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# Illinois Department of Natural Resources

One Natural Resources Way - Springfield, Illinois 62702-1271 http://dnr.state.il.us

Rod R. Blagojevich, Governor

Joel Brunsvold, Director

# CONSULTATION AGENCY ACTION REPORT

(Illinois Administrative Code Title 17 Part 1075) Division of Resource Review and Coordination Todd Rettig, Division Manager

Date Submitted: <u>IB-MAY-2006</u>
If this is a resubmittal, include previous IDNR response if available.

FOR DEPART	TMENT USE ONLY
PROJCODE:	DUE DATE:

Applicant: University of Illinois at Urbana - Champaign Contact Person: Matt Malten Applicant Address: 150/5. Oak Street, MC-800 Champaign, 12 61820-6905	Phone: <u>(2/7) 244 - 1324</u> Fax: <u>(2/7) 333 - 4294</u> Email: <i>Mg/ten@vivc.edv</i>
LOCATION OF PROPOSED	ACTION
A MAP SHOWING LOCATION OF PROPOSE	ED ACTION IS REQUIRED

LOCATION OF PROPOSED ACTION
A MAP SHOWING LOCATION OF PROPOSED ACTION IS REQUIRED
Project Name: U/UG WIND TURBINE PROJECT County GHAMPA/GN
Project Address (if available): Campus South Farms
City, State, Zip: Urbana, Illinois
Township/Range/Section (e.g. T45N,R9E,S2): SECTION 33 TOWNSHIP 19 NORTH   RANGE 9 FAST
Brief Description of Proposed Action: Int. University of Illinois at Urbana Champaign plans to install
three (3), 1-5 magainst (MIV) wind turbings on the campus
Projected Start Date and End Date of Proposed Action: PROJECTED CONSTRUCTION PHASE: 5/24/07 - 1/22/08 Will state funds or technical assistance support this action? Yes) No ] If Yes, the Interagency Wetland Policy Act may apply.
The University of Illinois at Urbana - Champaign Contact funding agency or this Division for details.

Local/State Agency with Project Jurisdiction: University of Illing	pis at Urbang - Champaign
Address: 1501 S. Oak Stroot, Champaign, 11. 61820	Fax:

FOR	DEPARTMENT	USE	ONLY

Are endangered/threatened species or Natural Areas present in the vicinity of the action?

Could the proposed action adversely affect the endangered/threatened species or Natural Area?

Is consultation terminated?

Comments:

[Yes | No] [Yes | No] [Yes | No]



Code 06-05029

Rod R. Blagojevich, Governor

Sam Flood, Acting Director

July 6, 2006

Mr. Matthew B. Malten, Sustainability Coordinator University of Illinois at Champaign-Urbana 1501 S. Oak St., MC-800 Champaign, IL 67820-6905

RE: UIUC Wind Turbine Project, Champaign, Champaign County

**Endangered Species Consultation Program Natural Heritage Database Review #06-05029** 

Dear Mr. Malten:

Thank you for submitting this proposed action in Section 33, Township 19 North, Range 9 East, for consultation in accordance with the *Illinois Endangered Species Protection Act* [520 ILCS 10/11], the *Illinois Natural Areas Preservation Act* [525 ILCS 30/17], and Title 17 *Illinois Administrative Code* Part 1075.

The proposed action is located in the vicinity of records for the State-listed endangered **Upland Sandpiper**, *Bartramia longicauda*, and the State-listed threatened **Franklin's Ground Squirrel**, *Spermophilus franklinii*. The proposed action is also in the vicinity of the **Barnhart Prairie Illinois Natural Areas Inventory (INAI) Site**. Additional information is needed to evaluate the potential for adverse effects to these resources.

Also, the proposed action will be subject to the terms of the *Interagency Wetland Policy Act of 1989* [20 ILCS 830] and Title 17 *Il. Admin. Code* 1090. Additional information about the proposed location is needed to evaluate the applicability of this statute.

Consequently, consultation must remain open at this time. Please complete and return the enclosed Detailed Action Report, along with any information you believe will aid an assessment of potential adverse impacts.

The Department recommends biological surveys for these species. The Upland Sandpiper may breed anywhere appropriate grassland habitat of sufficient size exists. This species engages in aerial courtship displays at altitudes which may place it at risk from wind turbine blades.

