

Summary: NPS Pollution Control Projects
FFY 1998 Section 319(h) Clean Water Act
MDEP NPS Grants Program

Maine Department of Environmental Protection provided NPS grants to sponsors for the following NPS Pollution Control Projects with FFY 1998 Section 319(h) Clean Water Act funds that USEPA awarded to Maine:

#98-01 Maine Volunteer Lake Monitoring Program

Sponsor: Volunteer Lake Monitoring Program (VLMP)

Facilitate collection of and to insure the quality of lake water quality data on over 350 of Maine's 5,700 lakes. Data gathered through the VLMP will be used to assess the status of lake water quality, conduct trend analyses to assess the vulnerability of a lake to phosphorus impacts, to update the State Water Quality Assessment report, and for other uses. The project duration is 30 months, with a total cost of \$203,938 (\$95,300 federal, \$100,838 match).

#98-02 Bond Brook Watershed Riparian Buffer Establishment

Sponsor: Kennebec County Soil and Water Conservation District

Overview: Conduct a riparian buffer inventory, update the stream bank erosion assessment, assess the inventory, prioritize the areas needing re-establishment of vegetation, conduct a streamside flora survey, contact high-priority landowners, conduct four riparian buffer BMP planting demonstrations totaling approximately 4,000 feet in length, and conduct a workshop on riparian buffer BMPs. The project duration is 30 months, with a total cost of \$44,000 (\$26,400 federal, \$17,600 match).

#98-03 Sabbathday Lake BMP Demonstration Project

Sponsor: Cumberland County Soil and Water Conservation District

Overview: Demonstrate the value of BMPs to control soil erosion and reduce pollution loading to the lake through education and technology transfer in order to improve the environmental and economic value of the lake watershed. The project will install 6 BMP demonstration sites, provide free technical assistance/workshop/ watershed tour to watershed residents, and utilize press releases signage, and a brochure to inform the public of project activities. Project duration is approximately 24 months, with a total cost of \$102,839 (\$61,579 federal, \$41,260 match).

#98-04 Kents Hill School Erosion & Sedimentation Management Demonstration Site

Sponsor: Maine Department of Transportation

Overview: Project to evaluate effectiveness of 3 BMPs: (1) An underdrained wet pond outlet will be evaluated to determine its effectiveness at minimizing thermal impacts to receiving waters; (2) A wood waste bark filter berm will be monitored to determine its efficiency in removing pollutants from highway runoff; (3) Five erosion control treatments will be evaluated for their relative effectiveness preventing soil and phosphorus export from exposed 3:1 sideslopes. The treatments are 4, 8, and 12 inches depth of wood waste bark mulch cover; traditional hay mulch and seeding; and no treatment - bare soil. MDEP and MDOT will use the information to improve BMP design criteria and maintenance recommendations in State BMP manuals. Project duration is approximately 30 months, total cost of \$113,982 (\$78,110 federal, \$46,030 match).

#98-05 StormTreat Stormwater Treatment System Evaluation

Sponsor: Cobbossee Watershed District

Overview: Effective stormwater treatment systems that fit into small sites are needed to reduce phosphorus runoff from impervious surfaces. The purpose of this project is to evaluate the net phosphorus removal efficiency of the StormTreat stormwater collection and treatment system in the Maine climate, and its relative performance on an annual basis, for possible application in local phosphorus control plans. Twenty (20) storms will be monitored over a two-year period. Total project duration will be approximately 30 months. Total project cost is \$40,998 .

#98-06 Tacoma Lakes Demonstration Project

Sponsor: Cobbossee Watershed District

Overview: Demonstrate proper camp road design and maintenance techniques to private camp road owners throughout the Tacoma Lakes region. Emphasis will be on simple, easy to copy BMPs, which minimize road erosion and washouts and prevent reductions in water quality via discharges to the lake. At least three workshops will be conducted, with a camp road assessment by technical advisors and local volunteers, and free technical assistance will be provided to individual landowners for installing BMPs. Project duration will be approximately 30 months. Total cost is \$31,313 (\$18,788 federal, \$12,525 match).

