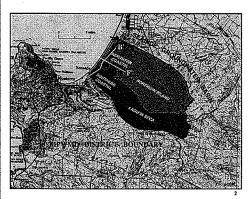


MPWMD Seaside Basin Aquifer Storage and Recovery (ASR) Program

MPWMD July 29, 2004 Board Workshop

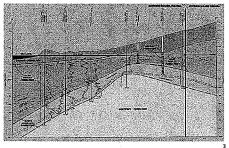
Staff Contact: Joe Oliver Water Resources Manager and Senior Hydrogeologist

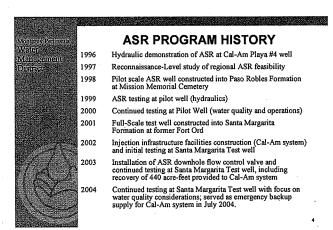














Monterey Peninsuli Water Management = District

PLAYA WELL INJECTION DEMONSTRATION PROJECT

- Conducted short-term injection test using Seaside Basin water
- · Demonstrated local hydraulic response of aquifer system
- · Supported planning effort for future testing in the basin.



PILOT-SCALE ASR WELL **PROJECT**

- · Constructed test well in Mission Memorial Park
- · Established injection capacity and production performance characteristics for Paso Robles (PR) Formation aquifer
- Determined PR aquifer limits injection to relatively low rates (350 gpm).



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FULL-SCALE ASR WELL PROJECT

- Constructed test well on former Fort Ord
- Preliminary testing showed limitations of Cal-Am delivery system
- Worked with Cal-Am to complete infrastructure improvements
- Testing confirmed injection (1,000 gpm) and recovery (2,000 gpm) estimates could be exceeded.





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SEASIDE BASIN ASR STATUS

- ✓ SINCE 1998, THE DISTRICT HAS INJECTED 1,100 ACRE-FEET OF EXCESS WATER FROM THE CARMEL RIVER INTO THE COASTAL AREA OF THE SEASIDE BASIN.
- ✓ IN 2003, 440 ACRE-FEET WERE RECOVERED AND SUPPLIED TO THE CAL-AM SYSTEM FOR CUSTOMER USE.
- ✓ IN 2004 TO DATE, OVER 80 ACRE-FEET HAVE BEEN RECOVERED AND SUPPLIED TO THE CAL-AM SYSTEM AS AN EMERGENCY SUPPLY.

SEASIDE BASIN ASR STATUS

- \checkmark STAFF IS DEVELOPING PLANS AND COST ESTIMATES FOR A SECOND INJECTION WELL.
- ✓ STAFF IS COORDINATING WITH CAL-AM ON ADDITIONAL INJECTION WATER DELIVERY IMPROVEMENTS AND ASR OPTIONS AS PART OF THE PROPOSED COASTAL WATER PROJECT.
- ✓ THE DISTRICT HAS APPLIED FOR PERMANMENT WATER RIGHTS FOR A LONG-TERM ASR PROJECT AND IS WAITING ON ACTION BY THE SWRCB.
- ✓ STAFF IS INITIATING THE ENVIRONMENTAL REVIEW PROCESS FOR THE DISTRICT'S PROPOSED LONG-TERM ASR PROJECT.