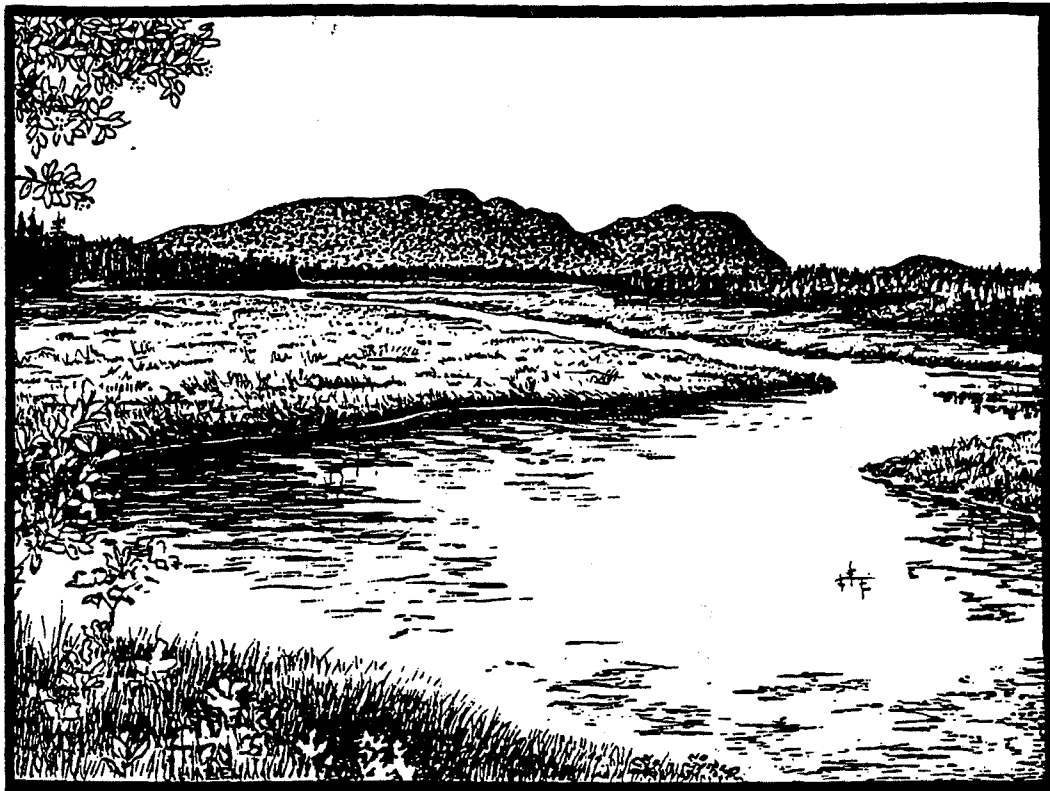


PRIORITY
WETLAND PROTECTION NEEDS
AT ACADIA NATIONAL PARK

PRESENTED TO WOODLOT ALTERNATIVES
FOR CONSIDERATION AS WETLAND MITIGATE PROJECTS



Bas Harbor Marsh

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While wetlands in Acadia National Park (ANP) encompass a relatively small percentage of the land area, they greatly enhance the natural beauty and biological richness of the region. ANP wetlands are diverse and are found in a variety of ecological landscapes including salt marshes, forested and coastal bogs and littoral habitats of the region's many lakes and ponds. Historic land uses in and adjacent to ANP have, however, adversely impacted some of the park's wetlands. Continuing development in the region and increasing park visitation also represent real threats to these systems. Active management and/or manipulation is currently needed to repair past abuses and prevent future impacts.

This proposal summarizes 15 important restoration and mitigation actions at ANP to protect wetland habitats and values. Projects focus on restoring natural water flow in drainages, removing fill from wetlands, stabilizing and mitigating erosion along lakes, brooks and wetlands, reducing non-point and point source pollution into marine and freshwater wetlands, controlling invasive exotic wetland plants, and enhancing public understanding and support for wetland conservation.

In the following pages, annotated descriptions of each project are described. Projects are not ranked in priority order. Project numbers reference map locations on Figure 1.

