



**Stage 1**

Same as No Project.

**Interlude A**

Same as No Project until construction is completed, then Purisima and Terrace deposits continue to retreat, but at a slower rate than for No Project.

**Stage 2**

Pocket beaches form, reducing wave erosion at base of Purisima. Terrace deposits have retreated to East Cliff Drive.

**Interlude B**

Terrace deposits continue to retreat but at a slower rate than Alternative 3. Purisima retreats slowly, but filling notches slow the rate of retreat.

**Stage 3**

Portions of East Cliff Drive have failed.

**Interlude C**

Purisima continues to fail and retreat, as do terrace deposits. New notches form in Purisima and, unless filled, eventually cause Purisima to fail.

**Stage 4**

Most of East Cliff Drive removed. Purisima unprotected and retreats, as for No Project.

Source: Griggs 2001

**Alternative 4  
Groins and Notch Filling**

Santa Cruz, California

**Figure 6-4**