APPENDIX K BIOLOGICAL RESOURCES

This appendix includes the wetlands and biological resources report prepared for this Environmental Impact Statement, as well as a jurisdictional determination from the U.S. Army Corps of Engineers regarding the wetland and streams identified in the Detailed Study Area.



DEPARTMENT OF THE ARMY

HUNTINGTON DISTRICT, CORPS OF ENGINEERS 502 EIGHTH STREET HUNTINGTON, WEST VIRGINIA 25701-2070

January 7, 2008

Operations and Readiness Division Regulatory Branch UN Trib Big Walnut Creek-200300270-1

Elaine Roberts
Columbus Regional Airport Authority
4600 International Gateway
Columbus, Ohio 43219

Dear Ms. Roberts:

I refer to a wetland and stream delineation report prepared on your behalf by ASC Group Inc. received in this office on May 22, 2007 and additional information received on November 19, 2007. The report contains information concerning waters of the United States at the Port Columbus International Airport property in Columbus, Franklin County, Ohio. You have requested that the wetland and stream delineation report be re-verified by this office in order to address requirements associated with the pending Environmental Impact Statement (EIS) for the proposed Runway 10R/28L Relocation Project. The project boundaries associated with the project comprises 750 acres of the 2160 acre site.

Based on our review of the information contained in the report and on past site investigations, it has been determined the wetlands and streams have been correctly delineated. A total of 1.81 acres of jurisdictional wetlands and 8,229' of jurisdictional streams are currently present within the EIS project boundary at the site. It has also been determined that 8.21 acres of isolated wetlands and three isolated ponds totaling 2.98 acres exist within the EIS project boundary. The wetlands and ponds are not hydrologically connected to a surface tributary system or navigable water of the United States. The wetlands and ponds are located in depressional areas with no apparent hydrologic connections, either channelized or un-channelized, to a surface tributary system. Before any work is initiated within waters that are not regulated by this office, you should contact the Ohio Environmental Protection Agency, Division of Surface Water at 614-644-2001 to determine state permit requirements.

The Corps of Engineers' authority to regulate jurisdictional waters of the United States is based on the definitions and limits of jurisdiction contained in 33 CFR 328. Navigable waters, their tributaries and adjacent wetlands are waters of the United States subject to the provisions of Section 404 of the Clean Water Act. The jurisdictional wetland limits on-site were determined based on the presence of wetland hydrologic condition, hydric soils, hydrophytic plant communities, and connection to surface water tributary system (Big Walnut Creek) as described in your report. The jurisdictional stream limits on-site were determined to be jurisdictional up to the ordinary high water mark. The streams are a tributary to the Scioto River, a navigable water of the United States.

This jurisdictional verification is valid for a period of five years from the date of this letter unless new information warrants revision of the delineation prior to the expiration date. Should you disagree with our jurisdictional determination, you have the right to file an appeal. Enclosed for your use is a form entitled "Notification of Administrative Appeal Options and Process and Request for Appeal."

If you have any questions concerning the above, please contact Kimberly Courts-Brown at 304-399-5210.

Sincerely,

Singi Mullars
Rebecca A. Rutherford

Chief, North Regulatory Section

Enclosure

Copy Furnished:

Landon McKinney ASC Group 4620 Indianola Avenue Columbus, Ohio 43214

Rob Adams Landrum & Brown Inc. 11279 Cornell Park Drive Cincinnati, Ohio 45242

Katy Jones Federal Aviation Administration 11677 South Wayne Road Suite 107 Romulus, Michigan 48174

Randy Bournique Ohio Environmental Protection Agency Division of Surface Water Post Office Box 1049 Columbus, Ohio 43215

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL Applicant: Columbus Regional Airport Authority File Number: 200300270-1 Date: 1/7/08 See Section below Attached is: INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission) В PROFFERED PERMIT (Standard Permit or Letter of permission) PERMIT DENIAL \overline{C} APPROVED JURISDICTIONAL DETERMINATION D X E PRELIMINARY JURISDICTIONAL DETERMINATION

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://usace.army.mil/inet/functions/cw/cecwo/reg or Corps regulations at 33 CFR Part 331.

- A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.
- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.
- B: PROFFERED PERMIT: You may accept or appeal the permit
- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.
- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION:	You do not need to respond to the Corps regarding the preliminary JD.
The Preliminary JD is not appealable. If you wish, you may req	uest an approved JD (which may be appealed), by contacting the Corps
district for further instruction. Also you may provide new infor	mation for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTION	S TO AN INITIAL PROFFE	RED PERMIT
REASONS FOR APPEAL OR OBJECTIONS: (Describe your reason proffered permit in clear concise statements. You may attach addition objections are addressed in the administrative record.)		
	,	
ADDITIONAL DIFFORMATION OF THE STATE OF THE	-Cale administrative and also Co	
ADDITIONAL INFORMATION: The appeal is limited to a review record of the appeal conference or meeting, and any supplemental in clarify the administrative record. Neither the appellant nor the Corps you may provide additional information to clarify the location of information.	formation that the review officer h s may add new information or anal	as determined is needed to yses to the record. However,
POINT OF CONTACT FOR QUESTIONS OR INFORMATION:		
If you have questions regarding this decision and/or the appeal process you may contact:	If you only have questions regard also contact:	ding the appeal process you may
Ginger Mullins, Chief, Regulatory Branch, 304-399-5389		
Rebecca Rutherford, Ch, North Regulatory Section 304-399-5210 Mark Taylor, Chief, South Regulatory Section, 304 399-5710	Appeal Review Officer CELRD-CM-O	
	550 Main Street, PO BOX 1159 Cincinnati, Ohio 45201-1159	
Address: U.S. Army Corps of Engineers Regulatory Branch	513-684-7261	
502 8 th Street Huntington, WV 25701		
•		
RIGHT OF ENTRY: Your signature below grants the right of entry to conduct investigations of the project site during the course of the	to Corps of Engineers personnel, a	and any government consultants, led a 15 day notice of any site
investigation, and will have the opportunity to participate in all site i	nvestigations.	
	Date:	Telephone number:
Signature of appellant or agent.		

Wetland Delineation and Threatened and Endangered Species Survey Report for the Port Columbus International Airport Columbus, Franklin County, Ohio

By

Landon McKinney, Senior Ecologist Len Mikles, Senior Ecologist







ASC GROUP, INC.

Cultural and Environmental Consultants

Wetland Delineation and Threatened and Endangered Species Survey Report for the Port Columbus International Airport Columbus, Franklin County, Ohio

By

Landon McKinney, Senior Ecologist Len Mikles, Senior Ecologist

Submitted By:
Landon McKinney
Project Manager
ASC Group, Inc.
4620 Indianola Avenue
Columbus, Ohio 43214
614.268.2514

Submitted To:
Rob Adams
Landrum & Brown, Inc.
11279 Cornell Park Drive
Cincinnati, Ohio 45242
513.530.1201

May 15, 2007

EXECUTIVE SUMMARY

ASC Group, Inc., under contract with Landrum & Brown, Inc., conducted a survey for all U.S. Army Corps of Engineers (USACOE) jurisdictional and non-jurisdictional "Waters of the U.S." within a portion of the Port Columbus International Airport, Columbus, Ohio. This survey also included an analysis of all biotic communities as well as a survey for threatened and endangered species. The current project area included a portion of the airport property and areas of possible future expansion. These surveys were conducted on August 1, 2, 8, 9, 23, 28, and November 3, 2006, by either Landon McKinney, Senior Ecologist, Len Mikles, Senior Ecologist, or Richard Paul, Ecologist. The survey for both USACOE jurisdictional and non-jurisdictional waters was conducted in accordance with the *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory 1987). A wetland survey was conducted on a substantial portion of the project area and was addressed in a previous report prepared by ASC Group, Inc. (Liptak 2003; Liptak and Queen 2003). The current 2006 wetland delineation included verification of those previously reported wetlands and an examination of additional areas that were not included within the 2003 project area.

A combination of 66 USACOE jurisdictional and non-jurisdictional "Waters of the U.S." occur in the current project area, including 60 wetlands, three ponds, and three streams. All areas were previously reported in 2003 (Liptak and Queen 2003). The only new changes observed include the division of Wetland 16. This area is now divided into two parts, 16A and 16B, from the installation of a culvert. Also, in the 2003 Wetland Delineation report (Liptak and Queen 2003) Wetland 14 was divided into 3 segments. The middle portion of this wetland is now gone. The area has been culverted and paved over for the construction of a parking lot. No new wetlands or other jurisdictional waters were encountered in those areas not surveyed in 2003.

Sixty wetlands, comprising 10.57 acres, were delineated in the project area. Of these, 50 wetlands (8.62 acres) were determined to be Category 1 wetlands. Five wetlands (1.60 acres) were determined to be Category 2 wetlands, and five wetlands (0.35 acres) were determined to be Modified Category 2 wetlands.

Three ponds were identified in the project area. These three open water areas occupy 2.98 acres. A total of three jurisdictional waterways, totaling 8,292 linear feet, were also identified in the project area. The National Flood Insurance Program map of the project area showed that the project area includes areas of 100-year flooding near Big Walnut Creek. However, most of the project area is outside the 100-year floodplain.

The wetlands, ponds, and waterways would be considered jointly by regulatory agencies when reviewing wetland, stream, and water quality impacts. Pursuant to Section 404 of the Clean Water Act, the USACOE has jurisdiction over the placement of fill or dredged material in all jurisdictional "Waters of the United States." Jurisdictional areas include wetlands, rivers, streams, small tributary waterways, lakes, and ponds. A Section 404 permit must be obtained prior to placing any fill material within a jurisdictional area. Non-jurisdictional wetlands are typically isolated wetland areas. Under most circumstances these wetlands are regulated by the Ohio Environmental Protection Agency (OEPA) and require either a General or Individual Isolated Wetland Permit for dredge and fill activities.

The Ohio Department of Natural Resources (ODNR) has no records for any threatened or endangered species in the current project area or within a 1-mile radius (Appendix A: ODNR 2006). The ODNR found no records of existing or proposed state nature preserves, scenic rivers, unique ecological sites, geologic features, breeding or non-breeding animal concentrations, champion trees, or state parks, forests or wildlife areas within 1 mile of the project area (Appendix A: ODNR 2006).

The U.S. Fish and Wildlife Service (USFWS) documented the ranges of the federally endangered clubshell mussel (*Pleurobema clava*), northern riffleshell mussel (*Epioblasma torulosa rangiana*), Scioto madtom (*Noturus trautmani*) and Indiana bat (*Myotis sodalis*) and the rayed bean mussel (*Villosa fabalis*), a federal candidate species, as occurring in Franklin County, Ohio (USFWS 2006a, 2006b). USFWS (2006b) stated that the project as proposed would have no impact on the clubshell mussel, the northern riffleshell mussel, the rayed bean mussel and the Scioto madtom. Suitable roost trees and feeding corridor for the Indiana bat were present in the project area. USFWS (2006b) recommends that suitable roost trees be avoided if possible and that if cutting is unavoidable, further coordination with the USFWS is requested to determine if surveys are warranted.

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INTRODUCTION

ASC Group, Inc., under contract with Landrum & Brown, Inc., conducted a survey for all jurisdictional and non-jurisdictional "Waters of the U.S." within a portion of the Port Columbus International Airport, Columbus, Ohio. This survey also included an analysis of all biotic communities as well as a survey for threatened and endangered species. The current project area included the airport property and areas for possible future expansion, and encompassed approximately 750 acres (Figures 1 and 2). These surveys were conducted on August 1, 2, 8, 9, 23, 28, and November 3, 2006, by either Landon McKinney, Senior Ecologist, Len Mikles, Senior Ecologist, or Richard Paul, Ecologist.

METHODS

WETLANDS

The current survey was conducted in accordance with the *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory 1987). A previous wetland survey was conducted on a substantial portion of the project area in 2003 and a wetland delineation report was prepared by ASC Group, Inc. (Liptak 2003; Liptak and Queen 2003). The current survey included verification of those wetlands, which still occur in the current project area, and an examination of new areas that were not included within the 2003 boundaries.

The Soil Survey of Franklin County, Ohio (USDA, SCS 1980) was reviewed to determine which soils were present in the current project area. Cross-references to the Hydric Soils List for Franklin County (USDA, NRCS 1998) and the Supplemental Hydric Soils List for Franklin County (USDA, NRCS 2004) were utilized to determine if soils within the current project area qualified as hydric soils or non-hydric soils known to contain hydric inclusions, respectively.

The National Wetland Inventory (NWI) maps (USFWS 1995a, 1995b, 1995c, 1995d) were used to identify potential wetlands in the current project area. The *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory 1987) was used to determine whether wetlands were present within the project area. Wetlands were identified according to the routine determination method outlined in Section D of the manual (Environmental Laboratory 1987). Using this method, the three criteria—vegetation, soil, and hydrological features—were examined and evaluated to determine the presence of wetlands. Determination of a wetland includes:

- 1. Examination of the vegetation for the presence of obligate, facultative-wet, or facultative wetland species based on the *Floristic Quality Assessment Index (FQAI)* for Vascular Plants and Mosses for the State of Ohio (Andreas et al. 2004).
- 2. Examination of the soils for hydric conditions such as gleying, low matrix chromas, iron concretions, mottling, or sulfidic material.
- 3. Examination of hydrological conditions for the presence of inundation, soil saturation, drainage patterns, sediment deposits, or other hydrologic indicators characteristic to wetlands.

If a wetland determination indicated that an area was not a wetland, the location was noted and no further action was taken. If the wetland determination indicated that an area was a wetland, a delineation was conducted to identify the boundary between wetland and non-wetland areas. Wetland data forms summarizing the field observations can be found in Appendix C of this report. A Trimble Pro XRS global positioning system (GPS) was used to determine the location of the marked boundaries with an accuracy of 1 meter. A map of the project area, including all USACOE jurisdictional and non-jurisdictional "Waters of the U.S." was generated from the GPS data.

The Ohio Rapid Assessment Method for Wetlands (ORAM) version 5.0 was used to assess the functional quality of each wetland (OEPA 2001). The wetland was assigned a category according to the most recent ORAM score calibration (Mack 2000). The ORAM categorizes wetlands according to their functional quality into three categories. Category 1 wetlands "...support minimal wildlife habitat, and minimal hydrological and recreational functions" (Ohio Administrative Code Rule 3745-1-54(C)(1)). They are usually isolated hydrologically with limited function, low species diversity, and a dominance of invasive nonnative species.

Category 2 wetlands "...support moderate wildlife habitat, or hydrological or recreational functions" and are "dominated by native species but generally without the presence of, or habitat for, rare, threatened or endangered species; and wetlands which are degraded but have a reasonable potential for reestablishing lost wetland functions" (Ohio Administrative Code Rule 3745-1-54(C)(2)). Modified Category 2 wetlands have been altered to diminished a wetland function.

Category 3 wetlands have "...superior habitat, or superior hydrological or recreational functions" (Ohio Administrative Code Rule 3745-1-54(C)(3)). High functionality, high diversity, and a high proportion of native species generally characterize them.

ORAM data forms for each wetland can be found in Appendix D of this report. Wetlands with identical functional characteristics in proximity to one another were grouped together for the purposes of the ORAM score. This approach was generally used in wetlands that were part of a wetland/upland mosaic. In other instances, an ORAM score for one representative wetland was assigned to similar wetlands in the project area. This approach was generally used for ditches that were functionally similar, though not necessarily in proximity with one another.

Representative photographs were taken in the field to document the types of wetlands present in the project area. Photographs typically were taken at the wetland-upland boundary.

STREAMS

A jurisdictional waters determination was conducted for streams or tributaries that possessed a defined channel and streambed, as defined by the ordinary high water mark. These streams were evaluated to determine whether the waterway qualified as a Primary Headwater Habitat (PHWH) stream, as defined by the OEPA (2002). PHWH streams have a defined bed and bank, with either continuous or periodic flowing water, a watershed area of less than 1 mi², and maximum pool depth (excluding plunge pools) of 16 in or less. Streams that met this definition were evaluated using the Headwater Habitat Evaluation Index (HHEI) [OEPA 2002]. This evaluation is based on three physical measurements that have been found to correlate well with biological measures of stream quality. Streams are assigned to a Class (I, II, or III) based on the score that is derived from the HHEI.

Class I streams typically are ephemeral with little or no aquatic life present. Class II streams are typically found to have a moderately diverse community of warm-water adapted native fauna either present seasonally or on an annual basis. Class III streams have native fauna adapted to cool-cold perennial flowing water characterized by a community of vertebrate and /or a diverse community of benthic macroinvertebrates. HHEI data forms for the streams identified in the project area are located in Appendix E.

For non-headwater streams with a watershed area of greater than 1 mi², the Qualitative Habitat Evaluation Index (QHEI), as described by the Ohio EPA (OEPA 1989), was used to evaluate habitat quality. The QHEI is based on a quality rating of the stream substrate, in-stream

cover, channel morphology, riparian zone, stream bank erosion, pool/glide and riffle/run quality. QHEI scores can range from 0 to 100, and are grouped into five narrative ranges: very poor (0–30), poor (31–45), fair (46–59), good (60–74), and excellent (≥75). Illustrations prepared by the field ecologist to depict the natural state of the stream are provided along with the QHEI information (Appendix E). Photographs of representative segments of jurisdictional waterways are presented in Appendix B.

BIOTIC COMMUNITIES

All biotic communities were surveyed within the current project area. All plant species encountered were identified, recorded and dominant species were noted. Plants were identified according to Gleason and Cronquist (1991). The biotic communities were identified and described based on the type of community and the dominant plant species in each. Terrestrial vertebrates were recorded during the survey based on actual observance, calls, tracks, scat, nests, burrows, and road kill.

THREATENED AND ENDANGERED SPECIES METHODS

The ODNR (Appendix A) and the USFWS (2006a, 2006b) were consulted on the presence of any federally or state-listed species known to occur within the current project area or within a 1-mile radius. The Natural Heritage Database search included a 5-mile radius for the Indiana bat. The current project area was surveyed on foot for the presence of suitable Indiana bat summer roost trees and feeding corridors. Additionally, the project area was surveyed for the presence of any state-listed species known to occur in Franklin County.

Representative photographs (1–23) documenting various ecological resources, including streams and wetlands, are contained in Appendix B.

RESULTS

LITERATURE REVIEW

The Soil Survey of Franklin County (USDA, SCS 1980) showed nine soil map units within the project area (Figure 3; Table 1). Of these soil types, Pewamo-Urban land complex (Pn) is listed as a hydric soil (USDA, NRCS 1998). Hydric soils indicate the potential for the presence of wetlands. The Pewamo-Urban land complex (Pn) occurred in the western third of the project area. In addition, all the soils in the project area (except the Genesee silt loam, occasionally flooded and Eldean silt loam, 2–6 percent slopes) are known to contain hydric

inclusions according to the supplemental list of non-hydric soil map units with hydric inclusions for Franklin County, Ohio (USDA, NRCS 2004).

Table 1. Soil and Land-Use Types Present Within the Project Area (USDA, NRCS 1980).

Soil/Land Use	Abbreviation	Soil Type	Known to Contain Hydric Inclusions
Bennington-Urban land complex, 0-2 percent slopes	BfA	Nonhydric	Yes
Bennington-Urban land complex, 2-6 percent slopes	BfB	Nonhydric	Yes
Cardington silt loam, 2-6 percent slopes	CaC2	Nonhydric	Yes
Cardington-Urban land complex, -12 percent slopes	СьС	Nonhydric	Yes
Eldean silt loam, 2-6 percent slopes, eroded	ElC2	Nonhydric	No
Eldean-Urban land complex, 2-6 percent slopes	EmB	Nonhydric	Yes
Genesee silt loam, occasionally flooded	Gn	Nonhydric	No
Pewamo-Urban land complex	Pn	Hydric	N/A
Urban land-Bennington complex, 2-6 percent slopes	Uu	Nonhydric	Yes

The NWI maps (USFWS 1995a, 1995b, 1995c, 1995d) showed 19 wetlands within the project area (Figure 4). According to Cowardin et al. (1979), 12 of these wetlands were classified as emergent marshes, four as excavated wetlands with unconsolidated bottom sediments (usually ponds), two as forested wetlands, and one as a scrub-shrub wetland.

The ODNR found no records of threatened or endangered species within a 1-mile radius of the current project area (Appendix A: ODNR 2006). Additionally, they found no existing or proposed state nature preserves, scenic rivers, unique ecological sites, geologic features, breeding or nonbreeding animal concentrations, champion trees, or state parks, forests, or wildlife areas within 1 mile of the current project area (Appendix A: ODNR 2006).

The ranges of the federally endangered Indiana bat (Myotis sodalis), clubshell mussel (Pleurobema clava), northern riffleshell mussel (Epioblasma torulosa rangiana), and Scioto madtom (Noturus trautmani); and the federal candidate species rayed bean mussel (Villosa fabalis), include Franklin County (USFWS 2006a, 2006b). However, the ODNR found no records of any of these four federally listed species within a 1-mile radius of the current project area (Appendix A: ODNR 2006). The nearest Indiana bat record is approximately 44 miles southeast in Falls Gore Township, Hocking County (Appendix A: ODNR 2006).

The project area is located in the Big Walnut Creek watershed (HUC: 05060001-140) [USDA, NRCS 1999]. Big Walnut Creek is part of the larger Scioto River drainage basin and has the Aquatic Life Use Designation of Warmwater Habitat (WWH) according to the Ohio Administrative Code section 3745-1-09. The National Flood Insurance Program map of the project area showed that the project area includes areas of 100-year flooding near Big Walnut Creek (Figure 5; FEMA 1995). However, most of the project area is outside the 100-year floodplain.

WETLANDS

All previously delineated USACOE jurisdictional and non-jurisdictional waters were verified and any changes were noted. The only new changes that were observed include the division of Wetland 16. This area was reported as one wetland in 2003 (Liptak and Queen 2003). The area is now divided into two parts, 16A and 16B, from the installation of a culvert. Also, in the 2003 Wetland Delineation report (Liptak and Queen 2003) Wetland 14 was divided into 3 segments. The middle portion of this wetland is now gone. The area has been culverted and paved over for the construction of a parking lot. No new wetlands or other jurisdictional waters were encountered within or outside of the 2003 project area boundaries. Some wetlands or other jurisdictional waters delineated in 2003 are now located outside of the current project boundaries. The primary wetland types were emergent and forested wetlands. Emergent wetlands typically occurred along stream and ditch margins or in isolated depressions. Forested wetlands typically occurred as isolated depressions within upland forest areas.

A total of 60 wetlands, encompassing 10.57 acres, were delineated in the project area. Each wetland area is summarized in Table 2. A total of 50 wetlands (8.62 acres) were determined to be Category 1 wetlands. Five wetlands (1.60 acres) were determined to be Category 2 wetlands, and five wetlands (0.35 acres) were determined to be Modified Category 2 wetlands. The delineated boundaries of these areas are presented on Figure 6, Sheets 1–5. Photographs of representative wetland areas are provided in Appendix B. Wetland determination forms for wetland and upland areas are contained in Appendix C and ORAM forms are included in Appendix D.

Wetland 1

Wetland 1 (Figure 5; Figure 6, Sheet 4; Table 2; Appendix B: Photograph 1) is a forested area located in an upland forest area west of Stelzer Road. It appeared to be hydrologically isolated, and is classified as a palustrine, forested, broad-leaved deciduous wetland with a seasonal hydrologic regime (PFO1C) [Cowardin et al. 1979].

Table 2. Wetlands Summary Table for the Port Columbus International Airport Project Area.

Wetland/	Doguestica	acitoco I	Classification	Major Plant Species	Species	Hydrologic	ORAM v.	ORAM	Area Within
Area No.	ременрион	Location	(Cowardin et al. 1979)	Scientific Name	Common Name	Status	5.0 Score	Category	rroject Area (acres)
ç-sad	Forested wetland	Second-growth forest south of 17 th Ave, west of Stelzer Road	PF01C	Acer saccharinum Ulmus americana Populus deltoides Toxicodendron radicans	Silver maple American elm Cottonwood Poison ivy	Isolated	45	2	0.11
2	Forested wetland	Second-growth forest south of 17th Ave, west of Stelzer Road	PFO1C	Acer saccharinum Fraxinus pennsylvanica	Silver maple Green ash	Isolated	48	2	0.84
3	Forested wetland	Second-growth forest south of 17th Ave, west of Stelzer Road	PF01C	Acer saccharinum Quercus palustris Acer negundo Glyceria striata	Silver maple Pin oak Box elder Fowl mannagrass	Isolated	39	Modified 2	90.0
4	Forested wetland	Second-growth forest south of 17th Ave, west of Stelzer Road	PFOIC	Acer saccharinun Fraxinus pennsylvanica Viburnum dentatum	Silver maple Green ash Arrowwood	Isolated	38.5	Modified 2	0.07
5	Forested wetland	Second-growth forest south of 17th Ave, west of Stelzer Road	PFOIC	Acer saccharinun Fraxinus pennsylvanica Viburnun dentatum	Silver maple Green ash Arrowwood	Isolated	38.5	Modified 2	0.05
9	Forested wetland	Second-growth forest south of 17th Ave, west of Stelzer Road	PF01C	Acer saccharinum Viburnum dentatum Scipus cyperinus Glyceria striata	Silver maple Arrowwood Woolgrass Fowl mannagrass	Isolated	41	Modified 2	0.03
7	Forested wetland	Second-growth forest south of 17th Ave, west of Stelzer Road	PF01C	Acer saccharinum Viburnum dentatum Scirpus cyperinus Glyceria striata	Silver maple Arrowwood Woolgrass Fowl mannagrass	Isolated	42	Modified 2	0.14
8	Forested wetland	Second-growth forest south of 17th Ave, west of Stelzer Road	PFOIC	Quercus palustris Ulmus americana	Pin oak American elm	Isolated	49	7	0.39
6	Forested wetland	Second-growth forest south of 17th Ave, west of Stelzer Road	PFOIC	Quercus palustris Ulmus americana	Pin oak American elm	Isolated	47	2	0.05
10	Forested wetland	Second-growth forest south of 17th Ave, west of Stelzer Road	PFOIC	Acer saccharinum Quercus palustris Rhamnus frangula Viburnum dentatum	Silver maple Pin oak European buckthorn Arrowwood	Isolated	48	2	0.21
11A-11Z	Emergent wetlands in old field	South of 17th Avenue, west of Stelzer Road	PEM1E	Fraxinus pennsylvanica Juncus effusus Lysimachia nummularia	Green ash (seedlings) Soft rush Moneywort	Isolated	27.5		6.19

Table 2. Wetlands Summary Table for the Port Columbus International Airport Project Area.