WETLAND MITIGATION PROJECTS
ACADIA NATIONAL PARK

Project Number	Project Title
1	Restore water flow at Compass Harbor Fire Road
2	Restore natural drainage along various park roads
3	Restore natural drainage in wetlands at Sand Beach
4	Mitigate salt runoff at Cromwell Brook
5	Mitigate erosion along Otter Creek
6	Mitigate erosion from Stanley Brook
7	Stabilize shoreline erosion at National Registry archeology site
8	Repair trail erosion into wetlands
9	Remove fill and restore wetland at Sunken Heath
10	Remove fill and restore wetland at Old Home Site
11	Remove debris, sludge and/or fill from wetlands in easement and acquisition parcels
12	Control purple loosestrife
13	Prevent sewage inputs into coastal waters
14	Mitigate human waste impacts on lake and wetland water quality
15	Enhance public education about wetland issues

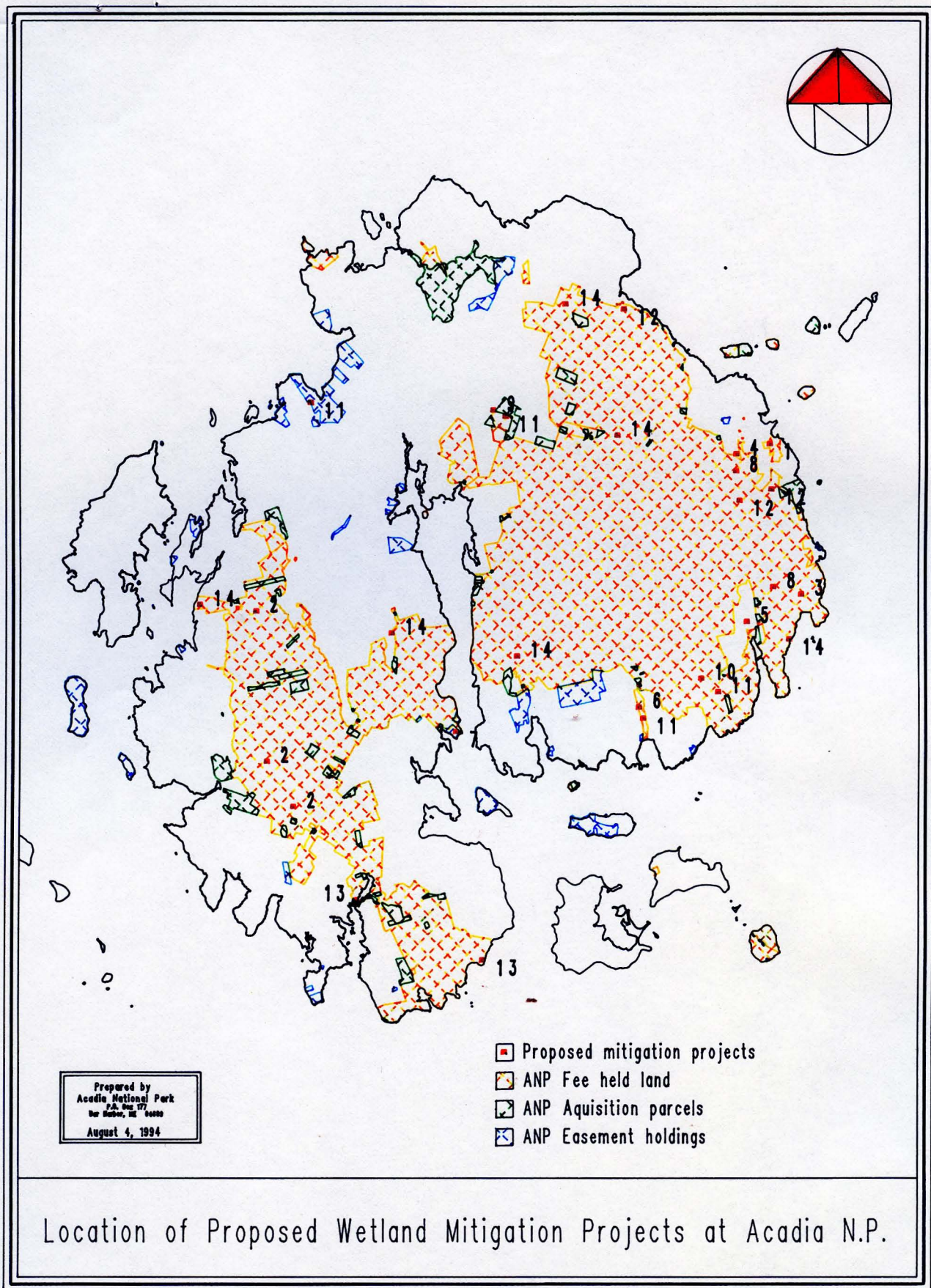


Figure 1.