The Franklin's Ground Squirrel is known from Barnhart Prairie INAI, just south of the project area, and two other locations south of Champaign. Juveniles of this species are thought to disperse up to a mile from their birth territory, and they may occur wherever appropriate habitat exists. This species hibernates for up to seven months of the year and remains below the ground surface for much of its active period. It may share habitat with the more common **Thirteen-Lined Ground Squirrel**, *Spermophilus tridecemlineatus*, whose burrows are very similar. Close observation and/or trapping may be necessary to determine whether the Franklin's Ground Squirrel is present. Persons attempting to survey for this species using any method which may result in the capture or injury of this species must be authorized to do so by the Department pursuant to Part 1070.

Barnhart Prairie INAI is so designated because it provides suitable specific habitat for the Franklin's Ground Squirrel. Direct or indirect adverse effects to Barnhart Prairie are not anticipated. In 2002, the colony there appeared to number about 20 adults and 11 juveniles; half of the latter dispersed elsewhere that year.

The Interagency Wetland Policy Act of 1989 governs direct and indirect adverse impacts to Illinois wetlands of nearly any size. Because it has no relationship to the federal Clean Water Act or any other federal statute, determinations of jurisdiction by the USDA or the US. Army Corps of Engineers do not affect this statute's applicability. "Prior-converted" or "farmed" wetlands not regulated at the federal level plus other "historic" wetlands which may be permanently converted or destroyed by this project are jurisdictional for purposes of the IWPA.

The Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of significant natural features in any specific location; consultation cannot replace detailed site surveys. The Department is unable to state that no listed species exist within the project footprint, nor can it exclude the possibility that listed species other than those mentioned exist in the vicinity. Should a protected species be encountered during project implementation, compliance with applicable statutes and regulations is required.

Consultation is limited to State-listed threatened or endangered species, Illinois Natural Areas, and dedicated Land & Water Reserves and Nature Preserves; it does not entail a comprehensive environmental impact assessment. The Department may raise concerns through other venues regarding potential impacts to other natural resources as it deems appropriate.

Should you need additional information regarding the consultation process, or should you have any questions, please do not hesitate to contact me.

Sincerely,

Keith M. Shank

Impact Assessment Section

Division of Ecosystems & Environment

Ph. (217) 785-5500

Fax (217) 524-4177

keith.shank@illinois.gov

cc: Eric Smith, IDNR/Region III/Natural Heritage

Dan Newhouse, IDNR/Region III/Wildlife



# Illinois Department of Natural Resources

Rod R. Blagojevich, Governor

Sam Flood, Acting Director

One Natural Resources Way • Springfield, Illinois 62702-1271 http://dnr.state.il.us

# ENDANGERED SPECIES CONSULTATION PROGRAM DETAILED ACTION REPORT

Date Submitte	ed:				: 06-05029
Agency Name	):		•	For Office Use On.	Ly
			Phone:		
		Pi	oject Description		
Project Name	(if any):				
					legend should accompa
Total Number	of Acres in Project	Area:			
	e appropriate resp				
Vater Supply:	private wells community well public system		Waste Treatment:	individual septic s private treatment s public treatment f	facility

# Return this report with a copy of each of the items listed below (if available): Subdivision Plat County Natural Resource Inventory Report Drainage Plan/Runoff Control System(s) Detailed Erosion Control Procedures Existing & Proposed Topographic Contours List of Landscaping Plant Species Surrounding Land-Use Photography Wetland Delineation Report Wetland Mitigation Plan U.S. Army Corps of Engineers Correspondence Restrictive Deeds/Conservation Easement Plans Homeowner Covenants and Restrictions Percolation Test Results Soil Boring Data Tree Inventory/Protection Plan Other: Biological surveys adequate to ascertain whether Upland Sandpiper or Franklin's Ground Squirrel are present near or within the footprint of proposed turbines and related facilities locations; and wetland delineations sufficient to determine the presence of any wetlands which are jurisdictional under the Interagency Wetland Policy Act of 1989. Indicate whether post-construction management to promote habitat for the Franklin's Ground Squirrel within the facility footprint is feasible. What measures have been, or can be, included in the project plans to minimize adverse effects to endangered or threatened species or natural areas/nature preserves? (Use additional pages if necessary) Completion of the consultation requirement is mandatory before any State agency and/or local unit of government performs, funds, or approves any environment-altering activity. To facilitate effective coordination, please identify all agencies/local governments involved in the project, including primary contact persons, and indicate each agency's/local government's respective role in the project. Agency/Municipality Contact Person Perform Fund Approve

#### \*Please send all materials to:\*

Endangered Species Consultation Program Division of Ecosystems & Environment Illinois Department of Natural Resources One Natural Resources Way Springfield, Illinois 62702-1271