#98-07 Lakeside Park - Urban Stormwater Runoff Project

Sponsor: Franklin County Soil and Water Conservation District

Overview: Reduce discharge of polluted stormwater runoff to Rangeley Lake by installing BMPs to create a sediment trap, level spreader, vegetative buffer (with wetland plants assimilating nutrients), and associated berms. These BMP structures will receive runoff water from the town's urban area and filter it before the runoff reaches the lake. The buffer will also discourage use of the a community park area by geese, which have to date created seasonal problems relating to animal waste with resulting bacterial and nutrient runoff into the lake. The project duration is approximately 18 months. Total project cost is \$60,222 (\$36,133 federal, \$24,089 match).

#98-08 Regulation of Development Activities in the Saco, Ossipee and Little Ossipee River Corridors

Sponsor: Saco River Corridor Commission

Overview: Continue regulation and review of development proposals to protect water quality from nonpoint source pollution within the Saco River Corridor jurisdiction. Total project cost is \$51,130 (\$17,000 federal; \$34,130 match).

#98-09 Capissic Pond Stormwater Treatment Facilities

Sponsor: Portland, City of

Overview: Construct 3 of the 14 stormwater treatment detention ponds that are recommended in the Capissic Brook Greenbelt/Stormwater Abatement Study. These 3 stormwater treatment detention ponds will be constructed to provide significant reduction of pollutants (nutrients and sediment) in stormwater runoff from the 69 acre Rockland Street Drainage area. Portland will showcase the purpose and benefits of these first 3 stormwater ponds in order to gain support for completing city plans for water pollution control in the whole Capissic Brook watershed. The waters of Capissic Brook do not meet assigned Class B water classification standards, i.e. bacteria, dissolved oxygen, and aquatic life criteria. Total project cost is \$159,040 (\$90,000 federal, \$69,040 match).

Portland canceled the project in July 1999

#98-10 Tripp Lake Demonstration Project

Sponsor: Androscoggin Valley Soil and Water Conservation District

Overview: Demonstrate to watershed residents BMPs that can help prevent further degradation of water quality in Tripp Lake, and to raise public awareness about lake water quality problems caused by watershed sources of pollution. BMP demonstrations will be conducted on selected problem sites identified during a previous survey. Technical assistance will be offered at no charge and BMP information packets / workshop / tour will be provided to interested landowners in the watershed. Project duration is approximately 20 months. Total project cost is \$73,665 (\$44,190 federal, \$29,475 match).

#98-16 Long Lake Watershed Survey & BMP Demonstration

Sponsor: St. Agatha, Town of

Overview: Continue to identify NPS pollution sources in the by conducting Phase II of the watershed survey of Long Lake and to begin demonstrating solutions (BMPs). Long Lake is designated as a Nonpoint Source Priority Watershed. The watershed survey will be conducted into three phases due to the large size of the watershed (80 square miles). The headwaters survey will be completed the summer of 1999 for Phase I. Phase II will involve the east and west sub-basins of Long Lake. Several NPS sites identified in the first survey will be treated to demonstrate the value of erosion control BMPs to reduce phosphorus export. Project duration is approximately 14 months. Total project cost is 48,500 (\$29,060 federal, \$19,440 match).

#98-17 Wilson Pond BMP Project and Demonstration

Sponsor: Franklin County Soil & Water Conservation District

Overview: Abate erosion and sedimentation at six previously surveyed sites using erosion control BMPs to help maintain the high water quality of Wilson Pond and its tributaries. The project sites will be featured during 2 workshops for demonstration purposes. Project duration is approximately 14 months. Total project cost is \$55,712 (\$32,495 federal, \$23,217 match).

#98-18 Maranacook Lake North Basin Watershed Survey and Demonstration Project

Sponsor: Town of Readfield

Overview: Project actions: survey and identify existing and potential sources of NPS pollution entering the north basin of Maranacook Lake; construct a demonstration project using BMPs to prevent or greatly reduce an existing NPS source to Maranacook Lake; plan for implementation of BMPs at other identified NPS sites; bring about compliance with the 1997 Erosion and Sedimentation Control Law; and, educate shorefront land owners and citizens of Readfield about the importance of protecting the water quality of Maranacook Lake. Project duration is approximately 14 months. Total project cost is \$23,970 (\$12,750 federal, \$11,220 match).