Wetland/			Classification	Major Plant Species	t Species	Hydrologic	ORAM v.	ORAM	Area Within
Area No.	Describation	Location	(Cowardin et al. 1979)	Scientific Name	Common Name	Status	5.0 Score	Category	(acres)
12A-12D	Emergent wetlands	Mowed field north of 17th Avenue, west of Stelzer Road	PEM1E	Juncus effusus Scirpus cyperinus	Soft rush Woolgrass	Isolated	15.5	,	0.079
13	Ditch	Sparsely vegetated ditch north of 17 th Avenue, west of Stelzer Road	PEMC	Juncus effusus Scirpus cyperinus	Soft rush Woolgrass	Isolated	18.5	1	0.21
14A	Ditch	North of International Gateway, east of Stelzer Road	PEMC	Typha angustifolia Echinocloa crus-galli Scirpus cyperinus	Narrow-leaved cattail Barnyard grass Woolgrass	Connected	19.5		0.28
14B	Ditch	South of International Gateway, south of Runway 10R-28L	PEMC	Typha angustifolia Echinocloa crus-galli Scirpus cyperinus	Narrow-leaved cattail Barnyard grass Woolgrass	Connected	19.5	-	0.14
15A-15E	Ditches south of runway, draining into Big Walnut Creek	South of Runway 10L-28R	PEMC	Typha angustifolia	Narrow-leaved cattail	Connected	18.5		1.05
16A-16B	Ditch	South of International Gateway	PEMC	Typha angustifolia	Cattail	Connected	17.5	1	0.059
17A-17I	Ditch	North of Runway 10R-28L	PEMC	Typha angustifolia Bidens cernua	Narrow-leaved cattail Nodding beggar tick	Connected	20	-	09:0
18	Ditch	South of 5 th Avenue	PEMC	Typha angustifolia	Narrow-leaved cattail	Connected	10		0.01
				Total					10.57

It is dominated by hydrophytic vegetation, including American elm (*Ulmus americana*), cottonwood (*Populus deltoides*), poison ivy (*Toxicodendron radicans*), and silver maple (*Acer saccharinum*). The soil showed signs of reducing conditions. The wetland's location in the landscape provided evidence of wetland hydrology. Other signs of wetland hydrology included drainage patterns.

Wetland 1 was determined to be 0.11 acres. It scored 45 on the ORAM, classifying it as a Category 2 wetland (Mack 2000).

Wetland 2

Wetland 2 (Figure 5; Figure 6, Sheet 4; Table 2; Appendix B: Photograph 2) is a forested wetland located west of Stelzer Road. It appeared to be hydrologically isolated, and is classified as a palustrine, forested, broad-leaved deciduous wetland with a seasonal hydrologic regime (PFO1C) [Cowardin et al. 1979]. It is dominated by hydrophytic vegetation, including silver maple (*Acer saccharinum*) and green ash (*Fraxinus pennsylvanica*). The soil showed signs of reducing conditions. The area's location in a small depression provided evidence of wetland hydrology. Other signs of wetland hydrology included drainage patterns.

Wetland 2 comprised 0.84 acres. It scored 48 on the ORAM, classifying it as a Category 2 wetland (Mack 2000).

Wetland 3

Wetland 3 (Figure 5; and Figure 6, Sheet 4; Table 2; Appendix B: Photograph 3) is a forested wetland located west of Stelzer Road. It appeared to be hydrologically isolated, and is classified as a palustrine, forested, broad-leaved deciduous wetland with a seasonal hydrologic regime (PFO1C) [Cowardin et al. 1979]. It is dominated by hydrophytic vegetation including silver maple (Acer saccharinum), pin oak (Quercus palustris), box elder (Acer negundo), and fowl mannagrass (Glyceria striata). The soil showed signs of reducing conditions. The wetland's location in a depression provided evidence of wetland hydrology. Other signs of wetland hydrology included a combination of secondary indicators.

Wetland 3 encompassed 0.06 acres. It scored 39 on the ORAM, classifying it as a Modified Category 2 wetland (Mack 2000).

Wetland 4

Wetland 4 (Figure 5; Figure 6, Sheet 4; Table 2; Appendix B: Photograph 4) is a forested wetland located west of Stelzer Road. Although adjacent to Wetland 5, it appeared to be hydrologically isolated from any "Waters of the U.S." such as streams. Wetland 4 is classified

as a palustrine, forested, broad-leaved deciduous wetland with a seasonal hydrologic regime (PFO1C) [Cowardin et al. 1979]. It is dominated by hydrophytic vegetation including silver maple (Acer saccharinum), arrowwood (Viburnum dentatum), and green ash (Fraxinus pennsylvanica). The soil showed signs of reducing conditions. The wetland's location in a slight depression provided evidence of wetland hydrology. Drainage patterns provided further evidence of wetland hydrology.

Wetland 4 comprised 0.07 acres. Wetlands 4 scored 38.5 on the ORAM, classifying it as Modified Category 2 wetland (Mack 2000).

Wetland 5

Wetland 5 (Figure 5; Figure 6, Sheet 4; Table 2; Appendix B: Photograph 5) is a forested wetland located west of Stelzer Road. Although adjacent to Wetland 4, it appeared to be hydrologically isolated from any "Waters of the U.S." such as streams. Wetland 5 is classified as a palustrine, forested, broad-leaved deciduous wetland with a seasonal hydrologic regime (PFO1C) [Cowardin et al. 1979]. It was dominated by hydrophytic vegetation including silver maple (Acer saccharinum), arrowwood (Viburnum dentatum), and green ash (Fraxinus pennsylvanica). The soil showed signs of reducing conditions. The wetland's location in a slight depression provided evidence of wetland hydrology. Drainage patterns provided further evidence of wetland hydrology.

Wetland 5 was determined to be 0.05 acres. Wetland 5 scored 38.5 on the ORAM, classifying it as a Modified Category 2 wetland (Mack 2000).

Wetland 6

Wetland 6 (Figure 5; Figure 6, Sheet 4; Table 2; Appendix B: Photograph 6) is a forested wetland located west of Stelzer Road. Although adjacent to Wetland 7, it appeared to be hydrologically isolated from "Waters of the U.S." such as streams. Wetland 6 is classified as a palustrine, forested, broad-leaved deciduous wetland with a seasonal hydrologic regime (PFO1C) [Cowardin et al. 1979]. It is dominated by hydrophytic vegetation including silver maple (Acer saccharinum), woolgrass (Scirpus cyperinus), fowl mannagrass (Glyceria striata), and arrowwood (Viburnum dentatum). The soil showed signs of reducing conditions. The wetland's location in a slight depression provided evidence of wetland hydrology. The presence of drainage patterns provided further evidence of wetland hydrology.

Wetland 6 encompassed 0.03 acres. It scored 41 on the ORAM, classifying it as a Modified Category 2 wetland (Mack 2000).

Wetland 7

Wetland 7 (Figure 5; Figure 6, Sheet 4; Table 2; Appendix B: Photograph 7) is a forested wetland located west of Stelzer Road. Although adjacent to Wetland 6, it appeared to be hydrologically isolated from "Waters of the U.S." such as streams. Wetland 7 is classified as a palustrine, forested, broad-leaved deciduous wetland with a seasonal hydrologic regime (PFO1C) [Cowardin et al. 1979]. It is dominated by hydrophytic vegetation including silver maple (*Acer saccharinum*), woolgrass (*Scirpus cyperinus*), fowl mannagrass (*Glyceria striata*), and arrow wood (*Viburnum dentatum*). The soil showed signs of reducing conditions. The wetland's location in a slight depression provided evidence of wetland hydrology. The presence of drainage patterns provided further evidence of wetland hydrology.

Wetland 7 was determined to be 0.14 acres. It scored 42 on the ORAM, classifying it as a modified Category 2 wetland (Mack 2000).

Wetland 8

Wetland 8 (Figure 5; Figure 6, Sheet 4; Table 2; Appendix B: Photograph 8) is a forested wetland located west of Stelzer Road. Although adjacent to Wetland 9, it appeared to be hydrologically isolated from "Waters of the U.S." such as streams. Wetland 8 is classified as a palustrine, forested, broad-leaved deciduous wetland with a seasonal hydrologic regime (PFO1C) [Cowardin et al. 1979]. Dominated by pin oak (*Quercus palustris*) and American elm (*Ulmus americana*). The soil showed signs of reducing conditions. The wetland's location in a depressional area provided evidence of wetland hydrology. Other signs of wetland hydrology included a combination of secondary indicators.

Wetland 8 was determined to be 0.39 acres. It scored 49 on the ORAM, classifying it as a Category 2 wetland (Mack 2000).

Wetland 9

Wetland 9 (Figure 5; Figure 6, Sheet 4; Table 2; Appendix B: Photograph 9) is a forested wetland located west of Stelzer Road. It appeared to be hydrologically isolated, and is classified as a palustrine, forested, broad-leaved deciduous wetland with a seasonal hydrologic regime (PFO1C) [Cowardin et al. 1979]. The dominant plant species were pin oak (*Quercus palustris*) and American elm (*Ulmus americana*). The soil showed signs of reducing conditions. The wetland's location in a depressional area provided evidence of wetland hydrology. Other signs of wetland hydrology included a combination of secondary indicators.

Wetland 9 was determined to be 0.05 acres. It scored 47 on the ORAM, classifying it as a Category 2 wetland (Mack 2000).

Wetland 10

Wetland 10 (Figure 5; Figure 6, Sheet 4; Table 2; Appendix B: Photograph 10) is a forested wetland located west of Stelzer Road. It appeared to be hydrologically isolated, and is classified as a palustrine, forested, broad-leaved deciduous wetland with a seasonal hydrologic regime (PFO1C) [Cowardin et al. 1979]. It is dominated by hydrophytic vegetation including pin oak (*Quercus palustris*), silver maple (*Acer saccharinum*), European buckthorn (*Rhamnus frangula*), and arrowwood (*Viburnum dentatum*). The soil showed signs of reducing conditions. The wetland's location in a depressional area provided evidence of wetland hydrology. Other signs of wetland hydrology included a combination of secondary indicators.

Wetland 10 was determined to be 0.21 acres. The ORAM score for Wetland 10 was 48, classifying it as a Category 2 wetland (Mack 2000).

Wetlands 11A-11Z

A mosaic of 26 isolated herbaceous wetlands (Figure 5; Figure 6, Sheet 4; Tables 2 and 3; Appendix B: Photographs 11–15) occurs in a partially mowed old-field area north of Wetlands 1–10. These wetlands are located in shallow depressions in the old-field area, and are generally dominated by soft rush (*Juncus effusus*), moneywort (*Lysimachia nummularia*), and green ash (*Fraxinus pennsylvanica*) seedlings. They appeared to be hydrologically isolated from "Waters of the U.S." such as streams. Wetlands 11A through 11Z are classified as palustrine persistent emergent wetlands with a seasonally hydrologic regime (PEM1E) [Cowardin et al. 1979]. The soil showed signs of reducing conditions throughout the old-field area. Signs of wetland hydrology included a combination of secondary indicators. These wetlands were grouped for purposes of the ORAM calculations. As a whole, Wetlands 11A through 11Z occupied 6.19 acres. The acreage for each individual Wetland is summarized in Table 3 below. All together, these wetlands scored 27.5 on the ORAM, classifying them as Category 1 wetlands (Mack 2000).

Table 3. Summary of Wetlands 11A through 11Z.

Wetland	Acreage		Wetland	Acreage		Wetland	Acreage		Wetland	Acreage
11A	0.019		11 H	3.06		110	0.003		11 V	0.008
11B	0.08		11 I	0.33		11P	0.01		11 W	0.02
11C	0.23		11J	0.10		11Q	0.003	7	11X	0.05
11D 0.479 11K 0.05 11R 0.009 11Y										0.007
11E 0.01 11L 0.002 11S 0.01 11Z									0.02	
11F 1.19 11M 0.46 11T 0.003										
11G	0.02		11N	0.01		11 U	0.004			
Sub Total 2.028 Sub Total 4.012 Sub Total 0.042 Sub Total										0.105
			Gran	d Total (Acı	eage	e)		100000000000000000000000000000000000000		6.19

Wetlands 12A-12D

Wetlands 12A–12D (Figure 5; Figure 6, Sheet 4; Table 2; Appendix B: Photographs 16 and 17) are located in a cleared old-field area west of Stelzer Road. They appeared to be hydrologically isolated from "Waters of the U.S." such as streams, and are classified as palustrine persistent emergent wetlands with a seasonally saturated hydrologic regime (PEM1E) [Cowardin et al. 1979]. They were dominated by woolgrass (*Scirpus cyperinus*) and soft rush (*Juncus effusus*). The soil showed signs of reducing conditions. Their location in a depression provided evidence of wetland hydrology. Other signs of wetland hydrology included a combination of secondary indicators. As a whole, wetlands 12A through 12D occupied 0.079 acres. Wetlands 12A–12D were grouped for purposes of the ORAM calculations, as they were functionally identical. As a group, they scored 15.5 on the ORAM, classifying them as Category 1 wetlands (Mack 2000). Wetland 12A was determined to be 0.006 acres, and Wetland 12B comprised 0.003 acres, Wetland 12C included 0.06 acres, and Wetland 12D was determined to be 0.01 acres in size.

Wetland 13

Wetland 13 is a sparsely vegetated ditch west of Stelzer Road (Figure 5; Figure 6, Sheet 4; Table 2). It appeared to drain into a storm sewer whose discharge point was unknown. It contained areas of hydrophytic vegetation including woolgrass (*Scirpus cyperinus*) and soft rush (*Juncus effusus*). Wetland 13 is classified as palustrine emergent wetland with a seasonally flooded hydrologic regime (PEMC) [Cowardin et al. 1979].

Wetland 13 was determined to be 0.21 acres. The ORAM score for Wetland 13 was 18.5, classifying it as a Category 1 wetland (Mack 2000).

Wetlands 14A and 14B

Wetlands 14A and 14B (Figure 5; Figure 6, Sheets 1 and 4; Table 2; Appendix B: Photograph 18) are a series of ditches beginning at Stelzer Road north of International Gateway and continuing southeast across International Gateway and Runway 10R-28L. In 2003, this wetland had three disjunct segments. However, the original middle segment has been piped and paved over for a parking lot. Wetlands 14A and 14B are classified as palustrine emergent wetlands with a seasonally flooded hydrologic regime (PEMC) [Cowardin et al. 1979]. The dominant vegetation in these ditches was narrow-leaved cattail (*Typha angustifolia*), woolgrass (*Scirpus cyperinus*), and barnyard grass (*Echinocloa crus-galli*). The soil showed signs of reducing conditions. The wetland's location in the bottom of a ditch provided evidence of wetland hydrology.

Wetland 14A was determined to be 0.28 acres. Wetland 14B was determined to be 0.14 acres. Collectively, both Wetlands scored 19.5 on the ORAM, classifying them as Category 1 wetlands (Mack 2000).

Wetlands 15A-15E

Wetlands 15A–15E (Figure 5; Figure 6, Sheets 1 and 2; Tables 2 and 4; Appendix B: Photograph 19) are a series of ditches located north of International Gateway and south of Runway 10L-28R. They drain into Big Walnut Creek, are classified as palustrine, emergent wetlands with a seasonal hydrologic regime (PEMC) [Cowardin et al. 1979]. The ditches were dominated by hydrophytic vegetation including narrow-leaved cattail (*Typha angustifolia*). The soil showed signs of reducing conditions. The wetlands' location in ditches provided evidence of wetland hydrology.

As a whole Wetlands 15A-15E occupied 1.05 acres. The acreage for each individual Wetland is summarized in Table 4 below. Collectively, the ORAM scores for Wetland 15A-15E were 18.5, classifying them as Category 1 wetlands (Mack 2000).

Table 4. Summary of Wetlands 15A through 15E.

Wetland	Acreage
15A	0.17
15B	0.38
15C	0.19
15D	0.14
15E	0.17
Total	1.05

Wetland 16A-16B

Wetland 16A and 16B (Figure 5; Figure 6, Sheet 1; Table 2; Appendix B: Photograph 20) are emergent wetlands located in a ditch along the south side of International Gateway. These wetlands were reported as one area in 2003. A culvert has since been installed, breaking the wetland area up into two separate parts. These areas are considered palustrine emergent wetlands with a seasonal hydrologic regime (PEMC) [Cowardin et al. 1979] dominated by narrow-leaved cattail (*Typha angustifolia*), a hydrophytic plant. The soils were disturbed and showed signs of reducing conditions. The wetland's location in a ditch provided evidence of wetland hydrology.

Wetland 16A and 16B were determined to be 0.009 and 0.05 acres, respectively. Collectively, Wetland 16A and 16B scored 17.5 on the ORAM, classifying them as Category 1 wetlands (Mack 2000).

Wetland 17A-17I

Wetlands 17A through 17I (Figure 5; Figure 6, Sheets 1 and 2; Tables 2 and 5; Appendix B: Photograph 21) are a series of ditches north of Runway 10R-28L. They appear to be hydrologically connected to a "Water of the U.S." They are classified as palustrine, emergent wetlands with a seasonal hydrologic regime (PEMC) [Cowardin et al. 1979]. The ditches were dominated by hydrophytic vegetation, including narrow-leaved cattail (*Typha angustifolia*) and nodding beggar tick (*Bidens cernua*). The soil showed signs of reducing conditions. The wetlands' location in a drainage ditch provided evidence of wetland hydrology. Wetlands 17A–17I were scored together on the ORAM as they are functionally identical. They scored 20 on the ORAM, classifying them as Category 1 wetlands (Mack 2000). Wetlands 17A through 17I occupied a total area of 0.60 acres. The acreage for each individual Wetland is summarized in Table 5 below.

Table 5. Summary of Wetlands 17A through 17I.

Wetland	Acreage
17A	0.02
17B	0.17
17C	0.03
17D	0.09
17E	0.03
17F	0.08
17G	0.03
17H	0.02
17 I	0.13
Total	0.60

Wetland 18

Wetland 18 is a ditch located south of 5th Avenue (Figure 5; Figure 6, Sheet 5; Table 2). Wetland 18 is dominated by narrow-leaved cattail (*Typha angustifolia*) and is classified as a palustrine, emergent wetland with a seasonal hydrologic regime (PEMC) [Cowardin et al. 1979].

Wetland 18 was determined to be 0.01 acres. It received an ORAM score of 10, classifying it as a Category 1 wetland (Mack 2000).

STREAMS

Three jurisdictional waterways, totaling 8,292 linear feet, were identified in the project area. The delineated boundaries of these areas are presented on Figure 5 and Figure 6, Sheets 2, 3 and 5. All waterways are summarized in Table 6.

Stream 1

Stream 1 is the portion of Big Walnut Creek passing through the survey area (Figure 5; Figure 6, Sheet 3) It is classified as a riverine, lower perennial system with an unconsolidated bottom and permanent hydrologic regime (R2UBH) [Cowardin et al. 1979]. The QHEI score for Big Walnut Creek was determined to be 51.5, which is indicative of fair conditions (Appendix E). Big Walnut Creek had an average width of 75 ft within the project area, and approximately 7,287 linear feet of Big Walnut Creek extends through the project area. The current project area ends at the ordinary high water mark of Big Walnut Creek located east of Hamilton Road.

Stream 2

Stream 2 (Figure 5; Figure 6, Sheet 3; Appendix B: Photograph 22) is a stream draining under Bridgeway Avenue and into Big Walnut Creek. It is classified as a riverine, intermittent streambed with a cobble/gravel substrate (R4SB1) [Cowardin et al. 1979]. It did not have any wetland vegetation. Stream 2 had an average width of 11 ft and a length of approximately 413 ft. Stream 2 was classified as a Class II PHWH (Appendix E).

Stream 3

Stream 3 is an unvegetated ditch located south of Runway 10R-28L (Figure 5; Figure 6; Sheets 2 and 5). It originated and discharged into an underground pipe, so it was not possible to determine whether it had a hydrologic connection to a "Water of the U.S." It would likely be classified as a riverine, intermittent streambed with a mud substrate (R4SB3) [Cowardin et al. 1979]. Stream 3 had an average width of 8.5 ft and a length of approximately 592 ft located in the project area. Stream 3 was classified as a Class I PHWH (Appendix E).

Table 6. Waterway Summary for the Port Columbus International Airport Project Area.

Stream Name	Description	Location	Provisional Stream Classification	Assigned Aquatic Life Use Designation	QHEI Score	HHEI Score	Linear Footage of Jurisdictional Waterways Within the Project Area	
Stream #1 (Big Walnut Creek)	Creek	East End of project area	QHEI: Fair	WWH	51.5		7,287	
Stream #2	Tributary to Big Walnut	South Bridgeway Avenue	Class II PHWH	N/A		60	413	
Stream #3	Unvegetated Ditch	South of Runway 10R-28L	Class I PHWH	N/A		24	592	
			TOTAL				8,292	

OPEN WATER HABITATS

Ponds 1, 2, and 3

Ponds 1, 2, and 3 are water hazards on the public golf course east of Hamilton Road (Figure 5; Figure 6, Sheet 3). They are classified as palustrine, excavated, unconsolidated bottom systems with an intermittently exposed hydrologic regime (PUBGx) [Cowardin et al. 1979]. They appeared to be hydrologically isolated from Big Walnut Creek. While Pond 1 had a few small patches of cattails (*Typha* sp.) and willows (*Salix* sp.) around its edge, it was predominantly unvegetated. Ponds 2 and 3 were completely unvegetated, with gravel and riprap along their banks. The total acreage of the three ponds was 2.98 acres. Pond 1 had an area of 1.13 acres. Pond 2 had an area of 1.40 acres, and Pond 3 had an area of 0.45 acres.

OTHER BIOTIC COMMUNITIES

Forests

There are three main forested areas within the current project area. Two occurred west of Stelzer Road. These were dominated by silver maple (Acer saccharinum), sugar maple (Acer saccharum), common privet (Ligustrum vulgare), arrow-wood (Viburnum dentatum), and European buckthorn (Rhamnus frangula). The third borders the golf course and Big Walnut creek east of Hamilton Road. The portions of forest that occurred on the upper slopes was dominated by sugar maple (Acer saccharum) and northern red oak (Quercus rubra) while the lower slopes were dominated by sycamore (Platanus occidentalis) and green ash (Fraxinus pennsylvanica). The understory was dominated by privet (Ligustrum vulgare), bush honeysuckle (Lonicera maackii), and, in some places, pawpaw (Asimina triloba). The herbaceous layer was generally sparse. A complete listing of vascular flora found throughout the forested areas is presented in Table 7.

Old-Field

An old-field community occurs on the west side of Stelzer Road. Dominants varied to some extent, but redtop (Agrostis gigantea), Canada thistle (Cirsium arvense), tall fescue (Festuca elatior), birdsfoot trefoil (Lotus corniculatus), everlasting pea (Lathyrus latifolius), old-field panic grass (Panicum accuminatum var. fasciculatum), and common goldenrod (Solidago canadensis) appeared to be prevalent throughout the area. A complete listing of vascular flora found throughout the old-field area is presented in Table 7.

Wasteground

Much of the current project area is mowed and consists of maintained right-of-ways and fields in and around residential, industrial, and commercial properties. These areas are collectively referred to as wasteground.

Wasteground is dominated by a variety of weedy species including oxeye daisy (Chrysanthemum leucanthemum), chicory (Cichorium intybus), wild carrot (Daucus carota), northern crabgrass (Digitaria sanguinalis), quack grass (Elytrigia repens), tall fescue (Festuca elatior), English plantain (Plantago lanceolata), Kentucky bluegrass (Poa pratensis), yellow foxtail grass (Setaria glauca), birdsfoot trefoil (Lotus corniculatus), red clover (Trifolium pratensis), and white clover (Trifolium repens). A complete listing of vascular flora found throughout the wasteground areas is presented in Table 7.

Table 7. Vegetation Summary Table for the Port Columbus International Airport Project Area.

Scientific Name	Common Name	Wasteground	Wetlands	Old-Field	Forests
Abutilon theophrasti	Velvet leaf	X		X	
Acalypha rhomboidea	Rhombic copperleaf	X			
Acer negundo	Box elder		X	X	X
Acer saccharinum	Silver maple		X		X 🗸
Acer saccharum	Sugar maple				X 🗸
Acer rubrum	Red maple		X		
Achillea millefolium	Yarrow	X			
Aesculus glabra	Ohio buckeye	- 1			X
Ageratina altissima	White snakeroot				X
Agrimonia gryposepala	Common agrimony		X		
Agrostis gigantea	Redtop	X		Х	
Ailanthus altissima	Tree of Heaven	X		Х	
Alisima subcordatum	Southern water plantain		X		
Alliaria petiolata	Garlic mustard				Х
Allium canadense	Wild onion				X
Allium vineale	Field-garlic	Х			
Ambrosia artemisiifolia	Common ragweed	X			
Ambrosia trifida	Great ragweed	X			
Andropogon virginicus	Broom sedge	X		X	
Apocynum cannabinum	Indian hemp	X		X	
Arctium minus	Common burdock	· X			
Asarum canadensis	Wild ginger				X
Asclepias incarnata	Swamp milkweed		Х		
Asclepias syriaca	Common milkweed	Х		X	

Table 7. Vegetation Summary Table for the Port Columbus International Airport Project Area.

Scientific Name	Common Name	Wasteground	Wetlands	Old-Field	Forests
Asimina triloba	Pawpaw				X
Aster novae-angliae	New England aster			X	
Aster pilosus	Heath aster	X		X	
Berberis thunbergii	Japanese barberry				X
Bidens aristosa	Midwestern tickseed sunflower		X		
Bidens cernua	Nodding beggar tick		X		
Bidens frondosa	Devil's beggar-ticks		X		
Bromus japonicus	Japanese brome	X			
Calystegia sepium	Hedge bindweed			X	
Campsis radicans	Trumpet creeper			X	X
Carex annectens	Yellow fox sedge		X		
Carex crinita	Drooping sedge		X		
Carex frankii	Frank's sedge		X		. ,
Carex granularis	Meadow sedge			X	
Carex grayi	Gray's sedge		X		
Carex hirsutella	Hirsute sedge			X	
Carex intumescens	Bladder sedge		X		
Carex lupulina	Hop sedge		X		
Carex normalis	Larger straw sedge		X		
Carex rosea	Stellate sedge				X
Carex squarrosa	Squarrose sedge		X		
Carex tribuloides	Blunt sedge		X		ند
Carex vulpinoidea	Foxtail sedge		X		· · · · ·
Carya cordiformis	Bitternut hickory				X
Carya ovata	Shagbark hickory		111		X
Carya tomentosa	Mockernut hickory				X
Celtis occidentalis	Northern hackberry			·	X
Ceratophyllum demersum	Coontail		X		
Cercis canadensis	Redbud	X			
Chrysanthemum leucanthemum	Oxeye daisy	X			
Chenopodium album	Lambs-quarters	X			
Cichorium intybus	Chicory	X			
Cirsium arvense	Canada thistle	X		X	
• Cirsium discolor	Field thistle	X			
Cirsium vulgare	Bull thistle	X			
Conium maculatum	Poison hemlock	X			
Convolvulus arvensis	Field bindweed	X			
Conyza canadensis	Common horseweed	X			
Cornus amomum	Knob-styled dogwood		X	X	

Table 7. Vegetation Summary Table for the Port Columbus International Airport Project Area.

