

## EXHIBIT B

Pertinent Data for Other Reservoirs in the Vicinity of Carbon Canyon Dam

**BREA DAM AND RESERVOIR  
ORANGE COUNTY, CALIFORNIA**

**PERTINENT DATA  
AUGUST 1989**

Construction Completed	March, 1942
Stream System	Brea Creek
Drainage Area	sq. miles 22
Reservoir:	
Elevation	
Streambed at dam	ft., NGVD 208.0
Spillway crest	ft., NGVD 279.0
Spillway design surcharge level	ft., NGVD 292.2
Top of dam	ft., NGVD 295.0**
Area	
Spillway crest	acres 162.7
Spillway design surcharge level	acres 250.2
Top of dam	acres 272.8
Capacity, gross	
Spillway crest	acre-feet 4,008.5 (3.42*)
Spillway design surcharge level	acre-feet 6,688.6 (5.70*)
Top of dam	acre-feet 7,420.2 (6-32*)
Allowance for sediment (50-year)	acre-feet 1,200 (1.02*)
Dam: - Type	Earthfill
Height above original streambed	ft. 87
Top length	ft. 1,765
Top width	ft. 20
Freeboard	ft. 5.8+
Spillway: -Type	Ungated, overflow concrete ogee
Crest length	ft. 150
Design surcharge	c.f.s. 27,000
Outlets:	
Uncontrolled	
Number and size	ft. 2 - 3.0'W x 2.51H
Entrance invert elevation	ft., NGVD 251
Controlled	
Gates - type	Vertical lift
Number and size	ft. 2-5'W x 8'H
Entrance invert elevation	ft., NGVD 208
Conduits	
Number and size	ft. 2-5'W x 8'H
Length	ft. 484
Maximum capacity at spillway crest	c.f.s. 3,800
Regulated capacity at spillway crest	c.f.s. 1,500
Standard Project Flood:	
Duration (inflow)	days 2
Total volume	acre-feet 8,260 (7.04*)
Inflow peak	c.f.s. 8,000
Outflow peak	c.f.s. 5,060
Maximum water surface elevation	ft. 283.2
Probable Maximum Flood:	
Duration (inflow)	hours 12
Total volume	acre-feet 8,200 (6.99*)
Inflow peak	c.f.s. 37,000
Outflow peak	c.f.s. 27,000
Maximum water surface elevation	ft. 292.2
Historic Maximums	
Maximum mean hourly inflow	c.f.s. 2,625
Date	3-1-83
Maximum release	c.f.s. 1,440
Date	3-1-83
Maximum storage	acre-feet 1,073
Date	3-1-83
Maximum water surface elevation	ft. 252.0
Date	3-1-83
Real Estate Taking Line:	
By fee	acres 236.65
By easements	acres 62.08

\*Inch of runoff

\*\*Top of parapet wall elevation 298.0 feet

**FULLERTON DAM AND RESERVOIR  
ORANGE COUNTY, CALIFORNIA**

**PERTINENT DATA  
MARCH 1989**

Construction Completed .....		May 1941
Stream System .....		Fullerton Creek
Drainage Area .....	sq. miles	5.0
Reservoir:		
Elevation		
Streambed at dam .....	ft., NGVD	260
Spillway crest .....	ft., NGVD	290
Spillway design surcharge level .....	ft., NGVD	298.4
Top of dam .....	ft., NCVD	307
Area		
Spillway crest .....	acres	62
Spillway design surcharge level .....	acres	92
Top of dam .....	acres	130
Capacity, gross		
Spillway crest .....	acre-feet	764 (2.84*)
Spillway design surcharge level .....	acre-feet	1394 (5.18*)
Top of dam .....	acre-feet	2306 (8.56*)
Original allowance for sediment .....	acre-feet	230
Dam: - Type .....		Earthfill
Height above original streambed .....	ft	46
Top length .....	ft	575
Top width .....	ft	15
Freeboard (PMF) .....	ft	8.6
Spillway: - Type .....		Ungated ogee
Crest length .....	ft	40
Crest elevation .....	ft	290
Design surcharge (modified Rational Method) .....	ft	8.4
Design discharge (modified Rational Method) .....	cfs	3380
Outlets:		
Uncontrolled		
Number and size .....		1 - 3'W x 2'H
Entrance invert elevation .....	ft., NGVD	275
Controlled		
Gate type .....		Vertical lift
Size .....	ft	2 - 3'W x 5'H
Entrance invert elevation .....	ft., NGVD	261
Conduits		
Number and size .....		1 - 41W x 6'H
Length .....	ft	346
Maximum capacity at spillway crest .....	cfs	590
Regulated capacity at spillway crest .....	cfs	500
Standard project flood:		
Duration (inflow) .....	days	1.75
Total volume .....	acre-feet	1750 (6.50**)
Inflow peak .....	cfs	2100
Outflow peak .....	cfs	1250
Maximum water surface elevation		
1969 reservoir regulation schedule .....	ft	293.75
Current reservoir regulation-schedule .....	ft	292.50
Probable maximum flood		
Duration (inflow) days .....		0.25
Total volume .....	acre-feet	1820 (6.76*)
Inflow peak .....	cfs	16000
Outflow peak .....	cfs	5650
Spillway outflow., peak .....	cfs	5650
Maximum water surface elevation .....	ft	301.44
Historic maximums:		
Maximum inflow .....	cfs	3800
Date .....		3-14-41
Maximum outflow .....	cfs	444
Date .....		3-1-83
Maximum water surface elevation .....	ft., NGVD	285.6
Maximum storage .....	acre-feet	522.5 (68% full)
Date .....		1-31-79

