

Supplement A

Floating Weir Collector Specifications

The downstream bypass comprises a floating weir collector (FWC) and behavioral guidance system located adjacent to the spillway crest (Figure SA1). A behavioral guidance system of vertical steel curtains mimics the reservoir shoreline and is designed to funnel fish towards the entrance of the FWC. Fish enter via a 2x2 meter opening in the FWC with a $0.14 \text{ m}^3/\text{s}$ inflow and swim towards the back of the FWC where the water velocity gradually increases. At the back of the FWC the water velocity reaches approximately 2 m/s and actively moves fish into a transportation pipe. The steel transportation pipe runs 365 m around the dam and releases fish 60 m downstream of the spillway.



Figure SA1: Views of both the entrance and exit to the floating weir collector (FWC) located in the Los Padres reservoir. The entrance to the FWC, on left, and the exit pipe, on right.