### **TRANSMITTAL**

To: University of Illinois, Urbana Campus

Attn: Matthew Malten

From: Illinois Natural History Survey

Re: Wetland Determinations

#### Location

Project Title: University of Illinois Wind Farm Project County: Champaign Grant Number:

Survey Conducted By: Allen Plocher, Dennis Keene, Brad Zercher

Illinois Natural History Survey Center for Wildlife Ecology 1816 South Oak St. Champaign, IL 61820

(217) 333-6292

Date Conducted: 21 August 2006

# **Project Summary:**

The project area for the proposed Wind Farm project was surveyed for the occurrence of potential wetlands. One routine on-site wetland determination was conducted and the site met the criteria of wetlands. The attached wetland report includes an explanation of methods and references used in completing this determination. A brief functional assessment of the wetland is presented in the wetland report. The wetland is mapped using Trimble GPS, overlain on Digital Ortho Quads using and Arcview 3.2, and this information is provided as a paper copy and on disc. Wetland determination forms are included in Appendix 1.

Signed: Dr. Allen E. Plocher
INHS/IDNR Project Principal Investigator
Date: 980

# Wetland Report

To: Matthew Malten

From: Allen Plocher, Dennis Keene, Brad Zercher

Date: 25 August 2006

Re: Wetland Determinations – University of Illinois Wind Farm Project

Champaign County, IL

Date Investigated: 15, 21 August 2006

## **Project Description:**

The project area for the proposed Wind Farm project, in Champaign County, IL (legal location T. 19 N., R. 8 E., Sect. 33, W/2), was surveyed for the occurrence of potential wetlands. This 32.4 ha (80 acre) project area consists of agricultural land. Approximately 16.2 ha (40 acres) were in alfalfa, and slightly less (16 ha?) was in corn. In addition, a small grassy area around two farm buildings, a grass waterway, and several grass field borders were present. The National Wetland Inventory maps no wetlands on the site. The NRCS codes the area as PC/NW (prior converted cropland/nonwetland), reflecting that part of the area supports non-hydric soils and part supports hydric soils that have been drained for agricultural purposes. Our field investigations, for the most part, verify this assessment: 2/3 of the area supports non-hydric soils and 1/3 supports hydric soils that appear to be effectively drained by grass waterways, field tiles and ditches. We found that one small area at the corner of a crop field met the criteria of wetlands. The following sources were examined while surveying the project area to determine wetland locations and boundaries: United States Geological Survey topographic map and National Wetland Inventory map (Urbana 7.5 minute quadrangle); Soil Survey of Champaign Co.; aerial photographs; National List of Plant Species That Occur in Wetlands; The 1987 Corps of Engineers Wetland Delineation Manual; and on-site vegetation, soil, and hydrologic indicators.

A brief functional assessment of each wetland is provided in this report. However, this assessment is not an exhaustive description of the values of the site. The Floristic Quality Index (FQI), Developed by Taft, Ladd, Wilhelm and Masters (*Floristic Quality Assessment for vegetation in Illinois*, 1997), was applied to the vegetation of each site. This index should not be used as a substitute for quantitative analysis, but it does provide a measure of floristic integrity. The FQI is calculated as follows:  $I=R/\sqrt{N}$ , where R represents the sum of the numerical ratings for all species recorded in the area, and N represents the number of recorded native species. The mean C is calculated as: mean C=R/N. FQI values of less than 10 indicate low natural quality (less than 5, very low), while sites with values of 20 or more (mean C > 3.0) have at least some evidence of native character and may be considered environmental assets.

Wetland site boundaries were mapped using Trimble GPS (Global Positioning System). The locations of the sites were overlain on Digital Ortho Quads using Arc View 3.2. Printouts of these DOQ's are included with this report, and included on disc. Results of

the wetland determination are summarized on the following pages and are described in more detail on the accompanying forms.

# **Site Summary**

Site 1: This wet meadow is located 792.5 m (2600 ft) west of Philo Rd. and 794 m (2605 ft) north of Old Church Rd. Hydrophytic vegetation, hydric soils and wetland hydrology are present. Therefore the site is a wetland. Hydrologic inputs are precipitation and sheetflow. Water leaves the site by evapotranspiration and sheetflow. The site functions as flood storage, sediment abatement, and wildlife habitat of low quality. The site occupies 0.013 ha (0.03 acre) and is not coded as wetland by the NWI. The NRCS codes the site as PC/NW (prior converted cropland/nonwetland). The wetland is isolated. The FQI is 2.5, which is indicative of very low natural quality.

