



Habitat Information Tracking System



Dec 9, 2009

Project Overview

Project: (50024) Great Cypress Swamp

Type: Habitat Improvement
Orgcode: (51120) DELAWARE BAY ESTUARY PROJECT
Entered By: Richard Mccorkle, 3026539152
Point of Contact: Richard McCorkle
Creation Date: Aug 06, 2008
Status: Active
State: Delaware
FWS Region: 5

Project Narrative:

In partnership with CBFO, Ducks Unlimited, the Delaware Center for the Inland Bays, the Natural Resources Conservation Service (NRCS) and the Sussex Conservation District, DBEP is assisting Delaware Wild Lands, Inc., with the restoration of 86 acres of Atlantic White Cedar wetland habitat, and the enhancement of at least 340 additional acres through hydrologic restoration. The Great Cypress Swamp is the largest remaining contiguous tract of forest on the Delmarva Peninsula, and supports many rare, forest-dependent species, including state endangered bird species and globally rare insects and plant communities that will benefit from the proposed restoration. Restoration of Atlantic White Cedar communities involves both tree planting and hydrologic restoration. The hydrologic restoration, which will also enhance habitat conditions in a much larger portion of the swamp, will involve the installation of 5 ditch plugs and 6 water control structures in a system of large, man-made ditches which have greatly altered the original wetland hydrology in the northern portion of the swamp. Both CBFO and DBEP are involved because of the magnitude of this project, and because one portion of the swamp drains into the Chesapeake Bay while another portion drains into the Delaware Inland Bays. Both offices are providing funding and technical assistance in this multi-phased project. The Delaware Center for the Inland Bays (CIB) is providing funding for one of the water control structures. The CIB is a non-profit organization responsible for overseeing the implementation of the Comprehensive Conservation and Management Plan developed by the Delaware Inland Bays National Estuary Program. Ducks Unlimited will be paying for excavation work. The NRCS is paying for plant materials and a tree-planting crew through the Wildlife Habitat Incentives Program, and also contributed in-kind support by providing assistance with the engineering design. Delaware Wild Lands, Inc., the landowner and manager, is also contributing funding for materials and labor. Among the rare and endangered species that are expected to benefit from this restoration effort are Swainson's warbler and Hessel's hairstreak. The hydrologic restoration will also improve water quality in at least 2 watersheds -- those of the Pocomoke River, a Chesapeake Bay tributary, and the

Public Description:

In partnership with Ducks Unlimited, the Delaware Center for the Inland Bays, the Natural Resources Conservation Service (NRCS) and the Sussex Conservation District, the U.S. Fish & Wildlife Service (Service) is assisting Delaware Wild Lands, Inc., with the restoration of 86 acres of Atlantic White Cedar wetland habitat, and the enhancement of at least 340 additional acres through hydrologic restoration. The Great Cypress Swamp is the largest remaining contiguous tract of forest on the Delmarva Peninsula, and supports many rare, forest-dependent species, including state endangered bird species and globally rare insects and plant communities that will benefit from the proposed restoration. Restoration of Atlantic White Cedar communities involves both tree planting and hydrologic restoration. The hydrologic restoration, which will also enhance habitat conditions in a much larger portion of the swamp, will involve the installation of 5 ditch plugs and 6 water control structures in a system of large, man-made ditches which have greatly altered the original wetland hydrology in the northern portion of the swamp. Two Service offices, the Chesapeake Bay Field Office and the Delaware Bay Estuary Project office, are involved due to the magnitude of this project, and because one portion of the swamp drains into the Chesapeake Bay while another portion drains into the Delaware Inland Bays. Both offices are providing funding and technical assistance in this multi-phased project. The Delaware Center for the Inland Bays (CIB) is providing funding for one of the water control structures. The CIB is a non-profit organization responsible for overseeing the implementation of the Comprehensive Conservation and Management Plan developed by the Delaware Inland Bays National Estuary Program. Ducks Unlimited will be paying for excavation work. The NRCS is paying for plant materials and a tree-planting crew through the Wildlife Habitat Incentives Program, and also contributed in-kind support by providing assistance with the engineering design. Delaware Wild Lands, Inc., the landowner and manager, is also contributing funding for materials and labor. Among the rare and endangered species that are expected to benefit from this restoration effort are Swainson's warbler and Hessel's hairstreak. The hydrologic restoration will also improve water quality in at least 2 watersheds -- those of the Pocomoke River, a Chesapeake Bay tributary, and the Delaware Inland Bays.

