BULLETIN

News from SubTerra, Inc.®

Spillway and Escape Channel Expansion
LL Anderson Dam, California

***SubTerra, Inc** was retained by Montgomery Watson Harza as the Blast Consultant for Spillway and Escape Channel improvements at the LL Anderson Dam in California. **SubTerra** evaluated alternative construction methods including blast and mechanical excavation, reviewed the geotechnical data and baseline reports and prepared the project pre-qualification and blasting specifications.*

The photograph below shows the existing spillway alignment.

Construction is expected to be accomplished using drill-and-blast methods with smooth-wall blasting of the final cut slopes. Ground support requirements are likely to be minimal but may include spot bolting within the confines of the general excavation with pattern bolting in the vicinity of important structures. The following general concepts currently apply:

- Cuts in Granodiorite Bedrock at 0.25:1 (H:V).
- Slope benches will be sloped downwards along the spillway alignment.
- Benches in bedrock will be between 20 and 80-ft high with a nominal 20-ft wide intermediate bench.

Blasting criteria were developed for preserving final rock wall integrity and for blasting adjacent to the existing Tainter Gate structure.

Blasting specifications were developed to implement the project design and blasting criteria.

Future work will involve reviewing blast submittals, blast and blast monitoring plans, and other Blast Consulting services required for a successful project.

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