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Subject: RE: Question on Seismically Induced Seiche for Sites Reservoir

There is the potential for a seiche to occur within Sites Reservoir, either landslide-induced or seismically-induced. The potential magnitude of any seiche is currently unknown; however, based on our current understanding of the site geology we do not believe the seiche will be large enough to overtop the proposed dam with the minimum freeboard of 19 feet for the Alternative 1 reservoir and 18 feet for the Alternative 2 reservoir. If a significant seiche occurred, the seiche could run uphill, particularly on shallower slopes, slopes without riprap, and/or areas closer to the source of the seiche. This judgment is based on limited information and evaluation. Further studies are necessary to confirm the magnitude of any seiche, which could occur due to landsliding, strong ground motions that may be generated from nearby faults or faults farther from the project site, fault offset, and/or differential tilting of the reservoir floor from an earthquake. In the case where a predicted seiche is determined to significantly inundate recreation areas, the downhill limit of the recreation area could be adjusted to be above the predicted level.