Project mechanism(s):

- | | |
|--|--|
| 1. Title: Great Cypress Swamp | 2. Title: Great Cypress Swamp |
| Mechanism Type: Landowner Agreement | Mechanism Type: Cooperative Agreement |

Mechanism: Great Cypress Swamp

Title:Great Cypress Swamp

Mechanism Type: Landowner Agreement
Primary Non-FWS Party: NGO/Land Trust
Date of Mechanism: Mar 20, 2008
Length of Mechanism: 20 years
Funds Obligated Date: Mar 2008
Funding Source Fiscal Year: 2008

Mechanism accomplishment(s):

- | | |
|---|--|
| 1. Title: Atlantic White Cedar Restoration I | 2. Title: Great Cypress Swamp Hydrology |
| Habitat Type: Wetland | Restoration |
| Accomplishment Type: Restoration | Habitat Type: Wetland |
| | Accomplishment Type: Enhancement |

Accomplishment: Atlantic White Cedar Restoration I

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Mechanism:Great Cypress Swamp

Coordinates: Longitude: -75.299107142, Latitude: 38.50145089

Watershed (HUC): POCOMOKE

Congressional District: DE00

Michael N. Castle (R)

County: Sussex

State: Delaware

FWS Region: 5 - Region 5

FWS Ecoregion: Delaware River/Delmarva Coastal Area

Accomplishment Status: Final

Accomplishment Type: Restoration

Habitat Type: Wetland

Habitat Class: Palustrine

Habitat Sub-Class: Forested Wetland

Completion Date: Sep 30, 2009

Primary Trust/Resource Benefits: Migratory Birds

Secondary Trust/Resource Benefits: Non-Federal Trust Species

Other Trust/Resource Benefits: Interjurisdictional Fish

Overlay Protection Holder: NGO/Land Trust

Protected in perpetuity? yes

Accomplishment area(s):

1. Title: Atlantic White Cedar Restoration I
Primary Non-FWS Party: NGO/Land Trust

Area: Atlantic White Cedar Restoration I

Accomplishment: Atlantic White Cedar Restoration I

Area: Atlantic White Cedar Restoration I

Primary Non-FWS Party: NGO/Land Trust

Fiscal Year of Work: 2009

Association: 1 WHIP

Treatment / Technique: 1 Ditch Plug Installation/Removal

Treatment / Technique: 2 Planting-Maintaining Trees/Shrubs

Treatment / Technique: 3 Water Control Structure Installation/Modification

Est. Acres Before: 0.0

Acres Before: 0.0

Est. Acres After: 36.0

Acres After: 36.0

Area partner(s):

Partner: Delaware Wild Lands, Inc.

Partner Type: NGO/Land Trust

Is this partner a landowner? yes

Partner Cash Contribution: \$10370.00

Fiscal Year: 2008

Partner: U.S. Department of Agriculture - Natural Resources Conservation Service

Partner Type: Federal Agency

Partner Cash Contribution: \$37830.00

Fiscal Year: 2008

Partner: Ducks Unlimited, Inc.