PROPOSED WETLAND MITIGATION PROJECT
ACADIA NATIONAL PARK

PROJECT NUMBER: 1

TITLE: Restore water flow at Compass Harbor Fire Road

LOCATION: Where stream from pond along Old Farm Road flows under the fire road.

PROJECT OBJECTIVE: Restore natural stream flow, prevent flooding, siltation and erosion.

STRATEGY: Clean debris from stream bed, reset bridge stones, resurface road.

PROPOSED WETLAND MITIGATION PROJECT
ACADIA NATIONAL PARK

PROJECT NUMBER: 2

TITLE: Restore natural drainage along various park roads.

LOCATION: Seal Cove Road, Western Mountain Road, Long Pond Fire Road

PROJECT OBJECTIVE: Restore original drainage where deficient ditches and culverts dam water or cause siltation.

STRATEGY: Replace undersized and deteriorated culverts. Clean and regrade ditches. Revegetate using native species.

PROPOSED WETLAND MITIGATION PROJECT
ACADIA NATIONAL PARK

PROJECT NUMBER: 3

TITLE: Restore natural drainage in wetlands at Sand Beach.

LOCATION: Sand Beach bike path.

PROJECT OBJECTIVE: Restore natural flow to stream.

STRATEGY: Remove fill and paved road in low areas. Replace with bridge or larger culvert. Contour the landform to natural state and revegetate with native species.

PROPOSED WETLAND MITIGATION PROJECT
ACADIA NATIONAL PARK

PROJECT NUMBER: 4

TITLE: Mitigate salt runoff at Cromwell Brook.

LOCATION: Off Ledgelawn Road in Bar Harbor.

PROJECT OBJECTIVE: Protect fresh water and marine waters from salt runoff caused by sand/salt storage. Materials are used by Acadia National Park and the Town of Bar Harbor.

STRATEGY: Construct covered storage facility.

PROPOSED WETLAND MITIGATION PROJECT
ACADIA NATIONAL PARK

PROJECT NUMBER: 5

TITLE: Mitigate erosion along Otter Creek.

LOCATION: 150 yards up slope from Otter Creek on the abandoned town road known as Cross Street.

PROJECT OBJECTIVE: Stop erosion of the old town road and adjacent lands. Prevent further siltation of down slope areas.

STRATEGY: Fill and channel the water to reduce volume and flow rate and revegetate with native species.

PROPOSED WETLAND MITIGATION PROJECT
ACADIA NATIONAL PARK

PROJECT NUMBER: 6

TITLE: Mitigate erosion from Stanley Brook

LOCATION: Various storm water drains along Route 3 and the Jordan Pond Road, Seal Harbor

PROJECT OBJECTIVE: Stabilize eroding slope and prevent ongoing siltation of Stanley Brook

STRATEGY: Recontour slopes, enhance drainage and where necessary, revegetate with native species.

PROPOSED WETLAND MITIGATION PROJECT
ACADIA NATIONAL PARK

PROJECT NUMBER: 7

TITLE: Stabilize shoreline erosion at National Registry archeology site.

LOCATION: Southwest Harbor

PROJECT OBJECTIVE: Stop erosion of shoreline of National Register archeology site

STRATEGY: Reset shoreline rocks with natural native rock material. May require using crane on barge to work with rocks. Consultation with NPS regional archeologist will be required.

PROPOSED WETLAND MITIGATION PROJECT
ACADIA NATIONAL PARK

PROJECT NUMBER: 8

TITLE: Repair trail erosion into wetlands

LOCATION: Great Meadow

PROJECT OBJECTIVE: Eliminate sedimentation and runoff of hiking trails into adjacent wetlands.

