jan, Apr, Jul, Oct 15th	Jan, Apr, Jul, Oct 15th	Jul, Oct 15th		
Annual Report to Court	15-Jan	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov		
ADMINISTRATIVE MILESTONES	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016		
Adjudication ordered by Court and filed	27-Mar-06												
Board Directors Terms		7-Nov											
Budget (Administrative) Adopted/distributed				2008 Oct	15-Jan	15-Jan	15-Jan	15-Jan	15-Jan	15-Jan	15-Jan		
Budget (Operations) Adopted/distributed				2008 Oct	15-Jan	15-Jan	15-Jan	15-Jan	15-Jan	15-Jan	15-Jan		
Budget (Capital) Adopted/distributed				2008 Oct	15-Jan	15-Jan	15-Jan	15-Jan	15-Jan	15-Jan	15-Jan		
Budget (Replenishment) Adopted/distributed				2008 Oct	15-Jan	15-Jan	15-Jan	15-Jan	15-Jan	15-Jan	15-Jan		
Administrative Assessments	15-Jan-06	15-Jan-07	15-Jan-08	15-Jan-09	15-Jan	15-Jan-11	15-Jan-12	15-Jan-13	15-Jan-14	15-Jan-15	15-Jan-16		
Operations Assessments	15-Jan-07	15-Jan-07	15-Jan-08	15-Jan-09	15-Jan	15-Jan-11	15-Jan-12	15-Jan-13	15-Jan-14	15-Jan-15	15-Jan-16		
Capital Assessments	Seaside 2007 Not Received	Not Received	NONE	15-Jan-09	15-Jan	15-Jan-11	15-Jan-12	15-Jan-13	15-Jan-14	15-Jan-15	15-Jan-16		
Replenishment Assessments		New invoices to be sent out after 6/3/09		15-Jan-10	15-Jan-11	15-Jan-12	15-Jan-13	15-Jan-14	15-Jan-15	15-Jan-16	15-Jan-17		
Annual Report to Court	15-Nov-06	15-Nov-07	15-Nov-08	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov	15-Nov		
Answers to Judge's Questions re: Annual Report		30-Jan-09	28-Feb-08	1-Feb-09									
Declaration of Replenishment Water Availability	Feb-06	Dec-06	Dec-07	6 May	Dec-09	Dec-10	Dec-11	Dec-12	Dec-13	Dec-14	Dec-15		
MONTHLY MILESTONES	2006-07	Jan 09	Feb 09	Mar 09	Apr 09	May 09	Jun 09	Jul 09	Aug 09	Sep 09	Oct 09	Nov 09	Dec 09
Board Directors Terms													
Fiscal Year tentative budgets distribution to all parties													
75% of the Operating Yield of 5,600 decreased 10% Jan 1, 2009 and Declaration of Replenishment Water Available	31-Dec		To TAC 11-Mar-09			6-May-09							
Administrative Assessments						Seaside Not Recvd							
Operations Assessments						Seaside Not Recvd							
Capital Assessments						Seaside Not Recvd							
Replenishment Assessments			New method adopted 18-Mar action			Revised budget draft 03 June							
SPECIAL ISSUES	2006-07	Jan 09	Feb 09	Mar 09	Apr 09	May 09	Jun 09	Jul 09	Aug 09	Sep 09	Oct 09	Nov 09	Dec 09
SWRCB Cease Desist Order California American Water		1/30/09 Release of EIR	60-Day Public Comment Period & Public Hearings on Draft EIR Feb - Mar 2009. TAC review report 18 Mar				Final EIR Release						
Watermaster Board Regular Meeting Schedule		21-Jan	4-Feb	18-Mar	1-Apr Cancel	6-May	3-Jun	1-Jul	5-Aug	2-Sep	7-Oct	4-Nov	2-Dec
SUMMARY PROJECT SCHEDULE (See detailed project schedule for more information)				Monitoring and Management Program 2009			MRWPCA Groundwater Replenishment Project						
Program Administration, Database Management				1/1/09 - 12/31/09		Initial Study	Not included in draft Phase I EIR					Complete =	
Basin Monitor Well Construction				1/1/09-9/10/09								Yet to be completed =	
Enhanced Groundwater Model	Goals & Objectives 18 Mar			1/1/09-11/4/09								Scheduled for Board or TAC meeting =	
Production Water Level & Water Quality Monitoring (Hydrometrics, MPWMD, MCWRA)				1/1/09 - 12/31/09								Imminent Critical Deadline =	
BMAP / SIRP (Hydrometrics, MPWMD, MCWRA)				2/4/2009									
Seawater Intrusion Detection Program (Hydrometrics, MPWMD, MCWRA)				1/1/09 - 12/31/09								Revised May 1, 2009	

D-R-A-F-T
MINUTES

**Seaside Groundwater Basin Watermaster
Technical Advisory Committee Meeting
March 11, 2009**

Attendees: **TAC Members**
City of Seaside – Diana Ingersoll, Rick Riedl
California American Water – Tom Bunosky
City of Monterey – No Representative
Laguna Seca Property Owners – No Representative
MPWMD – Joe Oliver
Public Member – John Fischer
MCWRA – Rob Johnson
City of Del Rey Oaks – No Representative
City of Sand City – Steve Matarazzo
Coastal Subarea Landowners – No Representative

Watermaster
Technical Program Manager - Robert Jaques

Consultants
HydroMetrics LLC - Derrik Williams and Georgina King (by telephone)

Others:
RBF Consultants – Paul Findley
MCWD – Brian True
MCWRA – Jim Crook

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

1. Administrative Matters:

A. Approve Minutes from February 11, 2009

Mr. Bunosky noted that he had attended the February 11, 2009 Watermaster TAC meeting in person rather than by telephone.

Mr. Oliver commented that he did not recall making the comment in the fourth paragraph of page 7 of the agenda packet, and requested that it be deleted from the minutes.

Mr. Williams requested that in the final paragraph on page 7 of the agenda packet, the term "sub-areas" be replaced with the term "sub-basins".

With these amendments made, on a motion by Mr. Bunosky, second by Mr. Fischer, the minutes were unanimously adopted.

2. Progress Reports

A. MPWMD

B. HydroMetrics

C. Database Issues

D. Selection of Site for New Monitoring Well

Ms. Ingersoll introduced these agenda items.

Mr. Jaques asked Mr. Oliver what progress was being made with regard to converting the existing well on the former Fort Ord for use as a monitoring well. He said he is setting up a meeting with the State Parks Department for this purpose in the near future.

Mr. Fischer commented that with regard to the HydroMetrics groundwater modeling workshop, he attended only as an observer.

Mr. Bunosky asked Mr. Jaques to add the time period that the "Work Performed" covers in each of the progress reports in the TAC meeting agendas.

Mr. Oliver provided the following Database update: the Watermaster "Welcome Page" is now set up to allow for general public access to the Database, although some debugging is still being done. When the debugging is complete, Mr. Oliver will e-mail the TAC listserve.

3. Develop Information for the Board's Consideration Regarding Reducing the Operating Yield

Ms. Ingersoll introduced this agenda item and invited comments and questions.

Mr. Bunosky asked that a wording change be made to page 17 of the agenda packet in the first full paragraph on this page to replace the words "that further complicates" with the words "pertaining to".

Ms. Ingersoll said that with regard to the discussion topic on page 17 of the agenda packet, the issue of having MCWD provide water for Seaside's golf courses will be presented to the Seaside City Council on Thursday March 19, 2009 in a workshop that will start at 5:30 PM. She also noted that Mr. Lyndel Melton of RMC will give an update on all of the water supply projects, and that other staff reports will also be given.

Mr. Jaques asked Mr. Bunosky if the CAW cutback amounts listed in the table on page 23 of the agenda packet were correct, and Mr. Bunosky confirmed that these numbers were correct.

Mr. Riedl and Ms. Ingersoll asked that language be added to page 19 of the agenda packet in the Conclusions section to state that it was the TAC's consensus that the Decision applies to the Basin as a whole.

With these corrections and revisions made, on a motion by Mr. Bunosky, second by Mr. Riedl, the Discussion Paper contained in the agenda packet was unanimously approved.

4. Proposed Comments on the Draft EIR for the CAW Coastal Water Project

Ms. Ingersoll introduced this item and invited comments, questions, and edits.

Mr. Bunosky asked, with regard to the comments on page 25, what authority the Watermaster has. He said the Decision seems clear on this. Mr. Jaques said he did not find clear direction on this in the Decision or the Rules and Regulations adopted by the Board.

Mr. Oliver and Mr. Bunosky said that storage agreements are required for ASR projects.

Ms. Ingersoll said that for CAW to put in new wells did not require Watermaster approval, but taking out stored water did.

Following discussion there was consensus to leave the term "approval" as-is.

There were numerous other edits and additions throughout the document. Mr. Jaques will incorporate these into a final version that will go to the Board, and will send this out via e-mail in Track-Changes form to the TAC for their final review.

There was consensus that the comments should only pertain to the Watermaster's role, and should exclude other types of comments.

Mr. Oliver commented that the Watermaster's interest is to assist with the expeditious implementation of all projects that will bring replenishment water to the Basin, or otherwise improve its condition. This should be noted in the comments.

[Note: Ms. Ingersoll and Mr. True departed the meeting at 2:58 PM at approximately this point in the agenda, and Mr. Bunosky took over as the Chair of the meeting.]

5. Schedule

Mr. Oliver explained that Database problems have delayed data input thus far. He recommended consolidation of ID Nos. 7 for February, 2009 and May 2009 to a single Quarterly Report. There was consensus to accept this approach.

There were no other comments with regard to the schedule.

6. HydroMetrics LLC Technical Memorandum Regarding the Groundwater Model

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

Some edits were requested to pages 45, 46, 55, and 57.

Ms. King said that data collection is going well and extended her thanks to all who provided data.

Ms. King asked Mr. Johnson the status of a legal opinion from MCWRA with regard to overlapping jurisdictions as discussed in the Basin Management Action Plan. Mr. Johnson said he was still pursuing a response would provide it to Ms. King as soon as he received it.

7. Decision of MCWRA Not to Perform Contract Services for the Watermaster in FY 08/09

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

Mr. Johnson said he concurred with the discussion contained in the agenda packet for this item.

Mr. Oliver asked Mr. Johnson if Ms. Thomasberg would be able to assist with a review of the Seawater Intrusion Analysis Report, and Mr. Johnson replied in the affirmative.

Mr. Fischer commented that MCWRA's decision apparently applies to the current Fiscal Year 2009, but wondered what would be the case in future years. Mr. Johnson said that that MCWRA will make a decision on that later in the current year.

8. Martin Feeney RFS No. 2009-02 to Prepare a Basis of Design Report for the New Monitoring Well

Mr. Jaques briefly summarized the agenda packet material for this item. There was brief discussion. On a motion by Mr. Oliver, second by Mr. Bunosky, there was unanimous approval to recommend Board approval of the RFS for Mr. Feeney.

9. Other business

There was no other business.

10. Set next meeting date for Wednesday April 8, 2009 at 1:30 p.m.

To be held at the Seaside City Hall Portable Office Buildings Conference Room

The next Regular TAC meeting was set for this time, date, and location.

The meeting adjourned at 4:33 p.m.

D-R-A-F-T
MINUTES

**Seaside Groundwater Basin Watermaster
Technical Advisory Committee Meeting
April 8, 2009**

Attendees: **TAC Members**
City of Seaside – Rick Riedl
California American Water – Tom Bunosky
City of Monterey – Todd Bennett
Laguna Seca Property Owners – No Representative
MPWMD – Joe Oliver
Public Member – John Fischer
MCWRA – Rob Johnson (by telephone)
City of Del Rey Oaks – No Representative
City of Sand City – No Representative
Coastal Subarea Landowners – No Representative

Watermaster
Technical Program Manager - Robert Jaques

Consultants
HydroMetrics LLC - Derrick Williams and Georgina King (by telephone)

Others:
MCWD – Brian True
Attorney for City of Seaside – Russ McGlothlin (by telephone)

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

1. Administrative Matters:

A. Approve Minutes from March 11, 2009

On a motion by Mr. Oliver, second by Mr. Riedl, the minutes were unanimously approved as presented.