Scientific Name	Common Name	Wasteground	Wetlands	Old-Field	Forests
Coronilla varia	Crown vetch	X			
Crataegus mollis	Downy hawthorn				X
Cuscuta gronovii	Common dodder	X			-
Cynodon dactylon	Bermuda grass	X			
Cyperus esculentus	Yellow nut sedge	X			
Cyperus strigosus	False nutsedge		X		
Dactylis glomerata	Orchard grass	X			
Daucus carota	Wild carrot	X			
Desmodium canescens	Hoary tick-trefoil			Х	
Digitaria sanguinalis	Northern crabgrass	X			
Dipsacus laciniatus	Cut-leaved teasel	X			
Dryopteris intermedia	Fancy wood fern				X
Duchesnea indica	Indian strawberry	X			
Echinocloa crus-galli	Barnyard grass	X	X		
Elaeagnus angustifolia	Russian olive	X		X	
Elaeagnus umbellata	Autumn olive	Х		X	
Eleocharis obtusa	Blunt spike rush		X		
Eleusine indica	Yard-grass	X			
Elytrigia repens	Quack grass	X			
Elymus virginicus	Virginia wild rye		·		X
Epilobium coloratum	Purple-leaved willow herb		X		
Erigeron annuus	Annual fleabane	X			
Erigeron strigosus	Rough fleabane	X			
Erigeron philadelphicus	Philadelphia fleabane	X			
Eupatorium perfoliatum	Boneset		X		
Eupatorium serotinum	Late eupatorium			X	
Euphorbia maculatum	Prostrate spurge	X			·
Euthamia graminifolia	Common flat-topped goldenrod		Х		
Fagus grandifolia	American beech				X
Festuca elatior	Tall fescue	X		X	
Fragaria virginiana	Wild strawberry	X			······································
Fraxinus americana	White ash				X
Fraxinus pennsylvanica	Green ash		X		X
Galium aparine	Cleavers				Х
Gaura biennis	Biennial gaura	X		X	
Geum canadense	White avens				X
Gleditsia triacanthos	Honey locust		,		X
Glechoma hederacea	Ground ivy	X			
Glyceria striata	Fowl mannagrass		Х		

Table 7. Vegetation Summary Table for the Port Columbus International Airport Project Area.

Scientific Name	Common Name	Wasteground	Wetlands	Old-Field	Forests
Hamamelis virginiana	Witch hazel				X
Helianthus tuberosus	Jerusalem artichoke			X	
Hemerocallis fulva	Day lily	X			X
Hesperis matronalis	Dame's rocket	X			
Hibiscus moscheutos	Common rose mallow		X		
Hieracium caespitosum	King-devil	X			
Hordeum jubatum	Squirrel tail barley	X			
Hypericum perforatum	Common St. John's wort			X	
Impatiens capensis	Orange touch-me-not		X		<u></u>
Impatiens pallida	Yellow touch-me-not		X		
Ipomea purpurea	Common morning glory	X			
Juglans nigra	Black walnut				X
Juncus effuses	Soft rush		X		
Juncus tenuis	Path-rush		X		
Juniperus virginiana	Eastern red cedar	Х			
Lathyrus latifolius	Everlasting pea	X		X	
Latuca canadensis	Tall lettuce	X			
Lepedium campestre	Fieldcress	X			
Leersia virginica	White grass		X		
Ligustrum vulgare	Common privet				X/
Linaria vulgaris	Butter and eggs	X			
Liriodendron tulipifera	Tulip poplar				X
Lobelia cardinalis	Cardinal flower		Х		·····
Lobelia inflata	Indian tobacco				X
Lolium perenne	Ryegrass	X			
Lonicera japonica	Japanese honeysuckle	X			X
Lonicera maackii	Bush honeysuckle	Х			X
Lotus corniculatus	Birdsfoot trefoil	X		X	
Lycopus americanus	Water horehound		X		
Lysimachia ciliata	Fringed loosestrife				X
Lysimachia nummularia	Moneywort		X		
Malus coronaria	Wild crabapple			X	
Malus pumila	Common apple	X			
Marrubium vulgare	Common horehound	X			
Matricaria matricarioides	Pineapple weed	Х			
Melilotus alba	White sweet clover	Х			
Melilotus officinalis	Yellow sweet clover	х			
Mentha spicata	Spearmint	1	Х		
Mimulus ringens	Monkeyflower		X		
Morus alba	White mulberry	х		X	

Table 7. Vegetation Summary Table for the Port Columbus International Airport Project Area.

Scientific Name	Common Name	Wasteground	Wetlands	Old-Field	Forests
Oenothera biennis	Evening primrose	X			
Onoclea sensibilis	Sensitive fern		X		
Osmorhiza longistylis	Smooth sweet cicely				X
Oxalis stricta	Yellow wood sorrel	X			
Panicum accuminatum var. fasciculatum	Old-field panic grass		·	Х	
Panicum vulgatum	Switchgrass			X	
Parthenocissus quinquefolia	Virginia creeper				X
Pastinaca sativa	Wild parsnip	X			
Penstemon digitalis	Fox-glove beardtongue			X	
Penthorum sedoides	Ditch stonecrop	·	X	\.	
Phleum pratense	Timothy	X			
Phlox paniculata	Summer phlox				X
Phragmites australis	Common reed		X		
Phyla lanceolata	Frog fruit		X		
Phytolacca americana	Pokeweed	X			
Pinus strobes	Eastern white pine	X			
Plantago lanceolata	English plantain	Х			
Plantago rugelii	American plantain	X			
Platanus occidentalis	Sycamore				X
Poa annua	Speargrass	X		-	
Poa pratensis	Kentucky bluegrass	X			
Poa trivialis	Rough bluegrass	X			
Podophyllum peltatum	Mayapple				X
Polygala sanguinea	Field milkwort			Х	
Polygonum aviculare	Common knotweed	X			
Polygonum caespitosum	Knotweed	Х			
Polygonum convolvulus	Black bindweed	X			
Polygonum hydropiperoides	False water pepper		X		
Polygonum pensylvanicum	Pennsylvania smartweed		X		
Polygonum punctatum	Dotted smartweed		Х		
Polygonum virgianum	Jumpseed				Х
Populus alba	White poplar	X			
Populus deltoides	Cottonwood		X		X
Potentilla simplex	Common cinquefoil	X			
Prunella vulgaris	Self-heal	Х			
Prunus serotina	Black cherry	X			
Quercus alba	White oak	x			
Quercus bicolor	Swamp white oak		Х		
Quercus palustris	Pin oak		X		<u> </u>

Table 7. Vegetation Summary Table for the Port Columbus International Airport Project Area.

Scientific Name	Common Name	Wasteground	Wetlands	Old-Field	Forests
Quercus rubra	Northern red oak	X			X
Rhamnus frangula	European buckthorn		X		X
Rhus typhina	Staghorn sumac			X	
Robinia psuedoacacia	Black Locust	X			
Rosa carolina	Pasture rose			X	
Rosa multiflora	Multiflora rose	X			
Rubus allegheniensis	Common blackberry	X		Х	
Rubus flagellaris	Northern dewberry			X	
Rudbeckia hirta	Black-eyed Susan	X			
Rudbeckia laciniata	Cut-leaf coneflower				X
Rudbeckia triloba	Three-lobed coneflower			X	
Rumex crispus	Curly dock	X			
Rumex obtusifolius	Bitter dock			Х	
Sagittaria latifolia	Common arrowhead		X		
Sambucus canadensis	Elderberry			X	
Sassafras albidum	Sassafras			X	X
Salix babylonica	Weeping willow	X			
Salix nigra	Black willow		X		
Salvia lyrata	Lyre-leaved sage	X			
Scirpus atrovirens	Black bulrush		X		
Scirpus cyperinus	Woolgrass		X		
Scrophularia marilandica	Maryland figwort				X
Scutellaria lateriflora	Mad-dog skullcap		X		
Setaria faberi	Giant foxtail grass	X	<u> </u>		
Setaria glauca	Yellow foxtail grass	X			
Solanum carolinense	Horse nettle	X			
Solanum dulcamara	Bittersweet nightshade	Х			
Solidago caesia	Zigzag goldenrod				X
Solidago canadensis	Common goldenrod	х		X	
Sonchus asper	Prickly sow thistle	X			
Sonchus oleraceus	Common sow thistle	х			
Sorghum halepense	Johnson grass	X			
Spiranthes vernalis	Spring ladies tresses			Х	
Taraxacum officinale	Dandelion	X			
Thalaspi arvense	Field pennycress	X	†		
Tilia americana	Basswood				X
Toxicodendron radicans	· Poison ivy		X		Х
Trifolium pratensis	Red clover	X			
Trifolium campestre	Pinnate hop clover	X	<u> </u>		
Trifolium hybridum	Alsike's clover	X	<u> </u>	X	

Table 7. Vegetation Summary Table for the Port Columbus International Airport Project Area.

Scientific Name	Common Name	Wasteground	Wetlands	Old-Field	Forests
Trifolium repens	White clover	X			
Teuchrium canadense	Woodsage				X
Typha angustifolia	Narrow-leaved cattail		X		
Typha latifolia	Common cattail		X		
Ulmus americana	American elm		X		X
Verbascum thapsus	Common mullein				
Verbena hastata	Blue vervain		X		
Verbena urticifolia	White vervain			X	
Verbesina alternifolia	Wingstem				X
Vernonia gigantea	Tall ironweed	X		X	
Veronica arvensis	Corn speedwell	Х		,	
Veronica filiformis	Slender speedwell	X			
Viburnum dentatum	Arrowwood		X		X
Viola sororia	Common blue violet				X
Vitis aestivalis	Summer grape				X
Xanthium strumarium	Common cocklebur	X			

Wildlife

During the field survey, the presence of 30 bird species, six mammal species, and one amphibian species were observed directly, either alive, as road kill, or through evidence such as scat, tracks, or calls (Tables 8 and 9). All species encountered were considered typical and common for urban areas. These included such species as raccoon (*Procyon lotor*), groundhog (*Marmota monax*), house sparrow (*Passer domesticus*), starling (*Sturnus vulgaris*), northern cardinal (*Cardinalis cardinalis*), and the blue jay (*Cyanocitta cristata*).

Table 8. Bird Summary Table for the Port Columbus International Airport Project Area.

Scientific Name	Common Name		
Ardea herodias	Great blue heron		
Branta canadensis	Canada goose		
Charadrius vociferus	Killdeer		
Columba livia	Rock dove		
Contopus virens	Eastern pewee		
Corvus brachyrhynchos	American crow		
Melospiza melodia	Song sparrow		
Mimus polygottos	Northern mockingbird		
Picoides pubescens	Downy woodpecker		

Table 8. Bird Summary Table for the Port Columbus International Airport Project Area.

Scientific Name	Common Name			
Aix sponsa	Wood duck			
Anas platyrhynchos	Mallard			
Bombycilla garrulus	Cedar waxwing			
Buteo jamaicensis	Red-tailed hawk			
Butorides striatus	Green heron			
Cardinalis cardinalis	Northern cardinal			
Carduelis tristis	American goldfinch			
Cyanocitta cristata	Blue jay			
Dumetella carolinensis	Gray catbird			
Hirundo rustica	Barn swallow			
Iridoprocne bicolor	Tree swallow			
Megaceryle alcyon	Belted Kingfisher			
Parus atricapillus	Black-capped chickadee			
Passer domesticus	House sparrow			
Quiscalus quiscula	Common Grackle			
Sitta carolinensis	White breasted nuthatch			
Sturnus vulgaris	European Starling			
Thryothorus ludovicianus	Carolina wren			
Turdus migratorius	American robin			
Vireo olivaceous	Red eyed vireo			
Zenaidura macroura	Mourning dove			

Table 9. Mammals and Amphibians Summary Table for the Port Columbus International Airport Project Area.

Scientific Name	Common Name	
Mamma	ıls	
Marmota monax	Groundhog	
Odocoileus virginianus	White-tailed deer	
Procyon lotor	Raccoon	
Sciurus niger	Fox squirrel	
Sylvilagus floridanus	Eastern cottontail	
Tamias striatus	Eastern chipmunk	
Amphibia	ans	
Rana clamitans	Green frog	

ENDANGERED SPECIES

The ODNR has no records for any rare or endangered species in the current project area or within a 1-mile radius (Appendix A: ODNR 2006). The ODNR found no records of existing or proposed state nature preserves, scenic rivers, unique ecological sites, geologic features, breeding or nonbreeding animal concentrations, champion trees, or state parks, forests, or wildlife areas within 1 mile of the project area (Appendix A: ODNR 2006).

The ranges of four federally endangered species and one federal candidate species include Franklin County (Table 10). The federally endangered Scioto madtom (*Noturus trautmani*) has been documented only in Big Darby Creek, and is assumed to be extinct. The federally endangered northern riffleshell mussel (*Epioblasma torulosa rangiana*) and clubshell mussel (*Pleurobema clava*), as well as the federal candidate species, rayed bean mussel (*Villosa fabalis*), occur in sand and gravel riffles and runs in streams. Big Walnut Creek contains suitable habitat for these species, but none of these species have been documented in Big Walnut Creek within 1 mile of the project area (Appendix A: ODNR 2006). Furthermore, USFWS (2006b) stated that the project as proposed would have no impact on the clubshell mussel, northern riffleshell mussel, rayed bean mussel, and Scioto madtom. Table 10 below provides a summary of preferred habitat and habitat within the project area for each of the species previously mentioned.

The federally endangered Indiana bat (*Myotis sodalis*) roosts in trees with cavities or peeling bark, and prefers to forage in stream corridors, woodlots, and riparian corridors. Suitable roost trees (Photograph 23) and feeding corridors are present within the second-growth forest areas of the project area and along Big Walnut Creek. Approximately 21 suitable roost trees for the Indiana bat were present within the second-growth forest areas of the project area and along Big Walnut Creek (Figure 5; 6, Sheets 1, 3, and 4). However, the nearest Indiana bat record is approximately 44 miles southeast in Falls Gore Township, Hocking County (Appendix A: ODNR 2006). The USFWS (2006b) recommends that suitable roost trees be avoided if possible and that if cutting is unavoidable, further coordination with the USFWS is requested to determine if surveys are warranted.

Table 10. Federally Endangered and Candidate Species Whose Ranges Include Franklin County (USFWS 2006).

Scientific Name	Соптоп Nате	Federal Status	Ohio Status	Habitat	Potential Habitat Present in the Project Area
Epioblasma torulosa rangiana	Northern riffleshell mussel	Щ	Ξ	Large streams and small rivers in the firm sand of riffle areas	Yes. Big Walnut Creek contains suitable habitat for this species, but the species has not been documented within 1 mile of the project area (Appendix A: ODNR 2006).
Myotis sodalis	Indiana bat	Э	E	Maternity roosts in small stream corridors with well developed riparian woods, upland forests	Yes. Several foraging areas as well as potential roost trees are located in wooded areas and along Big Walnut Creek, but the species has not been documented within 1 mile of the project area (Appendix A: ODNR 2006).
Noturus trautmani	Scioto madtom (fish)	Щ	П	Stream riffles of moderate flow over sandy gravel bottom	Yes. Big Walnut Creek contains suitable habitat for this species, but the species has not been documented within 1 mile of the project area (Appendix A: ODNR 2006).
Pleurobema clava	Clubshell mussel	П	E	Coarse sand and gravel areas of runs and riffles within streams and small rivers	Yes. Big Walnut Creek contains suitable habitat for this species, but the species has not been documented within 1 mile of the project area (Appendix A: ODNR 2006).
Villosa fabalis	Rayed bean mussel	O	Щ	Small, shallow rivers, in and near riffles, where it is buried deep in sand and/or gravel, often near aquatic vegetation. The rayed bean mussel is also found in slow flowing rivers, and along the shallow, wave-swept shores of lakes	Yes. Big Walnut Creek contains suitable habitat for this species, but the species has not been documented within 1 mile of the project area (Appendix A: ODNR 2006).

SUMMARY

A combination of 66 USACOE jurisdictional and non-jurisdictional "Waters of the U.S." occur in the current project area, including 60 wetlands, three ponds, and three streams. All areas were previously reported in 2003 (Liptak and Queen 2003). The only new changes observed include the division of Wetland 16. This area is now divided into two parts, 16A and 16B, from the installation of a culvert. Also, in the 2003 Wetland Delineation report (Liptak and Queen 2003) Wetland 14 was divided into 3 segments. The middle portion of this wetland is now gone. The area has been culverted and paved over for the construction of a parking lot. No new wetlands or other jurisdictional waters were encountered in those areas that were not surveyed in 2003, but are now included in the current project area.

A total of 60 wetlands occupying 10.57 acres were delineated in the project area. Fifty wetlands equaling (8.62 acres) are Category 1 wetlands. A total of five wetlands (1.60 acres) are Category 2 wetlands, and five wetlands (0.35 acres) are determined to be Modified Category 2 wetlands. In addition, three ponds were identified in the project area. The total acreage of the three ponds was 2.98 acres.

Three jurisdictional waterways, totaling 8,292 linear feet, were identified in the project area. Streams 2 and 3 are considered headwater streams while Stream 1 (Big Walnut Creek) is considered a non-headwater stream.

The wetlands, ponds and waterways would be considered jointly by regulatory agencies when considering wetland, stream and water quality impacts. Pursuant to Section 404 of the Clean Water Act, the USACOE has jurisdiction over the placement of fill or dredged material in all jurisdictional "Waters of the United States". A Section 404 permit must be obtained prior to placing any fill material within a jurisdictional area. Non-jurisdictional wetlands are typically isolated wetland areas. Under most circumstances these wetlands are regulated by the Ohio Environmental Protection Agency (OEPA) and require either a General or Individual Isolated Wetland Permit for dredge and fill activities.

The ODNR had no records for any threatened or endangered species within a 1-mile radius of the current project area (Appendix A: ODNR 2006). The ODNR found no records of existing or proposed state nature preserves, scenic rivers, unique ecological sites, geologic features, breeding or nonbreeding animal concentrations, champion trees, or state parks, forests or wildlife areas within 1 mile of the project area (Appendix A: ODNR 2006).

The ranges of the federally endangered Scioto madtom (*Noturus trautmani*), northern riffleshell mussel (*Epioblasma torulosa rangiana*), clubshell mussel (*Pleurobema clava*), and Indiana bat (*Myotis sodalis*), and the federal candidate, rayed bean mussel (*Villosa fabalis*), include Franklin County (USFWS 2006a, 2006b). However, the ODNR had no records for any of these species within a 1-mile radius of the current project area (Appendix A: ODNR 2006). Furthermore, USFWS (2006b) stated that the project as proposed should have no impact on the clubshell mussel, northern riffleshell mussel, rayed bean mussel and Scioto madtom individuals or habitat.

Approximately 21 suitable roost trees for the Indiana bat were present within the second-growth forest areas of the project area and along Big Walnut Creek (Figure 5; Figure 6, Sheets 1, 3, and 4). Suitable foraging habitat is also present along Big Walnut Creek. However, no individuals were observed during the survey.

The project area includes areas of 100-year floodplain in the eastern portion of the project area, surrounding Big Walnut Creek (Figure 5; Figure 6, Sheets 2 and 3). However, most of the project area is outside the 100-year floodplain.

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FIGURES

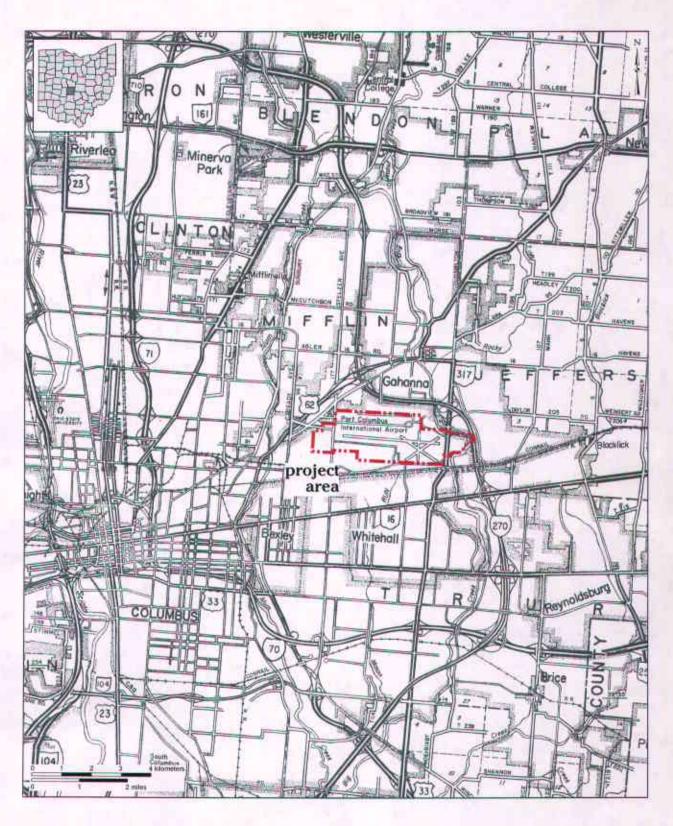


Figure 1. ODOT map showing project vicinity for the Port Columbus International Airport, Columbus, Franklin County, Ohio.

APPENDIX A: AGENCY CORRESPONDENCE



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services 6950 Americana Parkway, Suite H Reynoldsburg, Ohio 43068-4127 (614) 469-6923 / FAX (614) 469-6919 September 18, 2006

Len Mikles ASC Group, Inc. 4620 Indianola Ave. Columbus, OH 43214

Dear Mr. Mikles:

This is in response to your August 11, 2006 letter received on August 14 requesting technical assistance regarding Federally-listed species that may occur at the Port Columbus International Airport Project (# 1617) south of the U.S. 62 and I-270 Interchange in Franklin County, Columbus, Ohio. The project involves the proposed runway expansion at the airport.

There are no Federal wilderness areas, wildlife refuges, or designated Critical Habitat within the vicinity of the proposed site.

ENDANGERED SPECIES COMMENTS: The proposed project lies within the range of the **Indiana bat** (*Myotis sodalis*), a Federally-listed endangered species. Since first listed as endangered in 1967, their population has declined by nearly 60%. Several factors have contributed to the decline of the Indiana bat, including the loss and degradation of suitable hibernacula, human disturbance during hibernation, pesticides, and the loss and degradation of forested habitat, particularly stands of large, mature trees. Fragmentation of forest habitat may also contribute to declines. Summer habitat requirements for the species are not well defined but the following are considered important:

- (1) dead or live trees and snags with peeling or exfoliating bark, split tree trunk and/or branches, or cavities, which may be used as maternity roost areas;
- (2) live trees (such as shagbark hickory and oaks) which have exfoliating bark;
- (3) stream corridors, riparian areas, and upland woodlots which provide forage sites.

Should the proposed site contain trees or associated habitats exhibiting any of the characteristics listed above, we recommend that the habitat and surrounding trees be saved wherever possible. If the trees must be cut, further coordination with this office is requested to determine if surveys are warranted. Any survey should be designed and conducted in coordination with the Endangered Species Coordinator for this office.

The project also lies within the range of the Federally-listed endangered Scioto madtom (Noturus trautmani), clubshell (Pleurobema clava), and northern riffleshell (Epioblasma torulosa rangiana), and the rayed bean (Villosa fabalis), a Federal candidate species. Due to the project type, size, and location, the project should not impact these species or their habitat.

These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the Endangered Species Act of 1973, as amended, and are consistent with the intent of the National Environmental Policy Act of 1969 and the U.S. Fish and Wildlife Service's Mitigation Policy.

If you have any questions concerning your request, please contact Angela Zimmerman at (614) 469-6923 extension 22.

Sincerely,

Mary Knapp, Ph.D.
Field Supervisor

cc: ODNR, DOW, SCEA Unit, Columbus, OH



Ohio Department of Natural Resources

BOB TAFT, GOVERNOR

SAMUEL W. SPECK, DIRECTOR

Division of Natural Areas and Preserves

Tom Linkous, Chief 2045 Morse Rd., Bldg. F-1 Columbus, OH 43229-6693

Phone: (614) 265-6453; Fax: (614) 267-3096

August 10, 2006

Len Mikles ASC Group, Inc. 4620 Indianola Ave. Columbus, OH 43214

Dear Mr. Mikles:

After reviewing our Natural Heritage maps and files, I find the Division of Natural Areas and Preserves has no records of rare or endangered species in the Port Columbus International Airport Runway Expansion project area, including a one mile radius, in Columbus, Franklin County, and on the Northeast Columbus, New Albany, Reynoldsburg and Southeast Columbus Quads (1617). We also have no records for Indiana Bat (Myotis sodalis, state endangered, federal endangered) capture locations or hibernacula within a five mile radius of the project site. The nearest Indiana Bat record is approximately 44 miles away in Falls Gore Township, Hocking County.

There are no existing or proposed state nature preserves or scenic rivers at the project site. We are also unaware of any unique ecological sites, geologic features, breeding or nonbreeding animal concentrations or state parks, forests or wildlife areas within a one mile radius of the project area.

Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Please note that although we inventory all types of plant communities, we only maintain records on the highest quality areas. Also, we do not have data for all Ohio wetlands. For National Wetlands Inventory maps, please contact Madge Fitak in the Division of Geological Survey at 614-265-6576.

Please contact me at 614-265-6818 if I can be of further assistance.

Sincerely,

Debbie Woischke, Ecological Analyst Natural Heritage Program

DibbieMoschhe

APPENDIX B: PHOTOGRAPHS



Photograph 1. Edge of Wetland 1, facing north into wetland.



Photograph 2. Edge of Wetland 2, facing north into wetland.



Photograph 3. Edge of Wetland 3, facing east into wetland.



Photograph 4. Edge of Wetland 4, facing east into wetland.



Photograph 5. Edge of Wetland 5, facing northeast into wetland.



Photograph 6. Edge of Wetland 6, facing west into wetland.



Photograph 7. Edge of Wetland 7, facing northwest into wetland.



Photograph 8. Edge of Wetland 8, facing north into wetland.



Photograph 9. Edge of Wetland 9, facing east into wetland.



Photograph 10. Edge of Wetland 10, facing north into wetland.



Photograph 11. Wetland 11A in mowed old-field, facing north.



Photograph 12. Edge of Wetland 11B, facing northeast into wetland.



Photograph 13. Edge of Wetland 11N, facing north.



Photograph 14. Edge of Wetland 11J in mowed field, facing north.



Photograph 15. Wetland 11Z and surrounding old-field area, facing west.



Photograph 16. Wetland 12A, facing south into wetland.



Photograph 17. Wetland 12C in mowed field, facing northwest.



Photograph 18. Wetland 14A, facing northwest.



Photograph 19. Wetland 15A, facing east.



Photograph 20. Wetland 16, facing east.



Photograph 21. Wetland 17B, facing east, showing wetland and upland sample plots.



Photograph 22. Stream 2, facing upstream (southwest).



Photograph 23. Representative photo of a potential Indiana bat roost tree, looking north.

