Illinois DNR
Conservation 2000 - Ecosystems Program
Project Grant Application for FY 2008

[Deadline: Wednesday, February 28, 2007]

Project Classification: Habitat

Applicant Information

Ecosystem Partnership	Kishwaukee River	**DNR Project**	KIP002-08
Applicant (Grantee if awarded)		**Project Manager**	(Contact person other than Applicant)
First Name	Terry	**First Name**	
Last Name	Hannan	**Last Name**	
Organization	DeKalb County Forest Preserve District	**Organization**	
Address 1	110 E. Sycamore St.	**Address 1**	
Address 2		**Address 2**	
City	Sycamore	**City**	
State	Il	**State**	
ZIP Code	60178	**ZIP Code**	
Telephone	815-895-7191	**Telephone**	
Fax		**Fax**	
Email	thannan@dekalbcounty.org	**Email**	

Project Information

Project Title	Potawatomi Woods Sedge Meadow Restoration

Project Location(s)	**County**	**Township**	**Range**	**Section(s)**
Project Location 1	DeKalb	42N	3E	22

Landowner(s)	**Approval?**	**Landowner Name**	**Landowner Type**	**Location #s**
Landowner 1	Yes	DeKalb Co. FPD	local government	1

Project Abstract

This project will expand the extent and diversity of a high quality sedge meadow, and restore adjacent wet prairie and savannah in the Potawatomi Woods Forest Preserve. Herbaceous invasive species and woody invasives will be removed and replaced with local native seed, trees and shrubs.

Signatures

Application was ☑ filed and signed electronically on 2/26/2007

Project Description

The 30 acre Potawatomi Woods sedge meadow and restoration margins is likely the largest and highest quality full-sun native plant community in DeKalb County. Prairie Indian Plantain, Swamp Saxifrage, Sweet Black-Eyed Susan, Bottled Gentian, Cardinal Flower are on site. This project will expand the extent of the sedge meadow by controlling invasive herbaceous species, particularly Reed Canary Grass (RCG) and by removing invasive woody species on the margins of the sedge meadow. The adjacent savannah remnant which was "timbered out" in the mid 1970's will have invasive species removed selectively, especially around remaining oaks. Some areas will be left to re-grow as open sedge meadow and some will be planted with native high quality trees and shrubs. A disturbed and

degraded area of the wet prairie will be replanted with locally collected seed and plant material, as well as other areas within the project site when invasive species removal leaves a void. Within and around the sedge meadow itself, grass specific herbicide will be used on RCG, the primary invasive species that threatens the sedge meadow. Grass specific herbicides kill or damage only grasses while allowing underlying repressed sedges and forbs to emerge without damage. Since the segde meadow is basically intact, only spot spraying of occasional patches of plants is required. However, the margins of this plant community and larger infestations of RCG within the savannah and wet prairie will require more extensive herbicide treatment. The soft, often wet nature of the soil, the varying terrain, the scattered distribution of the non-native plant infestations, and the necessity of spraying during the growing season will require "walk in" manual application of herbicides using back pack sprayers. Most invasive species control will take place during the first growing season, primarily by contracted specialists. Trees around the western and southern margin of the sedge meadow will be removed to expand the extent of this highest quality remnant. Woody species will also be removed from identified sedge meadow remnants within the wooded savannah area, and around remaining "wolf trees" that were not cut for timber by past owners. Contractors will remove invasive trees and shrubs with chainsaw equipment and burn cut trunks and branches only while the soil is frozen or dry and under close supervision. Cut stumps will be treated with herbicide as needed. Seed collection will be on site and in other local Forest Preserves, and will take place both years. This component of the project is intended to be carried out by volunteers, land steward groups and Forest Preserve staff. Site specific guidance will be given for seed collection, invasive plant control and planting/seeding. Some conservative native species will be contract grown as plugs or plants from on-site seed and then planted in "pods" throughout the site to help insure occurrence of those species that are difficult to establish from seed.

Desired Start Date	January 1, 2008	**End Date**	December 31, 2009

Partnership Goals	[up to 3 goals]
Goal 1:	Increase the quality and quantity of habitat available for all native species in the Kishwaukee River watershed. To enhance biological diversity and establish a more sustainable human environment.
Goal 2:	Promote , protect and preserve high water quality, reduced flood damages, and increased opportunities for recreation and environmental education. Follows Kishwaukee River Watershed Plan.
Goal 3:	This Project conforms with the IDNR C-2000 Mission and Vision Statements of Best Management Practices, Ecosystem Management, Protection and Restoration of high quality Natural Areas, and

Program Guidance	[Please select one or more of the following that your proposal is designed to address]	
☑ **High Quality Natural Resources**	☑ **Minimum functional Habitat Areas; Species, Guilds; Habitat Diversity**	☐ **Buffer to Protect Sensitive Habitats**
☑ **Connect Habitat Areas**	☑ **Ecosystem-Based Best Management Practices**	☐ **Restore and Naturalize Hydrologic Functions**
☑ **Complementary Educational Strategies**	☐ **Research and Monitoring Integration**	☑ **Local, State and Federal Program Integration**

Quarterly Tasks

Quarterly Reporting Period	**Task Description for Quarter**
January 1 - March 31, 2008	Tree and shrub removal by mechanical equipment as soil conditions permit (frozen ground). Begin early herbicide application as conditions permit.