Partner Type: NGO/Land Trust

Partner Cash Contribution: \$5000.00

Fiscal Year: 2009

Area sub-activity(s):

FWS Sub-Activity: Coastal Program - 1124

Contribution Fiscal Year: 2009

Funding Source Fiscal Year: 2008

Est. Cash: \$5000.00

Cash: \$5000.00

Est. Inkind: \$7000.00

Inkind: \$3500.00

Est. FWS Days: 14.0

FWS Days: 7.0

Area ITIS species:

Species Name: *Hyla chrysoscelis*

Common Name: Cope's Gray Treefrog

Species Name: *Ambystoma opacum*

Common Name: Marbled Salamander

Species Name: *Terrapene carolina carolina*

Common Name: Eastern Box Turtle

Species Name: *Ardea herodias*

Common Name: Great Blue Heron

Species Name: *Anas rubripes*

Common Name: American Black Duck

Species Name: *Aix sponsa*

Common Name: Wood Duck

Species Name: *Haliaeetus leucocephalus*

Common Name: Bald Eagle

Species Name: *Melanerpes erythrocephalus*

Common Name: Red-headed Woodpecker

Species Name: *Picoides villosus*

Common Name: Hairy Woodpecker

Species Name: *Myiarchus crinitus*

Common Name: Great Crested Flycatcher

Species Name: *Certhia americana*

Common Name: Brown Creeper

Species Name: *Protonotaria citrea*

Common Name: Prothonotary Warbler

Species Name: *Limnithlypis swainsonii*

Common Name: Swainson's Warbler

Species Name: *Parula americana*

Common Name: Northern Parula

Species Name: *Dendroica virens*

Common Name: Black-throated Green Warbler

Species Name: *Seiurus noveboracensis*

Common Name: Northern Waterthrush

Species Name: *Seiurus motacilla*

Common Name: Louisiana Waterthrush

Species Name: *Geothlypis trichas*

Common Name: Common Yellowthroat

Species Name: *Wilsonia citrina*

Common Name: Hooded Warbler

Accomplishment: Great Cypress Swamp Hydrology Restoration

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Mechanism: Great Cypress Swamp

Coordinates: Longitude: -75.292232141, Latitude: 38.49904017

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Congressional District: DE00

Michael N. Castle (R)

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State: Delaware

FWS Region: 5 - Region 5

FWS Ecoregion: Delaware River/Delmarva Coastal Area

Accomplishment Status: Final

Accomplishment Type: Enhancement

Habitat Type: Wetland

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Habitat Sub-Class: Forested Wetland

Completion Date: Sep 30, 2009

Primary Trust/Resource Benefits: Migratory Birds

Secondary Trust/Resource Benefits: Non-Federal Trust Species

Other Trust/Resource Benefits: Interjurisdictional Fish

Overlay Protection Holder: NGO/Land Trust

Protected in perpetuity? yes

Accomplishment area(s):

1. Title: Great Cypress Swamp

Primary Non-FWS Party: NGO/Land Trust

Area: Great Cypress Swamp

Accomplishment: Great Cypress Swamp Hydrology Restoration

Area: Great Cypress Swamp

Primary Non-FWS Party: NGO/Land Trust

Fiscal Year of Work: 2009

Treatment / Technique: 1 Ditch Plug Installation/Removal

Treatment / Technique: 2 Water Control Structure Installation/Modification

Est. Acres Before: 0.0

Acres Before: 0.0

Est. Acres After: 340.0

Acres After: 340.0

Area partner(s):

Partner: Ducks Unlimited, Inc.
Partner Type: NGO/Land Trust
Partner Cash Contribution: \$5000.00
Fiscal Year: 2009

Partner: Delaware Center for the Inland Bays
Partner Type: NGO/Land Trust
Partner Cash Contribution: \$8900.00
Partner Inkind Contribution: \$2000.00
Fiscal Year: 2009

Partner: U.S. Department of Agriculture - Natural Resources Conservation Service
Partner Type: Federal Agency
Partner Inkind Contribution: \$12000.00
Fiscal Year: 2009

Partner: Sussex Conservation District
Partner Type: Local Unit of Government
Partner Inkind Contribution: \$2000.00
Fiscal Year: 2009

Comments: for Sussex Conservation District

This partner is also the contractor doing the work. Equipment, materials and labor costs are being charged to the various funding partners. However, there is an in-kind contribution for overhead not charged.