APPENDIX C: WETLAND DETERMINATION FORMS

(1987 COE Wetlands Delineation Manual)

Project/Site: Port Columbus International Airport Applicant/Owner: Columbus Municipal Airport Authority Investigator: Landon McKinney				Date: 8.8.2006 County: Franklin State: Ohio
		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 1 Data Point #: 1

VEGETATION

1	Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.	Ulmus americana	Tree	FACW-	9.		
2.	Acer saccharinum	Tree	FACW	10.		
3.	Populus deltoides	Tree	FAC	11.		
4.	Toxicodendron radicans	Vine	FAC	12.		
5.				13.		
6.				14.]
7.				15.		·
8.				16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

Recorded Data (Describe in Remark	:s):		Wetlar	nd Hydrology Indicators:
Stream, Lake, or Tide Gauge			Prin	nary Indicators:
Aerial Photographs				Inundated
Other			·	Saturated in the Upper 12 in.
X No Recorded Data Available				Water Marks
				Drift Lines
Field Observations:				Sediment Deposits
			X	Drainage Patterns in Wetlands
Depth of Surface Water:		(in.)	Second	dary Indicators (2 or more required):
•				Oxidized Root Channels in Upper 12 in.
Depth to Free Water in Pit:		(in.)	X	Water-Stained Leaves
•			X	Local Soil Survey Data
Depth to Saturated Soil:	>16	(in.)	X	FAC-Neutral Test
•		. ,	ļ .	Other (Explain in Remarks)
Remarks:			L	Onici (Expiani ili Remarks)

SUILS								
Map Unit Nai	me			Drainage Class:				
(Series and Pl		•						
Taxonomy (S				Field Observations				
				Confirm Mapped T	'ype? Yes No			
Profile Descr	iption:							
		<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>	·	1			
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
				Contrast	Structure, etc.			
0-12	Α	10YR 4/2	7.5YR 4/4	CMP	Loam			
12-16	В	10YR 5/2	7.5YR 5/4	Loam				
-								
Hydric Soil Indicators:								
Histoso	ol		Concretions					
Histic I	Epipedon		High Organic	Content in Surface I	Layer in Sandy Soils			
Sulfidio			Organic Stre	aking in Sandy Soils	4.			
Aguic l	Moisture R	egime	Listed on Lo	cal Hydric Soils List				
	ng Conditio		Listed on National Hydric Soils List					
		roma Colors	Other (Explain in Remarks)					
Remarks:								
	ators were	observed. This obs	ervation satisfies the	soils criterion.				
11, 4111								

Hydrophytic Vegetation	Yes	No	Is thi	s Sam	pling Point Within a Wetland?
Present? (Circle)					
Wetland Hydrology Present?	Yes	No	<u>Yes</u>	No	(Circle)
Hydric Soils Present?	Yes	No			
Remarks:					
This area satisfies the three crite	ria and is	a wetland.			

(1987 COE Wetlands Delineation Manual)

Project/Site:	Port Columbus international Airport			Date: 8.8.200)6
Applicant/Owner:	· · · · · · · · · · · · · · · · · · ·				n ·
Investigator:	Landon McKinney	State: Ohio			
1		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: No Data Point #: 2	on-wetland

VEGETATION

I	Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.	Acer saccharinum	Tree	FACW	9. Lonicera maackii	Shrub	UPL
2.	Fraxinus americana	Tree	FACU	10.		
3.	Rubus alleghaniensis	Shrub	FACU-	11.		
4.	Prunus serotina	Tree	FACU	12.		
5.	Rhamnus cathartica	Shrub	FACU	13.		
6.	Rosa multiflora	Shrub	FACU	14.		
7.	Toxicodendron radicans	Vine	FAC	15.		
8.	Viburnum dentatum	Shrub	FAC	16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 22.2%

Remarks:

Less than half of the dominant species are hydrophytic. This observation does not satisfy the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
	· · · · · · · · · · · · · · · · · · ·			Drift Lines
Field (Observations:			Sediment Deposits
				Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
				Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	X Water-Stained Leaves
				X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	FAC-Neutral Test
				Other (Explain in Remarks)
Remar	rks:			
Indica	tors of wetland hydrology were observed. Th	is obse	rvation s	satisfies the hydrology criterion.

BOILB				T				
Map Unit Nat	ne		Drainage Class:					
(Series and Pl								
Taxonomy (S				Field Observations				
Taxonomy (S	uogroup).			Confirm Mapped T	1			
				Commin Mapped 1	<i>Jpc.</i> 105 110			
Profile Descr	iption:							
			•					
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
	110112011	(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
(inches)		(Muliseli Moist)	(IVIUIISCII IVIOISI)	Contrast	Structure, etc.			
0-16	A	10YR 4/2	7.5YR 4/4	CMP	Loam			
		<u> </u>						
		ļ						
				 				
Hydric Soil Indicators:								
Histoso	1		Concretions					
11	Epipedon			Content in Surface I	Layer in Sandy Soils			
Sulfidio				aking in Sandy Soils				
		• • •						
	Moisture R			cal Hydric Soils List	•			
	ng Conditio			tional Hydric Soils L	ist			
X Gleyed	or Low-Cl	nroma Colors	Other (Expla	in in Remarks)				
Remarks:								
Hydric indica	atore were	observed This obse	ervation satisfies the	soils criterion.				
Tryuric muica	HOIS WOICE	Justi vou. Tins Ous	or randir buttorios the	DOILD WILLDIAM				
1								

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle)			
Wetland Hydrology Present?	<u>Yes</u>	No	Yes <u>No</u> (Circle)
Hydric Soils Present?	Yes	No	
Remarks:			
This area satisfies only two of the	ne three c	riteria and	l is not a wetland.

(1987 COE Wetlands Delineation Manual)

Project/Site:	Date: 8.8.2006			
Applicant/Owner:	Columbus Municipal Airport Author	rity		County: Franklin
Investigator:	Landon McKinney	State: Ohio		
		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 2 Data Point #: 3

VEGETATION

I	Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.	Acer saccharinum	Tree	FACW	9.		
2.	Fraxinus pensylvanica	Tree	FACW	10.		
3.				11.		
4.				12.		
5.				13.		
6.				14.		
7.			·	15.		
8.				16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 75%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
\mathbf{X}	No Recorded Data Available			Water Marks
				Drift Lines
Field (Observations:			Sediment Deposits
				X Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
	•		` ,	Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	X Water-Stained Leaves
	•		` '	X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
	•		, ,	Other (Explain in Remarks)
Rema	rks:			
Indica	tors of wetland hydrology were observed.	This obse	rvation	satisfies the hydrology criterion.

SOILS						
Map Unit Nat	me			Drainage Class:		
(Series and Pl	nase):					
Taxonomy (S			Field Observations	•		
, ,			Confirm Mapped T	ype? Yes No		
Profile Descr	iption:				* .	
				· · · · · · · · · · · · · · · · · · ·	·	
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,	
(inches)	:	(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,	
		1	<u> </u>	Contrast	Structure, etc.	
0-12	A	10YR 4/2	7.5YR 5/8	CMP	SiCL	
12-16	В	10YR 3/1			CL	
Hydric Soil I	ndicators:	· · · · · · · · · · · · · · · · · · ·				
				4	<u> </u>	
Histoso	ol	* .	Concretions			
ii .	Epipedon	•		c Content in Surface l	Layer in Sandy Soils	
Sulfidio		•		aking in Sandy Soils		
	Moisture R	egime		cal Hydric Soils List		
	ng Conditio			tional Hydric Soils L	ist	
		hroma Colors		in in Remarks)	· 	
Remarks:						
	ators were	observed. This obs	ervation satisfies the	soils criterion.	• *	
+ 5						
l						
I						

Hydrophytic Vegetation	Yes	No	Is this	Sampling Point Within	n a Wetla	nd?
Present? (Circle)			•			
Wetland Hydrology Present?	<u>Yes</u>	No	<u>Yes</u>	No (Circle)		
Hydric Soils Present?	<u>Yes</u>	No				
Remarks:						
This area satisfies the three criter	ria and is	a wetland.		· · · · · · · · · · · · · · · · · · ·		

(1987 COE Wetlands Delineation Manual)

Project/Site: Port Columbus International Airport Applicant/Owner: Columbus Municipal Airport Authority Investigator: Landon McKinney			
Yes	No	Community ID: Wetland 3	
Yes Yes	<u>No</u> <u>No</u>	Data Point #: 4	
	Yes Yes	Yes No Yes <u>No</u>	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Quercus palustris	Tree	FACW	9.		
2. Acer saccharinum	Tree	FACW	10.		
3. Acer negundo	Tree	FAC+	11.		
4. Glyceria striata	Grass	OBL	12.		
5.			13.		
6.			14.		
7.			15.		<u> </u>
8.			16.		<u> </u>

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:			
Stream, Lake, or Tide Gauge			Primary Indicators:			
Aerial Photographs			Inundated			
Other			Saturated in the Upper 12 in.			
X No Recorded Data Available			Water Marks			
			Drift Lines			
Field Observations:			Sediment Deposits			
			Drainage Patterns in Wetlands			
Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):			
		` ,	X Oxidized Root Channels in Upper 12 in.			
Depth to Free Water in Pit:		(in.)	Water-Stained Leaves			
		` '	X Local Soil Survey Data			
Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test			
		` ,	Other (Explain in Remarks)			
Remarks:						
Indicators of wetland hydrology were observed.	This obse	rvation	satisfies the hydrology criterion.			

SOILS									
Map Unit Na	me			Drainage Class:					
(Series and Pl									
Taxonomy (S				Field Observations					
	0 17			Confirm Mapped T	Type? Yes No				
Profile Descr	iption:								
	•								
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,				
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,				
		`		Contrast	Structure, etc.				
0-16	A	10YR 4/2	5YR 4/6	CMP	CL				
Hydric Soil I	ndicators:								
			•						
Histoso	1		Concretions						
Histic I	Epipedon		High Organic	Content in Surface I	Layer in Sandy Soils				
Sulfidio			Organic Streaking in Sandy Soils						
	Moisture Re			ted on Local Hydric Soils List					
	ng Conditio			Listed on National Hydric Soils List					
X Gleyed	or Low-Ch	roma Colors	Other (Expla	in in Remarks)					
Remarks:									
Hydric indica	itors were o	observed. This obse	ervation satisfies the	soils criterion.					
		F							
					e de la companya de l				
	* •								

Hydrophytic Vegetation Present? (Circle)	n <u>Yes</u> No				Is this Sampling Point Within a Wetland?					
Wetland Hydrology Present? Hydric Soils Present?	Yes Yes	No No	Yes	No	(Circle)	•				
Remarks: This area satisfies the three criter	ia and is	a wetland.								
,										

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus international Airport Columbus Municipal Airport Author Landon McKinney	Date: 8.8.2006 County: Franklin State: Ohio		
	stances exist on the site?	Yes Yes	No No	Community ID: Non-wetland
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			No No	Data Point #: 5

VEGETATION

Dominant Plant Species		Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.	Acer saccharinum	Tree	FACW	9.		
2.	Crataegus crus-galli	Tree	FACU	10.		
3.	Lonicera tatarica	Shrub	FACU	11.		
4.	Boehmeria cylindrica	Forb	FACW+	12.		
5.	Rhamnus cathartica	Shrub	FACU	13.		
6.	Toxicodendron radicans	Vine	FAC	14.		
7.	Viburnum dentatum	Shrub	FAC	15.		
8.				16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 57%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

HYDROLOGY

hydrology criterion.

Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:			
Stream, Lake, or Tide Gauge			Primary Indicators:			
	Aerial Photographs	•		Inundated		
	Other			Saturated in the Upper 12 in.		
X	No Recorded Data Available			Water Marks		
				Drift Lines		
Field Observations:			Sediment Deposits			
				Drainage Patterns in Wetlands		
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):		
			• •	Oxidized Root Channels in Upper 12 in.		
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves		
	•			X Local Soil Survey Data		
	Depth to Saturated Soil:	>16	(in.)	FAC-Neutral Test		
	r		` ,	Other (Explain in Remarks)		
Remark	S:					
Sufficient indicators of wetland hydrology were not observed. This observation does not satisfy the						

SOILS					
Map Unit Na	me			Drainage Class:	
(Series and Pl					
Taxonomy (S				Field Observations	
• `	,			Confirm Mapped T	'ype? Yes No
Profile Descr	iption:				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
				Contrast	Structure, etc.
0-16	Α	10YR 4/2	7.5YR 4/6	CMP	SiL
Hydric Soil I	ndicators:				
Histoso	 ol		Concretions		
Histic I	Epipedon		High Organio	Content in Surface I	Layer in Sandy Soils
Sulfidio				aking in Sandy Soils	
Aquic 1	Moisture R	egime		cal Hydric Soils List	
	ng Conditio			tional Hydric Soils L	ist
X Gleyed	or Low-Ch	roma Colors	Other (Expla	in in Remarks)	
Remarks:					
Hydric indica	ators were	observed. This obs	ervation satisfies the	soils criterion.	
					•
		•			
					•

WETLAND DETERMINATION

1122211			
Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle)			
Wetland Hydrology Present?	Yes	<u>No</u>	Yes <u>No</u> (Circle)
Hydric Soils Present?	<u>Yes</u>	No	

This area satisfies only two of the three criteria and is not a wetland.

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio
I .	stances exist on the site? tly disturbed (Atypical Situation)?	Yes Yes	No <u>No</u>	Community ID: Wetland 4
Is the area a potenti (If needed, explain	al Problem Area?	Yes	No No	Data Point #: 6

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer saccharinum	Tree	FACW	9.		
2. Fraxinus pensylvanica	Tree	FACW	10.		
3. Viburnum dentatum	Shrub	FAC	11.		
4.			12.		<u> </u>
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
				Drift Lines
Field	Observations:			Sediment Deposits
				X Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
			, ,	Oxidized Root Channels in Upper 12 in
	Depth to Free Water in Pit:		(in.)	X Water-Stained Leaves
	*.		` ,	X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
	<u>r</u>			Other (Explain in Remarks)

SOILS					
Map Unit Nar	ne			Drainage Class:	
(Series and Pl					
Taxonomy (S				Field Observations	
Luxonomy (D	aceroup).			Confirm Mapped T	
Drofile Deser	intion				<i>y</i> F
Profile Descri	іриоп:				
			26.41.6.1	1 N 4 - 441 -	Tourtune
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
				Contrast	Structure, etc.
0-16	A	10YR 4/2	7.5YR 5/6	CMP	SiCL
Hydric Soil I	ndicators:	<u> </u>		<u></u>	
22,4110 2011 11					
Histoso	1		X Concretions		· · · · · · · · · · · · · · · · · · ·
	: Epipedon			Content in Surface I	Laver in Sandy Soils
Sulfidio				aking in Sandy Soils	
	Moisture Re	agime		cal Hydric Soils List	
	ng Condition			tional Hydric Soils L	ist
Keducii	ing Conditio	moma Colora		in in Remarks)	aure .
	or Low-Cr.	roma Colors	Outer (Expla.	in in Remarks)	
Remarks:		.1	المراجع المراجع المراجع المراجع المراجع	anila amitanian	
Hydric indica	ators were o	observed. This obse	ervation satisfies the	sons criterion.	

Hydrophytic Vegetation	Yes	No	Is thi	s Sam	pling Poin	t With	in a We	tland?	
Present? (Circle)		•			/~! 1 \ ·				
Wetland Hydrology Present?	<u>Yes</u>	No .	<u>Yes</u>	No	(Circle)				
Hydric Soils Present?	Yes	No							
Remarks:									
This area satisfies the three crite	ria and is	a wetland.							

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio
		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 5 Data Point #: 7

VEGETATION

			<u> </u>		T
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer saccharinum	Tree	FACW	9.		
2. Fraxinus pensylvanica	Tree	FACW	10.		
3. Viburnum dentatum	Shrub	FAC	11.		
4.		1	12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):		Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge		Primary Indicators:
	Aerial Photographs		Inundated
	Other		Saturated in the Upper 12 in.
X	No Recorded Data Available		Water Marks
			Drift Lines
Field C	Observations:	-	Sediment Deposits
			X Drainage Patterns in Wetlands
	Depth of Surface Water:	(in.)	Secondary Indicators (2 or more required):
		` ,	Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:	(in.)	X Water-Stained Leaves
			X Local Soil Survey Data
	Depth to Saturated Soil: >16	(in.)	X FAC-Neutral Test
		` ,	Other (Explain in Remarks)
Remar	ks:		
Indicat	tors of wetland hydrology were observed. This observed	servation	satisfies the hydrology criterion.

SOLDS					
Map Unit Nai	me			Drainage Class:	
(Series and Pl	hase):				
Taxonomy (S	ubgroup):			Field Observations	
	5 17			Confirm Mapped T	
Profile Descri	intion:			, outside the second	Jp0. 200 200
	.p.i.o.i.				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
((1120120111120101)	(1.14115011 1.110101)	Contrast	Structure, etc.
0-16	A	10YR 4/2	7.5YR 5/6	CMP	SiCL
		10110 1/2	7.5 110 57 0	- CIVII	DIOD
					
Hydric Soil In	ndicators:		· ·	· · · · · · · · · · · · · · · · · · ·	
,					
Histoso	1 .		Concretions		
Histic E	Epipedon		High Organic	Content in Surface I	Layer in Sandy Soils
Sulfidic	Odor			king in Sandy Soils	
Aquic N	Moisture Re	egime		cal Hydric Soils List	
Reducir	ng Conditio	ons		tional Hydric Soils Li	ist
X Gleyed	or Low-Ch	roma Colors		in in Remarks)	
Remarks:			* · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Hydric indica	tors were c	bserved. This obse	ervation satisfies the	soils criterion.	

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this Sampling Point Within a Wetland?
Wetland Hydrology Present?	Yes	No	Yes No (Circle)
Hydric Soils Present?	Yes	No	
D			
Remarks: This area satisfies the three crite	eria and is	a wetland.	
	eria and is	a wetland.	
	eria and is	a wetland.	
	eria and is	a wetland.	

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio
i :	stances exist on the site?	<u>Yes</u>	No	Community ID: Wetland 6
Is the site significar Is the area a potenti (If needed, explain		Yes Yes	No No	Data Point #: 8

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer saccharinum	Tree	FACW	9.		
2. Scirpus cyperinus	Sedge	FACW+	10.		
3. Viburnum dentatum	Shrub	FAC	11.		
4. Glyceria striata	Grass	OBL	12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

X No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Water Marks Drift Lines Sediment Deposits X Drainage Patterns in Wet Secondary Indicators (2 or more Oxidized Root Channels Water-Stained Leaves	s:	and Hydrology Indicators:			Recorded Data (Describe in Remarks):	
Other X No Recorded Data Available Field Observations: Saturated in the Upper 12 Water Marks Drift Lines Sediment Deposits X Drainage Patterns in Wet Depth of Surface Water: Depth to Free Water in Pit: (in.) Water-Stained Leaves		imary Indicators:			Stream, Lake, or Tide Gauge	
X No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Water Marks Drift Lines Sediment Deposits X Drainage Patterns in Wet Secondary Indicators (2 or more Oxidized Root Channels Water-Stained Leaves		Inundated			Aerial Photographs	
Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Dirift Lines Sediment Deposits X Drainage Patterns in Wet Secondary Indicators (2 or more Oxidized Root Channels Water-Stained Leaves	r 12 in.	Saturated in the Upper 12 in.			Other	
Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Sediment Deposits X Drainage Patterns in Wet Secondary Indicators (2 or more Oxidized Root Channels Water-Stained Leaves		Water Marks			No Recorded Data Available	\mathbf{X}
Depth of Surface Water: Depth of Surface Water: Depth to Free Water in Pit: X Drainage Patterns in Wet Secondary Indicators (2 or more Oxidized Root Channels Water-Stained Leaves		Drift Lines		•		
Depth of Surface Water: (in.) Secondary Indicators (2 or more Oxidized Root Channels Depth to Free Water in Pit: (in.) Water-Stained Leaves		Sediment Deposits			Observations:	Field C
Depth to Free Water in Pit: Oxidized Root Channels Water-Stained Leaves	Wetlands	Drainage Patterns in Wetlands				
Depth to Free Water in Pit: Oxidized Root Channels Water-Stained Leaves	ore required):	ndary Indicators (2 or more required):	(in.)		Depth of Surface Water:	
Departo Troe (tato)	els in Upper 12 in.	Oxidized Root Channels in Upper 12			•	
W Y and Call Company Data	3	Water-Stained Leaves	(in.)		Depth to Free Water in Pit:	
X Local Soil Survey Data	ta	Local Soil Survey Data	• •		•	
Depth to Saturated Soil: >16 (in.) X FAC-Neutral Test		FAC-Neutral Test	(in.)	>16	Depth to Saturated Soil:	
Other (Explain in Remar	narks)	Other (Explain in Remarks)			•	

SOLLS								
Map Unit Nar				Drainage Class:				
(Series and Pl								
Taxonomy (St	ubgroup):			Field Observations				
				Confirm Mapped T	ype? Yes No			
Profile Descri	ption:		· · · · · · · · · · · · · · · · · · ·					
· · · · · · · · · · · · · · · · · · ·								
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
•				Contrast	Structure, etc.			
0-12	Α	10YR 4/2	5YR 5/6	CMP	CL			
12-16	В	10YR 5/2	7.5YR 5/6	CMP	CL			
Hydric Soil I	ndicators:							
, === -==								
Histoso	1		Concretions					
	Epipedon			c Content in Surface I	Layer in Sandy Soils			
Sulfidio			Organic Stre	aking in Sandy Soils				
	Moisture R	egime		cal Hydric Soils List				
	ng Conditio		Listed on Na	ntional Hydric Soils Li	ist			
		hroma Colors	Other (Expla	ain in Remarks)				
Remarks:		<u> </u>						
	itors were	observed. This observed	ervation satisfies the	soils criterion.	· · · · · · · · · · · · · · · · · · ·			
1	•							

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this Sampling Point Within a Wetland?			
Wetland Hydrology Present? Hydric Soils Present?	Yes Yes	No No	Yes No (Circle)			
Remarks:		1				
This area satisfies the three crite	eria and is	a wettand.				
	1.					

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio
	stances exist on the site?	Yes	No	Community ID: Wetland 7
Is the site significar Is the area a potenti (If needed, explain		Yes Yes	No No	Data Point #: 9

VEGETATION

		T-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	T = 44		<u> </u>	T 1'
]	Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.	Acer saccharinum	Tree	FACW	9.		
2.	Scirpus cyperinus	Sedge	FACW+	10.		
3.	Viburnum dentatum	Shrub	FAC	11.		
4.	Glyceria striata	Grass	OBL	12.		
5.				13.		
6.				14.		
7.				15.		
8.				16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
ļ ·	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
l				Drift Lines
Field C	Observations:			Sediment Deposits
				X Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
	•			Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
			, ,	X Local Soil Survey Data
1	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
	•		` ,	Other (Explain in Remarks)
Remar	ks:			
	tors of wetland hydrology were observed.	This obse	rvation	satisfies the hydrology criterion.

SOILS					
Map Unit Na	me			Drainage Class:	
(Series and P	hase):				
Taxonomy (S	Subgroup):			Field Observations	
				Confirm Mapped 7	Type? Yes No
Profile Descr	ription:				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
				Contrast	Structure, etc.
0-12	Α	10YR 4/2	5YR 5/6	CMP	CL
12-16	В	10YR 5/2	7.5YR 5/6	CMP	CL
Hydric Soil 1	ndicators:				
Histoso	ol		X Concretions		
Histic	Epipedon		High Organic	Content in Surface	Layer in Sandy Soils
Sulfidi			Organic Stream	aking in Sandy Soils	
Aquic	Moisture R	egime	Listed on Lo	cal Hydric Soils List	
	ing Condition		Listed on Na	tional Hydric Soils L	ist
		roma Colors	Other (Expla	in in Remarks)	
Remarks:					
Hydric indic	ators were	observed. This obs	ervation satisfies the	soils criterion.	

Hydrophytic Vegetation	<u>Yes</u>	No	Is this Sampling Point Within a Wetland?
Present? (Circle) Wetland Hydrology Present? Hydric Soils Present?	Yes Yes	No No	Yes No (Circle)
Remarks:			
This area satisfies the three crite	ria and is	a wetland.	
This area satisfies the three crite	ria and is	a wetland.	

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Autho Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio
		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 8 Data Point #: 10

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Quercus palustris	Tree	FACW	9.		
2. Ulmus americana	Tree	FACW-	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
				Drift Lines
Field	Observations:			Sediment Deposits
				Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
	1			Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	X Water-Stained Leaves
			, ,	X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
	- · r · · · · · · · · · · · · · · · · · · ·		. ,	Other (Explain in Remarks)
Rema	rks:			
	ntors of wetland hydrology were observed.	This obse	rvation	satisfies the hydrology criterion.

Map Unit Nar	me		Drainage Class:						
(Series and Pl									
Taxonomy (S		•	Field Observations						
				Confirm Mapped T					
Profile Descri	iption:				Y •				
					•				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,				
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,				
	·	(1.141.0011 1110101)	(1.14111011 1710131)	Contrast	Structure, etc.				
0-16	A	10YR 4/2	7.5YR 5/6	CMP	SiL SiL				
	· · · · · · · · · · · · · · · · · · ·	101101112	, 13 11 3/0	1 31.11					
		<u> </u>							
		<u> </u>							
		 							
Hydric Soil In	ndicators	<u> </u>			<u> </u>				
Histoso	1		Concretions						
	Epipedon			Content in Surface I	Laver in Sandy Soils				
Sulfidio				aking in Sandy Soils					
	Moisture Re	egime		Listed on Local Hydric Soils List					
	ng Condition			n National Hydric Soils List					
		roma Colors		in in Remarks)					
Remarks:		TOTIM COLORS	T Onto (15xpia	III III IIIIIIIIII					
	itore ware c	heerwad This show	ervation satisfies the	soils criterion					
Trymic menes	TOTA MOTO (20301404. 11113 0080	or various saustics the	sons criterion.					
			•						
Į į				•					

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is thi	s Sam	pling Point Within a Wetland?	
Wetland Hydrology Present?	Yes	No	Yes	No	(Circle)	
Hydric Soils Present?	Yes	No				
Remarks:						
This area satisfies the three crite	ria and is	a wetland				
		•				

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio
a	Do Normal Circumstances exist on the site?			Community ID: Wetland 9
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			No No	Data Point #: 11

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Quercus palustris	Tree	FACW	9.		
2. Ulmus americana	Tree	FACW-	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.	<u> </u>	

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:		
	Stream, Lake, or Tide Gauge		·	Primary Indicators:		
	Aerial Photographs			Inundated		
	Other			Saturated in the Upper 12 in.		
X	No Recorded Data Available			Water Marks		
				Drift Lines		
Field (Observations:			Sediment Deposits		
				Drainage Patterns in Wetlands		
	Depth of Surface Water:	(in.)		Secondary Indicators (2 or more required):		
	1		` '	Oxidized Root Channels in Upper 12 in.		
	Depth to Free Water in Pit:		(in.)	X Water-Stained Leaves		
			` ,	X Local Soil Survey Data		
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test		
			` . ′	Other (Explain in Remarks)		

POTTO			•						
Map Unit Na	me		Drainage Class:						
(Series and Pl									
Taxonomy (S				Field Observations					
	0 17			Confirm Mapped 7					
Profile Descri	iption:				71				
	•								
Depth	Horizon	Matrix Color	Mottle Colors	Mottle Texture,					
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,				
		(======================================	(1.131.0011 1.10100)	Contrast	Structure, etc.				
0-16	A	10YR 4/2	7.5YR 5/6	CMP	SiL				
Hydric Soil I	ndicators:	<u> </u>	<u> </u>						
Histoso	1		Concretions						
Histic I	pipedon		High Organic	High Organic Content in Surface Layer in Sandy Soils					
Sulfidio				aking in Sandy Soils					
· ·	Moisture Re	egime	Listed on Local Hydric Soils List						
	ng Conditio		Listed on National Hydric Soils List						
		roma Colors	Other (Explain in Remarks)						
Remarks:		· · · · · · · · · · · · · · · · · · ·	•						
Hydric indica	itors were o	observed. This observed	ervation satisfies the	soils criterion.					
J									
			*						
				•					
					*				
			•						

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this Sampling Point Within a Wetland?	
Wetland Hydrology Present?	Yes	No	Yes No (Circle)	
Hydric Soils Present?	Yes	No		
Remarks:			• :	
This area satisfies the three crite	ria and is	a wetland	•	
	•			

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Date: 8.8.2006 County: Franklin State: Ohio			
	stances exist on the site?	Yes Yes	No	Community ID: Wetland 10
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			No No	Data Point #: 12

VEGETATION

Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
Tree	FACW	9.		
Tree	FAC	10.		
Shrub	FAC	11.		ļ
Shrub	FAC	12.		
		13.		
	-	14.		
		15.		<u> </u>
		16.		
	Tree Tree Shrub	Tree FACW Tree FAC Shrub FAC	Tree FACW 9. Tree FAC 10. Shrub FAC 11. Shrub FAC 12. 13. 14. 15. 15.	Tree FACW 9. Tree FAC 10. Shrub FAC 11. Shrub FAC 12. 13. 14. 15. 15.

