

## **Modeling Scenarios**

Assume for all studies, other than Study 1, that Sacramento basin reservoirs are operated to meet water quality objectives with the exception of the Interior Southern Delta and Vernalis salinity objectives. San Joaquin flow objectives are met from New Melones during the non-VAMP period and only after salinity objectives at Vernalis have been met. Assume that the dissolved oxygen, temperature and the 1,500 cfs limitation on the Stanislaus are met as the highest priority. Assume that EWA and B2 obligations are met to the extent that they are firm commitments.

If possible, model the Friant settlement flows in all alternatives.

If possible, incorporate low lift pumps with the permanent barriers.

### **Study 1**

Operate the Sacramento basin reservoirs and the Delta pumping plants to meet, if possible, the Southern Delta salinity objectives.

### **Study 2**

Operate New Melones to meet the southern Delta objectives by reservoir releases only. Temporary barriers are in place, no recirculation.

### **Study 3**

Operate New Melones to meet the southern Delta objectives by reservoir releases only. Temporary barriers are in place, no recirculation. First reduce in-delta municipal discharges to zero; then as a sub study (Study 3a), reduce both municipal and agricultural discharges to zero.

### **Study 4**

Operate New Melones to meet the objectives by reservoir releases only. Temporary barriers are in place, add recirculation using Joint Point as needed.

### **Study 5**

Operate New Melones to meet the objectives by reservoir releases only. Permanent barriers are in place, add recirculation using Joint Point as needed.

### **Study 6**

Operate New Melones to meet 0.7 at all compliance points in Wet, Above Normal and Below Normal water years. Meet 1.0 in Dry and Critically Dry years at Brandt Bridge, Union Island and Tracy Road Bridge. Meet 0.7 at Vernalis during all year types. Temporary barriers are in place.

### **Study 7**

Operate New Melones to meet 0.7 at all compliance points in Wet, Above Normal and Below Normal water years. Meet 1.0 in Dry and Critically Dry years at Brandt Bridge, Union Island and Tracy Road Bridge. Meet 0.7 at Vernalis during all year types.

Temporary barriers are in place. First reduce in-delta municipal discharges to zero; then as a sub study (Study 7a), reduce both municipal and agricultural discharges to zero.

**Study 8**

Operate New Melones to meet 0.7 at all compliance points in Wet, Above Normal and Below Normal water years. Meet 1.0 in Dry and Critically Dry years at Brandt Bridge, Union Island and Tracy Road Bridge. Temporary barriers are in place, add recirculation using Joint Point as needed.

**Study 9**

Operate New Melones to meet 0.7 at all compliance points in Wet, Above Normal and Below Normal water years. Meet 1.0 in Dry and Critically Dry years at Brandt Bridge, Union Island and Tracy Road Bridge. Permanent barriers are in place, add recirculation using Joint Point as needed.

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