



Planning and Resource Management for Our Communities and the Environment

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Scott E. Shewbridge, Ph.D., P.E., G.E.
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Richard Floch
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Subject: **Preliminary Draft**

Technical Memorandum Number 5 – Pre-project Habitat Analysis Maps for Silver Lake, Caples Lake, Echo Lake and Lake Aloha.

Dear Mr. Shewbridge and Mr. Floch:

The following maps were obtained from the Application for License for the El Dorado Hydroelectric Project (FERC Project No. 184) February 2000, Volume 5, Exhibit E, Appendix W. The original maps were created by Price Geographic Consulting and Resource Insights, 16 February 2000. The maps also contain tables illustrating acres of historic CalVeg Cover Types. The tables are attached here for ease of review and comparison. The acreage values represent the amount of each vegetation type lost as a result of the inundation of the reservoir. This is a preliminary draft. The primary preparers of Technical Memorandum are listed below:

EIP Associates
Roy Leidy
Soraya Romero
Russell Kobayashi, RPF No. 2725

Should you have any questions or wish to discuss this report please contact me.

Sincerely,

Roy Leidy
Director, Fisheries and Aquatic Sciences

Attachments



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Pre-Project CalVeg Cover Type Acreage Tables for Silver Lake, Caples Lake, Echo Lake and Lake Aloha.

Silver Lake Pre-Project CalVeg Cover Types Map 1	ACRES
Red Fir	128
Wet Meadow, Grass-Sedge-Rush	72
Barren	17
Original Lake Surface	285
Current High Water Surface	502

Caples Lake Pre-Project CalVeg Cover Types Map 2	ACRES
Lodgepole Pine	394
Wet Meadow, Grass-Sedge-Rush	110
Barren	12
Original Water Surface	108
Current High Water Surface	624

Echo Lake Pre-Project CalVeg Cover Types Map 3	ACRES
Red fir	21
Wet Meadow, Grass-Sedge-Rush	2
Montane Mixed Shrub	1
Barren	1
Sub-alpine Conifer Series	1
Original Water Surface	310
Current Water Surface	326

Lake Aloha Pre-Project CalVeg Cover Types Map 4	ACRES
Red fir	2
Barren	346
Meadow Pockets (4% of Barren)	14
Water Surface Prior to 1896	230
Current High Water Surface	592

EL DORADO IRRIGATION DISTRICT FEDERAL ENERGY REGULATORY COMMISSION PROJECT NUMBER 184

PRE-PROJECT HABITAT ANALYSIS MAPS FOR SILVER LAKE, CAPLES LAKE, ECHO LAKE AND LAKE ALOHA

Pursuant to 18 CFR 16.8(b)(4), the Eldorado National Forest transmitted their response to the Initial Stage Consultation Package to EID on 21 September 1998, with the identification of necessary studies and issues which needed to be addressed in the application for license for the Eldorado Irrigation District Project, FERC No. 184. The Forest Service has the authority, under Section 4(e) of the Federal Power Act, to include conditions in the license for the El Dorado Project to provide for protection and utilization of the National Forest System Lands. The Forest Service also has the responsibility to ensure consistency with the National Forest Management Act, which requires that use of the National Forest System lands be consistent with direction provided in the Eldorado National Forest Land and Resource Management Plan and the Lake Tahoe Basin Management Unit land and Resource Management Plan. Several issues were identified by the Forest Service concerning the affect of the reservoir creation on riparian and wetland habitats. The question was raised as to what types of riparian and wetland habitats have been affected through inundation and what has been the net loss or gain in the acreages of these habitats.

EID included estimates of the acreage and type of riparian and meadow habitat removed as a result of inundation of the reservoir in maps of Silver Lake, Caples Lake, Echo Lake and Lake Aloha. The attached maps were obtained from the Application for License for the El Dorado Hydroelectric Project (FERC Project No. 184) February 2000, Volume 5, Exhibit E, Appendix W. The original maps were created by Price Geographic Consulting and Resource Insights, 16 February 2000. The maps contain tables illustrating acres of historic CalVeg Cover Types. The tables are attached here for ease of review and comparison. The acreage values represent the amount of each vegetation type lost as a result of the inundation of the reservoir.