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
				Drift Lines
Field	Observations:			Sediment Deposits
				Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
	- k		()	Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	X Water-Stained Leaves
			` /	X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
			()	Other (Explain in Remarks)
Rema				
Indica	itors of wetland hydrology were observed.	This obse	rvation:	satisfies the hydrology criterion.

BOILD									
Map Unit Na	me		Drainage Class:						
(Series and Pl			5						
Taxonomy (S				Field Observations					
	- 6 F)			Confirm Mapped T					
Profile Descr	intion:			1 Committe Prapped 1	уро, 103 140				
Troine Desci	ւերորո։								
		T		T	T				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,				
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,				
		· ·		Contrast	Structure, etc.				
0-16	Α	10YR 4/2	7.5YR 4/6	CMP	Loam				
-									
,									
Hydric Soil I	ndicators:	·		•	- L 				
Histoso	1		Concretions						
	Epipedon		High Organic Content in Surface Layer in Sandy Soils						
Sulfidio									
		!	Organic Streaking in Sandy Soils						
	Moisture Re		Listed on Local Hydric Soils List						
	ng Conditio		Listed on National Hydric Soils List						
	or Low-Ch	roma Colors	Other (Expla	in in Remarks)					
Remarks:					4				
Hydric indica	ators were o	bserved. This obse	ervation satisfies the	soils criterion.					
				**					
1									

Hydrophytic Vegetation <u>Yes</u> No Is Present? (Circle)					Is this Sampling Point Within a Wetland?				
Vetland Hydrology Present?	Yes	No	Yes	No	(Circle)				
Iydric Soils Present?	Yes	No							
lemarks:									
his area satisfies the three crit	eria and is	a wetland.							

(1987 COE Wetlands Delineation Manual)

Project/Site: Port Columbus International Airpo Applicant/Owner: Columbus Municipal Airport Auth Investigator: Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 11A Data Point #: 13

VEGETATION

I	Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.	Fraxinus pensylvanica	Tree	FACW	9.		
2.	Lysimachia nummularia	Forb	OBL	10.		
3.	Juncus effusus	Sedge	FACW+	11.		
4.			100	12.		
5.				13.		
6.				14.		
7.				15.		
8.				16.	L	<u> </u>

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

HYDROLOGY

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:			
	Stream, Lake, or Tide Gauge			Primary Indicators:			
	Aerial Photographs			Inundated			
	Other			Saturated in the Upper 12 in.			
X No Recorded Data Available				Water Marks			
*				Drift Lines			
Field (Observations:			Sediment Deposits			
				X Drainage Patterns in Wetlands			
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):			
	•			Oxidized Root Channels in Upper 12 in.			
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves			
	•		. ,	X Local Soil Survey Data			
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test			
	•			Other (Explain in Remarks)			

Indicators of wetland hydrology were observed. This observation satisfies the hydrology criterion.

Map Unit Na		2		Drainage Class:					
(Series and P				7.1101					
Taxonomy (S	ubgroup):			Field Observations					
		·		Confirm Mapped T	ype? Yes No				
Profile Descr	iption:								
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,				
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,				
				Contrast	Structure, etc.				
0-16	Α	10YR 3/1	7.5YR 5/8	CMP	CL				
Hydric Soil I	ndicators:								
Histoso	.1		Concretions						
	n Epipedon			Content in Surface	Laver in Sandy Soils				
Sulfidio				aking in Sandy Soils					
D .	Moisture R	egime	Listed on Local Hydric Soils List						
	ng Conditio		Listed on National Hydric Soils List						
		nroma Colors		(Explain in Remarks)					
Remarks:									
	ators were	observed. This obs	ervation satisfies the	soils criterion.					
Trydric male	22010 WOIO (J. J							
				•					
		•							
H .									

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle) Wetland Hydrology Present?	Yes	No	Yes No (Circle)
Hydric Soils Present?	Yes	No	
Remarks:	3		
This area satisfies the three criteri	a and is	a wetland.	
·			
			•

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio
		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 11B Data Point #: 14

VEGETATION

	tag - Albitana				T
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pensylvanica	Tree	FACW	9.		
2. Lysimachia nummularia	Forb	OBL	10.		
3. Juncus effusus	Sedge	FACW+	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		<u> </u>

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):		1	Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
				Drift Lines
Field	Observations:			Sediment Deposits
				X Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
	•			X Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	X Water-Stained Leaves
	•			X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
	· · · · · · · · · · · · · · · · · · ·		` ,	Other (Explain in Remarks)

SOILS					
Map Unit Na	me			Drainage Class:	
(Series and Pl	hase):				
Taxonomy (S	ubgroup):		Field Observations		
				Confirm Mapped T	ype? Yes No
Profile Descr	iption:				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
				Contrast	Structure, etc.
0-16	Α	10YR 3/2	5YR 4/4	CMP	CL
·					
Hydric Soil I	ndicators:				
Histoso	1		Concretions		
Histic I	Epipedon				Layer in Sandy Soils
Sulfidio	Odor		Organic Strea	aking in Sandy Soils	
Aquic l	Moisture Re	egime		cal Hydric Soils List	
	ng Conditio			tional Hydric Soils L	ist
X Gleyed	or Low-Cl	roma Colors	Other (Expla	in in Remarks)	·
Remarks:					
Hydric indica	ators were o	observed. This obse	ervation satisfies the	soils criterion.	

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?		
Present? (Circle) Wetland Hydrology Present?	Yes	No	Yes	No (Circle)	
Hydric Soils Present?	Yes	No			
Remarks:					
This area satisfies the three crite	eria and is	a wetland	l .		
· ·					

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio
	stances exist on the site?	Yes	No	Community ID: Wetland 11C
Is the site significant is the area a potenti (If needed, explain		Yes Yes	<u>No</u> <u>No</u>	Data Point #: 15

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pensylvanica	Tree	FACW	9.		
2. Lysimachia nummularia	Forb	OBL	10.		
3. Juncus effusus	Sedge	FACW+	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
\mathbf{X}	No Recorded Data Available			Water Marks
				Drift Lines
Field (Observations:			Sediment Deposits
				X Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
	•			X Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	X Water-Stained Leaves
	•			X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
			` ,	Other (Explain in Remarks)
Rema	rks:			
Indica	tors of wetland hydrology were observed.	This obse	rvation	satisfies the hydrology criterion.

SOILS								
Map Unit Na	me			Drainage Class:				
(Series and Pl	hase):							
Taxonomy (S	ubgroup):			Field Observations				
				Confirm Mapped T	Type? Yes No			
Profile Descr	iption:			.: 				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
		i		Contrast	Structure, etc.			
0-16	Α	10YR 3/2	5YR 4/4	CMP	CL			
				<u> </u>				
Hydric Soil I	ndicators:							
Histoso	ol		Concretions					
Histic I	Epipedon				Layer in Sandy Soils			
Sulfidio	c Odor		Organic Streaking in Sandy Soils					
	Moisture Re		Listed on Local Hydric Soils List					
	ng Conditio			tional Hydric Soils L	ist			
X Gleyed	or Low-Ch	roma Colors	Other (Expla	Other (Explain in Remarks)				
Remarks:								
Hydric indic	ators were o	observed. This obs	ervation satisfies the	soils criterion.				
İ								
					• •			
H .				and the second s				

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a	Wetland?
Present? (Circle)				
Wetland Hydrology Present?	Yes	No	Yes No (Circle)	
Hydric Soils Present?	Yes	No		
Remarks:				
This area satisfies the three crite	eria and is	a wetland.		
This area satisfies the three crite	eria and is	a wetland.		
This area satisfies the three crite	eria and is	a wetland.		

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio
Do Normal Circumstances exist on the site?			No	Community ID: Wetland 11D
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area?			<u>No</u> No	Data Point #: 16
(If needed, explain	on reverse.)			

VEGETATION

Ι	Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.	Fraxinus pensylvanica	Tree	FACW	9.		
2.	Lysimachia nummularia	Forb	OBL	10.		
3.	Juncus effusus	Sedge	FACW+	11.		
4.				12.		
5.				13.		
6.				14.		
7.				15.		
8.				16.		<u> </u>

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
Stream, Lake, or Tide Gauge			Primary Indicators:
Aerial Photographs			Inundated
Other			Saturated in the Upper 12 in.
No Recorded Data Available			Water Marks
			Drift Lines
ld Observations:			Sediment Deposits
			X Drainage Patterns in Wetlands
Depth of Surface Water:		(in.)) Secondary Indicators (2 or more required):
		., ,	X Oxidized Root Channels in Upper 12 i
Depth to Free Water in Pit:		(in.)) X Water-Stained Leaves
		` ´	X Local Soil Survey Data
Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
F		` ,	Other (Explain in Remarks)
marks: licators of wetland hydrology were observed. The			

SOILS								
Map Unit Na	ne ·		Drainage Class:					
(Series and Pl								
Taxonomy (S			Field Observations					
				Confirm Mapped T	'ype? Yes No			
Profile Descr	iption:				:			
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
				Contrast	Structure, etc.			
0-16	A	10YR 3/2	5YR 4/4	CMP	CL			
Hydric Soil I	ndicators:							
			•					
Histoso	ol		Concretions					
Histic I	Epipedon		High Organic	c Content in Surface I	Layer in Sandy Soils			
Sulfidio			Organic Streaking in Sandy Soils					
Aguic l	Moisture R	egime	Listed on Local Hydric Soils List					
Reduci	ng Conditio	ons	Listed on National Hydric Soils List					
		nroma Colors	Other (Expla	Other (Explain in Remarks)				
Remarks:								
	ators were	observed. This obs	ervation satisfies the	soils criterion.				
11, 4110 11410								
		•						

Hydrophytic Vegetation	Yes	No	Is thi	is Sampling Point With	in a Wetland?
Present? (Circle)	3 7	Νſο	Yes	No (Circle)	
Wetland Hydrology Present?	<u>Yes</u>	No	1 63	140 (Chole)	
Hydric Soils Present?	Yes	No			
Remarks:					,\$
This area satisfies the three crite	eria and is	a wetland.			
		÷			

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus international Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio
	stances exist on the site?	Yes Yes	No	Community ID: Non-wetland
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			No No	Data Point #: 17

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Setaria viridis	Grass	UPL	9.		
2. Fraxinus pensylvanica	Tree	FACW	10.		1
3. Rubus alleghaniensis	Shrub	FACU-	11.		
4. Oxalis stricta	Forb	UPL	12.	-	
5. Apocynum cannabinum	Forb	FACU	13.		
6. Trifolium pratense	Forb	FACU-	14.		
7. Rosa multiflora	Shrub	FACU	15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 14.3%

Remarks

Less than half of the dominant species are hydrophytic. This observation does not satisfy the vegetation criterion.

HYDROLOGY

hydrology criterion.

	Recorded Data (Describe in Remarks):		1	Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge		Ì	Primary Indicators:
	Aerial Photographs			Inundated
1	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available		1	Water Marks
				Drift Lines
Field	Observations:			Sediment Deposits
				Drainage Patterns in Wetlands
l	Depth of Surface Water:	(in.)	Secondary Indicators (2 or more required):
		`	`	Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:	((in.)	Water-Stained Leaves
	2	,	` ′	X Local Soil Survey Data
	Depth to Saturated Soil:	-16 ((in.)	FAC-Neutral Test
	2 - p 10 - 2		` ,	Other (Explain in Remarks)
Rema	rks:			
	cient indicators of wetland hydrology were	not obs	erve	1. This observation does not satisfy the
Juni	orone medicators or moration in an oxogy man			

SUILS					
Map Unit Na	me			Drainage Class:	
(Series and Pl					
Taxonomy (S				Field Observations	
				Confirm Mapped T	Type? Yes No
Profile Descr	iption:				-
	-r				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
((2.22)	(Contrast	Structure, etc.
0-16	Α	10YR 3/2	5YR 4/4	CMP	CL
Hydric Soil I	ndicators:		<u> </u>		
Histoso	<u></u>		Concretions		
Histic H	Epipedon		High Organic	c Content in Surface I	Layer in Sandy Soils
Sulfidio				aking in Sandy Soils	
1	Moisture R	egime		cal Hydric Soils List	
	ng Conditio			tional Hydric Soils L	ist
		roma Colors		in in Remarks)	
Remarks:					
	ators were o	observed. This obse	ervation satisfies the	soils criterion.	
		30001700. 1110000	01 · W/10/1 DW10110D 1110		
			•		
B .					

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle)			
Wetland Hydrology Present?	Yes	<u>No</u>	Yes <u>No</u> (Circle)
Hydric Soils Present?	<u>Yes</u>	No	
Remarks:			
This area satisfies only one of the	ne three co	riteria and	is not a wetland.

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio
Ti .		Yes Yes	No	Community ID: Wetland 11E
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			No No	Data Point #: 18

VEGETATION

I	Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.	Fraxinus pensylvanica	Tree	FACW	9.		
2.	Lysimachia nummularia	Forb	OBL	10.		
3.	Juncus effusus	Sedge	FACW+	11.		
4.				12.		
5.				13.		
6.				14.		
7.				15.		
8.				16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

HYDROLOGY

Recorded Data (Describe in Remark	s):		Wetland Hydrology Indicators:
Stream, Lake, or Tide Gauge	•		Primary Indicators:
Aerial Photographs			Inundated
Other			Saturated in the Upper 12 in.
X No Recorded Data Available			Water Marks
			Drift Lines
Field Observations:			Sediment Deposits
			Drainage Patterns in Wetlands
Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
		,	Oxidized Root Channels in Upper 12 in.
Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
l .		•	X Local Soil Survey Data
Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
			Other (Explain in Remarks)

Indicators of wetland hydrology were observed. This observation satisfies the hydrology criterion.

BOILDS	<u> </u>				
Map Unit Na	me			Drainage Class:	
(Series and P					•
Taxonomy (S			,	Field Observations	
	0 17			Confirm Mapped T	
Profile Descr	iption:				V 1
	-r				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
((1114115011 1110151)		Contrast	Structure, etc.
0-16	A	10YR 3/2	7.5YR 4/6	CMP	Loam
		1011072	7.5110 110	101111	
Hydric Soil I	ndicators	<u> </u>	J		
riyano bon r	naioaioio.				
Histoso	ol		Concretions		
	Epipedon			c Content in Surface	Laver in Sandy Soils
Sulfidio				aking in Sandy Soils	= , - , ₋ ,
	Moisture R	egime		cal Hydric Soils List	
	ng Conditio			tional Hydric Soils L	ist
		roma Colors		nin in Remarks)	
Remarks:	22 20 01		1 Outer (2)Apie		
	ators were	observed. This observed	ervation satisfies the	soils criterion	
l 11, and maior		20001100. 1110 000	or ration dampinos inc	DOILO OLITORIONI	
I					

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle)			
Wetland Hydrology Present?	Yes	No	Yes No (Circle)
Hydric Soils Present?	Yes	No	
D 4			
Remarks:			
•	eria and is	a wetland	
•	eria and is	a wetland	
Remarks: This area satisfies the three crite	eria and is	a wetland	
•	eria and is	a wetland	

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio
5	stances exist on the site?	Yes Yes	No	Community ID: Wetland 11F
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			No No	Data Point #: 18a

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pensylvanica	Tree	FACW	9.		
2. Lysimachia nummularia	Forb	OBL	10.		
3. Juncus effusus	Sedge	FACW+	11.		
4.			12.		
5.			13.	-	
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs			Wetland Hydrology Indicators: Primary Indicators: Inundated
X	Other No Recorded Data Available			Saturated in the Upper 12 in. Water Marks
	No Recorded Data Available			Drift Lines
Field	Observations:			Sediment Deposits
				Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
				Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
				X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
				Other (Explain in Remarks)

BOLLS					
Map Unit Nai	me			Drainage Class:	
(Series and Pl					
Taxonomy (S				Field Observations	
	- 6P)			Confirm Mapped T	
Profile Descri	intion			_ Committed	Jpo. 100 110
TIGING DESCI.	ipuon.				
D 4	** .	1		1:2:3	T
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
				Contrast	Structure, etc.
0-16	A	10YR 3/2	7.5YR 4/6	CMP	Loam
		·	<u> </u>		
4 1 .					
Hydric Soil In	ndicators:				
•					
Histoso	1	· · · · · · · · · · · · · · · · · · ·	Concretions		
	Epipedon	0.00		c Content in Surface I	aver in Sandy Soils
Sulfidio				aking in Sandy Soils	
	Moisture Re	egime		cal Hydric Soils List	
	ng Conditio				o t
		ons iroma Colors		tional Hydric Soils Li	iot
	OI LOW-CI	noma Colors	Unier (Expla	in in Remarks)	
Remarks:				••	
Hydric indica	itors were c	observed. This obse	ervation satisfies the	soils criterion.	
			•		

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is thi	s Sampling Poi	nt Within a We	tland?	
Wetland Hydrology Present?	Yes	No	Yes	No (Circle)			
Hydric Soils Present?	Yes	No		·			
Remarks:							
This area satisfies the three crite	eria and is	a wetland.					

(1987 COE Wetlands Delineation Manual)

Port Columbus International Airport vner: Columbus Municipal Airport Authority Landon McKinney					
Yes	No	Community ID: Wetland 11G			
Yes Yes	No No	Data Point #: 19			
,	Yes	Yes <u>No</u>			

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
Fraxinus pensylvanica	Tree	FACW	9.		
2. Lysimachia nummularia	Forb	OBL	10.		
3. Juncus effusus	Sedge	FACW+	11.		
4.			12.		
5.			13.		
6.			14.		<u> </u>
7.			15.		
8.			16.	<u> </u>	<u> </u>

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

HYDROLOGY

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
				Drift Lines
Field (Observations:			Sediment Deposits
				Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
				Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
	.1			X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
				Other (Explain in Remarks)
Dema	nleo.	.,		Outer (Explain in Remarks)

Indicators of wetland hydrology were observed. This observation satisfies the hydrology criterion.

Map Unit Na	me	<u> </u>		Drainage Class:	7.5				
(Series and P			Ziamage Chabb.						
Taxonomy (S			Field Observations						
	Q - 17).	•		Confirm Mapped T					
Profile Descr	iption:				,				
	•				•				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,				
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,				
				Contrast	Structure, etc.				
0-16	A	10YR 3/2	7.5YR 4/6	CMP	Loam				
	<u> </u>								
	<u> </u>				<u> </u>				
Hydric Soil I	ndicators:								
Histoso	1		Concretions						
li .	n Epipedon		1	c Content in Surface I	aver in Sandy Soils				
Sulfidio				aking in Sandy Soils	Bayor in Sandy Sono				
	Moisture R	egime		cal Hydric Soils List					
	ng Conditio		Listed on National Hydric Soils List Listed on National Hydric Soils List						
		nroma Colors	Other (Explain in Remarks)						
Remarks:			(· · · · · · · · · · · · · · · · · · ·	The same of the sa				
1	ators were	observed. This obse	ervation satisfies the	soils criterion.					

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this Sampling Point Within a Wetland?				
Wetland Hydrology Present?	Yes	No	<u>Yes</u>	No	(Circle)		
Hydric Soils Present?	Yes	No					
Remarks:							
This area satisfies the three crite	ria and is	a wetland.					

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney	Date: 8.8.2006 County: Franklin State: Ohio		
		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 11H Data Point #: 20

VEGETATION

				1
Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
Tree	FACW	9.		
Forb	OBL	10.		
Sedge	FACW+	11.		
		12.		
		13.		
		14.		
		15.		
		16.		<u>]</u>
	Tree Forb	Tree FACW Forb OBL	Tree FACW 9. Forb OBL 10. Sedge FACW+ 11. 12. 13. 14.	Tree FACW 9. Forb OBL 10. Sedge FACW+ 11. 12. 13. 14. 15.

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

HYDROLOGY

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
				Drift Lines
Field (Observations:			Sediment Deposits
				Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
				Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
	_ ,			X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
				Other (Explain in Remarks)
Rema	rks:			

Indicators of wetland hydrology were observed. This observation satisfies the hydrology criterion.

SOILS								
Map Unit Na	me		Drainage Class:					
(Series and P								
Taxonomy (S			Field Observations					
	0 17		Confirm Mapped T	Type? Yes No				
Profile Descr	iption:							
	1							
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
((Contrast	Structure, etc.			
0-16	Α	10YR 3/2	7.5YR 4/6	CMP	Loam			
Hydric Soil I	ndicators:	:						
Histoso	1		Concretions					
	Epipedon			c Content in Surface I	aver in Sandy Soils			
Sulfidio					Say or in Sanay Bons			
li .	Moisture Re	egime	Organic Streaking in Sandy Soils Listed on Local Hydric Soils List					
	ng Condition		Listed on Local Hydric Soils List Listed on National Hydric Soils List					
		roma Colors	Other (Explain in Remarks)					
Remarks:	OI DOW-CI	noma Colora	1 Other (Expla	in in Romana)	·			
	itors were o	observed This obse	ervation satisfies the	soils criterion				
Trydric maiot	itors were t	70301 700. 11113 0030	or various satisfies the	Sons official.				
			•					

Hydrophytic Vegetation Present? (Circle)	<u>Yes</u>	No	Is this Sampling Point Within a Wetland?	
Wetland Hydrology Present?	Yes	No	Yes No (Circle)	
Hydric Soils Present?	<u>Yes</u>	No	· · · · · · · · · · · · · · · · · · ·	
Remarks:				
This area satisfies the three crite	ria and is	a wetland		
•				

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney		Date: 8.8.2006 County: Franklin State: Ohio	
B)	stances exist on the site? tly disturbed (Atypical Situation)?	Yes Yes	No	Community ID: Wetland 11I
Is the area a potenti (If needed, explain	Yes	No No	Data Point #: 21	

VEGETATION

I	Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.	Fraxinus pensylvanica	Tree	FACW	9.		
2.	Lysimachia nummularia	Forb	OBL	10.		
3.	Juncus effusus	Sedge	FACW+	11.		
4.		-		12.		
5.				13.		
6.				14.		
7.				15.		
8.				16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
				Drift Lines
Field O	bservations:			Sediment Deposits
				Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
			, ,	Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
			` ,	X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
	•		` ′	Other (Explain in Remarks)
Remarl	ks:			
Indicat	ors of wetland hydrology were observed.	This obse	rvation	satisfies the hydrology criterion.

SOILS							
Map Unit Name				Drainage Class:			
(Series and P							
Taxonomy (Subgroup):			Field Observations				
Tanonomy (c	P P.).			Confirm Mapped T	ype? Yes No		
Profile Desci	intion:				V.1		
Fiorne Desci	ipuon.						
Double	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,		
Depth	Horizon	II 1	(Munsell Moist)	Abundance/Size/	Concretions,		
(inches)		(Munsell Moist)	(Munsen Moist)	Contrast	Structure, etc.		
0.16	ļ	103770 070	T CVD A/C	CMP	Loam		
0-16	A	10YR 3/2	7.5YR 4/6	CIVIP	Loain		
					ļ		
	·			<u>. </u>			
Hydric Soil	Indicators:						
Histos	ol		Concretions				
Histic	Epipedon			c Content in Surface	Layer in Sandy Soils		
	c Odor			aking in Sandy Soils			
Aguic	Moisture R	egime	Listed on Lo	cal Hydric Soils List			
	ing Condition		Listed on Na	itional Hydric Soils L	ist		
		nroma Colors	Other (Expla	ain in Remarks)			
Remarks:							
	ators were	observed. This obs	ervation satisfies the	soils criterion.			
22, 0210 2220							
1							
			•				

Hydrophytic Vegetation	Yes	No	Is thi	s Sam	pling Point	Within a Wetland?	
Present? (Circle) Wetland Hydrology Present?	<u>Yes</u>	No	<u>Yes</u>	No	(Circle)		
Hydric Soils Present?	Yes	No					
Remarks:							
This area satisfies the three crite	ria and is	a wetland.	•				
This area satisfies the three crite	ria and is	a wetland.					
This area satisfies the three crite	ria and is	a wetland.					

(1987 COE Wetlands Delineation Manual)

Project/Site: Port Columbus Intern Applicant/Owner: Columbus Municipal Investigator: Landon McKinney	
Do Normal Circumstances exist on the site	Yes No Community ID: Wetland 11J
Is the site significantly disturbed (Atypical Is the area a potential Problem Area? (If needed, explain on reverse.)	on)? Yes <u>No</u> Yes <u>No</u> Data Point #: 22

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pensylvanica	Tree	FACW	9.		
2. Lysimachia nummularia	Forb	OBL	10.		
3. Juncus effusus	Sedge	FACW+	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.		-	16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):		Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge		Primary Indicators:
	Aerial Photographs		Inundated
	Other		Saturated in the Upper 12 in.
X	No Recorded Data Available		Water Marks
			Drift Lines
Field (Observations:	Sediment Deposits	
			Drainage Patterns in Wetlands
	Depth of Surface Water:	(in.)	Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 in
	Depth to Free Water in Pit:	(in.)	Water-Stained Leaves
		` '	X Local Soil Survey Data
	Depth to Saturated Soil: >16	(in.)	X FAC-Neutral Test
	2 - P 	()	Other (Explain in Remarks)

BOILB					The state of the s
Map Unit Na	me			Drainage Class:	
(Series and P					
Taxonomy (S				Field Observations	•
i axonomy (c	uogioup).			Confirm Mapped	
				Commin Mahhen	уро: 103 110
Profile Descr	iption:				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)	110112011	(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
(Inches)		(Manager Monte)	(Manbon Moist)	Contrast	Structure, etc.
0.16	<u> </u>	107/0 2/2	7.5VD 4/6	CMP	Loam
0-16	A	10YR 3/2	7.5YR 4/6	CIVIF	Loain
				<u> </u>	
	-		<u> </u>		
Ti-daio Call I	n diagtors:		L	<u> </u>	<u> </u>
Hydric Soil I	naicators:	•			
			·		
Histoso	ol		Concretions	**	
Histic 1	Epipedon		High Organi	c Content in Surface	Layer in Sandy Soils
Sulfidi				aking in Sandy Soils	•
	Moisture R	enime		cal Hydric Soils List	
					ict
	ng Conditio			tional Hydric Soils L	151
	or Low-Cl	roma Colors	Other (Expla	in in Remarks)	
Remarks:					
Hydric indic	ators were	observed. This obse	ervation satisfies the	soils criterion.	•
**				•	
			•		

Hydrophytic Vegetation	Yes	No	Is thi	s Sam	pling Point	Within a Wetland?	
Present? (Circle) Wetland Hydrology Present?	Yes	No	Yes	No	(Circle)		
Hydric Soils Present?	Yes	No					
Remarks:							•
This area satisfies the three crite	ria and is	a wetland.					
						**.	