STRATEGY:

Great Meadow: Two trails currently bisect the meadow on fill areas. A hydrologic assessment is needed to determine the impacts of restricted water flow and the best strategy to restore this system. Alternative restoration strategies could include: removing the fill and installing boardwalks over the meadow or to reconstruct the trails, adding more culverts and bridges.

PROPOSED WETLAND MITIGATION PROJECT
ACADIA NATIONAL PARK

PROJECT NUMBER: 9

TITLE: Remove fill and restore wetland at Sunken Heath.

LOCATION: Sunken Heath, adjacent to Route 233, Bar Harbor.

PROJECT OBJECTIVE: Restore wetland and remediate aesthetic disturbance.

STRATEGY: Remove fill material, re-contour site and revegetate with native species. Piles of stored fill material also will need to be removed.

PROPOSED WETLAND MITIGATION PROJECT
ACADIA NATIONAL PARK

PROJECT NUMBER: 10

TITLE: Remove fill and restore wetland at Old Home Site.

LOCATION: West of Blackwoods campgrounds off Route 3.

PROJECT OBJECTIVE: Restore wetland.

STRATEGY: Remove fill material, re-contour site and revegetate with native species.

PROPOSED WETLAND MITIGATION PROJECT
ACADIA NATIONAL PARK

PROJECT NUMBER: 11

TITLE: Remove debris, sludge and/or fill from wetlands in easement and acquisition parcels.

LOCATION: COA acquisition property (gravel pit SW of Blackwoods Campground; Stanley Brook; parcel SE of Sunken Heath; Indian Point Road.

PROJECT OBJECTIVE: Restore wetlands

STRATEGY: Remove fill material, re-contour site and revegetate with native species.

PROPOSED WETLAND MITIGATION PROJECT
ACADIA NATIONAL PARK

PROJECT NUMBER: 12

TITLE: Control purple loosestrife.

LOCATION: Visitor Center (Hulls Cove), The Tarn, Bear Brook, Kent Field.

PROJECT OBJECTIVE: Protect wetland communities from this invasive non-native plant.

STRATEGY: Wetland monitoring for the presence of purple loosestrife, herbicide treatments of individual plants, monitoring effects of pesticide applications and public education and outreach efforts.

PROPOSED WETLAND MITIGATION PROJECT
ACADIA NATIONAL PARK

PROJECT NUMBER: 13

TITLE: Prevent sewage inputs into coastal waters.

LOCATION: Seawall Campground and Tremont Elementary School

PROJECT OBJECTIVE: Eliminate nutrient loading into nearshore coastal waters and wetlands.

STRATEGY: Replace existing overboard discharge of treated waste with newly designed alternative waste treatment system that eliminates nitrogen and pathogen inputs into adjacent marine waters. Projects would involve system design, coordination with local and state authorities, permitting, environmental compliance, construction and revegetation with native species.

PROPOSED WETLAND MITIGATION PROJECT
ACADIA NATIONAL PARK

PROJECT NUMBER: 14

TITLE: Mitigate human waste impacts on lake and wetland water quality.

LOCATION: Eagle Lake, Thunder Hole, Pretty Marsh, Lake Wood, Ike's Point, Upper Hadlock Pond

PROJECT OBJECTIVE: Protect lakes, streams, wetlands and nearshore marine waters from contamination caused by human waste.

STRATEGY: At a minimum, locate portable chemical toilets at each of these facilities. The long-term solution is to design and install toilet facilities (composting or vault toilets) for these sites. These sites are some of the most heavily used areas adjacent to water bodies within the park, and at present they have no public toilet facilities.

PROPOSED WETLAND MITIGATION PROJECT
ACADIA NATIONAL PARK

PROJECT NUMBER: 15

TITLE: Enhance public education about wetland issues

LOCATION: Various locations on Mount Desert Island (MDI)

PROJECT OBJECTIVE: Increase public awareness and stewardship about protecting water quality and wetlands values.

STRATEGY: Design and implement public outreach activities that could include: brochures to be handed out at the park visitor center and/or local chambers of commerce; traveling exhibits for use at schools and libraries; wayside exhibits constructed at specific locations around MDI, and; environmental education programs that are taken into local schools.