2. Progress Reports

A. MPWMD

Mr. Oliver reported that the database has a good "deployment guide" as result of the work performed by Zone 24X7. He will provide this to Mr. Jaques for the Watermaster's records. Mr. Jaques, Mr. Feeney and Mr. Oliver have been working with the California Department of Parks

to renew the existing sentinel well permit and also to add the additional former U.S. Army monitoring well to the permit.

The site selection process for the new monitoring well to be located further inland is in progress. Contacts have been made with the U.S. Bureau of Land Management (BLM) and Monterey Peninsula College (MPC).

Mr. Oliver said he is in responding to HydroMetrics' data requests with regard to development of the Groundwater Model.

Mr. Fisher asked Mr. Oliver if any issues appeared to be problems with either the BLM or MPC sites. Mr. Oliver responded that the issues appeared mainly to be just normal administrative processing types of issues.

B. HydroMetrics

Ms. King reported that data collection for the groundwater model is coming along pretty well, but she is still waiting for Monterey County water level data, MPWMD water production data, and CAW monthly deliveries-by-service area data, as well as Toro and Ambler Park water system information.

She said that the next step will be working on soil moisture budget issues. She said a meeting yesterday regarding hydrostratigraphy issues and other model development issues had been held. Also, she is preparing for the Model Scenario Workshop which will be held later this month.

Mr. Bunosky reported that the Ambler Park water system data from CAW will only be data since CAW acquired that system. He commented that Monterey County may have additional information. He said that the Toro system historical data should be available.

Mr. Johnson said that compiling water level data is in progress. He said the Ambler Park data would be difficult to obtain.

Mr. True asked how the water loss data was being used, and where it would be included in the Modeling documents. Ms. King responded that it will be put into the individual cell information for the groundwater recharge portion of the Model. Mr. True said that MCWD would prefer using an "assumed" system loss rate of some typical amount such as 8.5% for all water systems. Ms. King commented that 7% to 10% is typically used. There was agreement on using this approach. Consequently, MCWD will not need to develop a specific system loss figure to be provided to Ms. King for the report.

Mr. Fischer asked if fire hydrant testing by fire departments results in too small a loss to be considered. Ms. King responded that that was correct. Mr. True said that this probably is included in the system loss percentage.

Mr. Riedl asked if the City of Seaside had been historically providing water level data. Mr. Oliver responded yes, and noted that a procedure for doing this was provided by the Watermaster

some months ago. Ms. King said there is very little water level data from Seaside currently available to her. Mr. Oliver said it appears that either little data has been generated, or data has not yet been turned in.

Mr. Bunosky asked Ms. King who will be invited to the April 23rd Model Scenario Development workshop. Ms. King said that the invitation list thus far is essentially the same as the one that was used for the last Workshop.

C. Selection of Site for New Monitoring Well (also continued discussion of Database issues)

Mr. Feeney reported that the information contained in the agenda packet for today's meeting adequately described the work he had performed to date under his current contract authorization.

Continuing today's earlier discussion with regard to the database, Mr. Jaques summarized the current status of getting the database linked to the Watermaster's website. Mr. Oliver proposed making the database accessible for a one month test period to just the TAC members to see if there are any further access "glitches" to correct. Mr. Oliver reviewed the Table on page 11 of the agenda packet which described issues pertaining to the database access levels.

Mr. Oliver pointed out that one important issue is that even Access Level 5 (general public level) can currently edit the documents in the database. Also, well logs provided by drillers are not supposed to be publicly available, but they are currently accessible at Access Level 5. Thus, Mr. Oliver recommended one of the following options: (1) the database not be linked to the Watermaster's web site, or (2) the currently known glitches be corrected before putting it on the website.

Mr. Feeney asked Mr. Oliver if it would be possible to limit access to the well logs from drillers only to Access Level 1. Mr. Oliver said this could be done.

Mr. Oliver said he will e-mail the TAC members the portal information for Access Level 5, so they can examine the database and provide their feedback.

Mr. Jaques asked Mr. Oliver if this could be done over a time period shorter than one month, and the answer was yes. Following some discussion there was consensus to proceed with option number one as described above. Mr. Oliver will e-mail the portal information to TAC members tomorrow. It was requested that comments, questions, and any other information be e-mailed to Mr. Oliver by April 23rd, so these can be compiled. Thereafter, Mr. Jaques and Mr. Oliver will work with Zone 24X7 to get the corrections made, so the database can be linked to the Watermaster's website.

Mr. Fischer asked Mr. Oliver what the "Well List" was for. Mr. Oliver said this allows you to select the well for which you are interested in getting information.

Mr. Bunosky asked Mr. Jaques if he would be seeking final TAC approval at the next regular TAC meeting before linking the updated database to the Watermaster's web site. Mr. Jaques said that he would seek approval from the full TAC before proceeding to have the database linked to the Watermaster's web site.

Mr. Johnson offered his services to Mr. Oliver with regard any database issues that may arise.

Mr. Jaques summarized the status of work on the site selection process for the new monitoring well. He noted that both the BLM and MPC sites are currently proceeding toward approval. If both sites are approved, Mr. Feeney said that he and Mr. Oliver would prefer the BLM site, but that both sites would be valuable, and if both were approved one could be used this year and the other could be used at a future date, if the Watermaster decided to put in an additional monitoring well.

3. Preliminary Planning Discussion Regarding Scenarios to be Evaluated Using the Updated Groundwater Model

(Note: this item was taken up after item 4)

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

Mr. Fischer said the Model Scenario Workshop should be posted as a TAC meeting. Mr. Bunosky asked Mr. Jaques to make the Workshop a Special TAC meeting and to post it accordingly. Mr. Jaques said that he would take that action, and would see that the agenda packet for the meeting is posted at least 72 hours prior to the meeting date.

Ms. King said that the Workshop will be scheduled to be held on April 23, 2009 at 1:30 PM. She said that the agenda is prepared and will be sent to Mr. Jaques shortly so it can be posted. She will e-mail the Model Scenario Technical Memorandum, which will be the subject of discussion at the Workshop, to TAC members next week.

Ms. King said she proposed to group various issues to form the Scenarios. She said another Scenario that may also be considered is an injection barrier. She said that a Scenario works best if a specific question is asked of the Model, rather than a broad open-ended type of question. She has developed approximately 10 Scenarios for discussion at the Workshop. These will be described in the Technical Memorandum she is preparing.

The impact on the northern ground water basin flow divide will be evaluated in each of the Scenarios.

There was some discussion between Mr. Riedl and Ms. King with regard to the northern boundary conditions that are being used in the Model.

Mr. Riedl asked if spreading basins could be added for consideration in a Scenario. Ms. King said this has already been included in one of the Scenarios.

Mr. Fischer asked Ms. King how variations in rainfall or accounted for. Ms. King responded that the Model is calibrated with multiple years of rainfall data taken into account.

Mr. Bunosky asked if the Triennial 10% pumping reductions will be taking into account. Ms. King said this is included as a Baseline Scenario, i.e. the no-new-water-supplies-available Scenario.

Mr. Fischer asked what if the SWRCB requires CAW to reduce its Carmel Basin pumping. Mr. Bunosky responded that this would not directly impact the Seaside Basin, since CAW would not increase its pumping in the Seaside Basin as a result of such a directive from the SWRCB.

Mr. Riedl requested discussion at the Workshop of a Scenario to evaluate not reducing pumping by the triennial 10% amounts required by the Decision. Mr. Jaques said he did not feel it would be an appropriate use of the consultant's cost authorization to evaluate such a Scenario, since it would be inconsistent with the direction provided by the Decision itself. There was TAC consensus on this.

Mr. Bunosky said the Model should take into account the portion of the 6,600 acre-feet per year of former Fort Ord Salinas Valley Groundwater Basin water supply that serves both existing and future development on the former Fort Ord.

Mr. Fischer asked Mr. Williams if the issue of hydro-connection between the subareas, as discussed on page 14 of the agenda packet, will be covered. Mr. Williams said that this will be a topic for discussion at the Workshop.

Other issues for discussion at the workshop were also raised and briefly discussed.

4. Continued Development of Information for the Board's Consideration Regarding Reducing the Operating Yield

(Note: At Mr. McGlothlin's request, this item was taken up before item 4)

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

Mr. Riedl and Mr. McGlothlin provided proposed edits to Attachment 2, which the TAC discussed. Mr. Jaques will make these edits and e-mail a revised version of Attachment 2 to the TAC for further review before finalizing the document so it can be provided to the Board of Directors.

Mr. McGlothlin said if we are able to make up at least part of the 420 acre-foot per year of mandated pumping reduction, the Watermaster could request the Court to allow this to be accepted as satisfactory for the current water year. There was much discussion on this topic.

Mr. Bunosky commented that the black and white answer to question (a) is "no". All TAC members concurred with Mr. Bunosky on this point, since according to Mr. Riedl the recently reconstructed golf courses are intended to require less water than in the past, so it is extremely

unlikely that the full 420 acre-feet of pumping reduction for the current Water Year can be achieved at this late point in the Water Year.

Mr. Fisher asked if the RUWAP will serve recycled water to the golf courses, and Mr. True responded that this was correct.

Mr. Riedl said that MCWD was not willing to commit to providing all the water needed by the golf courses in the event MCWD has any distribution system problems in meeting its other water demands.

Mr. McGlothlin said that the golf course wells would be used only to make up the difference between the irrigation demand of the golf courses and the amount of water that MCWD can deliver. He said that the golf courses' historical demand has been about 540 acre-feet per year, and this is what served as the basis for the establishment of this Alternative Producer Allocation water right in the Decision.

Mr. McGlothlin said he hoped to bring this topic back to the Board for action at its May meeting. He said he intends to process the topic through the Budget and Finance Committee before then.

Mr. Jaques offered to e-mail the proposed revised versions of Attachments 1 and 2 to this agenda item to the TAC members for their further review prior to sending these on to the Board. There was consensus with this approach, and Mr. Jaques will take this action within the next few days.

Mr. Bunosky asked McGlothlin if there were any CEQA issues that needed to be addressed. Mr. McGlothlin responded that all CEQA issues had already been addressed by the City of Seaside. He also noted that the Watermaster itself is exempt from CEQA with regard to any actions that it takes.

Mr. Bunosky asked how replenishment money issues would be dealt with. Mr. McLaughlin and Mr. Jaques said it was their understanding that these would be dealt with by the Budget and Finance Committee.

Note: At this point in the meeting Mr. McGlothlin departed.

5. Schedule

Mr. Jaques asked for comments or corrections with regard to the Schedule. Mr. Bunosky and Mr. Riedl asked if the Task pertaining to water meter calibration was in progress. Mr. Jaques responded that it was.

Mr. Bunosky asked if getting the overlying jurisdictional issues in the BMAP resolved was in progress. Mr. Jaques and Ms. King responded yes. Ms. King asked Mr. Jaques to please make sure MCWRA was aware that this was holding up completion of BMAP. Following discussion by the TAC there was consensus to ask Mr. Johnson to provide proposed wording to Ms. King with regard to this issue within two weeks of the date of today's meeting. If such proposed

revised language is not received from MCWRA by then, the BMAP will be finalized and printed in the form it was presented to the Board for approval earlier this year.

