2.1 Polaris Creek Wetland/Stream Environment Zone (SEZ) Restoration for Tahoe TMDL, BMP Efficiency Testing, Habitat Enhancement, and Outreach ($835,719)

Install BMPs, monitor effectiveness, and involve public stakeholders on various types of surface flow treatments, including test plots for existing BMP technologies. Outreach efforts will develop and disseminate scientific information on wetlands, riparian areas and BMPs, and develop greater public and agency staff understanding of natural hydrologic systems-including their functions and values, how they are lost and the choices associated with their protection and restoration.

2.1.1 Submit appropriate planning documents for construction of the component

2.1.2 Submit 100% As-Bid Plans and Specifications to the Grant Manager prior to implementation

2.1.3 Submit the awarded bid documents

2.1.4 Notify the Grant Manager in writing of the awarded prime construction contractor and Initiation of Construction date

2.1.5 Complete construction in accordance with Plans and Specifications, including:

2.1.5.1 Restore adjacent surface wetlands to establish native vegetation, provide stormwater infiltration, and protect sensitive species habitat.

2.1.5.2 Utilize established test plot system to evaluate BMP applications and management strategies.

2.1.5.3 Create replicate test cell environments in BMP test plot system for comparing efficiency of standard jurisdictions/commercial BMPs under different treatment applications and conditions in Tahoe Basin.

2.1.5.4 Install telemetry equipment for receiving field data and presenting information in interpretive kiosk and on the web., including:

a) Install web camera mounted on pole for aerial views of the stream restoration
b) Conduct pre- and post- construction photo monitoring based on Monitoring Plan
c) Produce accelerated time-lapse image record of seasonal variation, wetland succession and evolution for better understanding of wetland function and for public outreach

2.1.6 Document As-Built Drawings

2.1.7 Coordinate the final implementation of field testing projects

2.1.8 Design additional BMP demonstrations to include requirements for site grading, infiltration, water piping, temporary irrigation, plant layout, and interpretive and outreach communication need

2.1.9 Utilize pervious pavement or paving stones for walking path around site

2.1.10 Install a demonstration garden and elements necessary for an interpretive outreach program

2.1.11 Plant native plant vegetation in disturbed areas

2.1.12 Install native plant interpretive signage for outreach program according to interpretive plan

2.1.13 Compile a menu of alternative management practices and restoration measures tailored to fine sediment removal

2.1.14 Conduct construction inspections as needed until completion

2.1.15 Document key steps with photographs

2.1.16 Verify that all work was completed in accordance with Plans and Specifications

2.1.17 Initiate Monitoring Program in accordance with Final Monitoring Plan

2.1.18 Develop and implement the Community Outreach Work Plan

2.1.19 Organize two (2) meetings of existing stakeholder steering committee

2.1.20 Develop outreach materials for community involvement

2.1.21 Advertise and conduct a Dedication Ceremony at the completion of construction to dedicate the Project to the community

2.1.22 Organize an annual stewardship day to remove trash, exotic (invasive, non-native) plant species, and other restoration activities as part of the outreach efforts

2.1.23 Develop and implement an Interpretive Plan to communicate the role of wetlands for water quality and habitat needs, their sensitivity to disturbance, and the purpose and outcomes of on site monitoring and testing

2.1.24 Develop various bilingual media accessible to the public

2.1.25 Design a brochure and map for the public interpretive walking tour

2.1.26 Develop a Wetlands Awareness and Training Program, including:
a) Provide technical assistance and support
b) Develop training materials
c) Train local stakeholders in existing water quality and wetland issues

2.1.27 Develop wetland outreach material and make available to visitors of the interpretive center

2.1.28 Host an Annual Wetlands Celebration and Public Outreach Event

2.1.29 Determine appropriate/approved date and location for collection of Lahontan Cutthroat Trout (LCT) juveniles out of pond and release based on year-to-year stream conditions and fish growth

2.1.30 Organize one (1) training per year on LCT using existing Department of Fish and Game program as a model

2.1.31 Organize projects to grow LCT eggs to fry

2.1.32 Host classes for the fish releasing, water quality monitoring, and public outreach

2.1.33 Update the Tahoe Integrated Information Management System (TIIMS) regional website at www.tiims.org

2.1.34 Schedule Final Inspection with the Grant Manager