

# Water Quality Conclusions

- Parameters: Bromide, Chloride, TDS, Organic Carbon
- Objectives/indices:
  - Measured as progress towards WQ goals
  - Stage 1 WQ targets are already met in some periods
- Salinity assessment
  - Initial use of asset in game (\$10M/YR), Increased outflow in fall
  - Tradeoff: reduce worst salinity spikes by about 50mg/l (Cl), 100mg/l (TDS) for 2-3 months
  - **Issues:** Efficient? Quality-supply tradeoff in repeating critical years, competition for transfers?



# Water Quality Conclusions (Con't)

- Organic carbon at South Delta intakes:
  - Avoid seasonal peak: time drainage and/or adjust export operations
  - Export shift (in time) related to EWA operation: reduce DOC (about -5%)
  - Increase due to in-Delta storage: estimates depend on assumptions (about +5%)
  - Current analysis crude: CALFED could link with more thorough CUWA/DW/ USBR study



# Water Quality

## Conclusions (Con't)

- Tradeoffs:
  - Shifting pumping from Feb-Mar to summer and fall will improve DOC of exports
  - In drier years this operation could increase export salinity.
  - In wetter years this operation may actually improve salinity