

The CCF maximum storage is 28,653 AF at the normal maximum water surface elevation (WSE); the minimum storage is 13,965 AF at the minimum WSE (DWR, 1974). For future operations, and unless engineering improvements are made to the perimeter embankment around CCF, the maximum operating WSE has been reduced by 1 foot. Table 4-1 summarizes CCF water elevation information.

Table 4-1: Existing Clifton Court Forebay Operational Water Elevations (Measured at Clifton Court Forebay Inlet Gates)

Criteria	Data in NGVD29	Data in NAVD88
Vertical Datum	NGVD29 ^a	NAVD88 (NGVD29 + 3.10 feet ^b)
Normal Minimum Water Surface Elevation ^c	-2 feet	+1.1 feet
Normal Maximum Water Surface Elevation ^d	+4 feet	+7.1 feet
Absolute Maximum Water Surface Elevation ^{a,d}	+5 feet	+8.1 feet

^a Used by pumping plant operators.

^b DWR survey results at Banks PP, February 2009, assumed to also apply at CCF.

^c Source: DWR, 1974 (*Bulletin No. 200*, November 1974, DWR California State Water Project).

^d Standard Operating Orders PC200.7-A and 600.22.

Abbreviations:

CCF	=	Clifton Court Forebay
DWR	=	Department of Water Resources
NAVD88	=	North American Vertical Datum of 1988
NGVD29	=	National Geodetic Vertical Datum of 1929

4.2.3.2 Skinner Fish Facility

The Skinner Fish Facility is located on the California Aqueduct Intake Channel between CCF and Banks PP. Under peak pumping operations, headloss across the louver screens is reported to be 1.5 feet. The Skinner Fish Facility has a maximum operating elevation of +5 feet (NGVD29) before overtopping the louver screens.

4.2.3.3 Banks Pumping Plant

The Banks PP has an installed capacity of 10,670 cfs and presently takes water from CCF via the California Aqueduct Intake Channel downstream of the Skinner Facility. The pump plant consists of 11 pumps: nine large pumps (five at 1,130 cfs each, four at 1,067 cfs each) and two smaller pumps (375 cfs capacity each). There are flow meters on each of the five discharge lines.

The existing Banks PP is designed to operate with a WSE just upstream of the pumping plant ranging from -0.9 to +8.1 feet (NAVD88,). However, the maximum operating WSE has been restricted through the standing orders for CCF.

Banks PP is generally operated on an on-peak/off-peak schedule. The pumping schedule maximizes pumping of the SWP's export allocation from CCF into Bethany Reservoir and SWP conveyance system downstream during the off-peak hours and spreads out additional pumping at a reduced rate during on-peak hours if conditions dictate.

Table 4-2 presents a summary of Banks PP operational water elevation information.