Committee-Member Proposals 8/11/2015

#10: Two Tracks to a Sustainable Water Supply Baskin, Beckmann, Holt, Keutmann, Stearns

Our portfolio has two tracks, one for SCWD only, and a parallel track for SCWD and our neighbor districts. First we propose a Santa Cruz only set of supply options to keep costs and uncertainties low. We combine maximum winter flow harvest with DPR and with ASR limited to the Santa Cruz well sites. Second and simultaneously we propose to negotiate with our neighbors (SVWD and SqCWD) to pursue regional aquifer restoration for storage and shared supply and/or protection from sea water intrusion.

#20 Dual Track ASR-DPR Mesiti-Miller, Pepping, Slatter

We recommend the City move forward on investigating the implementation of an optimized DPR (BB3-Optimum) solution and the implementation In-Lieu or ASR or some hybrid combination of the two (BB1&2-Hybrid). Because both solutions have significant merit and, at this time there is insufficient information upon which to base a final decision, and it would not be fiscally prudent to commit to one or the other or both until such information is available, we recommend the City further explore both approaches using the same level of effort to develop BB3-Optimum as to develop BB1&2-Hybrid.

#22 Aquifer Restoration using Surface Water Longinotti

This portfolio creates a minimum of 3 billion gallons in additional storage through in lieu recharge, supplemented by direct injection.

This recharge strategy can be continued after the goal of 3 billion storage is reached if

- more storage is needed in order to cope with more severe climate change than is currently modeled[1]
- the goal is to provide higher base flow in area streams to improve fish habitat

Assumption: The City will adopt the Master Conservation Plan, including additional measures to be recommended by the WSAC.

#30: Water, Water Everywhere Mansergh

1) Pre-in lieu recharge (in-lieu with existing infrastructure) Pre-Block 1
2) Operational modifications/bottleneck relief
3) Injection ASR build up (Block 2 with Ranney collectors)
4) IPR research/small scale operation Pre-Block 5

#40: The Lochquifer Portfolio Stanojevich

Lochquifer prioritizes yield, reliability and cost efficiency. It expedites diverting abundant winter river water and banking water in aquifers from Aptos through SV, primarily using small, cost effective upgrades to existing infrastructure. In ~3 years*, Lochquifer could reach true security: 3Bg banked. In ~4 more years* it could recharge the ~9Bg remaining aquifer space. Lochquifer is a low risk solution with fast results, with a low price tag of about $31M. SCWD pays ~60%.

* Not counting critically dry years.