

Planning and Resource Management for Our Communities and the Environment

7 June 2002

Scott E. Shewbridge, Ph.D., P.E., G.E. Senior Engineer - Hydroelectric El Dorado Irrigation District 2890 Mosquito Road Placerville, California 95667

Richard Floch Richard Floch and Associates P.O. Box P.O. Box 285 Rescue, California 95672

Subject: Preliminary Draft

Technical Memorandum Number 8 –Habitat Maps for Wolverine, Fisher, Pine Martin, Sierra Nevada Snowshoe Hare and Sierra Nevada Red Fox

Dear Dr. Shewbridge and Mr. Floch:

In order to help evaluate the potential to affect several special-status mammals as a result of Project #184 operations, maps of potential wolverine, pine marten, fisher, Sierra Nevada red fox, and Sierra Nevada snowshoe hare habitat were generated from CalVeg and Wildlife Habitat Relationships (WHR) cover type information obtained from the Eldorado National Forest office in Placerville. Additional vegetation cover type information was obtained from maps presented in the Application for License for the El Dorado Hydroelectric Project (FERC Project No. 184) February 2000, Volume 5, Exhibit E, Appendix W, created by Price Geographic Consulting and Resource Insights. Attached please find the maps and tables showing the approximate acreage of potential habitat within a quarter mile of the project #184 facilities (reservoirs, canal, penstock, powerhouse). This is a preliminary draft. The primary prepares of Technical Memorandum are listed below:

EIP Associates

Roy Leidy

Roy Lidy

Russell Kobayashi, RPF No. 2725

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

Sincerely,

Roy Leidy Principal

Director, Fisheries and Aquatic Sciences

Attachments

EL DORADO IRRIGATION DISTRICT FEDERAL ENERGY REGULATORY COMMISSION **PROJECT NUMBER 184**

HABITAT MAPS FOR WOLVERINE, FISHER, PINE MARTIN, SIERRA NEVADA SNOWSHOE HARE, AND SIERRA NEVADA RED FOX

In order to address the concerns of the Eldorado National Forest that several terrestrial species might be affected by FERC project #184 operations, habitat maps of potential wolverine, pine marten, fisher, Sierra Nevada red fox, and Sierra Nevada snowshoe hare habitat were generated from CalVeg and Wildlife Habitat Relationship (WHR) cover type information obtained from the Eldorado National Forest office in Placerville. Additional vegetation cover type information was obtained from maps presented in the Application for License for the El Dorado Hydroelectric Project (FERC Project No. 184) February 2000, Volume 5, Exhibit E, Appendix W, created by Price Geographic Consulting and Resource Insights.

The attached maps show potential habitat for each species found near the Project #184 reservoirs (Caples Lake, Lake Aloha, Silver Lake and Echo Lake), and around the Project #184 canal, penstock and powerhouse. A quarter mile assessment area boundry around these project facilities is also displayed on the maps. An estimation of the acreage of each species habitat within the quarter mile assessment area boundry is presented in the attached tables.

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Sierra Nevada snowshoe hare habitat within ¼ mile of Eldorado Irrigation District FERC Project #184 facilities (reservoirs, canal, penstock, powerhouse).

Silver Lake	<u>Acres</u>
Sierra Nevada snowshoe hare habitat	791
Other habitat	22
Barren	180
Total	993
Conles Lake	Aores
Caples Lake Sierra Nevada snowshoe hare habitat	<u>Acres</u> 884
Other habitat	14
	132
Barren	
Total	1,030
Lake Aloha	Acres
Sierra Nevada snowshoe hare habitat	113
Other habitat	16
Barren	1,030
Total	1,159
Echo Lake	Acres
Sierra Nevada snowshoe hare habitat	506
Other habitat	108
Barren	158
Total	772
EID Canal	Acres
Sierra Nevada snowshoe hare habitat	4,180
Other habitat	2,857
Barren	50
Total	7,087

Fisher/Pine Martin habitat within ½ mile of Eldorado Irrigation District FERC Project #184 facilities (reservoirs, canal, penstock, powerhouse).

Silver Lake	Acres
Fisher/Pine Martin habitat	791
Other habitat	22
Barren	180
Total	993
Carriag Lake	Aorea
Caples Lake	Acres
Fisher/Pine Martin habitat	884
Other habitat	14
Barren	132
Total	1,030
I also Allaha	Alonos
Lake Aloha	Acres 112
Fisher/Pine Martin habitat	113
Other habitat	16
Barren	1,030
Total	1,159
Echo Lake	Acres
Fisher/Pine Martin habitat	506
Other habitat	108
Barren	158
Total	772
EID Canal	Acres
Fisher/Pine Martin habitat	2,859
Other habitat	4,178
Barren	50
Total	7,087

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Sierra Nevada red fox habitat within ¼ mile of Eldorado Irrigation District FERC Project #184 facilities (reservoirs, canal, penstock, powerhouse).

Silver Lake	Acres
Sierra Nevada red fox habitat	811
Other habitat	2
Barren	180
Total	993
Carles Labo	A
Caples Lake	Acres
Sierra Nevada red fox habitat	898
Other habitat	0
Barren	132
Total	1,030
Lake Aloha	<u>Acres</u>
Sierra Nevada red fox habitat	129
Other habitat	0
Barren	1,030
Total	1,159
Eaha Laka	Aores
Echo Lake Sierra Nevada red fox habitat	Acres 614
	614
Other habitat	
Barren	158
Total	772
EID Canal	Acres
Sierra Nevada red fox habitat	4,060
Other habitat	2,977
Barren	50
Total	7,087

Wolverine habitat within ¼ mile of Eldorado Irrigation District FERC Project #184 facilities (reservoirs, canal, penstock, powerhouse).

Silver Lake	Acres
Wolverine habitat	811
Other habitat	2
Barren	180
Total	993
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Caples Lake	Acres
Wolverine habitat	897
Other habitat	1
Barren	132
Total	1,030
Lake Aloha	Acres
Wolverine habitat	124
Other habitat	5
Barren	1,030
Total	1,159
Echo Lake	<u>Acres</u>
Wolverine habitat	570
Other habitat	44
Barren	158
Total	772
EID Canal	Acres
Wolverine habitat	2,866
Other habitat	4171
Barren	50
Total	7,087