April 1 - June 30, 2008	Burn as conditions permit . Continue herbicide application by contractors during rapid growth period (and after) as needed. Begin seed collection of
July 1 - September 30, 2008	Continue seed collection by volunteers and Forest Preserve staff and follow up herbicide applications as needed.
October 1 - December 31, 2008	Continue seed collection, process and sow seed as available and appropriate. Provide seed to contract grower for plug/plant production.
January 1 - March 31, 2009	Carry out any incomplete tree removal tasks as needed during frozen soil conditions. Assess previous season herbicide effectiveness and begin follow
April 1 - June 30, 2009	Burn as conditions permit. Continue herbicide application to invasive target species. Plant /protect any remainingtrees/shrubs. Plant contracted plugs
July 1 - September 30, 2009	Continue seed collection by volunteers and Forest Preserve staff and follow up herbicide application by contractors.
October 1 - December 31, 2009	Final seed collection and planting. Prepare final report.
January 1 - March 31, 2010	

Anticipated Results [fill in as many as apply]

Habitat Restored and Number of Sites Monitored

	Wetland (Acres)	Prairie (Acres)	Forest (Acres)	Streams (Feet)	Lakes (Acres)	Riparian (Acres)	Soil Saved (Tons/ Acre/ Year)
Habitat Restoration	20	0	10	0	0	0	0
Sites Monitored	1	0	1	0	0	0	0

	Teachers Trained	Students Educated	Volunteers Enlisted	Citizens Contacted
Number of People	2	200	50	0

Land Acquisition Will the project involve acquisition of land?

☑ **No** ☐ **Yes** → Choose ☐ **Fee Simple Acquisition** ☐ **Permanent Easement** ☐ **30-Year Easement**

Does there exist legal access for ingress/egress to the parcel to be acquired fee simple ot be be encumbered by a conservation easement?

☐ **Yes** ☐ **No** → Please explain

Are there any pre-existing real estate purchase agreements encumbering the property?

☐ **No** ☐ **Yes** → Please explain

Has the property been encumbered by a federal or state program?

☐ **No** ☐ **Yes** → Please explain

Is there drain tiling?

☐ **No** ☐ **Yes** → If "Yes", will it be destroyed/removed? ☐ **No** ☐ **Yes** ☐ **Don't know**

Have all landowners been informed of this proposed project?

☐ **No** ☐ **Yes** → Please explain

Land Disturbance Activities Will there be land disturbance?

☐ **No** ☑ **Yes** → Show the access route on the site map and indicate if it is an existing route (choose 1):

☐ **dirt road** ☐ **gravel road** ☐ **paved road** ☐ **not existing route**

Will the land disturbance involve heavy equipment?

☑ **No** ☐ **Yes** → What type(s) of equipment?

Will it involve tree removal?

☐ **No** ☑ **Yes** → Describe the dominant tree cover, and number and average size (d.b.h) of trees being removed .

200 invasive box elder, silver maple

Will there be in-stream construction?

☑ **No** ☐ **Yes** → Estimate duration and season of channel disturbance .

Will there be designated borrow and deposition sites for soil?

☑ **No** ☐ **Yes** → Describe locations.

Will wetland or water retention structures be constructed?

☑ **No** ☐ **Yes** → Detail depth of excavation and estimated water depth [10 words = 50 characters] and show proposed structures clearly on map.

Budget Information

Personnel

Name or Position Title	Hourly Rate ($)	Hours Worked	Total $ Amount
Forest Preserve Staff	$25.00	200	$5,000.00
Volunteers	$10.00	300	$3,000.00
Total, Personnel [enter in Budget Summary, Project Total column]			**$8,000.00**

Equipment

Description	Quantity	Price per item ($)	Total $ Amount
Invasive removal back pack sprayers	4	$125.00	$500.00
Tree removal chain saws	2	$250.00	$500.00
Total, Equipment [enter in Budget Summary, Project Total column]			**$1,000.00**

Commodities

Description	Quantity	Units	Price per Item ($)	Total $ Amount

Tree seedlings and shrubs	200	items	$15.00	$3,000.00
Total, Commodities [enter in Budget Summary, Project Total column]				**$3,000.00**

Contractual

Contractor/Vendor Name	**Category (see instructions)**	**Total $ Amount**
Contracted tree cutting and burning	Invasives	$5,000.00
Contracted seeding , plug planting	Re-vegetaion	$3,000.00
Contracted application	Herbicide	$3,000.00
Total, Contractual Services [enter in Budget Summary, Project Total column]		**$11,000.00**

Total Budget [enter in Budget Summary, Project total column]	**$23,000.00**

Budget Summary

Budget Category	**Project Total**	**C-2000 Funds Requested**	**Matching Funds**
Personnel	$8,000.00	$3,000.00	$5,000.00
Equipment	$1,000.00	$1,000.00	$0.00
Commodities	$3,000.00	$3,000.00	$0.00
Contractual Services	$11,000.00	$11,000.00	$0.00
Acquisition/Easement	$0.00	$0.00	$0.00
Other	$0.00	$0.00	$0.00
Total	**$23,000.00**	**$18,000.00**	**$5,000.00**

Source(s) of Matching Funds	**Itemize by source**
Forest Preserve Funding Match	$5,000.00
Total Match	**$5,000.00**