\*Inches of runoff

**PRADO DAM AND RESERVOIR  
RIVERSIDE COUNTY,  
CALIFORNIA  
PERTINENT DATA  
(REVISED JANUARY 1990)**

Construction Completed .....	April 1941
Stream System .....	Santa Ana River
Drainage Area .....	sq-mi 2,255
Reservoir:	
Elevation	
Streambed at dam .....	ft., m.s.l. 460.0
Debris pool .....	ft., m.s.l. 490.0
Buffer pool .....	ft., m.s.l. 494.0
Spillway Crest .....	ft., m.s.l. 543.0
Spillway Design Surge Level (1941) .....	ft., m.s.l. 556.0
Revised Standard Project Flood (1969) .....	ft., m.s.l. 558.7
Top of dam .....	ft., m.s.l. 566.0
Revised Probable Maximum Flood (1969) .....	ft., m.s.l. 572.7**
Area	
Debris pool .....	acres 917.7
Buffer pool .....	acres 1,294.0
Spillway crest .....	acres 6,630.0
Spillway design surge Level (1941) .....	acres 8,769.5
Revised Standard Project Flood (1969) .....	acres 9,295.4
Top of dam .....	acres 10,885.0
Revised Probable Maximum Flood (1969) .....	acres 12,350.0**
Capacity, gross (March 1980 Survey)	
Debris pool .....	ac-ft 4,474 (0.04*)
Buffer pool .....	ac-ft 8,915 (0.07*)
Spillway crest .....	ac-ft 196,235 (1.63*)
Spillway design surge Level (1941) .....	ac-ft 295,581 (2.46*)
Revised Standard Project Flood (1969) .....	ac-ft 319,967 (2.66*)
Top of dam .....	ac-ft 393,806 (3.27-)
Revised Probable Maximum Flood (1969) .....	ac-ft 444,000 (3.69**)
Allowance for sediment (50 year) .....	ac-ft 12,000 (0.10*)
Dam: - Type .....	Earth-fill
Height above original streambed .....	ft 106
Top length .....	ft 2,280
Top width .....	ft 30
Design Freeboard (1941) .....	ft 10
Spillway: - Type .....	Ungated ogee
Crest length .....	ft 1,000
Crest elevation .....	ft., m.s.l. 543
Design surge (1941) .....	ft 13
Design discharge (1941) .....	cfs 181,000
Outlets:	
Uncontrolled (NOTE: Both uncontrolled outlets are plugged)	
Number and size .....	2-5.5' diameter
Entrance invert elevation .....	ft., m.s.l. 462
Controlled	
Gate type .....	Vertical lift
Number and size .....	6- 7'W x 12'H
Entrance invert elevation .....	ft., m.s.l. 460
Conduits	
Number and size .....	2-13.5'W x 13.5'B
Length .....	ft 750
Maximum capacity at spillway crest .....	cfs 17,000
Regulated capacity at spillway crest .....	cfs 5,000
Revised Standard Project Flood (1969):	
Duration (inflow) .....	Days 4
Total volume .....	ac-ft 574,000 (4.77*)
Maximum Water Surface Elevation .....	ft., m.s.l. 558.71
Inflow peak .....	cfs 317,000
Outflow peak .....	cfs 239,000
Revised Probable Maximum Flood (1969):	
Duration (inflow) .....	Days 6**
Total volume .....	ac-ft 1,543,000 (13.05**)
Maximum Water Surface Elevation .....	ft., m.s.l. 572.71**
Inflow peak .....	cfs 700,000**
Outflow peak .....	cfs 617,000**
Historic maximums:	
Maximum discharge on record .....	cfs 5,992
Date .....	2-22-80
Maximum water surface elevation .....	ft., m.s.l. 528.0
Date .....	2-22-80
Maximum inflow (1 hour average) .....	cfs 76,918
Date .....	1-25-69

\* inches of runoff over watershed

\*\* NOTE: Dam is over-topped