6. Other business

Mr. True reported that Ed Alexander had approached MCWD with regard to selling them reclaimed water from a wastewater treatment plant that he operates near Highway 68 and the Salinas River. Following a brief discussion there was consensus that this was not an issue for involvement by the Watermaster TAC.

Mr. Bunosky reported that mandatory salt and nutrient management plans are now being required of all basins in California by 2014. It was agreed that this would be discussed further at a future TAC meeting.

Mr. Riedl asked if surveying would be done next year to see if subsidence is occurring within the Basin. Mr. Jaques said that this had been proposed for inclusion in next year's budget, and can be discussed further by the TAC at that time.

7. Set next meeting date for Wednesday May 13, 2009 at 1:30 p.m.

To be held at the Seaside City Hall Portable Office Buildings Conference Room

It was agreed that the next TAC meeting will be a Special TAC meeting to be held on April 23, 2009 at 1:30 p.m. at a location yet to be determined, for the purposes of holding a Workshop on Development of Model Scenarios. Mr. Jaques will try to have the MRWPCA Boardroom made available for this meeting. If that location is not available, he will seek another location.

The next regular TAC meeting will be held on May 13, 2009 at 1:30 p.m. at the Seaside City Hall portable office buildings conference room.

The meeting adjourned at 4:17 p.m.

**SEASIDE GROUNDWATER BASIN
WATERMASTER**

TO: Board of Directors
FROM: Dewey D Evans, CEO
DATE: May 6, 2009
SUBJECT: Comparison of Water Production Reports for First Six Months of
Water Years 2009 & 2008

PURPOSE:

To compare water production for first two quarters (*six months*) of Water Year 2009 to Water Year 2008

RECOMMENDATION:

None: for information only

DISCUSSION:

It is interesting to compare the water production for the first six months of the current Water Year 2009 to the first six months of last Water Year 2008. For the period from October 1, 2008 through March 31, 2009 the total water taken from the Basin amounted to 1,491.3 acre feet. The water taken from the Basin during the period from October 1, 2007 through March 31, 2008 amounted to 1,812.2 acre feet. This means that there was a total of 320.9 acre feet of water less taken during the last six months then was taken last year during the same period of time, or looking at this in percentage terms only 82.3% of last years totals.

ATTACHMENTS:

- 1) Water Production Report for Water Year 2009
- 2) Water Production Report for Water Year 2008

2009 WATER YEAR

ITEM X.C.
5/6/2009

Seaside Groundwater Basin Watermaster

Reported Quarterly and Annual Water Production (in Acre Feet) From the Seaside Groundwater Basin For All Producers Included in the Seaside Basin Adjudication

(All Values in Acre-Feet ([AF])

Producer	Quarters				Annual To-Date Reported Total	Base Operating Yield Allocation
	Oct-Dec 2008	Jan-Mar 2009	Apr-Jun 2009	Jul-Sep 2009		
<u>Coastal Subareas</u>						
CAW (Coastal Subareas)	957.6	0.0			957.6	TBD
Seaside (Municipal)	69.9	58.6			128.5	TBD
Granite Rock Company	Exempt	Exempt			-	TBD
DBO Development No. 27	Exempt	Exempt			-	TBD
City of Seaside (Golf Courses)	96.7	27.1			123.8	540.0
Sand City	0.0	0.0			-	9.0
Security National Guaranty	0.0	0.0			0.0	149.0
Cypress Pacific Investors*	Exempt	Exempt			-	14.0
Alderwoods Group (Mission Memorial)	4.2	1.6			5.9	31.0
<i>Coastal Subarea Totals</i>	<i>1,128.4</i>	<i>87.3</i>	<i>0.0</i>	<i>0.0</i>	<i>1,215.7</i>	<i>4,611.0</i>
<u>Laguna Seca Subareas</u>						
CAW (Inland Subareas)	119.7	75.6			195.4	TBD
Pasadera Country Club	18.0	3.8			21.8	251.0
Laguna Seca/Bishop	37.0	5.7			42.7	320.0
York School	4.4	2.6			7.0	32.0
Laguna Seca Park (County)	5.8	2.9			8.7	41.0
<i>Laguna Seca Subarea Totals</i>	<i>185.0</i>	<i>90.6</i>	<i>-</i>	<i>-</i>	<i>275.6</i>	<i>989.0</i>
<i>Cumulative Total Per Quarter</i>	<i>1,313.4</i>	<i>177.9</i>	<i>-</i>	<i>-</i>		
Seaside Basin Production Totals =					1,491.3	5,600.0
Total Production by Alternative Producers =					209.9	
Total Production by Standard Producers =					1,281.4	

*Referred to as "M.E. Calabrese 1987 Trust" in Decision

Notes:

1. The water year (WY) begins October 1 and ends September 30 of the following calendar year. For example, WY 2009 began on October 1, 2008, and will end on September 30, 2009.
2. Values shown in the table are based on reports to the Watermaster as received directly or by MPWMD by **April 15, 2009**.
3. All values are rounded to the nearest tenth of an acre-foot. Where required, reported data were converted to acre-feet utilizing the relationships: 325,851 gallons = 43,560 cubic feet = 1 acre-foot.
4. "Operating Yield" values based on Seaside Basin Adjudication decision as amended, signed February 9, 2007 (Monterey County Superior Court Case No. M66343).
5. Any minor discrepancies in totals are attributable to rounding. CAW = California American Water.
6. Graniterock Company, DBO Development No. 27, and Cypress Pacific Investors exempted from production reporting by Watermaster TAC February 2008.
7. Base Operating Yield Allocations are To Be Determined "TBD" once review of the City of Seaside contention of Replenishment Assessment Calculation is complete.

2008 WATER YEAR

Seaside Groundwater Basin Watermaster

Reported Quarterly and Annual Water Production (in Acre Feet) From the Seaside Groundwater Basin For All Producers Included in the Seaside Basin Adjudication

(All Values in Acre-Feet ([AF])

Producer	Quarters				Annual To-Date Reported Total	Base Operating Yield Allocation
	Oct-Dec 2007	Jan-Mar 2008	Apr-Jun 2008	Jul-Sep 2008		
<u>Coastal Subareas</u>						
CAW (Coastal Subareas)	1,049.9	224.8	721.5	1,333.6	3,329.9	3,504.0
Seaside (Municipal)	76.0	53.7	92.0	72.5	294.3	287.0
Granite Rock Company	0.0	--	--	--	0.0	27.0
DBO Development No. 27	0.0	--	--	--	0.0	49.0
City of Seaside (Golf Courses)	87.1	36.2	200.7	268.9	592.9	540.0
Sand City	0.0	0.0	0.0	0.0	0.0	9.0
Security National Guaranty	2.0	2.1	0.2	0.0	4.3	149.0
M.E. Calabrese 1987 Trust	0.0	0.0	0.0	--	0.0	14.0
Alderwoods Group	4.2	1.4	5.4	9.8	20.8	31.0
<i>Coastal Subarea Totals</i>	<i>1,219.2</i>	<i>318.3</i>	<i>1,019.9</i>	<i>1,684.8</i>	<i>4,242.1</i>	<i>4,611.0</i>
<u>Laguna Seca Subareas</u>						
CAW (Inland Subareas)	113.1	88.4	156.2	175.7	533.2	345.0
Pasadera Country Club	11.2	3.9	64.9	61.3	141.3	251.0
Laguna Seca/Bishop	31.7	9.2	122.8	136.4	300.2	320.0
York School	4.0	2.9	7.0	8.1	22.0	32.0
Laguna Seca Park (County)	7.3	3.1	9.4	13.4	33.1	41.0
<i>Laguna Seca Subarea Totals</i>	<i>167.2</i>	<i>107.5</i>	<i>360.3</i>	<i>394.9</i>	<i>1,029.8</i>	<i>989.0</i>
<i>Cumulative Total Per Quarter</i>	<i>1,386.4</i>	<i>425.8</i>	<i>1,380.2</i>	<i>2,079.7</i>		
Seaside Basin Production Totals =					5,271.9	5,600.0
Total Production by Alternative Producers =					1,114.6	
Total Production by Standard Producers =					4,157.3	

Notes:

1. The water year (WY) begins October 1 and ends September 30 of the following calendar year. For example, WY 2008 began on October 1, 2007, and will end on September 30, 2008.
2. Values shown in the table are based on reports to the Watermaster as received by MPWMD by **October 16, 2008**.
3. All values are rounded to the nearest tenth of an acre-foot. Where required, reported data were converted to acre-feet utilizing the relationships: 325,851 gallons = 43,560 cubic feet = 1 acre-foot.
4. "Operating Yield" values based on Seaside Basin Adjudication decision as amended, signed February 9, 2007 (Monterey County Superior Court Case No. M66343).
5. Any minor discrepancies in totals are attributable to rounding. CAW = California American Water.
6. Graniterock Company and DBO Development No. 27 exempted from production reporting by Watermaster TAC February 2008.



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SEASIDE BASIN WATERMASTER MEMORANDUM 2009-01

Date: April 30, 2009
To: Seaside Basin Watermaster
From: Joe Oliver, PG, CHg, Senior Hydrogeologist
Tom Lindberg, Associate Hydrologist

Subject: Report of Water Year 2009, First and Second Quarter, Groundwater Quality and Level Data Collected for the Seaside Groundwater Basin Watermaster

SUMMARY

This memorandum transmits and summarizes groundwater quality and groundwater level data collected for the Seaside Groundwater Basin Watermaster Board (Watermaster) during Water Year (WY)¹ 2009, for the first and second quarters. The first quarter report was not prepared separately from this combined first and second quarter report as the Watermaster has been in the process of deploying its comprehensive water resources database to a new server host location during this period. This report incorporates the data that were collected and reported during the period from October 1, 2008 through December 31, 2008 (i.e., first quarter WY 2009) and from January 1, 2009 through March 31, 2009 (i.e., second quarter WY 2009). This information is being provided to the Watermaster for information purposes, and is in compliance with the monitoring protocols described in the Watermaster's *Seaside Basin Monitoring and Management Program* (SBMMP, revision date September 5, 2006), which was prepared in response to the court decision filed March 27, 2006 (as amended by February 9, 2007 filing) in the Seaside Basin adjudication case. This document has been prepared by the Monterey Peninsula Water Management District (MPWMD) on behalf of the Watermaster.

This document is organized into the following three categories of data:

- MPWMD and other basin wells water quality data
- Basin Producer wells water level data
- Basin monitor wells water level data

¹ The WY begins on October 1, and ends September 30 of the indicated year.

WATER QUALITY DATA: MPWMD AND OTHER BASIN WELLS**MPWMD Coastal Monitor Well Network**

Under the current monitoring program conducted for the Watermaster, the MPWMD collects *quarterly* samples from six monitor wells at three locations that are closest to the coastline, and *annually* from six additional wells at three locations that are farther from the coastline. The well numbers, names and sampling schedule for the MPWMD coastal monitor wells currently being sampled for the Watermaster are listed below.

MPWMD Coastal Monitor Wells

<u>Well Number</u>	<u>Well Name</u>	<u>Sample Interval</u>
15S01E15N3	MSC-Shallow	quarterly
15S01E15N2	MSC-Deep	quarterly
15S01E15F1	PCA-W-Shallow	quarterly
15S01E15F2	PCA-W-Deep	quarterly
15S01E11Pa	FO-09-Shallow	quarterly
15S01E11Pb	FO-09-Deep	quarterly
15S01E15K5	PCA-E-Shallow	annually
15S01E15K4	PCA-E-Deep	annually
15S01E23Ca	Ord Terrace-Shallow	annually
15S01E23Cb	Ord Terrace-Deep	annually
15S01E12Fa	FO-10-Shallow	annually
15S01E12Fc	FO-10-Deep	annually

These sites are shown on **Figure 1** and completion data for these wells are shown in **Table 1**. At each site, a “shallow” and “deep” monitor well have been installed (either in separate boreholes or as multiple completions in a single borehole), generally corresponding to well completions within the two principal aquifer units that have been historically recognized in the Seaside Basin, the Paso Robles Formation (QTp) and Santa Margarita Sandstone (Tsm), respectively. The monitor wells are constructed of 2-inch PVC casing, with screens adjacent to the more permeable (i.e., based on lithologic and geophysical logging analyses) sand “packages” within each aquifer unit. The aquifer units are separated from each other in the wells by cement strata-isolation seals.

