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Member Agencies: Date: February 23, 2009

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Fairfax

Larkspur Subject: SASM SEP Project Tasks Completed: Old Mill Creek Hands-On Creek Restoration and Biotechnical Bank Stabilization Workshop and STRAW/MCSTOPPP Riparian Restoration Implementation

Mill Valley

Novato

Ross

San Anselmo

San Rafael

Sausalito

Tiburon

On November 15, 2008 the Marin County Stormwater Pollution Prevention Program (MCSTOPPP), The Bay Institute's STRAW Program, Mill Valley Stream Keepers, and the City of Mill Valley provided an educational, hands-on, creek restoration and biotechnical bank stabilization workshop at Old Mill Creek in Old Mill Park for the creek side owners and the interested public. The workshop was designed to provide hands-on experience with riparian restoration and biotechnical bank stabilization techniques. MCSTOPPP developed and distributed a postcard workshop invitation (see attachment 1). The postcard promoted watershed stewardship and invited recipients to contact MCSTOPPP to receive free brochures on creek care, native plants, and creek restoration. The invitation was sent directly to 630 owners of creek side parcels along Old Mill Creek, along Arroyo Corte Madera del Presidio upstream of the confluence with Warner Creek, and along Warner Creek. Additional postcards and a registration forms (see attachment 2) were distributed at various locations within the watershed. The postcard acknowledged the support provided by SASM and the Regional Water Quality Control Board. The postcard advertisement was posted to the following websites: Mill Valley StreamKeepers, MCSTOPPP, and City of Mill Valley.

The half day workshop included instruction on pulling invasive plants and on planting native riparian plants. Workshop attendees (see attachment 3) also implemented a small biotechnical bank stabilization project designed and led by Harold Appleton of Prunuske Chatham, Inc., a consultant with years of experience in the creek restoration and environmental education fields.

MCSTOPPP public outreach staff provided brochures on stormwater pollution prevention and creek protection at the event and STRAW and MCSTOPPP staff helped to lead the instruction and implementation. All of the SEP funds allocated to this task were used to hire the consultant to design the biotechnical bank stabilization project and to lead that portion of the workshop. MCSTOPPP designed the postcard in-house and paid for printing and mailing costs.

Prior to the Riparian Restoration day, MCSTOPPP and STRAW staff conducted classroom PowerPoint presentations on January 13, 2009. The presentations covered topics such as: outlining the anatomy of a watershed from it's headwaters to the bay; the importance of a native riparian corridor for species habitat, canopy cover, and erosion control; who lives in a watershed and how pollution and the removal of riparian habitat can affect the food web; what the students could do to prevent stormwater pollution; what non-native, invasive species are and why they need to be removed; and what native plants are and why we plant them.

On January 23, 2009 the staff from the Marin County Stormwater Pollution Prevention Program (MCSTOPPP), The Bay Institute's STRAW Program, Mill Valley StreamKeepers, and Conservation Corps North Bay led the Riparian Restoration portion of the project, working with approximately 94 students from Old Mill Elementary School. The students were accompanied by 5 teachers, 19 parents, and 5 volunteers and consisted of three 3rd grade classes and two 1st grade classes. The students removed more than 3 yards of English Ivy, Himalayan blackberry, and other invasive, non-native species and planted more than 60 native plants. Staff and volunteers also installed dri-water tubes and gel packs to irrigate the plants during the dry months and borders around the planting areas made from fallen branches to help protect the plants from being trampled before they become established. Before and after pictures from the half-day public workshop and riparian restoration day with the students are attached (see attachment 4).

The last of the planting and mulching was concluded on February 4, 2009 by MCSTOPPP and STRAW staff. The materials and design for the biotechnical bank stabilization (see attachments 5-8), the species selection for the 103 native plants and grasses that were planted (see attachment 9), and the mulch used for this project were in accordance with the recommendations from Harold Appleton of Prunuske Chatham, Inc. (PCI). Mr. Appleton made these recommendations after consulting with staff from MCSTOPPP and STRAW, and reviewing the planting design concepts from Katherine Cook of Landscape Vision Design (see attachment 10). Maintenance of all of the plants for this project will be provided by STRAW through October of 2011 and will include the replenishing of dri-water, weeding and photo monitoring.

Enclosures (see enclosed cd):

Attach 1 - Restoration Workshop Postcard.pdf

Attach 2 - Riparian Rest Workshop_Registration.pdf

Attach 3 - Workshop attendees.pdf

Attach 4 - STRAW-MCSTOPPP Restoration.pdf
Attach 5 - Straw wattle.pdf
Attach 6 - Brush wattle.pdf
Attach 7 - OMP Workshop handout.pdf
Attach 8 - Workshop Materials List.pdf
Attach 9 - OMP Native Plant List.pdf
Attach 10 - Midwinter Plantings Rec 2009.pdf
pci_invoice_12-17-08.pdf
pci_signed_contract_10-1-08.pdf
Postcard Invoice.pdf
SASM Report_STRAW.pdf
SASM Invoice 1186_STRAW.pdf
SASM SEP-MCSTOPPP Invoice.pdf
SASM SEP-MCSTOPPP Report 2009.pdf