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio
		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 11K Data Point #: 23

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pensylvanica	Tree	FACW	9.		
2. Lysimachia nummularia	Forb	OBL	10.		
3. Juncus effusus	Sedge	FACW+	11.		
4			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

Recorded Data (Describ	e in Remarks):		Wetland Hydrology Indicators:
Stream, Lake, or	Tide Gauge		Primary Indicators:
Aerial Photograph	ıs		Inundated
Other		1	Saturated in the Upper 12 in.
X No Recorded Data Ava	ilable		Water Marks
			Drift Lines
Field Observations:			Sediment Deposits
			Drainage Patterns in Wetlands
Depth of Surface Water		(in.)	Secondary Indicators (2 or more required):
r		• /	Oxidized Root Channels in Upper 12 in.
Depth to Free Water in	Pit:	(in.)	Water-Stained Leaves
		` ,	X Local Soil Survey Data
Depth to Saturated Soil	; >16	(in.)	X FAC-Neutral Test
		` /	Other (Explain in Remarks)
Remarks:			
H ***	were observed. This obse	rvation	satisfies the hydrology criterion.

BOILB					
Map Unit Naı	ne			Drainage Class:	
(Series and Pl					•
Taxonomy (S				Field Observations	
J (5 17			Confirm Mapped T	ype? Yes No
Profile Descri	iption:				
	•				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
()				Contrast	Structure, etc.
0-16	A	10YR 3/2	7.5YR 4/6	CMP	Loam
Hydric Soil I	ndicators:		L	<u> </u>	<u> </u>
l Trydino Gon II	iidivatoi 3.				
Histoso	.1	<u>.:</u>	Concretions	- Line -	
	n Epipedon			Content in Surface I	aver in Sandy Soils
Sulfidio				aking in Sandy Soils	,
	Moisture Re	agime		cal Hydric Soils List	
	ng Conditio			tional Hydric Soils Li	st
		roma Colors		in in Remarks)	-= -
Remarks:	or bow-CI	noma Colors	Juliot (Explai	II III I (VIIIIIII)	
	tore more	shearwad This above	ervation satisfies the	soils criterion	
riyaric maica	mors were (JOSEI VEGY TIMS ODS	or varion sausmes me	BOILD VITIOLIUIL	
ĺ					
I					

~~	* 7	3 T	Tuli Cumbing Daine Wishing Wetland?
Hydrophytic Vegetation	<u>Yes</u>	No	Is this Sampling Point Within a Wetland?
Present? (Circle)			
Wetland Hydrology Present?	<u>Yes</u>	No	Yes No (Circle)
Hydric Soils Present?	Yes	No	
Remarks:			
This area satisfies the three criter	ia and is	a wetland	•
,			

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney	ity		Date: 8.8.2006 County: Franklin State: Ohio
	stances exist on the site?	Yes	No	Community ID: Wetland 11L
Is the site significar Is the area a potenti (If needed, explain		Yes Yes	No No	Data Point #: 24

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pensylvanica	Tree	FACW	9.		
2. Lysimachia nummularia	Forb	OBL	10.		
3. Juncus effusus	Sedge	FACW+	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		<u> </u>

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

HYDROLOGY

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs	,		Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
7.7				Drift Lines
Field	Observations:			Sediment Deposits
1 10.4	00001.1			Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
			, ,	Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
			` ,	X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
	r		•	Other (Explain in Remarks)
Rema	rks:			

BOILB							
Map Unit Name				Drainage Class:			
(Series and Pl							
Taxonomy (Subgroup):				Field Observations			
Laxonomy (S	uogroup).						
				Confirm Mapped T	ype: Yes No		
Profile Descr	iption:						
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture.		
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/			
(11101105)		(1.14,1501, 1710151)	(1.14110011 1.10101)	Contrast			
0-16	A	10YR 3/2	7.5YR 4/6	CMP			
0-10	Λ	101 K 3/2	1.3 I K 4/0	CIVIF	LUaill		
Hydric Soil I	ndicators:		· · · · · · · · · · · · · · · · · · ·		1-1		
Histoso	1		Concretions				
1				Comtont in Court T	arran in Camalar Cail-		
	Epipedon				Layer in Sandy Soils		
Sulfidio				king in Sandy Soils			
	Moisture Re			al Hydric Soils List			
Reducii	ng Conditio	ons	Listed on Nat	ional Hydric Soils Li	st		
X Gleyed	or Low-Ch	roma Colors	Other (Explai	n in Remarks)			
Remarks:			· · · · · · · · · · · · · · · · · · ·				
	itors were o	bserved. This obse	ervation satisfies the	soils criterion			
	i .						
					ations ped Type? Yes No Texture, Concretions, Structure, etc. Loam face Layer in Sandy Soils Soils List		

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this	s Sam	pling Point W	ithin a \	Wetland?	
Wetland Hydrology Present?	Yes	No	Yes	No	(Circle)			
Hydric Soils Present?	Yes	No						
Remarks:								
This area satisfies the three crite	ria and is	a wetland.						

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney	ity		Date: County: State:	8.8.2006 Franklin Ohio
	stances exist on the site? tly disturbed (Atypical Situation)?	Yes Yes	No <u>No</u>	Communit	ty ID: Wetland 11M
Is the area a potenti (If needed, explain	al Problem Area?	Yes	No	Data Poin	t #: 25

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pensylvanica	Tree	FACW	9.		
2. Lysimachia nummularia	Forb	OBL	10.		
3. Juncus effusus	Sedge	FACW+	11.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u> </u>
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

HYDROLOGY

1111	RODOT	*****		
	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
v	No Recorded Data Available			Water Marks
Λ	140 Recorded Data Available			Drift Lines
Field (Champationa			Sediment Deposits
riela (Observations:			Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
	Depui of Surface water.		(1111)	Oxidized Root Channels in Upper 12 in.
1	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
	Dopur to 1100 water in 11t.		()	X Local Soil Survey Data
1	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
	Depth to Saturated Don.		(****)	Other (Explain in Remarks)
Rema	rks:			

~ ~ ~ ~ ~ ~					
Map Unit Na	me			Drainage Class:	
(Series and P	hase):				
Taxonomy (S				Field Observations	
1 4410110111, (2	uogroup).			Confirm Mapped 7	
Duofile Deser	intini.			Commit wapped	(ype) 1es 140
Profile Descr	ipuon;				
			 	· · · · · · · · · · · · · · · · · · ·	
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
			,	Contrast	Structure, etc.
0-16	Α	10YR 3/2	7.5YR 4/6	CMP	Loam
				01.11	

TT 1 . G !! T					<u> </u>
Hydric Soil I	ndicators:				
Histoso	1		Concretions		
Histic E	Epipedon		High Organic	Content in Surface I	Layer in Sandy Soils
Sulfidio				king in Sandy Soils	
Aquic N	Moisture Re	eoime		cal Hydric Soils List	
	ng Condition			tional Hydric Soils Li	ict
		roma Colors			ısı
	OI LOW-CII	IOIIIa COIOIS	Other (Explai	in in Remarks)	
Remarks:					•
Hydric indica	itors were o	bserved. This obse	ervation satisfies the	soils criterion.	
-					
		*			6.7
	-				
,		•			
1				4	

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this Sampling Point Within a Wetland?
Wetland Hydrology Present?	Yes	No	Yes No (Circle)
Hydric Soils Present?	Yes	No	
Remarks:			
This area satisfies the three crite	ria and is	a wetland.	

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio
		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 11N Data Point #: 26

VEGETATION

I	Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.	Fraxinus pensylvanica	Tree	FACW	9.		
2.	Lysimachia nummularia	Forb	OBL	10.		
3.	Juncus effusus	Sedge	FACW+	11.		
4.				12.		
5.				13.		
6.				14.		
7.				15.		<u> </u>
8.				16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

HYDROLOGY

Recorded Data (Describe in Remarks)			Wetland Hydrology Indicators:
Stream, Lake, or Tide Gauge			Primary Indicators:
Aerial Photographs			Inundated
Other			Saturated in the Upper 12 in.
X No Recorded Data Available			Water Marks
			Drift Lines
Field Observations:			Sediment Deposits
Tiola Coppi various.			Drainage Patterns in Wetlands
Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
Sopin of Sacrace		` ,	Oxidized Root Channels in Upper 12 in.
Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
Departe And There is a second		` '/	X Local Soil Survey Data
Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
Dopar to batarated bott.		·/	Other (Explain in Remarks)

SOLDS							
Map Unit Na	me		Drainage Class:				
(Series and P					*		
Taxonomy (S				Field Observations			
Lanonomy (D	acgioup).			Confirm Mapped T	'vpe? Yes No		
Duofile Desar	intion			Commin mapped 1	Jpc. 103 130		
Profile Descr	триоп:						
	·				 		
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,		
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,		
٠.			·	Contrast	Structure, etc.		
0-16	Α	10YR 3/2	7.5YR 4/6	CMP	Loam		
	1						
Hydric Soil I	ndicators:		· .				
•							
Histoso	1		Concretions				
	: Epipedon			Content in Surface I	aver in Sandy Soils		
Sulfidio				king in Sandy Soils	ayor iii banuy bons		
1							
	Moisture Re			al Hydric Soils List			
	ng Conditio			ional Hydric Soils Li	st		
X Gleyed	or Low-Ch	roma Colors	Other (Explai	n in Remarks)			
Remarks:							
Hydric indica	itors were c	observed. This obse	ervation satisfies the	soils criterion.			
				•			

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this Sampling Point Within a Wetland?						
Wetland Hydrology Present?	Yes	No	Yes	No	(Circle	·)			
Hydric Soils Present?	<u>Yes</u>	No				····		 	
Remarks:									
This area patisfies the three orito	ria and ic	a watland							
This area satisfies the three crite	ria and is	a wetland.							
This area satisfies the three crite	eria and is	a wetland.							
This area satisfies the three crite	eria and is	a wetland.							
This area satisfies the three crite	eria and is	a wetland.							

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney	Date: 8.8.2006 County: Franklin State: Ohio		
		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 110 Data Point #: 27

VEGETATION

Dominant Plant Species Stratun		nt Plant Species Stratum Indicator Dom		Stratum	Indicator
1. Fraxinus pensylvanica	Tree	FACW	9.		
2. Lysimachia nummularia	Forb	OBL	10.	·	
3. Juncus effusus	Sedge	FACW+	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
				Drift Lines
Field (Observations:			Sediment Deposits
				Drainage Patterns in Wetlands
	Depth of Surface Water:	•	(in.)	Secondary Indicators (2 or more required):
	• .			Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
	•			X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
				Other (Explain in Remarks)
Rema	rks:			
Indica	tors of wetland hydrology were observed.	This obse	rvation	satisfies the hydrology criterion.

SOILS								
Map Unit Na	me		Drainage Class:					
(Series and Pl								
Taxonomy (S			Field Observations					
, ,				Confirm Mapped T	ype? Yes No			
Profile Descr	iption:							
75 11	77	Note: Calar	Mottle Colors	Mottle	Texture,			
Depth	Horizon	Matrix Color	l .	Abundance/Size/	Concretions,			
(inches)		(Munsell Moist)	(Munsell Moist)	Contrast	Structure, etc.			
0.16		1037D 2/0	7 EVD 4/6	CMP	Loam			
0-16	Α	10YR 3/2	7.5YR 4/6	CIVIP	LUaiii			
Hydric Soil I	ndicators:		e e e					
Histosc	.1		Concretions					
	n Epipedon			Content in Surface I	laver in Sandy Soils			
Sulfidio			High Organic Content in Surface Layer in Sandy Soils Organic Streaking in Sandy Soils					
	Moisture R	enime	Listed on Loc	cal Hydric Soils List				
	ng Condition			tional Hydric Soils List				
		roma Colors		ain in Remarks)				
	of Low-Ci	HOIHA COIOIS	Other (Expla	III III (Ciliarks)	7			
Remarks:		-bd This abo	amustian satisfies the	soils oritorion				
Hydric maic	ators were	observed. This dos	ervation satisfies the	Solis Criterion.				

Hydrophytic Vegetation	<u>Yes</u>	No	Is this Sampling Point Within a Wetland?			
Present? (Circle) Wetland Hydrology Present?	Yes	No	Yes	No	(Circle)	
Hydric Soils Present?	Yes	No				
Remarks:						
This area satisfies the three crite	ria and is	a wetland.				

(1987 COE Wetlands Delineation Manual)

Project/Site: Port Columbus International Airport Applicant/Owner: Columbus Municipal Airport Authority				Date: 8.8.2006 County: Franklin
Investigator:	Landon McKinney	State: Ohio		
1	Do Normal Circumstances exist on the site?			Community ID: Wetland 11P
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area?			No No	Data Point #: 28
(If needed, explain	on reverse.)			

VEGETATION

			Laborator average,		T
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pensylvanica	Tree	FACW	9.		
2. Lysimachia nummularia	Forb	OBL	10.		
3. Juncus effusus	Sedge	FACW+	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		. :
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other			Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks Drift Lines
Field (Observations:			Sediment Deposits Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
	Depth to Saturated Soil:	>16	(in.)	X Local Soil Survey Data X FAC-Neutral Test Other (Explain in Remarks)

BOILD								
Map Unit Na	me		Drainage Class:					
(Series and P								
Taxonomy (S			Field Observations	Field Observations				
Lanonomy (C	aceroup).			Confirm Mapped T				
Des file Desar	intion			Committeeppod 1	750. 100 1,0			
Profile Descr	триоп:							
	·		·		T			
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
				Contrast	Structure, etc.			
0-16	A	10YR 3/2	7.5YR 4/6	CMP	Loam			
		<u> </u>						
	1	<u> </u>	<u> </u>		<u> </u>			
Hydric Soil I	ndicators:							
Histoso	ol		Concretions					
Histic I	Epipedon		High Organi	c Content in Surface 1	Layer in Sandy Soils			
Sulfidio			Organic Streaking in Sandy Soils					
	Moisture R	egime	Listed on Local Hydric Soils List					
	ng Conditio		Listed on National Hydric Soils List					
		nroma Colors		Other (Explain in Remarks)				
	or Low-Ci	Ifolia Colors	Other (Expla	ill ill Kelliaiks)				
Remarks:	-			.,	4 .			
Hydric indica	ators were	observed. This obs	ervation satisties the	soils criterion.				
ļ								
1								

TY AND	1222201	<u>'</u>	
Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle)			
Wetland Hydrology Present?	<u>Yes</u>	No	Yes No (Circle)
Hydric Soils Present?	Yes	No	
Remarks:			
This area satisfies the three crite	eria and is	a wetland	ıd.
i e			

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio
	stances exist on the site?	Yes Yes	No	Community ID: Wetland 11Q
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			No No	Data Point #: 29

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pensylvanica	Tree	FACW	9.		
2. Lysimachia nummularia	Forb	OBL	10.		
3. Juncus effusus	Sedge	FACW+	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		<u> </u>

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

HYDROLOGY

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge		1	Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
				Drift Lines
Field (Observations:			Sediment Deposits
				Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
	-			Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
				X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
	•			Other (Explain in Remarks)
Rema	rks.			

SOILS								
Map Unit Nai	me		Drainage Class:					
(Series and Pl								
Taxonomy (S				Field Observations				
Tunonomy (S	uogroup).			Confirm Mapped T				
Profile Descr	intion			1 Committe Mapped X	<u> </u>			
Prome Descri	iption.		•					
					T =			
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
				Contrast	Structure, etc.			
0-16	Α	10YR 3/2	7.5YR 4/6	CMP	Loam			
	,							
				 				
Hydric Soil II	ndicators	<u></u>	<u> </u>	<u></u>				
Trydric 5011 11	naicators.							
Histoso	1		Concretions					
			Concretions High Organic Content in Surface Layer in Sandy Soils					
	Epipedon				Layer in Sandy Soils			
Sulfidio			Organic Streaking in Sandy Soils					
	Moisture Re		Listed on Local Hydric Soils List					
Reducii	ng Conditio	ons	Listed on National Hydric Soils List					
X Gleyed	or Low-Ch	roma Colors	Other (Expla	Other (Explain in Remarks)				
Remarks:								
Hydric indica	itors were o	observed. This obse	ervation satisfies the	soils criterion.				
•								
				•				
R								

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle) Wetland Hydrology Present? Hydric Soils Present?	Yes Vas	No No	Yes No (Circle)
Remarks:	<u>Yes</u>	140	
	ria and is	a wetland.	
	eria and is	a wetland.	
	eria and is	a wetland.	
This area satisfies the three crite	eria and is	a wetland.	

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner:	Port Columbus International Airport Columbus Municipal Airport Author	Date: 8.8.2006 County: Franklin		
Investigator:	Landon McKinney			State: Ohio
	stances exist on the site?	Yes Yes	No <u>No</u>	Community ID: Wetland 11R
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			No	Data Point #: 30

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pensylvanica	Tree	FACW	9.		
2. Lysimachia nummularia	Forb	OBL	10.		
3. Juncus effusus	Sedge	FACW+	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
				Drift Lines
Field O	Observations:			Sediment Deposits
				Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
	•			Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
				X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
	•			Other (Explain in Remarks)
Remar	ks:			
Indicat	ors of wetland hydrology were observed.	This obse	rvation:	satisfies the hydrology criterion.

POITS						
Map Unit Nar	ne			Drainage Class:		
(Series and Pl						
Taxonomy (S			Field Observations			
			Confirm Mapped T	ype? Yes No		
Profile Descri	iption:					
		<u> </u>				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,	
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,	
				Contrast	Structure, etc.	
0-16	A	10YR 3/2	7.5YR 4/6	CMP	Loam	
-						
			1			
Hydric Soil It	ndicators:					
Histoso			Concretions			
	Epipedon			Content in Surface I	Layer in Sandy Soils	
Sulfidio				aking in Sandy Soils		
	Moisture Re			cal Hydric Soils List		
	ng Conditio			tional Hydric Soils L	ist	
	or Low-Ch	roma Colors	Other (Explan	in in Remarks)		
Remarks:						
Hydric indica	itors were c	observed. This obse	ervation satisfies the	soils criterion.		
			•			
	•					
			· · · · · · · · · · · · · · · · · · ·			
1						

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this	Samp	pling Poi	int With	in a V	Vetlan	d?	
Wetland Hydrology Present? Hydric Soils Present?	Yes Yes	No No	Yes	No	(Circle)					
_ T	1 03	140								
Remarks:										•
	ria and is	s a wetland.			•					•
	ria and is	a wetland.			•					•
	ria and is	a wetland.			· .					
	ria and is	s a wetland.								
Remarks: This area satisfies the three crite	ria and is	s a wetland.								

(1987 COE Wetlands Delineation Manual)

Project/Site:	Port Columbus International Airport	Date: 8.8.2006 County: Franklin		
Applicant/Owner:	Columbus Municipal Airport Author	rity		1
Investigator:	Landon McKinney	State: Ohio		
		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 11S Data Point #: 31

VEGETATION

I	Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.	Fraxinus pensylvanica	Tree	FACW	9.		
2.	Lysimachia nummularia	Forb	OBL	10.		
3.	Juncus effusus	Sedge	FACW+	11.		
4.				12.		
5.				13.		
6.				14.		
7.				15.		
8.				16.]

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
				Drift Lines
Field (Observations:			Sediment Deposits
				Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
				Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
	•			X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
			` ′	Other (Explain in Remarks)
Remai	rks:			
Indica	tors of wetland hydrology were observed.	This obse	rvation	satisfies the hydrology criterion.

SOILS						
Map Unit Na	me	*		Drainage Class:		
(Series and Pl						
Taxonomy (S			Field Observations			
				Confirm Mapped T	ype? Yes No	
Profile Descr	intion:					
1 TOTHE BESSET	iption.					
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,	
(inches)	110112011	(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,	
(menes)		(IVIUIISCII IVIOISL)	(IVIUIISCII IVIOISC)	Contrast	Structure, etc.	
0-16	A	10YR 3/2	7.5YR 4/6	CMP	Loam	
0-10	A	10110 3/2	7.51K4/0	Civil	Doun	
Hydric Soil I	ndicators:	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Tryunc Son i	nuicaiors.					
Histoso	1		Concretions			
B	Epipedon			Content in Surface l	Laver in Sandy Soils	
Sulfidio				aking in Sandy Soils	Day or m. Danay Dozza	
	Moisture Re	egime		cal Hydric Soils List		
	ng Condition			tional Hydric Soils L	ict	
				in in Remarks)	151	
	or Low-Cr	roma Colors	Other (Expla	III III Kemarks)		
Remarks:		1		anila auitanian		
Hydric indica	ators were o	observed. Inis obs	ervation satisfies the	sons criterion.		
				*.		
		*				

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?	
Present? (Circle)				
Wetland Hydrology Present?	Yes	No	Yes No (Circle)	
Hydric Soils Present?	Yes	No		
Remarks:				
This area satisfies the three crite	eria and is	a wetland.		

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner:	Port Columbus International Airport Columbus Municipal Airport Author	Date: 8.8.2006 County: Franklin		
Investigator:	Landon McKinney	State: Ohio		
H.		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 11T Data Point #: 32

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pensylvanica	Tree	FACW	9.		
2. Lysimachia nummularia	Forb	OBL	10.		
3. Juncus effusus	Sedge	FACW+	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

HYDROLOGY

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
 				Drift Lines
Field (Observations:			Sediment Deposits
				Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
1	•			Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
	•			X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
			. ,	Other (Explain in Remarks)
Remai	rks:			

SOILS								
Map Unit Na	me			Drainage Class:				
(Series and Pl								
Taxonomy (S	ubgroup):			Field Observations				
				Confirm Mapped T	ype? Yes No			
Profile Descr	iption:							
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
	'		,	Contrast	Structure, etc.			
0-16	Α	10YR 3/2	7.5YR 4/6	CMP	Loam			
			·					
Hydric Soil I	ndicators:							
Histoso	1		Concretions					
Histic I	Epipedon		High Organic	Content in Surface I	Layer in Sandy Soils			
Sulfidio			Organic Stream	aking in Sandy Soils				
Aquic I	Moisture R	egime		cal Hydric Soils List				
	ng Conditio			tional Hydric Soils L	ist			
X Gleyed	or Low-Ch	roma Colors	Other (Explain in Remarks)					
Remarks:					5 6 4 7			
Hydric indica	ators were	observed. This observed	ervation satisfies the	soils criterion.				
		• .						
I								

Hydrophytic Vegetation	Yes	No	Is thi	s Sam	pling Point	Within a Wetland?
Present? (Circle)						
Wetland Hydrology Present?	Yes	No	<u>Yes</u>	No	(Circle)	
Hydric Soils Present?	Yes	No				
Remarks:						
This area satisfies the three crite	ria and is	s a wetland.				
						•

(1987 COE Wetlands Delineation Manual)

Project/Site:	Port Columbus International Airport			Date: 8.8.2006
Applicant/Owner:	Owner: Columbus Municipal Airport Authority			County: Franklin
Investigator:	Landon McKinney	State: Ohio		
Do Normal Circums	stances exist on the site?	<u>Yes</u>	No	Community ID: Wetland 11U
Is the site significan	tly disturbed (Atypical Situation)?	Yes	No	
Is the area a potenti	Is the area a potential Problem Area?			Data Point #: 33
(If needed, explain	on reverse.)			

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pensylvanica	Tree	FACW	9.		
2. Lysimachia nummularia	Forb	OBL	10.		
3. Juncus effusus	Sedge	FACW+	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
				Drift Lines
Field (Observations:			Sediment Deposits
				Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
				Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
	•			X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
	*			Other (Explain in Remarks)

SOILS								
Map Unit Na	ne			Drainage Class:				
(Series and Pl								
Taxonomy (S				Field Observations				
				Confirm Mapped T	ype? Yes No			
Profile Descr	iption:							
	•							
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
`	÷			Contrast	Structure, etc.			
0-16	Α	10YR 3/2	7.5YR 4/6	CMP	Loam			
Hydric Soil I	ndicators:	<u> </u>						
,			•					
Histoso	ol .		Concretions					
	Epipedon		High Organic	Content in Surface	Layer in Sandy Soils			
Sulfidio		,	Organic Streaking in Sandy Soils					
Aquic I	Moisture R	egime	Listed on Local Hydric Soils List					
Reduci	ng Conditio	ons		tional Hydric Soils L	ist			
		roma Colors	Other (Expla	in in Remarks)				
Remarks:								
Hydric indica	ators were	observed. This observed	ervation satisfies the	soils criterion.				
			· ·					
					•			
·								

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this Sam	pling Point W	ithin a Wetland?	
Wetland Hydrology Present?	Yes	No	<u>Yes</u> No	(Circle)		
Hydric Soils Present?	Yes	. No	*.			
Remarks:						
Remarks: This area satisfies the three crite	ria and is	a wetland.				
	ria and is	a wetland.				
	eria and is	a wetland.				
	eria and is	a wetland.				

(1987 COE Wetlands Delineation Manual)

Project/Site: Port Columbus International Airport Applicant/Owner: Columbus Municipal Airport Authori Investigator: Landon McKinney				Date: 8.8.2006 County: Franklin State: Ohio
		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 11V Data Point #: 34

VEGETATION

Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
Tree	FACW	9.		
Forb	OBL	10.		
Sedge	FACW+	11.		
		12.		
		13.		
		14.		
		15.		
		16.		
	Tree Forb	Tree FACW Forb OBL	Tree FACW 9. Forb OBL 10. Sedge FACW+ 11. 12. 13. 14. 15.	Tree FACW 9. Forb OBL 10. Sedge FACW+ 11.

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

HYDROLOGY

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:	
	Stream, Lake, or Tide Gauge		.	Primary Indicators:	
	Aerial Photographs			Inundated	
	Other			Saturated in the Upper 12 in.	
X	No Recorded Data Available			Water Marks	
				Drift Lines	
Field (Observations:			Sediment Deposits	
				Drainage Patterns in Wetlands	
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):	
			` '	Oxidized Root Channels in Upper 12 in.	
	Depth to Free Water in Pit:		(in.)) Water-Stained Leaves	
	•			X Local Soil Survey Data	
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test	
			` '	Other (Explain in Remarks)	
Remai	rks.				

Map Unit Na				Drainage Class:	- 100 m		
(Series and Phase): Taxonomy (Subgroup):				Field Observations Confirm Mapped Type? Yes No			
Profile Descr	iption:						
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.		
0-16	A	10YR 3/2	7.5YR 4/6	CMP	Loam		
Hydric Soil I	ndicators:		<u> </u>				
riyuric bon n	nuicators.						
Sulfidio Aquic N Reducii X Gleyed	Epipedon COdor Moisture Reng Condition		Organic Stre Listed on Lo Listed on Na	c Content in Surface l aking in Sandy Soils cal Hydric Soils List tional Hydric Soils L in in Remarks)			
Remarks:	otors were c	observed. This obse	ervation satisfies the	soils criterion			
Trydric maica	nors were c	Justived. This dos	Si vation satisfies the	Sons enterion.			

