

ASSETS FOR EARLY STAGE 1 SCENARIO DEVELOPMENT	
ASSET	DESCRIPTION OF ASSET APPLICATION FOR SCENARIO DEVELOPMENT
SOURCE SHIFTING	<ul style="list-style-type: none"> ◆ MWD: Shift delivery of 60,000 af (2000 Ops), could continue at some level through Stage 1
GROUNDWATER BANKING SOUTH OF THE DELTA, GROUNDWATER SUBSTITUTION, CROP SHIFTING, CONSERVATION, RECLAMATION	<ul style="list-style-type: none"> ◆ Potential for 100 taf in Kern Water Bank on annual basis for three years in first years of a drought ◆ Vidler/Semitropic groundwater storage bank capacity (49 taf/100 taf) ◆ Kern groundwater substitution (90 taf) ◆ Crop shifting in Delta (opportunistic shift to less water intensive crops during certain time periods) ◆ General opportunistic shift of surface water users to groundwater ◆ Conservation/reclamation project benefits?
MARKETS PURCHASE, OPTION, LEASE (SHORT-TERM, LONG-TERM)	<ul style="list-style-type: none"> ◆ Purchase Upstream water for multiple purposes ◆ Acquire water in Sacramento Valley? San Joaquin eastside? ◆ Acquire water in-Delta and in export area ◆ Acquire PG&E reoperation water ◆ Acquire Vidler/Semitropic water? ◆ Integrate water acquired for ERP flows with EWA/WMS ◆ Acquire options north/south of Delta
LAKE ALMANOR RELEASES (FEATHER RIVER)	<ul style="list-style-type: none"> ◆ Approximately 100 taf on annual basis March-May flows

INCREASED BANKS PUMPING CAPACITY/ACCESS TO UNUSED DELTA PUMPING CAPACITY	<ul style="list-style-type: none"> ◆ Increase pumping capacity by 500 cfs in year 2000 (70,000-90,000 af) ◆ Increase pumping capacity to 6600 cfs to 8500 cfs July-September ◆ 6600 cfs + 1/3 San Joaquin River flow November-March
FLEXING E/I RATIO	<ul style="list-style-type: none"> ◆ Shift averaging period from 14 days to 3 days; or flex the ratio
RESERVOIR REOPERATION	<ul style="list-style-type: none"> ◆ Coordinate/optimize operation of reservoirs to increase overall system flexibility (look for small reservoir opportunities)
ACCESS TO SURPLUS CVP/SWP STORAGE CAPACITY	<ul style="list-style-type: none"> ◆ Access to San Luis and upstream reservoirs
ACCESS TO UNUSED NON-PROJECT STORAGE	<ul style="list-style-type: none"> ◆ Investigate potential for access on Yuba and SJ tributaries on no-harm basis
ALTER FLOOD CONTROL DIAGRAMS	<ul style="list-style-type: none"> ◆ May be limited to small scale efforts on the San Joaquin and Stanislaus Rivers ◆ Pursue other small-scale projects in Stage 1 in addition to above efforts
PUMPING TO STORAGE	<ul style="list-style-type: none"> ◆ Good general strategy for expansion of conjunctive use opportunities by optimizing use of groundwater/surface water ◆ Would require additional facilities to maximize use otherwise benefits could be relatively small; could result in spilling of stored water
INTERTIE	<ul style="list-style-type: none"> ◆ 400cfs capacity ◆ Need to determine real benefit of intertie when linked to other assets - staging issue

SHIFTING REFUGE SUPPLIES	Investigate the following: <ul style="list-style-type: none"> ◆ Diversify sources of water for refuges ◆ Borrow acquired refuge water for EWA ◆ Increase conveyance efficiency ◆ Use refuges as small-scale storage projects
ACQUISITION OF IN-DELTA ISLANDS FROM WILLING SELLERS	◆ Reduce application and subsequent run-off/seepage of pesticides
MANAGE DISCHARGES FROM IN-DELTA ISLANDS	◆ Relocate/reroute Delta agricultural drains or hold water for discharge on outgoing tides or for high flow periods to manage salinity, selenium, TDS
DELTA CROSS CHANNEL	◆ Operate to freshen Delta and to improve export water quality
CONTROL ALGAL GROWTH IN CLIFTON COURT FOREBAY	◆ Needs definition