### Watershed Data:

This site is within the watershed for the Embarrass River. The USGS hydrologic unit code is 05120112 Embarrass River, Ohio River.

## **Literature Cited**

- Environmental Laboratory. 1987. Corps of Engineers Wetland Delineation Manual. Technical Report Y-87-1, U. S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MI. 207 pp.
- Federal Interagency Committee for Wetland Delineation. 1989. Federal Manual for Identifying and Delineating Jurisdictional Wetlands. USCOE, USEPA, USFWS, USDASCS Cooperative Technical Publication. Washington, DC. 76 pp.
- Mount, H. R. 1982. Soil Survey of Champaign County, IL. USDA Soil Conservation Service. IL Agric. Exp. Sta. Soil Report 114. 178 pp.
- Reed, P. B., 1988. National list of plants that occur in wetlands: North Central. USFWS, National Wetlands Inventory. NERC-88/18.13. 117 pp.
- Taft, J., G. Wilhelm, D. Ladd and L. Masters. 1997. Floristic Quality Assessment for vegetation of Illinois: a method for assessing vegetation integrity. Eriginia 15: 3-95.

Appendix 1: Wetland Determinations and Species Lists

## ROUTINE ON-SITE WETLAND DETERMINATION

Site 1 (page 1 of 3)

**Field Investigators:** 

Plocher, Keene, Zercher

**Date:** 15, 21 August 2006

Job No.: NA State:

Illinois

Project Name: University of IL Wind Farm

County: Champaign Applicant: U of I

**Site Name:** Wet Meadow

**Legal Description:** 

T. 19 N., R. 8 E., Sect. 33, NW/4 SW/4

**Location:** 792.5 m (2600 ft) west of Philo Rd., 794 m (2605 ft) north of Old

Church Rd.

Do normal environmental conditions exist at this site?

Yes: X No:

Has the vegetation, soil, or hydrology been significantly disturbed? Yes:

No: X

# **VEGETATION**

**Dominant Plant Species** 

Stratum

**Indicator Status** 

1. Polygonum amphibium

herb

**OBL** 

2. Setaria glauca

herb

FAC

Percent of dominant species that are OBL, FACW, FAC+, or FAC: 100%

Hydrophytic vegetation: Yes: X

No:

Rationale: More than 50% of dominants are OBL, FACW, FAC+, or FAC.

### **SOILS**

Series and phase: Drummer silty clay loam

On Champaign County hydric soils list? Yes: X No:

Is the soil a histosol?

Yes:

No: X

Histic epipedon present?

Yes:

No: X

Redox concentrations: Redox depletions:

Yes: X Yes: X No: No:

Matrix color: N 4/ and N 5/

Other indicators: This soil is found in a low area.

**Hydric soils:** Yes: X

No:

Rationale: The Natural Resources Conservation Service classifies

Drummer silty clay loam as having aguic conditions. This

soil has iron masses and an iron depleted matrix. These

characteristics are evidence of a hydric soil.

### ROUTINE ON-SITE WETLAND DETERMINATION

Site 1 (page 2 of 3)

Field Investigators: Plocher, Keene, Zercher Date: 15, 21 August 2006

Job No.: NA Project Name: University of IL Wind Farm State: Illinois County: Champaign Applicant: U of I

**Site Name:** Wet Meadow

**Legal Description:** T. 19 N., R. 8 E., Sect. 33, NW/4 SW/4

**Location:** 792.5 m (2600 ft) west of Philo Rd., 794 m (2605 ft) north of Old

Church Rd.

**HYDROLOGY** 

Inundated: Yes: No: X Depth of standing water: NA

Depth to saturated soil: > 1 m (3.3 ft)

Overview of hydrological flow through the system: Primary hydrologic inputs to this site are precipitation and runoff from the surrounding uplands. Evapotranspiration and sheetflow are the major outputs.

Size of watershed:  $< 2.59 \text{ km}^2 (1 \text{ mi}^2)$ 

Other field evidence observed: The site is depressional. Bare areas were observed.

Wetland hydrology: Yes: X No:

**Rationale:** Field evidence cited above indicates that the site is flooded

or saturated for a sufficient period during the growing season to meet the criterion of wetland hydrology.

WETLAND DETERMINATION AND RATIONALE:

**Is the site a wetland?:** Yes: X No:

**Rationale:** Hydrophytic vegetation, hydric soils and wetland hydrology

are present. Therefore the site is a wetland. The site is not coded as wetland by the NWI. The NRCS codes the site

PC/NW (prior converted cropland//nonwetland).

