

Testimony of Eric L. Flavell

1  
2  
3 I am a principal in the civil engineering firm of Flowers & Associates. My experience  
4 and qualifications to provide this testimony is attached.

5 I was retained by the County of Santa Barbara to prepare the Cachuma Lake Surge  
6 Analysis Preliminary Report, dated December 2000. A true and correct copy of that report,  
7 which I prepared, is attached as Exhibit 7 to the County's Exhibit Identification Index. The  
8 impacts to facilities identified and evaluated in that report due to the proposed Cachuma Lake  
9 surcharge are appropriate. For each impacted facility, the report accurately describes the work  
10 required to relocate or modify the facility. The total opinion of construction cost prepared in  
11 December 2000 of \$10,438,590 does not include costs for design, environmental review,  
12 permitting, construction management or inspection, or adjustment due to time or change of  
13 technology. The report does not predict the time necessary to complete relocation and  
14 reconstruction or whether funding exists for this work.

15 In September 2003, at the request of the Cachuma Conservation Release Board and the  
16 County, I reviewed whether temporary or expedited alternatives existed to allow lake levels to  
17 rise as a result of a 3-foot surcharge before the permanent relocation and reconstruction  
18 mitigation work described in my December 2002 report was completed. This recent review was  
19 limited to evaluating impacted facilities under a 3-foot surcharge, and 2-foot storm surge  
20 condition for critical facilities. The report did not consider whether funding would be available  
21 or impacts under any other surcharge condition. In making this review, I met and conferred with  
22 John Gray of URS and, on September 22, 2003, we made a site visit together. As a result of this  
23 review, I concluded that:

24 1. No interim solution is practical for the water treatment plant, a critical facility. It  
25 needs to be relocated or it will be inundated with the surcharge.

26 2. The water intake, a critical facility, could have just the motor control center  
27 relocated. However, in light of need to relocate the water treatment plant and the required  
28 replacement of the intake pump associated with the relocation of the treatment plant, there is no

1 practical reason not to construct the final improvements.

2 3. Lift Stations Nos. 2 & 3 are critical facilities and are scheduled to be replaced and  
3 are currently at the 90% complete design milestone. The risk of not relocating these facilities  
4 prior to the lake surcharge is that lake water could come within the 50' setback required by the  
5 Uniform Plumbing Code.

6 4. As to the marina, a non-critical facility but essential recreational facility, there is  
7 no interim solution that was identified. The long-term improvements would need to be  
8 constructed for year round access to the marina.

9 5. As to the launch ramp, a non-critical facility but essential recreational facility,  
10 there is no interim solution that was identified. This facility can be submerged and removed  
11 from service during periods when the lake elevation exceeds 750, or the long-term  
12 improvements could be constructed for year round access to the launch ramp.

13  
14 Attachment:

15 Curriculum Vitae  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27

# Eric L. Flavell, P.E.

## Principal



### Education

BS Civil Engineering, Oregon State University, 1978

BS Industrial Engineering, Oregon State University, 1978

### Registration

Professional Engineer:  
Civil  
California, 33000  
Nevada, 6506  
Oregon, 15394

### Professional Affiliations

American Society of Civil Engineers

- Business Practice Committee
- Past President Santa Barbara/Ventura Branch

ASFE

- Emerging Issues and Trends Committee

American Public Works Association

- Member

Consulting Engineers and Land Surveyors of California

- Member

California Shore and Beach Preservation Association

- Past Member Board of Directors

**Mr.** Flavell is conversant in the three phases of public improvements engineering: facility planning, design, and construction management. He has experience with each on a variety of civil engineering projects. Knowledge gained from these projects allows him to assemble effective project teams and to manage the many facets of complex public works projects to their successful completion.

**Key** facility planning projects Mr. Flavell has performed or managed are the study for the expansion of the City of San Diego's Metro Wastewater Treatment Plant from 120 million gallons per day (MGD) to 180 MGD, Street Master Planning for the Cities of Santa Barbara and Paso Robles, Airport Industrial Area Master Plan, Airport Sewer Master Plan for the City of Santa Barbara and Cachuma Park Wastewater and Water Treatment Plants for the County of Santa Barbara.

**Significant** projects Mr. Flavell has designed or managed include major roadway, infrastructure, parking lot, flood control, water, sewer and airport infrastructure projects for the City of Santa Barbara, a sewerage project serving over 900 homes in the County of Santa Barbara, and wastewater treatment plants and support facilities for the Cities of Napa, Reedley, Coalinga, Santa Maria and San Pablo, in California.

**Mr.** Flavell has substantial experience with the construction process. He was the Construction Project Manager of a joint venture, multiple contract Regional Wastewater Treatment and Reclamation Facility for Carson City, Nevada, comprised of eight construction contracts totaling 35 million dollars. Other construction observation and review projects include a 6 million dollar Wastewater Treatment Plant for the City of Reedley, California, the 21 million dollar Castaic Lake Water Treatment Plant, roadway and infrastructure projects for the City of Santa Barbara, and Water Treatment Facilities for the Cities of Ventura and Santa Barbara. This work includes projects designed by others as well as projects for which Mr. Flavell played an active role in design.



**FLOWERS & ASSOCIATES,**

**INC.**