Hydrophytic Vegetation	Yes	No	Is this	Sam	pling Poir	t With	in a W	etlan-	d?	
Present? (Circle)										
Wetland Hydrology Present?	<u>Yes</u>	No	<u>Yes</u>	No	(Circle)					
Hydric Soils Present?	<u>Yes</u>	No								
Remarks:										
This area satisfies the three crite	eria and is	a wetland.								
		*								
* *										
•								•		

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: County: State:	8.8.2006 Franklin Ohio
Do Normal Circum	stances exist on the site?	Yes Yes	No	Communit	y ID: Wetland 11W
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			No No	Data Point	t #: 35

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pensylvanica	Tree	FACW	9.		
2. Lysimachia nummularia	Forb	OBL	10.		
3. Juncus effusus	Sedge	FACW+	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.	<u> </u>	

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
Stream, Lake, or Tide Gauge		İ	Primary Indicators:
Aerial Photographs			Inundated
Other			Saturated in the Upper 12 in.
X No Recorded Data Available			Water Marks
			Drift Lines
Field Observations:			Sediment Deposits
			Drainage Patterns in Wetlands
Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
			Oxidized Root Channels in Upper 12 in.
Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
•			X Local Soil Survey Data
Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
		, ,	Other (Explain in Remarks)

SOILS					
Map Unit Na	me			Drainage Class:	
(Series and Pl					
Taxonomy (S	,			Field Observations	
, , , , , , , , , , , , , , , , , , , ,	5 17			Confirm Mapped T	Type? Yes No
Profile Descr	intion:			<u> </u>	
Trome Beser	·p······				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)	11011111	(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
(menee)			(**************************************	Contrast	Structure, etc.
0-16	A	10YR 3/2	7.5YR 4/6	CMP	Loam
	1				
Hydric Soil I	ndicators:		4		
Histoso	i		Concretions		
Histic F	Epipedon		High Organic	Content in Surface I	Layer in Sandy Soils
Sulfidio			Organic Strea	aking in Sandy Soils	
Aguic I	Moisture Re	egime		cal Hydric Soils List	
	ng Conditio		Listed on Na	tional Hydric Soils L	ist
		roma Colors		in in Remarks)	
Remarks:			<u> </u>		
Hydric indica	ators were o	bserved. This obse	ervation satisfies the	soils criterion.	•

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this Sampling Point Within a Wetland?
Wetland Hydrology Present?	Yes	No	Yes No (Circle)
Hydric Soils Present?	<u>Yes</u>	No	
Remarks:			
This area satisfies the three crite	ria and is	a wetland.	

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio
		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 11X Data Point #: 36

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pensylvanica	Tree	FACW	9.		
2. Lysimachia nummularia	Forb	OBL	10.		
3. Juncus effusus	Sedge	FACW+	11.		
4.			12.		
5.			13.		
6.			14.		<u> </u>
7.			15.		<u> </u>
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

HYDROLOGY

Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
Stream, Lake, or Tide Gauge			Primary Indicators:
Aerial Photographs			Inundated
Other			Saturated in the Upper 12 in.
X No Recorded Data Available			Water Marks
			Drift Lines
Field Observations:			Sediment Deposits
			Drainage Patterns in Wetlands
Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
•		, ,	Oxidized Root Channels in Upper 12 in.
Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
•		` ,	X Local Soil Survey Data
Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
•		. ,	Other (Explain in Remarks)
Remarks:			

SOILS									
Map Unit Na	me			Drainage Class:					
(Series and Pl	hase):			*					
Taxonomy (S	ubgroup):			Field Observations					
				Confirm Mapped T	ype? Yes No				
Profile Descr	iption:								
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,				
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,				
				Contrast	Structure, etc.				
0-16	A	10YR 3/2	7.5YR 4/6	CMP	Loam				
			:						
		·							
					-				
Hydric Soil I	ndicators:								
Histoso	ol		Concretions						
Histic I	Epipedon			c Content in Surface l	Layer in Sandy Soils				
Sulfidio				aking in Sandy Soils					
Aquic I	Moisture R	egime		Listed on Local Hydric Soils List					
Reduci	ng Conditio	ons		tional Hydric Soils L	ist				
X Gleyed	or Low-Cl	roma Colors	Other (Expla	ain in Remarks)					
Remarks:									
Hydric indica	ators were	observed. This obs	ervation satisfies the	soils criterion.					
			• *						
9									

Hydrophytic Vegetation	<u>Yes</u>	No	Is thi	s Sam	npling Point Within a Wetland	?
Present? (Circle)					*	
Wetland Hydrology Present?	<u>Yes</u>	No	<u>Yes</u>	No	(Circle)	
Hydric Soils Present?	Yes	No			· .	
Remarks:						
This area satisfies the three crite	ria and is	a wetland.				
			÷			

(1987 COE Wetlands Delineation Manual)

Project/Site: Port Columbus International Airport Applicant/Owner: Columbus Municipal Airport Authority Investigator: Landon McKinney				Date: 8.8.2006 County: Franklin State: Ohio
	stances exist on the site? htly disturbed (Atypical Situation)?	Yes Yes	No No	Community ID: Wetland 11Y
Is the area a potenti (If needed, explain	al Problem Area?	Yes	No No	Data Point #: 37

VEGETATION

Dominant Plant Species Stratum		ninant Plant Species Stratum Indicator D		Stratum	Indicator
1. Fraxinus pensylvanica	Tree	FACW	9.		
2. Lysimachia nummularia	Forb	OBL	10.		
3. Juncus effusus	Sedge	FACW+	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

HYDROLOGY

Recorded Data (Describe in Remarks)):		Wetland Hydrology Indicators:
Stream, Lake, or Tide Gauge			Primary Indicators:
Aerial Photographs			Inundated
Other			Saturated in the Upper 12 in.
X No Recorded Data Available			Water Marks
			Drift Lines
Field Observations:			Sediment Deposits
			Drainage Patterns in Wetlands
Depth of Surface Water:	*	(in.)	Secondary Indicators (2 or more required):
F		` ,	Oxidized Root Channels in Upper 12 in.
Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
			X Local Soil Survey Data
Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
1		. ,	Other (Explain in Remarks)

SOILS							
Map Unit Na	me		Drainage Class:				
(Series and Pl							
Taxonomy (S			Field Observations	·			
1 mionom) (2008, 604).				Confirm Mapped T	ype? Yes No		
Profile Descr	intion:				<u> </u>		
Troine Beser	iption.						
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,		
(inches)	110.100	(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,		
(mones)		(Intambon Money)	(1114115011 1110150)	Contrast	Structure, etc.		
0-16	A	10YR 3/2	7.5YR 4/6	CMP	Loam		
Hydric Soil I	ndicators:						
,							
Histoso	ı		Concretions				
Histic I	Epipedon		High Organi	c Content in Surface 1	Layer in Sandy Soils		
Sulfidio				aking in Sandy Soils			
	Moisture R	egime		cal Hydric Soils List			
	ng Conditio			tional Hydric Soils L	ist		
		nroma Colors		in in Remarks)			
Remarks:			1	· · · · · · · · · · · · · · · · · · ·			
	ators were	observed. This obse	ervation satisfies the	soils criterion.			
11, 41.10							
İ			Ł.				
И		*	The second secon				

Hydrophytic Vegetation Yes No Is this Sampling Point Within a Wetland?							
Present? (Circle)							
Wetland Hydrology Present?	<u>Yes</u>	No	<u>Yes</u>	No (Circ	cle)		
Hydric Soils Present?	Yes	No					
Remarks:	-						
This area satisfies the three crite	eria and is	a wetland	l.				
This area satisfies the three crite	eria and is	a wetland	!.				
This area satisfies the three crite	eria and is	a wetland	l.				
This area satisfies the three crite	eria and is	a wetland	l.				

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Date: 8.8.2006 County: Franklin State: Ohio			
	stances exist on the site?	Yes Yes	No	Community ID: Wetland 11Z
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area?			<u>No</u> <u>No</u>	Data Point #: 38
Is the area a potenti (If needed, explain		Yes	<u>1NO</u>	Data Point #. 38

VEGETATION

yes	/************************************	T 44		0	7 1' 4
Dominant Plant Species Stratum Indicator		Dominant Plant Species	Stratum	Indicator	
1. Fraxinus pensylvanica	Tree	FACW	9.		
2. Lysimachia nummularia	Forb	OBL	10.		
3. Juncus effusus	Sedge	FACW+	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		<u> </u>

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
, , ,				Drift Lines
Field O	bservations:			Sediment Deposits
1 1010 0				Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
			` ,	Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
			` /	X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
	2 - P		()	Other (Explain in Remarks)
Remark	S:			
	ors of wetland hydrology were observed.	This obse	rvation	satisfies the hydrology criterion.

				Drainage Class:				
	Series and Phase):							
Taxonomy (Subgroup):				Field Observations				
Taxonomy (Subgroup).			Confirm Mapped T					
Duo Cla Desser	intion			1 Commin Mapped 1	Jpo. 105 110			
Profile Descr	ipuon:				•			
		,		· · · · · · · · · · · · · · · · · · ·	,			
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
` ´	-			Contrast	Structure, etc.			
0-16	A	10YR 3/2	7.5YR 4/6	CMP	Loam			
					,			
Hydric Soil I	ndicators:	***************************************						
Histoso	1		Concretions					
	Epipedon			Content in Surface I	aver in Sandy Soils			
Sulfidio				aking in Sandy Soils	Say of III Duridy Dollo			
		in		cal Hydric Soils List				
	Moisture Re							
	ng Conditio			Listed on National Hydric Soils List				
X Gleyed	or Low-Ch	roma Colors	Other (Expla	in in Remarks)				
Remarks:		•						
Hydric indica	tors were o	observed. This obse	ervation satisfies the	soils criterion.	•			
		•						
,								

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this Sampling Point Within a Wetland?					
Wetland Hydrology Present?	Yes	No	Yes	No (Circl	e)			
Hydric Soils Present?	Yes	No						
Remarks:				, ,				
This area satisfies the three crite	ria and is	a wetland.						

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus international Airport Columbus Municipal Airport Author Landon McKinney	ity		Date: 8.8.2006 County: Franklin State: Ohio
	stances exist on the site?	Yes	No	Community ID: Non-wetland
Is the site significant Is the area a potenti (If needed, explain		Yes Yes	No No	Data Point #: 39

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Setaria viridis	Grass	UPL	9.		
2.			10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.]

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 0%

Remarks:

Less than half of the dominant species are hydrophytic. This observation does not satisfy the vegetation criterion.

HYDROLOGY

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
\mathbf{X}	No Recorded Data Available			Water Marks
				Drift Lines
Field (Observations:			Sediment Deposits
				Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
	,		, ,	Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
	•			Local Soil Survey Data
	Depth to Saturated Soil:	>20	(in.)	FAC-Neutral Test
				Other (Explain in Remarks)

Sufficient indicators of wetland hydrology were not observed. This observation does not satisfy the hydrology criterion.

SOTTS

SOILS					
Map Unit Na				Drainage Class:	
(Series and P					
Taxonomy (S	Subgroup):			Field Observations	
				Confirm Mapped T	Type? Yes No
Profile Descr	iption:			i	
	•				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
, (`	Contrast	Structure, etc.
0-20	A	10YR 4/3			Loam
	<u> </u>				
Hydric Soil I	ndicators:		·	<u></u>	
l injuite son i					
Histoso	ol .		Concretions		
9	Epipedon		High Organi	c Content in Surface	Layer in Sandy Soils
	c Odor			aking in Sandy Soils	
	Moisture R	egime		cal Hydric Soils List	
	ng Condition			tional Hydric Soils L	ist
		roma Colors		in in Remarks)	
Remarks:	OI DOW-CI	HOIR COLORS	1 Chief (Expir		
	ators were t	not observed. This	observation does no	t satisfy the soils crite	erion.
11yun te muie	aiors word i	iot obsolvou. Tills	observation does no	country and bond office	
					•
1					

WETLAND DETERMINATION

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle) Wetland Hydrology Present?	Yes	No	Yes No (Circle)
Hydric Soils Present?	Yes	No	
Remarks:			

This area satisfies none of the three criteria and is not a wetland.

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: County: State:	8.8.2006 Franklin Ohio
Do Normal Circum	stances exist on the site? atly disturbed (Atypical Situation)? al Problem Area?	Yes Yes Yes	No <u>No</u> <u>No</u>		ity ID: Wetland 12A

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Scirpus cyperinus	Sedge	FACW+	9.		
2. Juncus effusus	Sedge	FACW+	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		<u> </u>

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available		ļ	Water Marks
				Drift Lines
ield (Observations:			Sediment Deposits
				Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
				Oxidized Root Channels in Upper 12 in
	Depth to Free Water in Pit:		(in.)	X Water-Stained Leaves
	•			X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
	•			Other (Explain in Remarks)

POTTO					
Map Unit Na	me			Drainage Class:	
(Series and P.	hase):				
Taxonomy (S				Field Observations	
	5 17			Confirm Mapped T	Type? Yes No
Profile Descr	intion:			· · · · · · · · · · · · · · · · · · ·	. <u></u>
1 TOTHE DESCR	iption.				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
	Horizon	(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
(inches)		(Munsell Moist)	(Mulisell Moist)	Contrast	Structure, etc.
0.16		10370 272	7.5YR 4/6	CMP	CL
0-16	A	10YR 3/2	7.5 Y K 4/6	CIVIP	CL
-					
·					
	L	<u></u>		<u> </u>	
Hydric Soil I	ndicators:				
Histoso			Concretions		
Histic I	Epipedon			c Content in Surface I	Layer in Sandy Soils
Sulfidio	c Odor			aking in Sandy Soils	
Aguic 1	Moisture R	egime	Listed on Lo	cal Hydric Soils List	
Reduci	ng Conditio	ons	Listed on Na	tional Hydric Soils L	ist
		nroma Colors	Other (Expla	in in Remarks)	
Remarks:					
	ators were	observed. This obse	ervation satisfies the	soils criterion.	
l 11) al 10 maior					
1		•			

WETLAND DETERMINATION

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle)			
Wetland Hydrology Present?	Yes	No	Yes No (Circle)
Hydric Soils Present?	Yes	No	
75 1			
Remarks:			
	eria and is	a wetland	
	eria and is	a wetland	
Remarks: This area satisfies the three crite	eria and is	a wetland	
The first of the contract of t	eria and is	a wetland	
The first of the contract of t	eria and is	a wetland	

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio
	stances exist on the site? ttly disturbed (Atypical Situation)?	Yes Yes	No <u>No</u>	Community ID: Wetland 12B
Is the area a potenti (If needed, explain	al Problem Area?	Yes	No	Data Point #: 41

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Scirpus cyperinus	Sedge	FACW+	9.		
2. Juncus effusus	Sedge	FACW+	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		<u> </u>

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
1	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
				Drift Lines
Field	Observations:			Sediment Deposits
				Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
	F		, ,	Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	X Water-Stained Leaves
	- · F ··································		` /	X Local Soil Survey Data
1	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
	· · · · · · · · · · · · · · · · · · ·		` ,	Other (Explain in Remarks)
Rema	rks:			
	ators of wetland hydrology were observed.	This obse	rvation	satisfies the hydrology criterion.
muica	nois of welland flydrology were observed.	11113 0030	1 + 1111011	addition are injure to by

POITP					
Map Unit Na	me			Drainage Class:	
(Series and P					
Taxonomy (S				Field Observations	
rakonomy (S	uogroup).			Confirm Mapped T	
Profile Descr	intion			Commin Mapped	<i>.</i>
FIGURE Descr	iption.				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
				Contrast	Structure, etc.
0-16	A	10YR 3/2	7.5YR 4/6	CMP	CL
		·			
		·			
			·		
Hydric Soil I	ndicators:				
Histoso	1		Concretions		
1	Epipedon		High Organic	Content in Surface I	Layer in Sandy Soils
Sulfidio				aking in Sandy Soils	·
	Moisture Re	ecime		cal Hydric Soils List	
	ng Conditio			tional Hydric Soils L	ict
		roma Colors		in in Remarks)	150
Remarks:	OI LOW-CI	Itoliia Colors	Other (Expla	III III Nemarks)	
	+040 111040 6	baseured This above	ervation satisfies the	soils oritorion	•
Hydric indica	nors were c	boserveu. This obse	ervation satisfies the	Sons Cincilon.	
				•	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? (Circle)	Yes	No		Is this	s Sam	pling Poin	t Within a	Wetland	?	
Wetland Hydrology Present?	<u>Yes</u>	No		Yes	No	(Circle)				
Hydric Soils Present?	Yes	No		-						
Remarks: This area satisfies the three crite	ria and is	a wetlar	nd.							

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: County: State:	8.8.2006 Franklin Ohio
	stances exist on the site? http://disturbed.chi.org/	Yes Yes	No <u>No</u>	Commun	ity ID: Wetland 12C
Is the area a potenti (If needed, explain	al Problem Area?	Yes	No No	Data Poir	nt #: 42

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Scirpus cyperinus	Sedge	FACW+	9.		
2. Juncus effusus	Sedge	FACW+	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

Recorded Data (Describe in Remarks):		Wetland Hydrology Indicators:
Stream, Lake, or Tide Gauge		Primary Indicators:
Aerial Photographs		Inundated
Other		Saturated in the Upper 12 in.
X No Recorded Data Available		Water Marks
		Drift Lines
Field Observations:		Sediment Deposits
		Drainage Patterns in Wetlands
Depth of Surface Water:	(in.)	Secondary Indicators (2 or more required):
•	, ,	Oxidized Root Channels in Upper 12 in.
Depth to Free Water in Pit:	(in.)	X Water-Stained Leaves
•		X Local Soil Survey Data
Depth to Saturated Soil: >16	(in.)	X FAC-Neutral Test
<u>.</u>	• ,	Other (Explain in Remarks)

SOILS					
Map Unit Na	me			Drainage Class:	
(Series and P					
Taxonomy (S				Field Observations	
• `	• • • •			Confirm Mapped T	ype? Yes No
Profile Descr	iption:				
	-			·	
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
				Contrast	Structure, etc.
0-16	A	10YR 3/2	7.5YR 4/6	CMP	CL
-					
			Life in		
Hydric Soil I	ndicators:				
	,				
Histoso	ol		Concretions		
Histic 1	Epipedon		High Organic	c Content in Surface I	Layer in Sandy Soils
Sulfidi				aking in Sandy Soils	
Aquic	Moisture Re	egime		cal Hydric Soils List	
	ng Conditio		Listed on Na	tional Hydric Soils L	ist
		roma Colors	Other (Expla	in in Remarks)	
Remarks:					
	ators were o	bserved. This observed	ervation satisfies the	soils criterion.	•
			•		
I			and the second s		

Hydrophytic Vegetation	Yes	No	Is this	s Sam	pling Point	Within	a Wetlan	d?
Present? (Circle) Wetland Hydrology Present?	Yes	No	<u>Yes</u>	No	(Circle)			
Hydric Soils Present?	Yes	No						
Remarks:								4
This area satisfies the three crite	ria and is	a wetland.						
		ξ						

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney	nbus Municipal Airport Authority			
Do Normal Circumstances exist on the site?			No	Community ID: Wetland 12D	
Is the site significant Is the area a potential (If needed, explain		Yes Yes	No No	Data Point #: 43	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Scirpus cyperinus	Sedge	FACW+	9.		
2. Juncus effusus	Sedge	FACW+	10.		
3.			11.		<u> </u>
4.			12.		,
5.			13.		
6.			14.		
7.			15.		
8.			16.	<u> </u>	1

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

The vegetation in this area was mowed at the time of investigation. Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks)):		Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
$\mathbf{X}^{'}$	No Recorded Data Available			Water Marks
				Drift Lines
Field (Observations:			Sediment Deposits
				Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
	•			Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	X Water-Stained Leaves
	1		, ,	X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
	· F · · · · · · · · · · · · · · ·		` ,	Other (Explain in Remarks)
Remai	ks:			
	tors of wetland hydrology were observe	d. This obse	rvation	satisfies the hydrology criterion.

POILS					6				
Map Unit Nai	me			Drainage Class:					
(Series and Pl	hase):								
Taxonomy (S	ubgroup):			Field Observations					
				Confirm Mapped T	ype? Yes No				
Profile Descr	iption:								
•									
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,				
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,				
, ,				Contrast	Structure, etc.				
0-16	A	10YR 3/2	7.5YR 4/6	CMP	CL				
				·					
Hydric Soil In	ndicators:								
-									
Histoso	l		Concretions						
Histic E	Epipedon		High Organic	Content in Surface I	Layer in Sandy Soils				
Sulfidic	Odor		Organic Stream	aking in Sandy Soils	•				
Aquic N	Moisture Re	egime	Listed on Local Hydric Soils List						
Reducii	ng Conditio	ons	Listed on Na	tional Hydric Soils L	ist				
X Gleyed	or Low-Ch	roma Colors	Other (Expla	in in Remarks)					
Remarks:									
Hydric indica	itors were o	bserved. This obse	ervation satisfies the	soils criterion.	•				
				•					
		•		*					

resent? (Circle)	<u>Yes</u>	No	Is this Sampling Point Within a Wetland?				
/etland Hydrology Present? /ydric Soils Present?	Yes Yes	No No	Yes	No	(Circle)		
emarks: his area satisfies the three crite		a wetland.	,				

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus international Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio		
	stances exist on the site?	Yes Yes	No -	Community ID: Non-wetland		
Is the site significantly disturbed (Atypical Situation)? ls the area a potential Problem Area?			<u>No</u> <u>No</u>	Data Point #: 44		
(If needed, explain	on reverse.)	-		<u> </u>		

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Rubus allegheniensis	Shrub	FACU-	9.		-
2. Rosa multiflora	Shrub	FACU	10.		
3. Poa pratensis	Grass	FACU	11.		·
4.			12.		<u> </u>
5.			13.		
6.			14.		
7.			15.		
8.			16.		<u> </u>

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 0%

Remarks:

The vegetation in this area was mowed at the time of investigation. Less than half of the dominant species are hydrophytic. This observation does not satisfy the vegetation criterion.

HYDROLOGY

Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
Stream, Lake, or Tide Gauge			Primary Indicators:
Aerial Photographs			Inundated
Other			Saturated in the Upper 12 in.
X No Recorded Data Available			Water Marks
			Drift Lines
Field Observations:	ł		Sediment Deposits
			Drainage Patterns in Wetlands
Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
		, ,	Oxidized Root Channels in Upper 12 in.
Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
		` /	Local Soil Survey Data
Depth to Saturated Soil:	>16	(in.)	FAC-Neutral Test
_ 		` /	Other (Explain in Remarks)

Remarks:

Sufficient indicators of wetland hydrology were not observed. This observation does not satisfy the hydrology criterion.