MPWMD Coastal Monitor Wells Water Sample Collection

Water sample collection from the MPWMD coastal monitor wells is accomplished by “air-lift” pumping. The method utilizes a 3/4-inch PVC dedicated airline in the well, which is coupled to a portable air compressor. The wellhead configuration is fashioned after that shown in **Figure 2**.

Due to the small diameter of the monitor wells, the well casing is used as the “eductor” pipe, rather than a separate eductor pipe inside the well. Through experience, it has been determined that acceptable pumping results can be achieved if the bottom of the airline is placed at a depth that gives approximately 50 percent pumping submergence (i.e., the ratio of the length of the airline below the pumping water level to the total length of the airline). The air-lift method can be inappropriate for certain groundwater quality constituents due to chemical changes brought about by air entrainment in the purged water; however, it is considered appropriate for the suite of general minerals and trace inorganic constituents that are currently analyzed from the collected samples.

The volume of water removed from each well prior to sampling is normally three casing volumes, as a standard sampling protocol. Sampling is supplemented by field measurement of several indicator parameters (i.e., pH, temperature, Specific Conductance) that are collected during pumping, which ensures that the groundwater quality has stabilized prior to sample collection. Upon collection of the samples, samples are handled through applicable chain-of-custody procedures and are analyzed by a State-certified water chemistry laboratory.

MPWMD Coastal Monitor Wells Water Quality Results

Water chemistry analytical results for the samples collected during the first and second quarters of WY 2009 from the MPWMD coastal monitor wells are provided in the table in **Appendix 1**. This table and other water-level data tables in this document were prepared utilizing the “report” feature of the groundwater resources database that was created for the Watermaster in 2007.

In general, the chemical data from the first and second quarter WY 2009 samplings of these monitor wells do not show significant changes relative to the results provided in previous quarterly reports, and are not indicative of seawater intrusion into the basin at the locations and depths of these monitor well completions. As noted above, the screened intervals of the monitor wells are adjacent to sand “packages” within the target aquifers and as such, do not represent water-quality conditions throughout the entire thickness of each aquifer, but are representative of the more permeable zones within the aquifers at each well location.

As an additional guide in assessing potential seawater intrusion, the Watermaster’s *Seawater Intrusion Response Plan* (SIRP), dated February 2009 and prepared for the Watermaster by Hydrometrics, LLC, includes statistically-derived chloride “threshold” values for the MPWMD coastal monitor wells². Chloride concentrations greater than the threshold values may indicate the onset of seawater intrusion. A comparison of the most recent second quarter WY 2009 chloride concentrations with their respective threshold values is provided in **Table 2**. As shown in this table, the current water-quality sample results do not show chloride concentrations above the threshold values. Accordingly, the most recent results are in conformance with provisions of the SIRP and do not indicate potential seawater intrusion.

² HydroMetrics, LLC (2009), *Seawater Intrusion Response Plan*, Seaside Basin, Monterey County, California. Prepared for Seaside Basin Watermaster, February 2009, see Table 1.

WATER LEVEL DATA: BASIN PRODUCER WELLS

Basin producer active and inactive wells with water level data collected during the first and second quarters of WY 2009 are provided in **Appendix 2**. The general locations of these wells are shown on **Figure 3**. These water-level data were collected primarily with manual water-level sounding devices by producers or by the Watermaster on behalf of the producers. These water-level data have been entered into the Watermaster database, and this table was generated with the report feature of the database. The Watermaster is continuing to refine the reporting feature of the database, so future reports may vary from the format provided here.

It should be noted that the table in **Appendix 2** includes the “reference point elevations” that were recently surveyed for each well, as part of work conducted for the Watermaster. The reference point elevations were established at the water-level data collection point at each wellhead. The reference point elevations are tied to the North American Vertical Datum of 1988 (NAVD88). The measurements in NAVD88 datum have been adjusted for the Watermaster’s use by subtracting 2.97 feet to conform to local Mean Sea Level (MSL) reference, based on data provided by the surveyor. The “depth to water” measurement at each well is subtracted from the reference point elevation to obtain the “water elevation” shown in the right-hand column of the table.

The Watermaster has requested that producers collect and report “static”, i.e., non-pumping, water-level measurements. The purpose for this is so these measurements will more closely approximate ambient groundwater-level conditions, and facilitate the plotting of well water-level hydrographs. Occasionally, water-level measurements have been collected and reported while the well was in operation. In some cases this may be due to the fact that the well can not be taken offline to collect a static water-level measurement because of pumping demand requirements. To avoid confusing pumping and non-pumping water level measurements in the database, a standard code “999” entry is made in the “depth to water” column, and the corresponding “water-level elevation” is not provided. This allows these non-static water-level measurements to be easily identified when preparing well water-level hydrographs. The actual reported pumping water-level measurement is retained elsewhere in the database, however. Similarly, if no water-level measurement was reported on an indicated date on a producer reporting form, a standard code “999.9” entry is made in the “depth to water” column.

WATER LEVEL DATA: BASIN MONITOR WELLS

Basin monitor well water-level data collected during the first and second quarters of WY 2009 are provided in the table in **Appendix 3**. The general locations of these wells are shown on **Figure 3**. These water-level data have also been entered into the Watermaster database, and this table was generated with the report feature of the database.

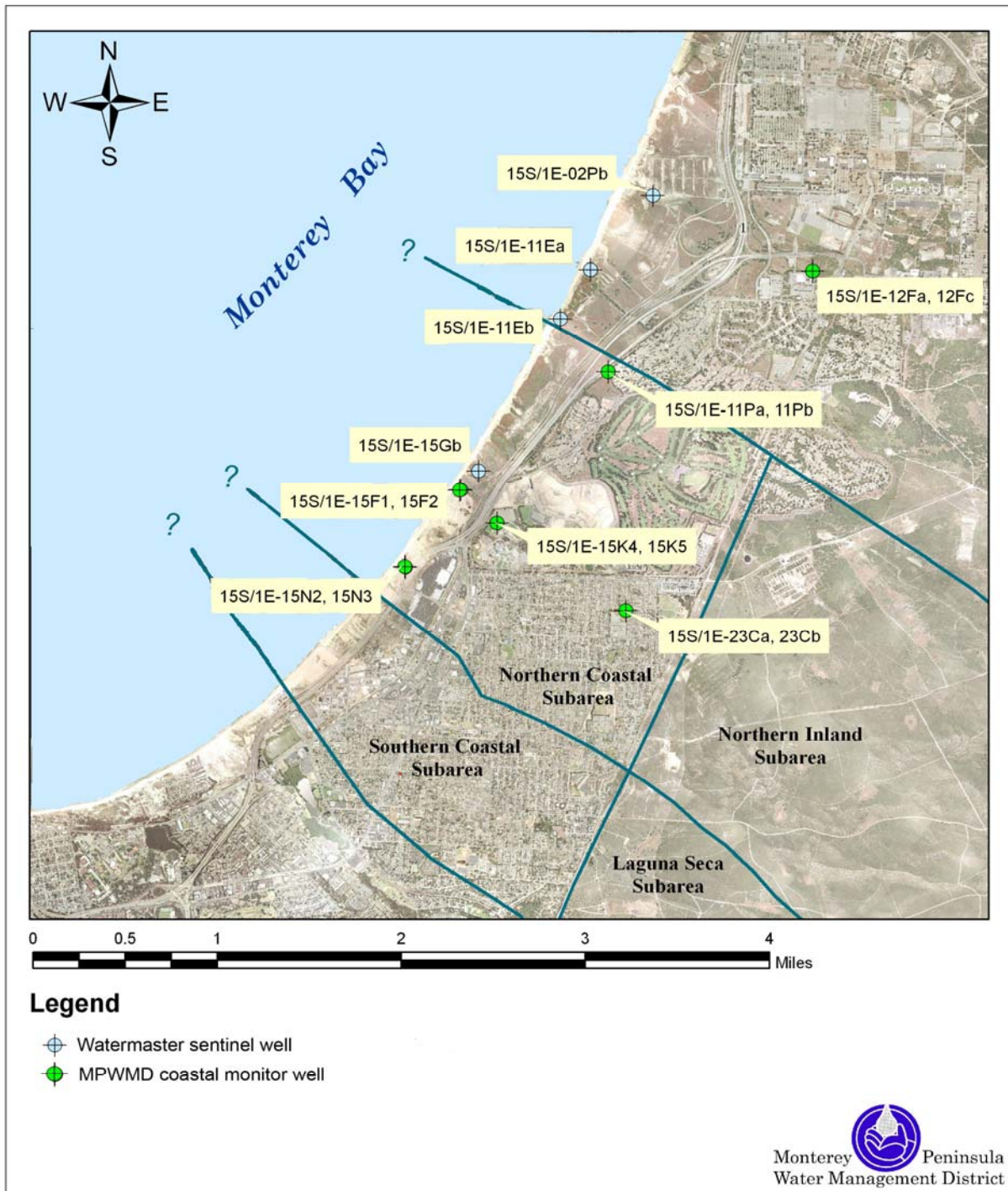
CONCLUSIONS

- Due to actions by the Watermaster in WY 2008 to notify and remind basin producers of their obligations to collect required groundwater level and groundwater quality data from their wells, the availability of these data to assist in analysis of the basin's groundwater resources has greatly improved compared to prior years.
- The chemical data from the first and second quarters of WY 2009 for the MPWMD dedicated coastal monitor wells do not show significant changes relative to previous samplings, and are not indicative of seawater intrusion into the basin at the locations and depths of these monitor wells.
- Based on the water-level data collected during the first and second quarters of WY 2009, water-level elevations varied from -51.61 feet above mean sea level (amsl) (Well No. 153) to 55.48 feet amsl (Well No. 177) in the coastal subareas of the basin, and from -33.25 feet amsl (Well No. 257) to 244.43 feet amsl (Well No. 134) in the inland subareas of the basin.

RECOMMENDATIONS

- The potential utility of using dedicated water-quality datalogger probes in selected monitor wells that are currently being sampled for water quality on a quarterly basis should continue to be evaluated. If suitable and reliable datalogger installations prove successful, then the water-quality sample collection frequency at these sites could be reduced.
- Coordination with the US Army and other involved local agencies should continue regarding the siting and installation of a new dedicated groundwater monitoring well site in the inland area of the basin near the northern basin boundary. This work is included in the Watermaster's plans and budget for 2009.
- Quarterly groundwater sample collection at the MPWMD coastal monitor wells and quarterly induction logging at the Watermaster Sentinel wells should be collected, to the extent feasible, near the beginning of each quarter of this and future water years (i.e., during the months of October, January, April and July). In addition, annual water-quality samples for Watermaster producer wells in the coastal area should be collected at the beginning of the fourth quarter of this and future water years (i.e., during the month of July). Water-quality monitoring on this schedule will improve the ability to have these data available in time to incorporate into the annual *Seawater Intrusion Analysis Reports* (to be prepared each October) and for incorporation into the *Watermaster Annual Reports* (to be prepared each November).

SEASIDE GROUNDWATER BASIN WATERMASTER SEASIDE COASTAL WATER QUALITY MONITOR WELL LOCATIONS



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Figure 1. MPWMD Seaside Basin Coastal Monitor Well Locations.

MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

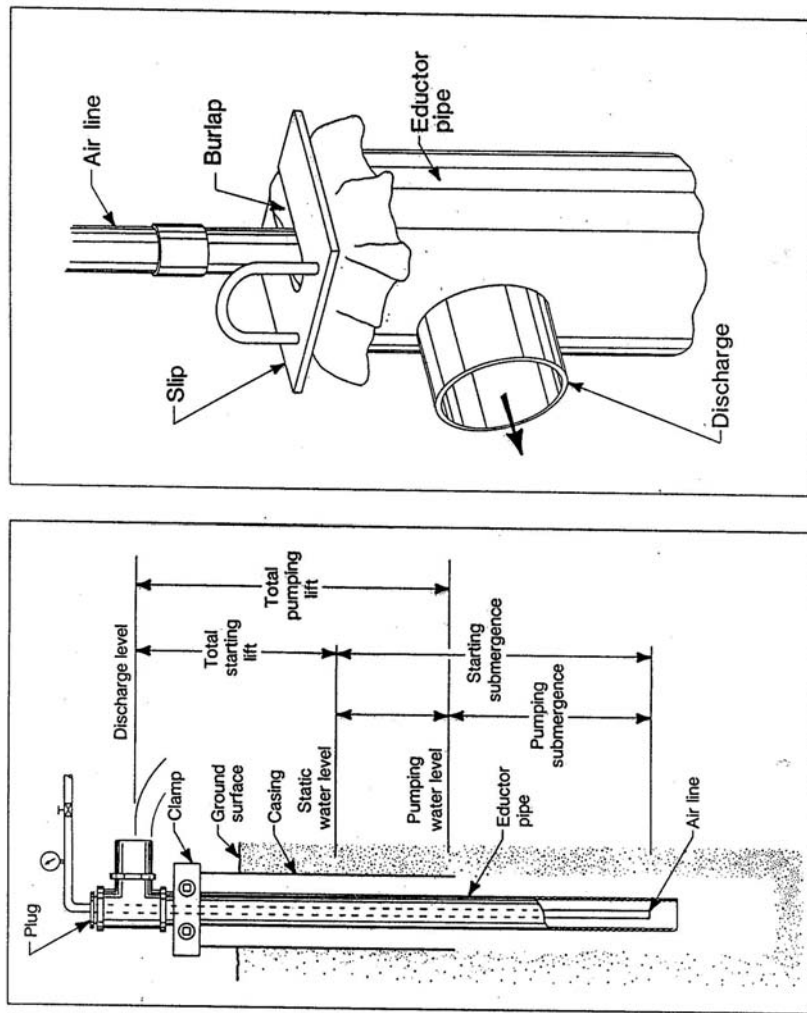


Figure 2. Diagrams illustrating the airlift-pumping method for water sample collection (from Driscoll, 1986, Figure 15.10)

Figure 3. General locations of monitor and production wells included in this report.

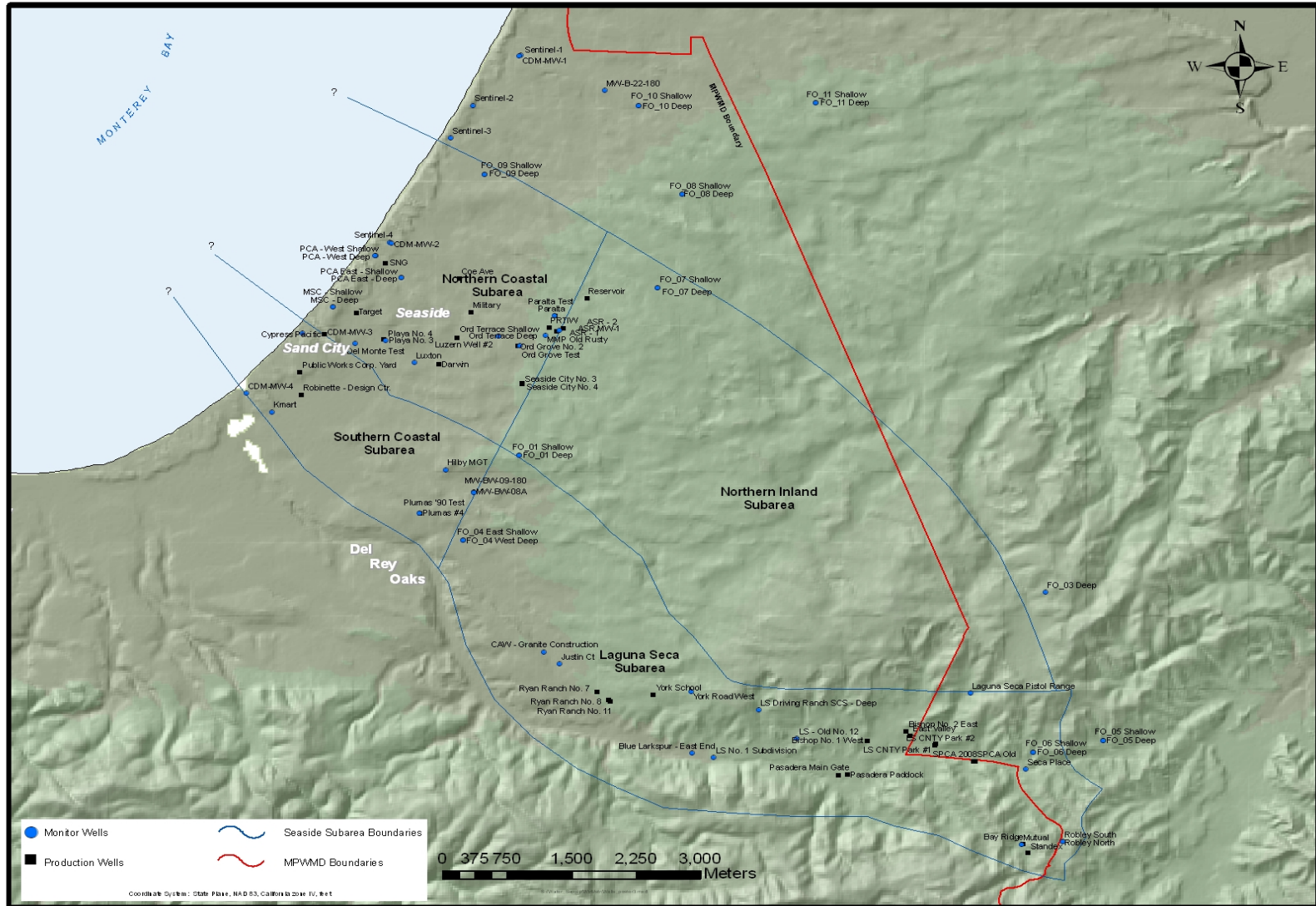


Table 1. Summary of Well Completions, MPWMD Coastal Seaside Basin Water Quality Monitor Wells.

SUMMARY OF MPWMD COASTAL SEASIDE BASIN GROUNDWATER QUALITY MONITOR WELLS													
Site	Well Name	Location Description	Well Number	Date Drilled	DWR Drillers Log	Hole Depth (feet)	Well Depth (feet)	Screened Interval (feet)	Strata Seal (feet)	Casing Type	Geologic Unit	E-Log	Elevation (feet AMSL)
MSC		former MSC mine north of Playa Ave. and west of Hwy. 1											
	MSC-Shallow	approx. 10' S of north property line	15S/1E-15N3	5/25/1990	338413	720	695	490 - - 680	95 - 275	2" pvc	QTp	- - -	80.1
	MSC-Deep	approx. 7' E of MSC-Shallow	15S/1E-15N2	5/25/1990	338425	920	865	810 - 850	725 - 775	2" pvc	Tsm	yes	80.29
PCA WEST		former PCA mine W of Hwy. 1											
	PCA-W Shallow	approx. 200' SE of ocean bluff	15S/1E-15F1	3/28/1990	338400	600	585	525 - 575	120 - 150	2" pvc	QTp	- - -	64.22
	PCA-W Deep	approx. 50' E of PCA-W Shallow	15S/1E-15F2	3/90	338401	900	885	825 - 875	760 - 790	2" pvc	Tsm	yes	65.18
PCA EAST		vacant lot NE of Seaside High baseball field											
	PCA-E Shallow	approx. 300' E Monterey Rd, 50" N fence	15S/1E-15K5	4/16/1990	338402	863	410	350 - 400	110 - 150	2" pvc	QTp	- - -	68.51
	PCA-E Deep	(same borehole as shallow well)	15S/1E-15K4	4/16/1990	338402	863	710	650 - 700	580 - 620	2" pvc	Tsm	yes	68.54
ORD TERRACE		Ord Terrace School property south of Ord Grove Ave.											
	OT-Shallow	1700 block Ord Grove Ave.	15S/1E-23Ca	8/5/1999	- - -	530	340	280 - 330	0 - 260	2" pvc	upper Tsm	- - -	228.65
	OT-Deep	(same borehole as shallow well)	15S/1E-23Cb	8/5/1999	- - -	530	450	390 - 440	350 - 377	2" pvc	lower Tsm	yes	228.63
MPWMD #FO-09		E of Hwy.1, SE of Okinawa Rd.											
	#9-Shallow	50' east of utility service rd.	15S/1E-11Pa	8/16/1994	- - -	1,110	660	610 - 650	500 - 540	2" pvc	QTp (?)	- - -	118.89
	#9-Deep	(same borehole as shallow well)	15S/1E-11Pb	8/16/1994	- - -	1,110	840	790 - 830	700 - 765	2" pvc	Tsm (?)	yes	118.85
MPWMD #FO-10		south of Light Fighter Drive, behind Barker Theater Building											
	#10-Shallow	20' north of access road curb	15S/1E-12Fa	9/3/1996	- - -	1,500	650	620 - 640	480 - 500	2" pvc	QTp	- - -	200.85
	#10-Deep	(same borehole as shallow well)	15S/1E-12Fc	9/3/1996	- - -	1,500	1,420	1380 - 1410	1280 - 1300	2" pvc	Tsm (?)	yes	201.03
<p>NOTES:</p> <ol style="list-style-type: none"> 1. Official State well numbers end with a numeral; unofficial MPWMD well numbers end with a small case letter. 2. Geologic Unit refers to the unit adjacent to the screened interval: QTp = Paso Robles Formation; Tsm = Santa Margarita Sandstone. 3. Elevation refers to the water level reference point elevation surveyed by Central Coast Surveyors. For additional information, see "Documentation of 2008 Well Elevation Surveys", MPWMD Seaside Basin Watermaster Memorandum 2008-05. 4. Well completion data at site MSC are documented in "Installation of Monitoring Well Cluster, Monterey Sand Company", Staal, Gardner & Dunne, Inc. (SGD), July 1990. 5. Well completion data at sites PCA West and PCA East are documented in "Hydrogeologic Investigation, PCA Well Aquifer Test", SGD, July 1990. 6. Well completion data at site MPWMD FO-09 are documented in "Summary of 1994 Fort Ord Monitor Well Installations", MPWMD Technical Memorandum 94-07. 7. Well completion data at site MPWMD FO-10 are documented in "Summary of 1996 Seaside Basin Monitor Well Installations", MPWMD Technical Memorandum 97-04. 8. Two dashes (i.e., "- -") indicate multiple screened intervals. 9. Three dashes (i.e., "- - -") indicate not applicable or not available. 													

Table 2. Comparison of Chloride Concentration with Threshold Values from MPWMD Coastal Monitor Wells.

MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

**SEASIDE GROUNDWATER BASIN: COMPARISON OF SECOND QUARTER
 WATER YEAR 2009 CHLORIDE CONCENTRATIONS WITH THRESHOLD VALUES
 FOR MPWMD COASTAL MONITOR WELLS**

MPWMD Well Number	Well Name	Chloride (milligrams per liter)				
		<u>Sample Date</u>	<u>Result</u>	<u>Threshold Value</u>	<u>Relative Percent Difference</u>	
T15S/R1E-15N3	MSC-Shallow	1/28/2009	41	62	41%	less
T15S/R1E-15N2	MSC-Deep	1/28/2009	143	182	24%	less
T15S/R1E-15F1	PCA West-Shallow	1/28/2009	42	70	50%	less
T15S/R1E-15F2	PCA West-Deep	1/28/2009	147	186	23%	less
T15S/R1E-11Pa	FO-09 - Shallow	1/28/2009	48	67	33%	less
T15S/R1E-11Pb	FO-09 - Deep	1/28/2009	61	85	33%	less

Notes:

- The Threshold Chloride concentration values are statistically-derived as described in Appendix C of *Seawater Intrusion Response Plan, Seaside Basin, Monterey County California*, HydroMetric, LLC, February 2009.
- Relative Percent Difference (RPD) is calculated as:

$$RPD = \frac{| \text{Result} - \text{Threshold} |}{(\text{Result} + \text{Threshold}) / 2} \times 100 \quad (\text{expressed as a percentage less or greater than Threshold})$$

APPENDIX 1

SEASIDE BASIN GROUNDWATER QUALITY MONITORING RESULTS

Water Year 2009, First and Second Quarters

MPWMD AND OTHER WELLS

GROUNDWATER QUALITY MONITORING RESULTS

WY 2009 - Quarters 1 and 2

Units are milligrams per liter, unless otherwise stated.

Date Of Sample	Specific Conductance (micro mhos/cm)	Total Alkalinity (as CaCO3)	pH (units)	Chloride	Sulfate	Ammonia Nitrogen (as NH3)	Nitrate Nitrogen (as NO3)	Total Organic Carbon	Calcium	Sodium	Magnesium	Potassium	Iron	Manganese	Ortho-phosphate	Total Dissolved Solids	Hardness (as CaCO3)	Boron	Bromide	Fluoride
Well Number: 101 Name: MSC-Shallow																				
1/28/2009	325	73	8.0	41	17	0.05	<1	0.45	18	38	4	3.8	<0.100	<0.020	<0.2	230	61	0.15	0.5	0.14
10/10/2008	316	70	8.2	42	17	0.05	<1	<0.20	17	36	4	3.8	<0.100	<0.020	<0.2	241	59	0.05	0.2	0.18
Well Number: 102 Name: MSC-Deep																				
1/28/2009	968	226	8.1	143	42	0.07	<1	0.47	77	108	14	4.6	<0.100	0.058	<0.2	570	250	0.08	0.6	0.22
10/10/2008	963	210	8.3	150	43	0.09	<1	<0.20	73	97	13	4.9	<0.100	0.053	<0.2	586	236	0.11	0.5	0.19
Well Number: 103 Name: PCA-W Shallow																				
1/28/2009	309	66	8.2	42	11	<0.05	4	0.33	18	33	5	2.2	<0.100	<0.020	<0.2	227	66	0.09	<0.2	<0.10
10/10/2008	310	67	8.2	42	11	<0.05	4	<0.20	20	34	5	2.5	<0.100	<0.020	<0.2	221	71	0.05	<0.2	<0.10
Well Number: 104 Name: PCA-W Deep																				
1/28/2009	942	206	8.0	147	40	0.08	<1	1.1	72	106	14	5.7	<0.100	0.093	<0.2	565	237	0.17	0.5	0.24
10/10/2008	984	220	8.2	154	41	0.11	<1	0.30	75	101	17	5.2	<0.100	0.081	<0.2	598	257	0.14	0.5	0.25
Well Number: 111 Name: MPWMD #FO-09-Shallow																				
1/28/2009	328	66	8.0	48	13	<0.05	<1	0.35	22	33	5	3.8	<0.100	<0.020	<0.2	230	76	0.08	<0.2	0.16
10/10/2008	336	63	8.3	50	17	<0.05	<1	<0.20	22	36	4	3.7	<0.100	<0.020	<0.2	232	71	0.08	<0.2	0.10
Well Number: 112 Name: MPWMD #FO-09-Deep																				
1/28/2009	420	90	8.2	61	14	<0.05	<1	0.49	26	50	4	4.0	<0.100	<0.020	<0.2	247	81	0.13	<0.2	<0.10
10/10/2008	420	90	8.3	65	14	<0.05	<1	<0.20	25	48	4	3.9	<0.100	<0.020	<0.2	271	79	0.09	0.3	<0.10
Well Number: 171 Name: PCA Production																				
11/3/2008	Lab results incomplete -- pending additional parameter results. Unknown sample collection method.																			

NOTES: (1) Maximum contaminant levels are from California Domestic Water Quality and Monitoring Regulations, Title 22, 1997.

(2) The three values listed for certain constituents refer to the "recommended" level, the "upper" level, and "short-term use" level, respectively.

APPENDIX 2

SEASIDE BASIN GROUNDWATER LEVEL MONITORING RESULTS

Water Year 2009, First and Second Quarters

BASIN PRODUCER WELLS

SEASIDE BASIN WATERMASTER
GROUNDWATER LEVEL MONITORING RESULTS

Water Year 2009 - Quarters 1 and 2

Period: 10/01/2008 to 03/31/09

Producer Wells with Water Level Data

(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
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Northern Coastal Subarea Wells

Well Number: 186 Name: CAW - Darwin

	10/30/2008	115.1	134.05	18.95	
	11/26/2008	999.9	134.05	*	Code "999.9" = no measurement taken
	12/18/2008	114	134.05	20.05	
	1/29/2009	118	134.05	16.05	
	2/26/2009	111.1	134.05	22.95	
	3/26/2009	118	134.05	16.05	

Well Number: 159 Name: CAW - New Luzern

	10/30/2008	187	156.99	-30.01	
	11/26/2008	187.6	156.99	-30.61	
	12/18/2008	186.4	156.99	-29.41	
	1/29/2009	183.6	156.99	-26.61	
	2/26/2009	177	156.99	-20.01	
	3/26/2009	178	156.99	-21.01	

Well Number: 151 Name: CAW - Military

	10/30/2008	164.6	135.8	-28.80	
	11/26/2008	999.9	135.8	*	Code "999.9" = no measurement taken
	12/18/2008	164	135.8	-28.20	
	1/29/2009	174	135.8	-38.20	
	2/26/2009	170	135.8	-34.20	
	3/26/2009	172	135.8	-36.20	

Well Number: 153 Name: CAW - Ord Grove #2

	10/30/2008	999	292.39	*	Code 999 = well on - level 386.1'
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(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
	11/26/2008	999	292.39	*	Code 999 = well on - level 376.3'
	12/18/2008	344	292.39	-51.61	
	1/29/2009	999.9	292.39	*	Code "999.9" = no measurement taken
	2/26/2009	999.9	292.39	*	Code "999.9" = no measurement taken
	3/26/2009	326	292.39	-33.61	

Well Number: 169 Name: CAW - Paralta

	10/30/2008	999	324.49	*	Code 999 = well on, level 379.7'
	11/26/2008	999	324.49	*	Code 999 = well on, level 376.2'
	12/18/2008	999	324.49	*	Code 999 = well on, level 375.0'
	1/9/2009	345	324.49	-20.51	
	2/26/2009	344	324.49	-19.51	
	3/26/2009	343	324.49	-18.51	

Well Number: 162 Name: CAW-Playa #3

	10/30/2008	999	53.02	*	Code 999 = well on, level 148.0'
	11/26/2008	999	53.02	*	Code 999 = well on, level 148.8'
	12/8/2008	54.9	53.02	-1.88	
	1/29/2009	54	53.02	-0.98	
	2/26/2009	52	53.02	1.02	
	3/26/2009	52	53.02	1.02	

Well Number: 152 Name: Target Well

	10/31/2008 1112	61.72	44.42	-17.30	
	12/5/2008 1045	62.03	44.42	-17.61	
	1/7/2009 1035	60.73	44.42	-16.31	
	1/29/2009 1048	58.03	44.42	-13.61	
	3/3/2009 1335	57.9	44.42	-13.48	
	3/31/2009 1312	57.95	44.42	-13.53	

Well Number: 171 Name: PCA Production

	10/28/2008 1700	68.5	80	11.50	
	11/29/2008 1220	67.92	80	12.08	

(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
	12/26/2008 1200	68.25	80	11.75	
	1/27/2009 1130	68.33	80	11.67	
	2/27/2009 1330	68.26	80	11.74	
	3/26/2009 1630	68.5	80	11.50	

Southern Coastal Subarea Wells

Well Number: 177 Name: CAW - Plumas #4

	10/30/2008	110.4	161.48	51.08	
	11/26/2008	999	161.48	*	Code 999 = well on - level 218.4'
	12/18/2008	109.8	161.48	51.68	
	1/29/2009	110	161.48	51.48	
	2/26/2009	106	161.48	55.48	
	3/26/2009	107	161.48	54.48	

Well Number: 150 Name: Cypress Pacific

	10/31/2008 1049	46.72	50.23	3.51	
	12/5/2008 1059	46.98	50.23	3.25	
	1/7/2009 1015	46.72	50.23	3.51	
	1/29/2009 1117	46.71	50.23	3.52	
	3/3/2009 1315	46.66	50.23	3.57	
	3/31/2009 1253	46.56	50.23	3.67	

Well Number: 165 Name: Public Works Corp. Yard

	10/31/2008 1455	41.89	47.25	5.36	
	12/5/2008 1328	41.98	47.25	5.27	
	1/7/2009 1610	42.36	47.25	4.89	
	1/29/2009 1126	42.21	47.25	5.04	
	3/3/2009 1236	42.11	47.25	5.14	

Well Number: 167 Name: Robinette -Design Ctr.

	10/31/2008 1510	13.63	21.31	7.68	
	12/5/2008 1320	13.83	21.31	7.48	
	1/29/2009 1131	13.87	21.31	7.44	

(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
	3/3/2009 1240	13.79	21.31	7.52	

Southern Inland Subarea Wells

Well Number: 226 Name: Bay Ridge

	10/30/2008	999	545.92	*	Code 999 = well on - level 438.0
	11/26/2008	370	545.92	175.92	
	12/18/2008	366	545.92	179.92	
	1/29/2009	365	545.92	180.92	
	2/26/2009	999	545.92	*	Code 999 = well on - level 422.0
	3/28/2009	362	545.92	183.92	

Well Number: 209 Name: Bishop #1 (west)

	10/30/2008	260	398.81	138.81	
	11/26/2008	999	398.81	*	Code 999 = well on - level 270.0
	12/18/2008	999	398.81	*	Code 999 = well on - level 250
	1/29/2009	254	398.81	144.81	
	2/26/2009	246	398.81	152.81	
	3/26/2009	999	398.81	*	Code 999 = well on - level 307.0

Well Number: 210 Name: Bishop #2 (east)

	10/30/2008	251	418.34	167.34	
	11/26/2008	250	418.34	168.34	
	12/18/2008	240	418.34	178.34	
	1/29/2009	999.9	418.34	*	Code 999.9 = no measurement taken
	2/26/2009	999.9	418.34	*	Code 999.9 = no measurement taken
	3/26/2009	999.9	418.34	*	Code 999.9 = no measurement taken

Well Number: 213 Name: Ryan Ranch #7

	10/30/2008	999	294	*	Code 999 = well on - level 424.0'
	11/26/2008	999	294	*	Code 999 = well on - level 415.0'
	12/18/2008	999	294	*	Code 999 = well on - level 425.0'
	1/29/2009	999	294	*	Code 999 = well on - level 401.0'
	2/26/2009	999	294	*	Code 999 = well on - level 335.0'