**ISOLATED STATUS** 

Is the wetland isolated? Yes: X No:

Rationale: No visible surface water connection to Waters of the United States

Determined by: Allen Plocher (vegetation and hydrology)

Dennis Keene (soils and hydrology) Brad Zercher (mapping and hydrology)

Illinois Natural History Survey Center for Wildlife Ecology 1816 South Oak Street Champaign, Illinois 61820

(217) 333-6292

# ROUTINE ON-SITE WETLAND DETERMINATION

Site 1 (page 3 of 3)

**Field Investigators:** 

Plocher, Keene, Zercher

**Date:** 15, 21 August 2006

Job No.: NA

**Project Name:** University of IL Wind Farm

State:

Illinois

County: Champaign Applicant: U of I

Site Name: Wet Meadow

**Legal Description:** 

T. 19 N., R. 8 E., Sect. 33, NW/4 SW/4

Location: 792.5 m (2600 ft) west of Philo Rd., 794 m (2605 ft) north of Old

Church Rd.

SPECIES LIST

Scientific name	Common name	Stratum	Wetland indicator	C*
			status	
Ambrosia artemisiifolia	common ragweed	herb	FACU	0
Aster simplex	panicled aster	herb	FACW	3
Bromus inermis	awnless brome	herb	UPL	
Calystegia sepium	hedge bindweed	herb	FAC	1
Chenopodium album	lamb's quarters	herb	FAC-	
Conyza canadensis	horseweed	herb	FAC-	0
Digitaria sanguinalis	hairy crabgrass	herb	FACU	
Echinochloa crus galli	barnyard grass	herb	FACW	
Erigeron annuus	annual fleabane	herb	FAC-	1
Ipomea hederacea	ivy leaf morning glory	herb	FAC	
Lepidium virginicum	peppergrass	herb	FACU-	0
Medicago sativa	alfalfa	herb	UPL	
Panicum dichotomiflorum	fall panicum	herb	FACW-	0
Polygonum amphibium	water smartweed	herb	OBL	3
Polygonum aviculare	knotweed	herb	FAC-	
Rumex crispus	curly dock	herb	FAC+	
Setaria faberi	giant foxtail	herb	FACU+	
Setaria glauca	yellow foxtail	herb	FAC	
Sida spinosa	prickly sida	herb	FACU	
Solanum carolinense	horse nettle	herb	FACU-	0
Taraxacum officinale	dandelion	herb	FACU	
Xanthium strumarium	cocklebur	herb	FAC	0

<sup>\*</sup>Coefficient of Conservatism, as developed by Taft, Ladd, Wilhelm and Masters (1997)

 $FQI = 8/\sqrt{10} = 2.5$ , mean rated quality = 8/10 = 0.80

# University of Illinois Wind Farm Project Champaign County

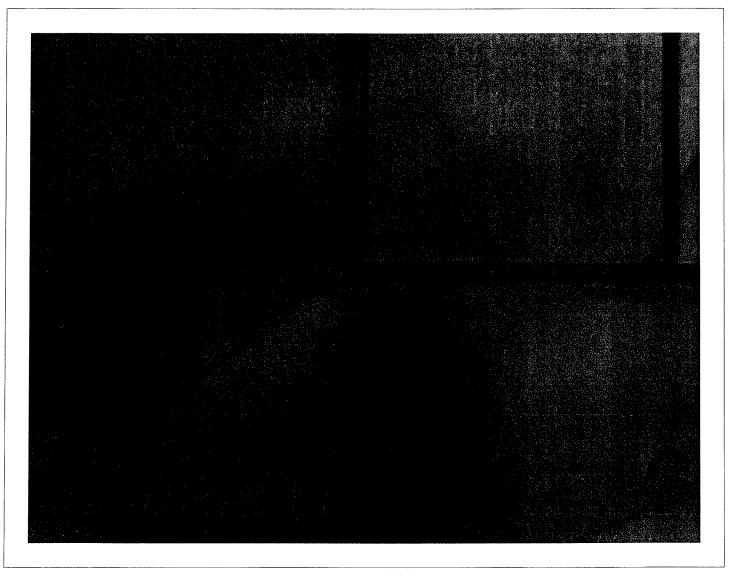


0 200 400 Feet 0 100 Meters scale 1:2400 1 inch=200 ft

Wetland site



# University of Illinois Wind Farm Project Champaign County



0 200 400 Feet 0 100 Meters scale 1:2400 1 inch=200 ft

Wetland site