Partner: Delaware Wild Lands, Inc.
Partner Type: NGO/Land Trust
Is this partner a landowner? yes
Partner Inkind Contribution: \$15000.00
Fiscal Year: 2009

Area sub-activity(s):

FWS Sub-Activity: Coastal Program - 1124

Contribution Fiscal Year: 2009

Funding Source Fiscal Year: 2008

Est. Cash: \$5000.00

Cash: \$17000.00

Est. Inkind: \$5000.00

Inkind: \$7000.00

Est. FWS Days: 10.0

FWS Days: 14.0

Comments: for Coastal Program - 1124

The FWS contribution includes \$12,000 from Chesapeake Bay Field Office and 5,000 from Delaware Bay Estuary Project

FWS Sub-Activity: Partners for Fish and Wildlife - 1121

Contribution Fiscal Year: 2009

Funding Source Fiscal Year: 2008

Est. Cash: \$12000.00

Cash: \$12000.00

Est. Inkind: \$12600.00

Inkind: \$12600.00

Est. FWS Days: 21.0

FWS Days: 21.0

Comments: for Partners for Fish and Wildlife - 1121

The PFW Program cash and in-kind contributions are through the Chesapeake Bay Field Office

FWS Sub-Activity: Coastal Program - 1124

Contribution Fiscal Year: 2010

Funding Source Fiscal Year: 2009

Est. Cash: \$7000.00

Cash: \$7000.00

Est. Inkind: \$1000.00

Inkind: \$1000.00

Est. FWS Days: 2.0

FWS Days: 2.0

Comments: for Coastal Program - 1124

The work to restore hydrology experienced significant cost over-runs, and the work could not be completed with existing funding. As a result, a modification to existing cooperative agreement 501818J226 was necessary in order to cover the cost over-run and pay for completion of this work.

FWS Sub-Activity: Coastal Program - 1124

Contribution Fiscal Year: 2008

Funding Source Fiscal Year: 2008

Est. Cash: \$4078.00

Cash: \$4078.00

Est. Inkind: \$500.00

Inkind: \$500.00

Est. FWS Days: 1.0

FWS Days: 1.0

Comments: for Coastal Program - 1124

4 - 24" diameter X 6' tall AgriDrain Inlet-style Water Level Control Structures purchased and delivered to project site for later installation in ditches

Mechanism: Great Cypress Swamp

Title:Great Cypress Swamp

Mechanism Type: Cooperative Agreement

Agreement No.: 501818J226

Primary Non-FWS Party: NGO/Land Trust

Date of Mechanism: Jan 29, 2008

Length of Mechanism: 2 years

Funds Obligated Date: Jan 2008

Funding Source Fiscal Year: 2008

Total Area

Total Project Area By Habitat Type

Est. Wetland Acres After: 376.0

Wetland Acres After: 376.0

Total Project Area

Est. Acres After: 376.0

Acres After: 376.0

Total Contributions

Total Partner Contribution to Project By Habitat Type

Wetland Cash: \$67100.00

Wetland Inkind: \$31000.00

Total Partner Contribution to Project

Cash: \$67100.00

Inkind: \$31000.00

Total Service Contribution to Project By Habitat Type

Est. Wetland Cash: \$33078.00

Wetland Cash: \$45078.00

Est. Wetland Inkind: \$26100.00

Wetland Inkind: \$24600.00

Est. Wetland FWS Days: 48.0

Wetland FWS Days: 45.0

Total Service Contribution to Project

Est. Cash: \$33078.00

Cash: \$45078.00

Est. Inkind: \$26100.00

Inkind: \$24600.00

Est. FWS Days: 48.0

FWS Days: 45.0