Figure 1: Project Location

Source: USGS 7.5-Minute Series Felton Quadrangle
Township 9S, 10S; Range 2W; Sections 3, 34

Project Site

Newell Creek Dam Inlet/Outlet Replacement Project

SOURCE: USGS 7.5-Minute Series Felton Quadrangle
Township 9S, 10S; Range 2W; Sections 3, 34
FIGURE 3
Inlet Structure and In-Reservoir Disposal Area - Plan View
Newell Creek Dam Inlet/Outlet Replacement Project

Legend
Permanent Impacts to Waters of the U.S./State

- In-Reservoir Excavation Area (1.5 acres)
- In-Reservoir Disposal Area (1.30 acres)
- Inlet Foundations (3) (0.02 acres)
Inlet Structure and In-Reservoir Disposal Area – Conceptual Cross-Section

Loch Lomond Reservoir

Area of Unconsolidated Material to be Removed

Existing Thalweg

Siltscreen Around Work Area

Elevation of Lower Inlet (462')

Final In-Reservoir Grade (1.5:1 to 2:1)

Existing In-Reservoir Grade

Dredging Area

Disposal Area

In-Reservoir Dredged Material Disposal Area

Elevation in feet

SOURCE: Dudek 2019

FIGURE 4
Jurisdictional Features

Waters of the U.S./State (Loch Lomond Reservoir)

Temporary Impacts to Waters of the U.S./State

Temporary Boat Launch Pier

0.02 acre Loch Lomond Reservoir
Jurisdictional Features

Waters of the U.S./State

Permanent Impacts to Waters of the U.S./State

Construction Platform

- 0.02 acre Seepage Channel
- 0.01 acre Seep Wetland 1
- 0.03 acre Seep Wetland 2
- 0.01 acre Spillway Plunge Pool
- 0.01 acre Ephemeral Drainage

See Figure 7 for Newell Creek Pipeline and Culvert Bridge Impacts

FIGURE 6
Construction Platform - Plan View
Newell Creek Dam Inlet/Outlet Replacement Project
Jurisdictional Features

Waters of the U.S./State

Permanent Impacts to Waters of the U.S./State

Newell Creek Pipeline
- 0.04 acre Newell Creek (PD-01)
- 0.01 acre Seep Wetland (SEEP-01)

Culvert Bridge
- 0.03 acre Spillway Plunge Pool (SPP-01)
- 0.01 acres Newell Creek (PD-01)
- 0.01 acre Seep Wetland (SEEP-01)
- 0.01 acre Seasonal Wetland (SW-01)

Temporary Impacts to Waters of the U.S./State

Newell Creek Pipeline
- 0.04 acre Newell Creek (PD-01)

Culvert Bridge
- 0.05 acre Spillway Plunge Pool (SPP-01)
- 0.01 acre Seasonal Wetland (SW-01)

See Figure 6 for Construction Platform Impacts
NEW CONSTRUCTION PLATFORM AND OUTLET PAD
NEW WINGWALL NORTH SIDE OF NEWELL CREEK
NEW CULVERT BRIDGE
NEW WINGWALL SOUTH SIDE OF NEWELL CREEK
EXISTING ACESS ROAD

NEW CULVERT BRIDGE

EXISTING GRADE
FINAL GRADE EXISTING GRADE

(N) NEWELL CREEK PIPELINE
(E) OHWM OF NEWELL CREEK
(N) CONCRETE CAP/ENCASMENT

*NOT TO SCALE

SOURCE: AECOM 2018

FIGURE 8
Newell Creek Pipeline and Culvert Bridge - Cross Section
Newell Creek Dam Inlet/Outlet Replacement Project