(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
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	3/26/2009	260.6	294	33.40	
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Well Number: 216 Name: Ryan Ranch #8

	10/30/2008	253	306.86	53.86	
	11/26/2008	245	306.86	61.86	
	12/18/2008	259	306.86	47.86	
	1/29/2009	206	306.86	100.86	
	2/26/2009	201	306.86	105.86	
	3/26/2009	204	306.86	102.86	

Well Number: 215 Name: Ryan Ranch #11

	10/30/2008	999	307.59	*	well on - level 366.0'
	11/26/2008	999	307.59	*	well on - level 365.0'
	12/18/2008	374	307.59	-66.41	well off note may be an error
	1/29/2009	205	307.59	102.59	
	2/26/2009	198	307.59	109.59	
	3/26/2009	200	307.59	107.59	

Well Number: 208 Name: Main Gate

	10/1/2008	229.06	345.42	116.36	
	10/31/2008	223.61	345.42	121.81	
	2/2/2009	212.64	345.42	132.78	
	3/2/2009	212.4	345.42	133.02	
	3/31/2009	213.24	345.42	132.18	

Well Number: 204 Name: Paddock #1 (new)

	10/1/2008	210.06	352.69	142.63	Unknown if well on or off.
	10/31/2008	213.64	352.69	139.05	
	2/2/2009	213.66	352.69	139.03	
	3/2/2009	214.17	352.69	138.52	
	3/31/2009	209.68	352.69	143.01	

Well Number: 196 Name: MCPD #2

(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
	10/10/2008	181	391.04	210.04	
	11/18/2008	173	391.04	218.04	
	2/6/2009	171	391.04	220.04	
	3/3/2009	169	391.04	222.04	

Well Number: 197 Name: MCPD #1

	10/10/2008	194	392.86	198.86	
	11/18/2008	188	392.86	204.86	
	2/6/2009	186	392.86	206.86	
	3/3/2009	186	392.86	206.86	

Well Number: 212 Name: York School 01-349

	10/28/2008 1049	224.68	384.3	159.62	
	12/5/2008 1410	265.15	384.3	119.15	
	1/8/2009 1145	221.33	384.3	162.97	
	1/29/2009 1202	220.73	384.3	163.57	
	3/31/2009 1207	230.65	384.3	153.65	

APPENDIX 3

SEASIDE BASIN GROUNDWATER LEVEL MONITORING RESULTS

Water Year 2009, First and Second Quarters

MONITOR WELLS

SEASIDE BASIN WATERMASTER
GROUNDWATER LEVEL MONITORING RESULTS

Water Year 2009 - Quarters 1 and 2

Period: 10/01/2008 to 03/31/09

Monitor Wells with Water Level Data

(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
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Wells in and near Northern Coastal Subarea

Well Number: 101 Name: MSC-Shallow

	10/31/2008 1059	76.82	80.1	3.28	
	12/5/2008 1050	77.23	80.1	2.87	
	1/8/2009 1050	76.71	80.1	3.39	
	1/28/2009 1130	76.01	80.1	4.09	
	3/3/2009 1350	76.46	80.1	3.64	
	3/31/2009 1325	76.25	80.1	3.85	

Well Number: 102 Name: MSC-Deep

	10/31/2008 1059	98.4	80.29	-18.11	
	12/5/2008 1050	99.6	80.29	-19.31	
	1/8/2009 1050	97.87	80.29	-17.58	
	1/28/2009 1130	94.52	80.29	-14.23	
	3/3/2009 1350	93.82	80.29	-13.53	
	3/31/2009 1325	92.31	80.29	-12.02	

Well Number: 103 Name: PCA-W Shallow

	10/10/2008 1235	62.2	64.22	2.02	
	1/28/2009 1000	60.42	64.22	3.80	

Well Number: 104 Name: PCA-W Deep

	10/10/2008 1235	87.99	65.18	-22.81	
	1/28/2009 1000	81.98	65.18	-16.80	

Well Number: 105 Name: PCA-E (Multiple) Shallow

	10/1/2008 0955	68.12	68.51	0.39	
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SEASIDE BASIN WATERMASTER
GROUNDWATER LEVEL MONITORING RESULTS

Water Year 2009 - Quarters 1 and 2

Period: 10/01/2008 to 03/31/09

Monitor Wells with Water Level Data

(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
	10/31/2008 1421	68.34	68.51	0.17	
	12/5/2008 1222	66.87	68.51	1.64	
	1/7/2009 1530	65.62	68.51	2.89	
	1/29/2009 1341	65.42	68.51	3.09	
	3/3/2009 1121	64.89	68.51	3.62	
	3/31/2009 1348	64.59	68.51	3.92	

Well Number: 106 Name: PCA-E (Multiple) Deep

	10/1/2008 0955	92.66	68.54	-24.12	
	10/31/2008 1421	92.41	68.54	-23.87	
	12/5/2008 1222	92.58	68.54	-24.04	
	1/7/2009 1530	89.42	68.54	-20.88	
	1/29/2009 1341	86.37	68.54	-17.83	
	3/3/2009 1121	83.29	68.54	-14.75	
	3/31/2009 1348	81.67	68.54	-13.13	

Well Number: 107 Name: Ord Grove Test

	10/1/2008 1120	348.19	294.14	-54.05	prod. well on
	10/30/2008	348.1	294.14	-53.96	prod well on
	10/31/2008 1155	337.28	294.14	-43.14	prod well off
	11/26/2008	344.3	294.14	-50.16	prod well on
	12/5/2008 1159	332.12	294.14	-37.98	prod well off
	12/18/2008	332	294.14	-37.86	prod well off
	1/7/2009 1219	325.12	294.14	-30.98	prod well off
	1/29/2009	323	294.14	-28.86	prod well status unk
	1/29/2009 1310	321.87	294.14	-27.73	prod well off
	2/26/2009	317	294.14	-22.86	prod well status unk

SEASIDE BASIN WATERMASTER
GROUNDWATER LEVEL MONITORING RESULTS

Water Year 2009 - Quarters 1 and 2

Period: 10/01/2008 to 03/31/09

Monitor Wells with Water Level Data

(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
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	3/3/2009 1035	318.28	294.14	-24.14	prod well off
	3/26/2009	317	294.14	-22.86	prod well off
	3/31/2009 1408	316.36	294.14	-22.22	prod well off

Well Number: 108 Name: Paralta Test

	10/30/2008	350	330.72	-19.28	prod. well on
	10/31/2008 1440	349.11	330.72	-18.39	prod well on
	11/26/2008	348.5	330.72	-17.78	prod. well on
	12/4/2008 1410	348.58	330.72	-17.86	prod well on
	12/18/2008	347	330.72	-16.28	prod. well on
	1/7/2009 1240	337.94	330.72	-7.22	prod well off
	1/29/2009	336	330.72	-5.28	prod. well off
	1/29/2009 1405	335.89	330.72	-5.17	prod well off
	2/26/2009	330	330.72	0.72	prod. well off
	3/3/2009 1140	331.98	330.72	-1.26	prod well off
	3/26/2009	332	330.72	-1.28	prod well off
	3/31/2009 1445	332.83	330.72	-2.11	prod well off

Well Number: 110 Name: Ord Terrace-Deep

	10/1/2008 1109	267.67	228.63	-39.04	
	10/31/2008 1146	266.92	228.63	-38.29	
	12/5/2008 1046	264.32	228.63	-35.69	
	1/7/2009 1540	259.19	228.63	-30.56	
	1/26/2009 1350	256.55	228.63	-27.92	
	3/3/2009 1114	252.84	228.63	-24.21	
	3/31/2009 1359	250.68	228.63	-22.05	

SEASIDE BASIN WATERMASTER
GROUNDWATER LEVEL MONITORING RESULTS

Water Year 2009 - Quarters 1 and 2

Period: 10/01/2008 to 03/31/09

Monitor Wells with Water Level Data

(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
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Well Number: 111 Name: MPWMD #FO-09-Shallow

	10/10/2008 0955	117.36	118.89	1.53	
	10/31/2008 1405	117.31	118.89	1.58	
	12/5/2008 1300	116.06	118.89	2.83	
	1/7/2009 1505	115.4	118.89	3.49	
	1/28/2009 1345	115.05	118.89	3.84	
	3/2/2009 1128	114.46	118.89	4.43	
	3/31/2009 1546	114.28	118.89	4.61	

Well Number: 112 Name: MPWMD #FO-09-Deep

	10/10/2008 0955	142.25	118.85	-23.40	
	10/31/2008 1405	142.13	118.85	-23.28	
	12/5/2008 1300	142.23	118.85	-23.38	
	1/7/2009 1505	139.42	118.85	-20.57	
	1/28/2009 1345	136.35	118.85	-17.50	
	3/2/2009 1128	133.32	118.85	-14.47	
	3/31/2009 1546	131.72	118.85	-12.87	

Well Number: 113 Name: MPWMD #FO-10-Shallow

	10/31/2008 1350	203.66	200.85	-2.81	
	12/4/2008 1520	203.7	200.85	-2.85	
	1/7/2009 1445	203.05	200.85	-2.20	
	1/30/2009 1055	202.73	200.85	-1.88	
	3/2/2009 1114	202.41	200.85	-1.56	
	3/31/2009 1530	202.36	200.85	-1.51	

Well Number: 114 Name: MPWMD #FO-10-Deep

SEASIDE BASIN WATERMASTER
GROUNDWATER LEVEL MONITORING RESULTS

Water Year 2009 - Quarters 1 and 2

Period: 10/01/2008 to 03/31/09

Monitor Wells with Water Level Data

(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
	10/31/2008 1350	206.55	201.03	-5.52	
	12/4/2008 1520	204.68	201.03	-3.65	
	1/7/2009 1445	206.29	201.03	-5.26	
	1/30/2009 1055	205.11	201.03	-4.08	
	3/2/2009 1114	203.96	201.03	-2.93	
	3/31/2009 1530	203.66	201.03	-2.63	

Well Number: 231 Name: Del Monte Test

	10/30/2008	30.3	32.62	2.32	p. well off
	11/26/2008	31	32.62	1.62	p. well off
	12/18/2008	30	32.62	2.62	p. well off
	1/29/2009	30	32.62	2.62	p. well off
	2/26/2009	30	32.62	2.62	p. well off
	3/26/2009	30	32.62	2.62	p. well off

Well Number: 243 Name: Luxton

	10/30/2008	96.8	89.12	-7.68	
	11/26/2008	97.4	89.12	-8.28	
	12/18/2008	97	89.12	-7.88	
	1/29/2009	95	89.12	-5.88	
	2/26/2009	93	89.12	-3.88	
	3/26/2009	94	89.12	-4.88	

Well Number: 163 Name: CAW - Playa #4

	10/30/2008	65	52.53	-12.47	
	11/26/2008	66	52.53	-13.47	
	12/18/2008	65.3	52.53	-12.77	

SEASIDE BASIN WATERMASTER
GROUNDWATER LEVEL MONITORING RESULTS

Water Year 2009 - Quarters 1 and 2

Period: 10/01/2008 to 03/31/09

Monitor Wells with Water Level Data

(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
	1/29/2009	65	52.53	-12.47	
	2/26/2009	60	52.53	-7.47	
	3/26/2009	64	52.53	-11.47	
<hr/>					
<i>Well Number: 154 Name: Mission Memorial Monitor</i>					
	10/31/2008 1207	350.58	315.42	-35.16	
	12/5/2008 1210	348.01	315.42	-32.59	
	1/7/2009 1210	343.09	315.42	-27.67	
	1/29/2009 1335	337.34	315.42	-21.92	
	3/3/2009 1051	333.71	315.42	-18.29	
	3/31/2009 1415	331.82	315.42	-16.40	
<hr/>					
<i>Well Number: 251 Name: CDM MW-1</i>					
	10/29/2008 0830	90.25	93.53	3.28	
	1/30/2009 0810	90.5	93.53	3.03	
<hr/>					
<i>Well Number: 252 Name: CDM MW-2</i>					
	10/29/2008 1000	60.33	63.83	3.50	
	2/5/2009 1200	60.5	63.83	3.33	
<hr/>					
<i>Well Number: 254 Name: MW-B-22-180</i>					
	10/27/2008 1145	157.04	168.1	11.06	
	12/4/2008 1605	157.1	168.1	11.00	
	1/7/2009 1515	157.07	168.1	11.03	
	1/30/2009 1158	157.03	168.1	11.07	
	3/31/2009 1602	157.14	168.1	10.96	

