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December 12, 2013

Subject: Quarterly Report for Coastal Monitoring Data through October 2013

Ms. Adamson:

Attached is the first quarterly report with updates on groundwater level and salt concentration data at coastal monitoring wells where protective elevations have been defined. These wells, SC-1A, SC-3A, SC-5A, SC-9C, SC-8D, SC-A1A and B, SC-A8A and B, SC-A2A and B, SC-A3A and B, and SC-A4A and B are the key wells for assessing risk of seawater intrusion and the status of basin recovery in the Soquel-Aptos basin. Protective elevations estimated to protect productive aquifer units from seawater intrusion and secondary drinking water standards (MCLs) for chlorides and total dissolved solids (TDS) are shown on the plots.

We did not have enough time to include groundwater level logger data in this report. District staff has recently installed new software that will expedite the transfer of this data for future quarterly reports and the annual report. Future quarterly reports will include the following based on the logger data:

- Plots of available groundwater elevation data recorded by groundwater level loggers. The current equipment was installed at most of these wells in 2012.
- Average groundwater elevations will be calculated based on the logger data for the quarter, water year to date, and preceding four quarters. Average equivalent freshwater heads will be estimated for the three time

periods at wells where chloride concentrations are above the MCL of 250 mg/L.

A full discussion of these data at the wells will be included in the Annual Report and Review for Water Year 2013. However, it is notable that despite the five-year increasing trend in Western Purisima A unit (SC-1A, 3A, and 5A), groundwater levels in Water Year 2013 are lower than the previous year, which is a partial reversal of the multi-year recovery trend in these wells. In the Central Purisima (BC and DEF units) and Aromas area (Purisima F unit and Aromas Red Sands), groundwater levels generally continue to recover. There are no notable changes in salt concentration trends.

Christine Mead noted that field tests for chlorides result in lower concentrations than laboratory tests. This is most obvious in the Western Purisima and Central Purisima units so chlorides data consistent with recent field results have been excluded from the data in the Purisima area. We will re-evaluate this data presentation for the Annual Report and Review.

Page numbers are consistent with the Annual Report and Review figure sections 3B, 4B, and 5B, and therefore are not in consecutive order.

After discussing the schedule for data transfers with District staff, we propose to revise our scope to present the quarterly report at the 2nd Board meeting of the 2nd month after the quarterly data period. The next report would be presented at the 2nd Board meeting of March 2014 for data through January 2014.

Please let me know if you have any questions.

Sincerely,



Cameron Tana, Vice President
HydroMetrics Water Resources Inc.

Attachment: Coastal monitoring well hydrographs and chemographs





























