Attachment 6. Monitoring, Assessment, and Performance Measures

Structures

After project completion, annual inspections will take place to insure that the construction elements are meeting design standards for underseepage, through seepage and settlement. In addition, ground surveys or geotechnical investigations may be performed when deemed necessary. Additional inspections will be conducted after major storm events to evaluate embankment erosion protection, new or emerging areas of erosion or scour, and their impact on slope stability.

Habitat

Over a five-year period summer and winter inventories of native plant species will be conducted to evaluate the success of plantings and to ensure the sustainability of the new and restored habitat.

Table

On the following page is Table 6 that reflects (1) project goals, (2) desired outcomes, (3) output indicators, (4) outcome indicators, (5) measurement tools and methods, and (6) targets.

Complete Monitoring Program

A comprehensive monitoring and assessment plan will be developed in cooperation with DWR during contract development.

Table 6. Monitoring, Assessment and Performance Measures

Project Goals	Desired Outcomes	Output Indicators	Outcome Indicators	Measurement Tools & Methods	Targets
Reduce Flood Risks in the Project Area	Flood protection for homes, businesses and public facilities in East Palo Alto (a disadvantaged community of the State of California), Menlo Park and Palo Alto	Increased conveyance capacity to accommodate 50-yr fluvial event	Decrease in frequency and severity of flooding Decrease in frequency and expense of local emergency operations	Freeboard measurements during peak events Assessment of acres inundated Post-flood analysis of erosion and scouring	Reduce economic and social impacts of flood events Reduce emergency response needs Reduce loss of commerce and clean up due to street inundation
Accommodate Future Flood Protection Projects	Provide baseline conveyance needed for future actions to protect against 100-year flood event	Full conveyance of 7,000 cubic feet per second throughout system	Reduction in the effort level needed to achieve 100-year protection throughout system	Freeboard measurements with future conditions	Capacity to convey 7,000 cubic feet per second
Improve Habitat for Protected Species	Increased riparian habitat Improved conditions for steelhead migration	Improved vegetative conditions Reduced velocities	Increase in habitat quality and stream conditions for steelhead	Photo documentation of riparian restoration Velocity measurements at high flows in key areas	Full development of creek bank plantings within 3 years. Increase by 10% in temporally favorable conditions for steelhead
Improve Opportunities for Recreation	Creation of more inviting and accommodating trail and nature viewing areas	Increased use of project area for recreational activities	Increased awareness of natural environment Improved public health in DAC with little opportunity for outdoor recreation	Consult annual trail use numbers published for Bay Trail and by Cities	Increase number of recreational trail users by 20%