SEASIDE BASIN WATERMASTER
GROUNDWATER LEVEL MONITORING RESULTS

Water Year 2009 - Quarters 1 and 2

Period: 10/01/2008 to 03/31/09

Monitor Wells with Water Level Data

(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
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Well Number: 258 Name: MW-B-23-180

	1/30/2009	109.75	113.81	4.06	
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Wells in and near Northern Inland Subarea

Well Number: 115 Name: MPWMD #FO-01-Shallow

	10/27/2008 1015	201.72	362.61	160.89	
	1/21/2009 1305	201.79	362.61	160.82	

Well Number: 116 Name: MPWMD #FO-01-Deep

	10/27/2008 1012	338.25	362.57	24.32	
	1/21/2009 1309	338.23	362.57	24.34	

Well Number: 119 Name: MPWMD #FO-07-Deep

	10/31/2008 1241	496.97	473.44	-23.53	
	12/4/2008 1320	496.79	473.44	-23.35	
	1/7/2009 1330	493.64	473.44	-20.20	
	1/12/2009 1145	493.2	473.44	-19.76	
	1/30/2009 1023	491.4	473.44	-17.96	
	3/2/2009 1320	488.09	473.44	-14.65	

Well Number: 118 Name: MPWMD #FO-07-Shallow

	10/31/2008 1248	458.72	473.44	14.72	
	12/4/2008 1325	458.69	473.44	14.75	
	1/7/2009 1335	458.19	473.44	15.25	
	1/12/2009 1145	458.44	473.44	15.00	
	1/30/2009 1023	458.18	473.44	15.26	
	3/2/2009 1320	457.88	473.44	15.56	

SEASIDE BASIN WATERMASTER
GROUNDWATER LEVEL MONITORING RESULTS

Water Year 2009 - Quarters 1 and 2

Period: 10/01/2008 to 03/31/09

Monitor Wells with Water Level Data

(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
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Well Number: 121 Name: MPWMD #FO-08-Deep

	10/31/2008 1320	400.3	378.1	-22.20	
	12/4/2008 1425	400.16	378.1	-22.06	
	1/8/2009 1000	397.39	378.1	-19.29	
	1/30/2009 1120	395.38	378.1	-17.28	
	3/2/2009 1030	392.32	378.1	-14.22	

Well Number: 120 Name: MPWMD #FO-08-Shallow

	10/31/2008 1320	375.99	378.04	2.05	
	12/4/2008 1425	375.99	378.04	2.05	
	1/8/2009 1000	375.99	378.04	2.05	
	1/30/2009 1120	375.71	378.04	2.33	
	3/2/2009 1030	375.29	378.04	2.75	

Well Number: 123 Name: MPWMD #FO-11-Deep

	10/31/2008 1340	330.79	332.96	2.17	
	12/4/2008 1505	330.87	332.96	2.09	
	1/7/2009 1420	330.53	332.96	2.43	
	1/30/2009 1205	330.06	332.96	2.90	
	3/2/2009 1100	329.74	332.96	3.22	
	3/31/2009 1515	329.64	332.96	3.32	

Well Number: 122 Name: MPWMD #FO-11-Shallow

	10/31/2008 1340	340.55	332.93	-7.62	
	12/4/2008 1505	340.84	332.93	-7.91	
	1/7/2009 1420	340.53	332.93	-7.60	
	1/30/2009 1205	340.44	332.93	-7.51	
	3/2/2009 1100	340.14	332.93	-7.21	

SEASIDE BASIN WATERMASTER
GROUNDWATER LEVEL MONITORING RESULTS

Water Year 2009 - Quarters 1 and 2

Period: 10/01/2008 to 03/31/09

Monitor Wells with Water Level Data

(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
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	3/31/2009 1515	340.1	332.93	-7.17	
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Well Number: 188 Name: ASR - 1

	10/29/2008 1235	370.28	337.23	-33.05	
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Well Number: 256 Name: ASR - 2

	10/30/2008 1010	389.82	356	-33.82	
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	1/12/2009 1030	381.05	356	-25.05	
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Well Number: 257 Name: ASR MW-1

	10/30/2008 1010	371.53	338.28	-33.25	
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Wells in and near Southern Coastal Subarea

Well Number: 244 Name: Hilby MGT

	10/30/2008	244	248.04	4.04	
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	11/26/2008	243	248.04	5.04	
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	12/18/2008	incorrect	248.04	*	Incorrect data (dtw 114') submitted
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	1/29/2009	243	248.04	5.04	
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	2/26/2009	241	248.04	7.04	
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	3/26/2009	242	248.04	6.04	
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Well Number: 124 Name: Plumas '90 Test

	10/31/2008 1528	104.91	157.83	52.92	prod. well off
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	12/5/2008 1550	104.82	157.83	53.01	prod. well off
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	1/7/2009 1355	104.18	157.83	53.65	prod. well off
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	1/29/2009 1148	104.1	157.83	53.73	prod. well off
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	3/3/2009 1430	104.47	157.83	53.36	prod. well off
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SEASIDE BASIN WATERMASTER
GROUNDWATER LEVEL MONITORING RESULTS

Water Year 2009 - Quarters 1 and 2

Period: 10/01/2008 to 03/31/09

Monitor Wells with Water Level Data

(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
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Well Number: 241 Name: MW-BW-09-180

	10/31/2008 1230	204.41	206.22	1.81	
	12/4/2008 1340	204.42	206.22	1.80	
	1/7/2009 1300	204.64	206.22	1.58	
	1/30/2009 1000	204.71	206.22	1.51	
	3/2/2009 1159	204.64	206.22	1.58	

Well Number: 240 Name: MW-BW-08-A

	10/31/2008 1233	58.81	205.18	146.37	
	12/4/2008 1244	58.7	205.18	146.48	
	1/7/2009 1305	58.79	205.18	146.39	
	1/30/2009 1005	58.88	205.18	146.30	
	3/3/2009 1155	58.89	205.18	146.29	

Well Number: 238 Name: CDM MW-4

	10/31/2008 1019	14.83	18.69	3.86	
	12/5/2008 0950	14.47	18.69	4.22	
	1/7/2009 0950	14.79	18.69	3.90	
	1/29/2009 0845	15.21	18.69	3.48	
	3/3/2009 1300	14.91	18.69	3.78	
	3/31/2009 1224	15.36	18.69	3.33	

Well Number: 239 Name: CDM MW-3

	10/31/2008 1032	31.41	33.81	2.40	
	12/5/2008 1015	31.18	33.81	2.63	
	1/7/2009 1005	30.59	33.81	3.22	

SEASIDE BASIN WATERMASTER
GROUNDWATER LEVEL MONITORING RESULTS

Water Year 2009 - Quarters 1 and 2

Period: 10/01/2008 to 03/31/09

Monitor Wells with Water Level Data

(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
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	1/29/2009 1105	31.78	33.81	2.03	
	3/3/2009 1250	30.64	33.81	3.17	
	3/31/2009 1240	31.98	33.81	1.83	

Wells in and near Southern Inland Subarea

Well Number: 129 Name: MPWMD #FO-04-Shallow (E)

	10/27/2008 1120	110.23	168.23	58.00	
	1/22/2009 1201	109.18	168.23	59.05	

Well Number: 130 Name: MPWMD #FO-04-Deep (W)

	10/27/2008 1124	111.29	167.44	56.15	
	1/22/2009 1205	110.33	167.44	57.11	

Well Number: 127 Name: MPWMD #FO-03-Deep

	10/27/2008 1530	635.49	774.74	139.25	
	1/21/2009 1510	635.82	774.74	138.92	

Well Number: 132 Name: MPWMD #FO-05-Deep

	10/27/2008 1357	308.42	479.29	170.87	
	1/23/2009 1510	304.92	479.29	174.37	

Well Number: 131 Name: MPWMD #FO-05-Shallow

	10/27/2008 1357	244.69	478.97	234.28	
	1/23/2009 1510	240.79	478.97	238.18	

Well Number: 134 Name: MPWMD #FO-06-Deep

	10/27/2008 1433	229.82	470.63	240.81	
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SEASIDE BASIN WATERMASTER
GROUNDWATER LEVEL MONITORING RESULTS

Water Year 2009 - Quarters 1 and 2

Period: 10/01/2008 to 03/31/09

Monitor Wells with Water Level Data

(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
	1/23/2009 1545	226.2	470.63	244.43	
<i>Well Number: 133 Name: MPWMD #FO-06-Shallow</i>					
	10/27/2008 1433	232.01	470.13	238.12	
	1/23/2009 1545	230.03	470.13	240.10	
<i>Well Number: 136 Name: LS Pistol Range (Mo Co TH-1)</i>					
	10/27/2008 1510	285.63	514.39	228.76	
	1/21/2009 1450	285.01	514.39	229.38	
<i>Well Number: 138 Name: Seca Place (Mo Co MW-2)</i>					
	10/27/2008 1343	256.97	427.58	170.61	
	1/21/2009 1440	256.8	427.58	170.78	
<i>Well Number: 137 Name: York Rd-West (Mo Co MW-1 D)</i>					
	10/28/2008 1041	310.62	490.28	179.66	
	1/21/2009 1350	310.63	490.28	179.65	
<i>Well Number: 141 Name: LS Driving Range (SCS Deep)</i>					
	10/28/2008 1028	329.49	491	161.51	
	1/21/2009 1340	329.23	491	161.77	
<i>Well Number: 143 Name: Blue Larkspur-East End</i>					
	1/21/2009 1400	97.72	253.29	155.57	
<i>Well Number: 142 Name: LS No. 1 Subdivision</i>					
	10/28/2008 1103	119.83	277.13	157.30	

SEASIDE BASIN WATERMASTER
GROUNDWATER LEVEL MONITORING RESULTS

Water Year 2009 - Quarters 1 and 2

Period: 10/01/2008 to 03/31/09

Monitor Wells with Water Level Data

(Data in feet)

Well Name and Number	Date & Time of Measurement	Depth to Water	Reference Point Elevation (MSL)	Water Level Elevation	Comments
	1/21/2009 1400	120.82	277.13	156.31	
<i>Well Number: 135 Name: Justin Court (RR M2S)</i>					
	10/28/2008 1148	142.48	240.28	97.80	
	1/21/2009 1540	142.31	240.28	97.97	
<i>Well Number: 242 Name: CAW-Granite Construction</i>					
	10/28/2008 1140	134.09	226.43	92.34	
	1/21/2009 1546	134.17	226.43	92.26	
<i>Well Number: 140 Name: Robley Deep (South) (Mo Co MW-3D)</i>					
	10/27/2008 1330	382.99	566.44	183.45	
	1/21/2009 1226	377.42	566.44	189.02	
<i>Well Number: 139 Name: Robley Shallow (North) (Mo Co MW-3S)</i>					
	10/27/2008 1226	322.8	566.54	243.74	
	1/21/2009 1226	323.01	566.54	243.53	

ITEM NO. XI.

**DIRECTOR'S
REPORTS**

ITEM NO. XII.

**EXECUTIVE OFFICER
COMMENTS**