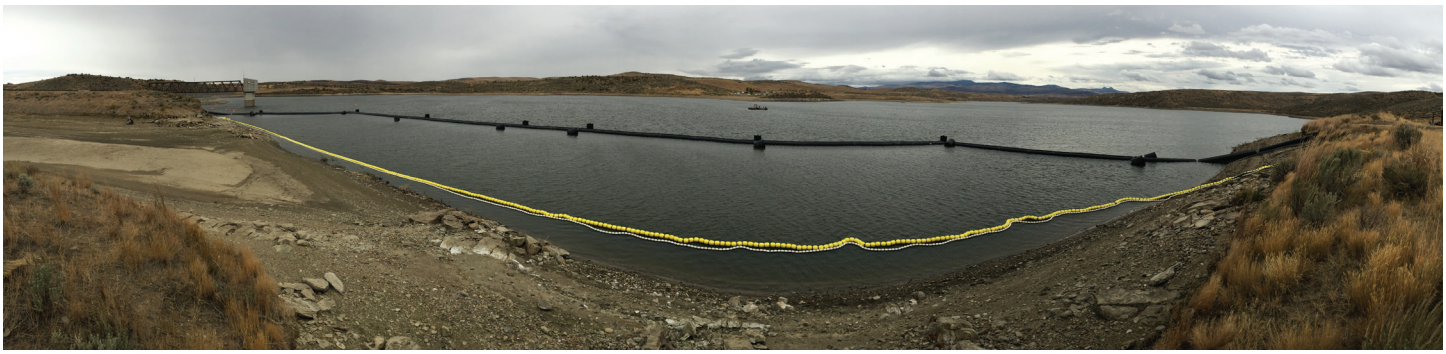
CASE STUDY

Colorado Parks and Wildlife Elkhead Reservoir Barrier Netting

CRAIG, COLORADO

APPLICATION: GUIDANCE AND BARRIER NETTING

Pacific Netting Products designed and manufactured a barrier net and debris boom for the purpose of preventing introduced gamefish from escaping over the reservoir's concrete spillway and into Elkhead Creek and the Yampa River during high flow events. The release of introduced gamefish into Elkhead Creek and the Yampa River is detrimental to the listed fish species that are endemic to the Yampa and Green River systems. PNP also designed, manufactured, and installed a floating debris boom to protect the barrier net from woody debris. The floating debris boom system consisted of 19 sections of 24-inch-diameter; 50-foot-long foam filled high density polyethylene (HDPE). To reduce debris such as tumble weeds from overtopping the float sections, a 1" x 8" HDPE continuous fusion welded "splash guard" was attached at a slight angle along the top of the entire boom. To reduce passage of debris under the floating debris boom, a 48" deep rubber debris skirt with weight bars was also attached to the lower keel of the boom.

INSTALLATION FEATURES

- Dyneema® SK75 ultra high molecular weight polyethylene (UHMWPE)
- HDPE floating MultiFunction debris boom
- Enhances survivorship of native listed fish species
- Accommodates changes in surface water elevations
- Debris boom designed to withstand ice embedment and deflect 1.5-foot-diameter x 30-foot-long tree trunks and partially submerged objects