

# Memorandum

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**To:** The Water Supply Advisory Committee (WSAC)  
**From:** Bob Raucher, Stratus Consulting Inc.  
**Date:** 2 September 2015  
**Subject:** Technical Team Progress Update

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In this memorandum, we provide an update of the Technical Team's activities for Phase 2 of WSAC activities, reflecting efforts in the latter half of August and first portion of September (i.e., between the August and mid-September WSAC meetings).

## **1. Gantt Chart, Adaptive Pathways, and Related Technical Support for Portfolio and Agreement Development**

Stratus Consulting, Brown and Caldwell (BC) and Gary Fiske have been engaged in continued review and refining of information of the in-lieu, Aquifer Storage and Recovery (ASR), and other possible elements of the WSAC agreement. These efforts include breaking each approach (e.g., ASR) into a more detailed progression of steps, placing those steps in a detailed Gantt chart to indicate the details for timelines, capital and other fiscal outlays, and possible water supply results.

A suite of "subway map" adaptive pathway diagrams have also been developed to help convey the possible approaches to parallel or sequential pursuit of different portfolio elements. These also indicate possible decision nodes for WSAC consideration.

## **2. Demand Projections and Demand Management Strategies**

David Mitchell (M-Cubed) has revised the econometric demand forecasting model projections that he has developed; the revised outcome will be presented at the mid-September WSAC meetings.

There has been continued work effort by SCWD staff, the technical team, and WSAC members from the peak demand working group. This work has focused on assessing the extent of potential double counting embodied in the working group's proposed water conservation program and associated water savings, when combined with Program C recommended and the anticipated price impacts on demand in the revised demand forecast.

## **3. Tracking Status of Consolidated Alternatives (CAs) and Related Suggested Solutions**

A summary spreadsheet has been developed that identifies each of the CAs, and the numerous Water Convention ideas that they embody. The materials include a description of the current

status of each CA (e.g., dormant, under active consideration), and the rationale for why some of the ideas have been set aside. This material has gone through additional review and refinement.

#### **4. *Confluence*-based insights using recent year data**

Gary Fiske, with supporting work from David Mitchell and Shawn Chartrand, analyzed recently available data on watershed flows for 2010 through 2014. This first examination of the new data indicate, for example, how the imposition of DFG-5 on 2014 conditions would have heightened the level of water shortage and curtailment required for 2014 (compared to the comparatively lenient fish flow releases actual applied for 2014).

#### **5. Other activities**

In addition to all the items noted above, Stratus Consulting and other members of the Technical Team have been engaged in a broad array of technical issues. The additional technical activities include reviewing and managing all subcontractor work efforts, and continued active engagement in WSAC planning and meeting-support activities, as well as project administration and contract management.