CASE STUDY

Alameda County Water District
Alameda Creek Diversion Dam

SUNOL, CALIFORNIA

APPLICATION: FISH PASSAGE

The Alameda Creek Diversion Dam is adjacent to the remote area of the Sunol Regional Wilderness Park southeast of San Francisco in Sunol, California. The diversion dam helps collect water in the Calaveras Reservoir through a long tunnel. To facilitate the passage of fish (primarily steelhead trout), a new diversion structure was designed and installed in the bed of Alameda Creek, part of the Alameda Creek Watershed. It comprised four tee-shaped fish screens, an intake manifold, wet well, and three adjoining concrete-box culverts. A custom PNP MultiFunction Boom™, which can be suspended in air when dry and float during flow, now enables debris guidance and fish passage.

INSTALLATION FEATURES

- Length: 121 feet
- HDPE Boom size: Class 3 / 30-inch diameter
- Depth: 4 feet under floatation
- 6 debris barrier panels with galvanized steel frames
- PNP HDPE pile sliders to reduce friction and moving parts
- Anchored by wall beam slider and pile sliders
- Simplified, streamlined, and robust
- Suitable for an extremely flashy river