Monitoring, Assessment, and Performance Measures

Performance Measure #1: Acre feet of Water Supply Conserved or Enhanced. Over 350 acre feet of water supply will be enhanced as Finnon Lake is restored back to its original capacity. Task 3: Removal of Existing Embankment: The existing embankment material will be removed, dried, and stockpiled during the summer. Task 4: Foundation & Core Treatment: The entire area of the embankment foundation shall be excavated to intensely weathered rock foundation, as determined by the on-site engineer and approved by DSOD. Task 5: Reconstruction of the Embankment: Materials from the existing embankment will be used in the reconstruction phase. This material must be allowed to adequately dry. The existing spillway will be used for the reconstructed embankment and shall not be disturbed. If the spillway is damaged, it will be reconstructed to its original dimensions with reinforced concrete as directed by the on-site engineer and approved by the DSOD. The scheduled for reconstruction, if damaged will coincide with reconstruction of the embankment.

Performance Measure #2: Acres of Land Improved or Restored. This project will restore 5.9 acres of forest habitat. Task 9: Healthy Forests and Restoration Monitoring Plan. Objectives for upland forest health and habitat improvements include enhancing; wildlife habitat conditions, vegetative health and vigor, reduce fire risk, and to provide for more plant species diversity. These objectives will be accomplished through a partnership with USDA-NRCS and CALFIRE with the use of the California Conservation Crews (CCC). The NRCS will provide a Forest Conservation Plan, while the CALFIRE will provide CCC crews for in-the-ground restoration work. The area has been identified as Extreme Fire Hazard by CALFIRE Fire Hazard Severity Zoning Map. Volunteers, Boy Scouts of America and k-12 students will build bat and owl boxes that will be placed in appropriate locations. Approximately 5.9 acres of forest will be treated.

Performance Measure # 3: Acres of Wetland Improved or Created. This project will restore 5.5 acres of wetlands. The Project proposes to restore Finnon Lake back to its original operating level of 350 acre feet. Approximately 1.25 acres of direct fill of waters of the United States is authorized by ACOE Nationwide Permit Number 3 (SPK-2002-00467). To mitigate for the loss of the flooding of 10.9 acres of waters of the United States, the MVFA is required to implement a Mitigation and Monitoring Plan for Finnon Lake according to the provisions outlined under the Nationwide Permit No. 3: Two (2) acres of wetlands will be created as a result of maximum water level soil saturation and vegetation establishment; Three (3) acres of wetlands will be credited as a result of reservoir drawdown and water level fluctuations during spring and summer. To assure success of the preserved and created waters of the United States, the MVFA will monitor compensatory mitigation, avoidance, and preservation areas for five (5) years until success criteria has been met.

Performance Measure # 4: Acres of Fishery and Aquatic Habitats Improved. This project will enhance the aquatic habitat for fish and other biological organisms and improve the fishery of the lake within a 55 acre footprint. A Fishery Habitat Improvement Plan has been completed and includes techniques that could enhance aquatic habitat for fish and other biological organisms. These techniques include Brush Shelters, Boulder Clusters and Rock Piles, Gravel Beds, and Spawning Boxes. Volunteers from Trout Unlimited, Boy Scouts, k-12 students and

community members will build up to 20 spawning boxes. The Sacramento State Sport Fishing club in coordination with Trout Unlimited, a representative from CDFG, and the RCD will develop further techniques to enhance fisheries and coordinate with the Fishery Habitat Improvement Plan.

Performance Measure # 5: Acre Feet of Water Secured. Over 350 acre feet of water supply will be enhanced as Finnon Lake is restored back to its original capacity. Task 8: Supply 350 acre feet of water to Finnon Lake. A resolution was mutually agreed upon between the El Dorado Irrigation District (EID) and the Mosquito Volunteer Fire Department to install a 2-inch water meter off of the piped system, with no connection or commodity charges, to deliver water up to the capacity of the meter to Finnon Lake upon its restoration and after fire suppression draw-downs. Any water supplied to Finnon would be metered, and the usage accounted for as non-revenue water put to beneficial use.

Finnon Lake Restoration & Habitat Improvement Project Performance Measures					
Project Goals	Restore a valuable economic and natural watershed resource.	Improve upland forested habitats	Improve wetland habitat.	Enhance fishery and aquatic habitats.	Secure a sustainable water supply to combat wildfires.
Desired Outcomes	Restore Finnon Lake back to its original operating capacity of 350 acre feet.	Restore 5.9 acres of forest habitat.	Restore 5.5 acres of wetlands.	Enhance the aquatic habitat for fish and other biological organisms - 55 acres.	Secure the delivery of 350 acre feet.
Output Indicators	Reconstruction of existing embankment and improvement of the foundation and core.	The treatment of 5.9 acres of forest lands through a partnership with USDA-NRCS and CALFIRE & the CCC using the Forest Conservation Plan.	2 acres of wetlands created as a result of maximum water level soil saturation and vegetation establishment.	Brush shelters, boulder clusters/rock piles, 5 gravel beds and 20 spawning boxes constructed.	The installation of a 2-inch water meter to deliver water to Finnon Lake
Outcome Indicators	The restoration of Finnon dam	The enhancement	Monitoring of the	A fisheries monitoring	Supply 350 acre feet of

	to DSOD standards to accommodate 350 acre feet of water.	of wildlife habitat conditions, vegetative health and vigor, reduction of fire risk, and the increase of plant species diversity.	compensatory mitigation, avoidance, and preservation areas for 5 years until success criteria has been met.	program implemented every 2 to 3 years to assess the performance of the fishery and help diagnose any potential problems.	water to Finnon Lake through an "inherited" agreement with EID.
Measurement Tools & Methods	Completion of construction tasks within the desired timeframe.	Photo monitoring	Success criteria outlined by the ACOE.	A fisheries monitoring plan including passive trap-netting techniques and a creel census program.	Completion of a water line to delivery water to Finnon Lake.
Targets	Acre feet of Water Supply Conserved or Enhanced.	Acres of Land Improved or Restored	Acres of Wetland Improved or Created.	Acres of Fishery and Aquatic Habitats Improved.	Acre Feet of Water Secured.