SOILS									
Map Unit Na	me			Drainage Class:					
(Series and P									
Taxonomy (S	ubgroup):			Field Observations					
			·	Confirm Mapped T	Type? Yes No				
Profile Descr	iption:								
				· , · · · · · · · · · · · · · · · · · ·					
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,				
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,				
				Contrast	Structure, etc.				
0-16	Α	10YR 3/2 7.5YR 4/6 C		CMP	CL				
		<u> </u>							
TT 1: 0 :IT	1		1						
Hydric Soil I	adicators:								
Histoso	1		Concretions						
Histic E	Epipedon		High Organic	Content in Surface I	Layer in Sandy Soils				
Sulfidio	Odor		Organic Strea	aking in Sandy Soils					
	Moisture Re		Listed on Local Hydric Soils List						
	ng Conditio			Listed on National Hydric Soils List					
~~~~	or Low-Ch	roma Colors	Other (Expla	in in Remarks)					
Remarks:									
Hydric indica	itors were o	bserved. This obse	ervation satisfies the	soils criterion.					
·									
-									
		•							

Hydrophytic Vegetation Present? (Circle)	Yes	<u>No</u>	Is this Sampling Point Within a Wetland?
Wetland Hydrology Present?	Yes	<u>No</u>	Yes No (Circle)
Hydric Soils Present?	<u>Yes</u>	No	
Demodes			

This area satisfies one of the three criteria. This area is not a wetland.

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.1.2006 County: Franklin State: Ohio
Ri .	stances exist on the site?	Yes	No	Community ID: Wetland 13
Is the site significant Is the area a potenti (If needed, explain		Yes Yes	No No	Data Point #: 45

# **VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Scirpus cyperinus	Sedge	FACW+	9.		
2. Juncus effusus	Sedge	FACW+	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

#### Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge			Wetland Hydrology Indicators: Primary Indicators:
	Aerial Photographs		j	X Inundated
	Other			Saturated in the Upper 12 in.
$\mathbf{X}$	No Recorded Data Available		!	Water Marks
	•			Drift Lines
Field (	Observations:			Sediment Deposits
			,	X Drainage Patterns in Wetlands
	Depth of Surface Water:	3	(in.)	Secondary Indicators (2 or more required):
			`	Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
			` ' '	Local Soil Survey Data
	Depth to Saturated Soil:		(in.)	X FAC-Neutral Test
			(- /	Other (Explain in Remarks)

SOILS								
Map Unit Na	me		Drainage Class:					
(Series and P								
Taxonomy (S				Field Observations	1			
	0 17			Confirm Mapped T	Type? Yes No			
Profile Descr	iption:	· · · · · · · · · · · · · · · · · · ·			<u></u>			
	1							
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
٠			(	Contrast	Structure, etc.			
0-16	Α	2.5Y 3/1			CL			
-								
Hydric Soil I	ndicators:							
Histoso	1		Concretions					
Histic F	Epipedon		High Organic Content in Surface Layer in Sandy Soils					
Sulfidio	Odor		Organic Streaking in Sandy Soils					
Aquic I	Moisture Re	egime	Listed on Local Hydric Soils List					
Reduci	ng Conditio	ons	Listed on National Hydric Soils List					
X Gleyed	or Low-Ch	roma Colors	Other (Explain in Remarks)					
Remarks:								
Hydric indica	itors were o	bserved. This observed	ervation satisfies the	soils criterion.				
			•					
- * *								
			4					

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this Sampling Point Within a Wetland?					
Wetland Hydrology Present?	Yes	No	Yes No (Circle)					
Hydric Soils Present?	Yes	No						
Remarks:								

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.1.2006 County: Franklin State: Ohio
		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 14A  Data Point #: 46

# VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Scirpus cyperinus	Sedge	FACW+	9.		
2. Typha angustifolia	Forb	OBL	10.		
3. Echinocloa crus-galli	Grass	FACU	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		<u> </u>

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 66.7%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

		Wetland Hydrology Indicators:
		Primary Indicators:
		X Inundated
		Saturated in the Upper 12 in.
		Water Marks
		Drift Lines
		Sediment Deposits
		X Drainage Patterns in Wetlands
3	(in.)	Secondary Indicators (2 or more required):
		Oxidized Root Channels in Upper 12 in.
	(in.)	Water-Stained Leaves
		Local Soil Survey Data
	(in.)	X FAC-Neutral Test
	` ,	Other (Explain in Remarks)
This obse	rvation	satisfies the hydrology criterion.
	3	(in.)

SOILS								
Map Unit Na	me	, i		Drainage Class:				
(Series and Pl	hase):							
Taxonomy (S			•	Field Observations				
				Confirm Mapped T	Type? Yes No			
Profile Descr	iption:							
	•							
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
(				Contrast	Structure, etc.			
0-16	Α	2.5Y 3/1			CL			
Hydric Soil I	ndicators:	<del></del>	<del></del>		<u>, 1,</u>			
11) 4110 5011 1								
Histoso	ol		Concretions					
	Epipedon		High Organic Content in Surface Layer in Sandy Soils					
Sulfidio			Organic Streaking in Sandy Soils					
	Moisture Ro	egime	Listed on Local Hydric Soils List					
	ng Conditio		Listed on National Hydric Soils List					
		roma Colors	Other (Explain in Remarks)					
Remarks:	OI DOW CI	noma Colorb	Cuitor (Empire					
	atore were o	observed This obse	ervation satisfies the	soils criterion.				
Tryuric muice	ators were t	70301 VCG. 11113 003	or vacion succession the					
					•			
	•							

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle)			
Wetland Hydrology Present?	<u>Yes</u>	No	Yes No (Circle)
Hydric Soils Present?	<u>Yes</u>	No	
			· •

(1987 COE Wetlands Delineation Manual)

Project/Site: Port Columbus International Airport Applicant/Owner: Columbus Municipal Airport Authority Investigator: Landon McKinney				Date: 8.1.2006 County: Franklin State: Ohio
		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 14B  Data Point #: 47

## **VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Scirpus cyperinus	Sedge	FACW+	9.		
2. Typha angustifolia	Forb	OBL	10.		
3. Echinocloa crus-galli	Grass	FACU	11.		
4.			12.		
5.	·		13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 66.7%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			X Inundated
	Other			Saturated in the Upper 12 in.
$\mathbf{X}$	No Recorded Data Available			Water Marks
				Drift Lines
Field C	Observations:			Sediment Deposits
				X Drainage Patterns in Wetlands
	Depth of Surface Water:	3	(in.)	Secondary Indicators (2 or more required):
				Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
	* .			Local Soil Survey Data
	Depth to Saturated Soil:		(in.)	X FAC-Neutral Test
1	*			Other (Explain in Remarks)
Remar		m ·		
Indica	itors of wetland hydrology were observed.	This obse	rvation	satisties the hydrology chterion.

SOILS		1							
Map Unit Na	me		Drainage Class:						
(Series and P	hase):								
Taxonomy (S				Field Observations					
, , , , , , , , , , , , , , , , , , , ,				Confirm Mapped 7	ype? Yes No				
Profile Descr	iption:								
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,				
(inches)	ļ	(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,				
			(	Contrast	Structure, etc.				
0-16	Α	2.5Y 3/1			CL				
Hydric Soil I	ndicators:								
Trydine Bon 1	indicators.								
Histoso	01		Concretions						
	Epipedon		High Organic Content in Surface Layer in Sandy Soils						
Sulfidio			Organic Streaking in Sandy Soils						
Aquic I	Moisture R	egime	Listed on Local Hydric Soils List						
	ng Conditio		Listed on National Hydric Soils List						
		roma Colors	Other (Explain in Remarks)						
Remarks:									
	ators were o	observed. This obse	ervation satisfies the	soils criterion.					
Trydric maice	2015 11010	70501704. 11115 005	or vaccor sandrios inc	bono ornorion.					
		•	•						
				•					

# WETLAND DETERMINATION

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?	
Present? (Circle)				
Wetland Hydrology Present?	<u>Yes</u>	No	Yes No (Circle)	
Hydric Soils Present?	Yes	No		
w 1				

#### Remarks:

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney	Date: 8.1.2006 County: Franklin State: Ohio		
ii		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 15A  Data Point #: 48

## **VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Typha angustifolia	Forb	OBL	9.		
2.			10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		1

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

#### Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			X Inundated
	Other			Saturated in the Upper 12 in.
$\mathbf{X}$	No Recorded Data Available			Water Marks
				Drift Lines
Field (	Observations:			Sediment Deposits
				X Drainage Patterns in Wetlands
	Depth of Surface Water:	3	(in.)	Secondary Indicators (2 or more required):
	•			Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
			` ,	Local Soil Survey Data
	Depth to Saturated Soil:		(in.)	X FAC-Neutral Test
	•		, ,	Other (Explain in Remarks)

POILS								
Map Unit Na	me		Drainage Class:	Drainage Class:				
(Series and P								
	Taxonomy (Subgroup):			Field Observations				
			Confirm Mapped T	ype? Yes No				
Profile Descr	iption:							
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
` ′			]	Contrast	Structure, etc.			
0-16	Α	2.5Y 3/1			CL			
Hydric Soil I	ndicators:							
Histoso	ol		Concretions					
Histic I	Epipedon		High Organic Content in Surface Layer in Sandy Soils					
Sulfidio			Organic Streaking in Sandy Soils					
	Moisture R	egime	Listed on Local Hydric Soils List					
	ng Conditio		Listed on Na	Listed on National Hydric Soils List				
		nroma Colors		uin in Remarks)				
Remarks:			· · · · · · · · · · · · · · · · · · ·					
	ators were	observed. This obs	ervation satisfies the	soils criterion.				

# WETLAND DETERMINATION

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle)			
Wetland Hydrology Present?	Yes	No	Yes No (Circle)
Hydric Soils Present?	Yes	No	

## Remarks:

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney	Date: 8.1.2006 County: Franklin State: Ohio		
	stances exist on the site? tly disturbed (Atypical Situation)?	Yes Yes	No <u>No</u>	Community ID: Wetland 15B
Is the area a potenti (If needed, explain		Yes	<u>No</u>	Data Point #: 49

#### VEGETATION

VEGETATION		ALCOHOL WAY			T 1.
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Typha angustifolia	Forb	OBL	9.		
2.			10.		
3.			11.		<u> </u>
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):		-	Wetland Hydrology Indicators:			
Stream, Lake, or Tide Gauge				Primary Indicators:			
	Aerial Photographs			X Inundated			
	Other			Saturated in the Upper 12 in.			
X	No Recorded Data Available			Water Marks			
				Drift Lines			
Field C	bservations:			Sediment Deposits			
				X Drainage Patterns in Wetlands			
	Depth of Surface Water:	3	(in.)	Secondary Indicators (2 or more required):			
	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		` ′	Oxidized Root Channels in Upper 12 in.			
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves			
	2 - p. 1. 10 - 1. 10 - 11 - 11 - 11 - 11 - 11		` ,	Local Soil Survey Data			
	Depth to Saturated Soil:		(in.)	X FAC-Neutral Test			
	popular of caracter positi		` /	Other (Explain in Remarks)			

SOILS				•				
Map Unit Na	me			Drainage Class:				
(Series and P								
Taxonomy (S				Field Observations				
				Confirm Mapped T	ype? Yes No			
Profile Descr	iption;							
	•							
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
				Contrast	Structure, etc.			
0-16	A	2.5Y 3/1			CL			
					<u> </u>			
Hydric Soil I	ndicators:							
Histoso	ol		Concretions		;			
	Epipedon		High Organic	Content in Surface I	ayer in Sandy Soils			
Sulfidio			, , ,	aking in Sandy Soils				
	Moisture Re	egime		cal Hydric Soils List				
	ng Conditio			tional Hydric Soils L	ist			
		roma Colors		in in Remarks)				
Remarks:								
Hydric indica	ators were o	observed. This obse	ervation satisfies the	soils criterion.				
				1.0				
-								
1								

# WETLAND DETERMINATION

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle)		3.7	Mar No (Climate)
Wetland Hydrology Present?	<u>Yes</u>	No	<u>Yes</u> No (Circle)
Hydric Soils Present?	<u>Yes</u>	No	
Remarks:			

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney	Date: 8.1.2006 County: Franklin State: Ohio		
Do Normal Circums		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 15C  Data Point #: 50

## VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Typha angustifolia	Forb	OBL	9.		
2.			10.		
3.			11.		
4.			12.		
5.			13.		
6			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

## **HYDROLOGY**

Recorded Data (Describe in Remarks):		·	Wetland Hydrology Indicators:
Stream, Lake, or Tide Gauge			Primary Indicators:
Aerial Photographs			X Inundated
Other			Saturated in the Upper 12 in.
X No Recorded Data Available			Water Marks
			Drift Lines
Field Observations:			Sediment Deposits
Tiold Copplitations.			X Drainage Patterns in Wetlands
Depth of Surface Water:	3	(in.)	Secondary Indicators (2 or more required):
Dopin of buriace water.		()	Oxidized Root Channels in Upper 12 in.
Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
Bepair to Tree Water in The		()	Local Soil Survey Data
Depth to Saturated Soil:		(in.)	X FAC-Neutral Test
Depth to Saturated Bolt.		()	Other (Explain in Remarks)

Indicators of wetland hydrology were observed. This observation satisfies the hydrology criterion.

BOILB								
Map Unit Na	me			Drainage Class:				
(Series and P.	hase):	•						
Taxonomy (S				Field Observations	·			
	B P)			Confirm Mapped T				
Profile Descr	intion:				<u> </u>			
1 TOTHE DESCR	iption.							
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)	110112011	(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
(Inches)		(Widisch Wiolst)	(Ividitson Ivioist)	Contrast	Structure, etc.			
0.16	l	2.537.2/1		Colluast	CL			
0-16	A	2.5Y 3/1			LCL			
Hydric Soil I	ndicators:	·						
Histoso			Concretions					
Histic I	Epipedon		High Organic	c Content in Surface I	Layer in Sandy Soils			
Sulfidio	Odor		Organic Stre	aking in Sandy Soils				
Aguic I	Moisture Re	egime	Listed on Lo	cal Hydric Soils List				
	ng Conditio			tional Hydric Soils L	ist			
		roma Colors		in in Remarks)				
Remarks:	01 15011 01	Homa Cororo	Ctitot (Empire		<u> </u>			
	tore were	sheerved This ober	ervation satisfies the	soils criterion				
Trydric maica	itors were c	Justiveu. Tilis ous	or various sausties life	Sons cincilon.				
· ·								

# WETLAND DETERMINATION

		.*	
Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle)			
Wetland Hydrology Present?	<u>Yes</u>	No	Yes No (Circle)
Hydric Soils Present?	Yes	No	

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.1.2006 County: Franklin State: Ohio
	stances exist on the site?	Yes Yes	No	Community ID: Wetland 15D
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			No No	Data Point #: 51

## **VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Typha angustifolia	Forb	OBL	9.		
2.			10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.	1	
8.			16.	<u> </u>	<u> -</u>

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

#### Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

## **HYDROLOGY**

	Recorded Data (Describe in Remarks):		ļ	Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			X Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
				Drift Lines
Field (	Observations:			Sediment Deposits
				X Drainage Patterns in Wetlands
	Depth of Surface Water:	3	(in.)	Secondary Indicators (2 or more required):
	- <b>F</b>		` ′	Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
	- · <b>·</b>		. ,	Local Soil Survey Data
	Depth to Saturated Soil:		(in.)	X FAC-Neutral Test
	o opini to buttu a tan			Other (Explain in Remarks)

Indicators of wetland hydrology were observed. This observation satisfies the hydrology criterion.

Map Unit Nar				Drainage Class:				
(Series and Pl								
Taxonomy (S	ubgroup):			Field Observations				
				Confirm Mapped T	ype? Yes No			
Profile Descri	ption:							
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)	110112011	(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
(menes)		(Munson Most)	(IVIGIISON IVIOISE)	Contrast	Structure, etc.			
0-16	A	2.5Y 3/1			CL			
			·					
		<u> </u>						
Hydric Soil It	ndicators:	•						
Histoso	i		Concretions					
Histic E	pipedon			Content in Surface I	Layer in Sandy Soils			
Sulfidic			Organic Streaking in Sandy Soils					
	Aoisture Re		Listed on Local Hydric Soils List					
	ng Conditio		Listed on National Hydric Soils List					
	or Low-Ch	roma Colors	Other (Explain in Remarks)					
Remarks:					1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
Hydric indica	tors were o	observed. This observed	ervation satisfies the	soils criterion.				
		•						
			•					

# WETLAND DETERMINATION

THE RESERVE OF THE PROPERTY AND THE PROP	12 X X X V 1		
Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle)			en en en en en en en en en en en en en e
Wetland Hydrology Present?	Yes	No	Yes No (Circle)
Hydric Soils Present?	Yes	No	
Domonisos			

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.1.2006 County: Franklin State: Ohio
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			No <u>No</u> <u>No</u>	Community ID: Wetland 15E  Data Point #: 52

## VEGETATION

Designation	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
Dominant Plant Species	Stratum		Dominant Frant Species	Strutum	manual
1. Typha angustifolia	Forb	OBL	9.		
2.			10.		
3.	-		11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

#### **HYDROLOGY**

Recorded Data (Describe in Remarks	):		Wetland Hydrology Indicators:
Stream, Lake, or Tide Gauge		ļ	Primary Indicators:
Aerial Photographs			X Inundated
Other			Saturated in the Upper 12 in.
X No Recorded Data Available			Water Marks
			Drift Lines
Field Observations:			Sediment Deposits
			X Drainage Patterns in Wetlands
Depth of Surface Water:	3	(in.)	Secondary Indicators (2 or more required):
<b>r</b>		, ,	Oxidized Root Channels in Upper 12 in.
Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
		` ,	Local Soil Survey Data
Depth to Saturated Soil:		(in.)	X FAC-Neutral Test
			Other (Explain in Remarks)

Indicators of wetland hydrology were observed. This observation satisfies the hydrology criterion.

SOILS								
Map Unit Na	me			Drainage Class:				
(Series and P								
Taxonomy (S				Field Observations				
		•		Confirm Mapped T	ype? Yes No			
Profile Descr	iption:							
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
, ,				Contrast	Structure, etc.			
0-16	A	2.5Y 3/1			CL			
	, , , ,							
:								
Hydric Soil I	ndicators:	<u> </u>	<u> </u>					
11) 4110 5011 1			•					
Histoso	<u></u>		Concretions					
	Epipedon	•	High Organic Content in Surface Layer in Sandy Soils					
Sulfidio			Organic Streaking in Sandy Soils					
	Moisture R	egime	Listed on Local Hydric Soils List					
	ng Conditio		Listed on National Hydric Soils List					
X Gleyed or Low-Chroma Colors			Other (Explain in Remarks)					
Remarks:								
	ators were	observed. This obse	ervation satisfies the	soils criterion.				
11) 4110 111410								
·								
			* •					
1)								

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this Sampling Point Within a Wetland?
Wetland Hydrology Present?	Yes	No	Yes No (Circle)
Hydric Soils Present?	Yes	No	

## Remarks:

(1987 COE Wetlands Delineation Manual)

Project/Site: Port Columbus international Airport					8.1.2006
Applicant/Owner:					Franklin
Investigator: Landon McKinney				State:	Ohio
Do Normal Circums Is the site significan Is the area a potenti (If needed, explain	Yes Yes Yes	No <u>No</u> <u>No</u>	Commun Data Poir	ity ID: Non-wetland	

## **VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Poa pratensis	Grass	UPL	9.		
2. Festuca elatior	Grass	UPL	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 0%

Less than half of the dominant species are hydrophytic. This observation does not satisfy the vegetation criterion.

## **HYDROLOGY**

Recorded Data (Describe in Remarks):		Wetland Hydrology Indicators:		
Stream, Lake, or Tide Gauge	Primary Indicators:			
Aerial Photographs		Inundated		
Other		Saturated in the Upper 12 in.		
X No Recorded Data Available		Water Marks		
		Drift Lines		
Field Observations:		Sediment Deposits		
		Drainage Patterns in Wetlands		
Depth of Surface Water:	(in.)	Secondary Indicators (2 or more required):		
•		Oxidized Root Channels in Upper 12 in.		
Depth to Free Water in Pit:	(in.)	Water-Stained Leaves		
,		Local Soil Survey Data		
Depth to Saturated Soil: >4	(in.)	FAC-Neutral Test		
		Other (Explain in Remarks)		

Sufficient indicators of wetland hydrology were not observed. This observation does not satisfy the hydrology criterion.

Map Unit Name (Series and Phase): Taxonomy (Subgroup): Field Observations Confirm Mapped Type? Yes No  Profile Description:  Depth Horizon (Munsell Moist) (Munsell Moist) (Munsell Moist) (Munsell Moist) (Contrast Structure, etc.)  O-4 A 10YR 4/4  4+ Impenetrable Fill Subgroup (Munsell Moist) (Contrast Structure, etc.)  Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors  Remarks: Hydric indicators were not observed. This observation does not satisfy the soils criterion.	SOILS								
(Series and Phase): Taxonomy (Subgroup):  Profile Description:    Depth	Map Unit Nar	ne			Drainage Class:				
Taxonomy (Subgroup):  Profile Description:  Depth (inches)									
Profile Description:    Depth (inches)					Field Observations				
Depth (inches) Horizon (Munsell Moist) Mottle Colors (Munsell Moist) Abundance/Size/ Concretions, Structure, etc.  0-4 A 10YR 4/4 4+ Impenetrable Fill  Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors  Remarks:  Mottle Abundance/Size/ Concretions, Structure, etc.  SL  Concretions High Organic Content in Surface Layer in Sandy Soils Listed on National Hydric Soils List Other (Explain in Remarks)	,				Confirm Mapped T	ype? Yes No			
Depth (inches) Horizon (Munsell Moist) Mottle Colors (Munsell Moist) Abundance/Size/ Concretions, Structure, etc.  0-4 A 10YR 4/4 4+ Impenetrable Fill  Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors  Remarks:  Mottle Abundance/Size/ Concretions, Structure, etc.  SL  Concretions High Organic Content in Surface Layer in Sandy Soils Listed on National Hydric Soils List Other (Explain in Remarks)	Profile Descri	intion:	····						
(inches)  (Munsell Moist)  (Munsell Moist)  (Munsell Moist)  (Munsell Moist)  (Munsell Moist)  (Abundance/Size/ Concretions, Structure, etc.  SL  4+  Impenetrable Fill  Hydric Soil Indicators:  Concretions  Histosol  Histic Epipedon  Sulfidic Odor  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed or Low-Chroma Colors  Remarks:  (Munsell Moist)  Abundance/Size/  Concretions  Structure, etc.  SL  Concretions  High Organic Content in Surface Layer in Sandy Soils  Listed on Local Hydric Soils List  Listed on National Hydric Soils List  Other (Explain in Remarks)	1.511.0 2 00011	.r							
(inches)  (Munsell Moist)  (Munsell Moist)  (Munsell Moist)  (Munsell Moist)  (Munsell Moist)  (Abundance/Size/ Concretions, Structure, etc.  SL  4+  Impenetrable Fill  Hydric Soil Indicators:   Concretions  Histosol  Histic Epipedon  Sulfidic Odor  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed or Low-Chroma Colors  Remarks:  (Munsell Moist)  Abundance/Size/  Concretions  High Organic Content in Surface Layer in Sandy Soils  Listed on Local Hydric Soils List  Listed on National Hydric Soils List  Other (Explain in Remarks)	Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
Contrast Structure, etc.  O-4 A 10YR 4/4 SL  Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors  Remarks:  Concretions High Organic Content in Surface Layer in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks)					Abundance/Size/	Concretions,			
4+ Impenetrable Fill  Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors  Remarks:  Concretions High Organic Content in Surface Layer in Sandy Soils Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks)	(Inonos)		(3.201001)	(======================================	1	-			
Hydric Soil Indicators:    Histosol	0-4	Α	10YR 4/4						
Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors  Remarks:  Concretions High Organic Content in Surface Layer in Sandy Soils Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks)									
Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed or Low-Chroma Colors  Concretions  High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Local Hydric Soils List  Listed on National Hydric Soils List  Other (Explain in Remarks)	-								
Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed or Low-Chroma Colors  Concretions  High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Local Hydric Soils List  Listed on National Hydric Soils List  Other (Explain in Remarks)									
Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed or Low-Chroma Colors  Concretions  High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Local Hydric Soils List  Listed on National Hydric Soils List  Other (Explain in Remarks)									
Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed or Low-Chroma Colors  Concretions  High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Local Hydric Soils List  Listed on National Hydric Soils List  Other (Explain in Remarks)									
Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed or Low-Chroma Colors  Concretions  High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Local Hydric Soils List  Listed on National Hydric Soils List  Other (Explain in Remarks)	Hydric Soil In	ndicators:	2						
Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors  High Organic Content in Surface Layer in Sandy Soils Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks)	,								
Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors High Organic Content in Surface Layer in Sandy Soils Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks)	Histoso	1							
Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List Reducing Conditions Listed on National Hydric Soils List Gleyed or Low-Chroma Colors Other (Explain in Remarks)  Remarks:			r de la companya de la companya de la companya de la companya de la companya de la companya de la companya de						
Aquic Moisture Regime  Reducing Conditions  Gleyed or Low-Chroma Colors  Colors  Listed on Local Hydric Soils List  Listed on National Hydric Soils List  Other (Explain in Remarks)  Remarks:									
Reducing Conditions  Gleyed or Low-Chroma Colors  Contract Colors  Contract			egime						
Gleyed or Low-Chroma Colors Other (Explain in Remarks)  Remarks:									
Remarks:									
Hydric indicators were not observed. This observation does not satisfy the soils criterion.									
	Hydric indicators were not observed. This observation does not satisfy the soils criterion.								
y .									
					•				
				•					
		•							

	IT DISCUID DESCRIPTION				
	Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?	
- 11	Present? (Circle) Wetland Hydrology Present?	Yes	No	Yes No (Circle)	
	Hydric Soils Present?	Yes	<u>No</u>		
- 11	n 1				

This area satisfies none of the three criteria and is not a wetland.

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney		Date: County: State:	8.1.2006 Franklin Ohio	
		Yes Yes Yes	No <u>No</u> <u>No</u>	Commun	ity ID: Wetland 16A

# VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Typha angustifolia	Forb	OBL	9.		
2.			10.		
3.			11.	***************************************	
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.	-	

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

#### Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
Stream, Lake, or Tide Gauge			Primary Indicators:
Aerial Photographs			X Inundated
Other			Saturated in the Upper 12 in.
X No Recorded Data Available			Water Marks
			Drift Lines
Field Observations:			Sediment Deposits
			X Drainage Patterns in Wetlands
Depth of Surface Water:	3	(in.)	Secondary Indicators (2 or more required):
			Oxidized Root Channels in Upper 12 in.
Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
			Local Soil Survey Data
Depth to Saturated Soil:		(in.)	X FAC-Neutral Test
			Other (Explain in Remarks)
Remarks:			
Indicators of wetland hydrology were observed. T	his obs	servation s	satisfies the hydrology criterion.

SOILS							
Map Unit Nar	ne			Drainage Class:			
(Series and Pl							
Taxonomy (S				Field Observations			
	- 6 mp)			Confirm Mapped T			
Profile Descri	ntion			1 committeeppod 1	<u>JF5. 255 116</u>		
Profile Description:							
		T	T =	The same of the sa			
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,		
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,		
				Contrast	Structure, etc.		
0-16	A	2.5Y 3/1			CL		
	<del> </del>						
		<del>                                     </del>		<del>                                     </del>			
Hydric Soil In	idicators:		1				
·	uivaivis.						
Histoso	1	W	Concretions				
			1	Contont in Care Y	Carron in Conder Call		
	Epipedon			Content in Surface I	Layer in Sandy Soils		
Sulfidio				aking in Sandy Soils			
	Moisture Re			cal Hydric Soils List			
	ng Conditio		Listed on National Hydric Soils List				
X Gleyed or Low-Chroma Colors			Other (Explain in Remarks)				
Remarks:							
Hydric indicators were observed. This observation satisfies the soils criterion.							
-							
					A Commence of the Commence of		
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## WETLAND DETERMINATION

WEIGHT DEI ENGINETION								
Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this Sampling Point Within a Wetland?					
Wetland Hydrology Present?	Yes	No	Yes No (Circle)					
Hydric Soils Present?	Yes	No						
n 1								

#### Remarks:

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney		٠.	Date: 8.1.2006 County: Franklin State: Ohio
		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 16B  Data Point #: 54a

#### **VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Typha angustifolia	Forb	OBL	9.		
2.			10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

#### Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

<b>T</b> ,	Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other			Wetland Hydrology Indicators: Primary Indicators: X Inundated Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks Drift Lines
Field C	Observations:			Sediment Deposits
	Depth of Surface Water:	3	(in.)	X Drainage Patterns in Wetlands Secondary Indicators (2 or more required):
	Depth to Free Water in Pit:		(in.)	Oxidized Root Channels in Upper 12 in. Water-Stained Leaves
	Depth to Saturated Soil:		(in.)	Local Soil Survey Data  X FAC-Neutral Test Other (Explain in Remarks)

POITS							
Map Unit Nai	ne			Drainage Class:			
(Series and Pl							
Taxonomy (S				Field Observations			
Tunonomy (Duogroup).			Confirm Mapped T				
Dua fila Dazam	intion.	<del> </del>		Comming	JPC		
Profile Descri	ipuon:						
		T		T = = = = = = = = = = = = = = = = = = =	T		
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,		
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,		
				Contrast	Structure, etc.		
0-16	A	2.5Y 3/1			CL		
		· · · · · · · · · · · · · · · · · · ·					
	<u> </u>	·					
	L	<u> </u>			<u> </u>		
Hydric Soil I	ndicators:						
Histoso	1		Concretions				
Histic I	Epipedon		High Organic	c Content in Surface	Layer in Sandy Soils		
Sulfidio			Organic Stre	aking in Sandy Soils			
Aguic 1	Moisture R	egime		cal Hydric Soils List			
	ng Conditio			tional Hydric Soils L			
		roma Colors		in in Remarks)			
Remarks:	or Low-Cr	noma Colors	Other (Daple	in in itonamo			
B .		.1					
Hydric indica	itors were o	observed. Inis obs	ervation satisfies the	sons criterion.			
Ì					•		
I							

# WETLAND DETERMINATION

the three criteria and is a wetland.

TANK AND AND AND AND AND AND AND AND AND AND	1111101	<u> </u>	
Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this Sampling Point Within a Wetland?
Wetland Hydrology Present?	<u>Yes</u>	No	Yes No (Circle)
Hydric Soils Present?	<u>Yes</u>	No	
Remarks:			
The area is an excavated ditch the	hat has es	tablished	vegetation along the bed overtime. This area satisfies

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus international Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.1.2006 County: Franklin State: Ohio
	stances exist on the site?	Yes	No	Community ID: Non-wetland
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)		Yes Yes	No No	Data Point #: 55

#### **VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Poa pratensis	Grass	UPL	9.		
2. Festuca elatior	Grass	UPL	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		<u> </u>

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 0%

Less than half of the dominant species are hydrophytic. This observation does not satisfy the vegetation criterion.

# **HYDROLOGY**

Recorded Data (Describe in Remarks)	:		Wetland Hydrology Indicators:
Stream, Lake, or Tide Gauge			Primary Indicators:
Aerial Photographs			Inundated
Other			Saturated in the Upper 12 in.
X No Recorded Data Available			Water Marks
			Drift Lines
Field Observations:			Sediment Deposits
			Drainage Patterns in Wetlands
Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
- · · ·		` ,	Oxidized Root Channels in Upper 12 in.
Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
F		, ,	Local Soil Survey Data
Depth to Saturated Soil:	>4	(in.)	FAC-Neutral Test
F		` /	Other (Explain in Remarks)

Sufficient indicators of wetland hydrology were not observed. This observation does not satisfy the hydrology criterion.

SOILS					
Map Unit Na	me			Drainage Class:	
(Series and P					
Taxonomy (S				Field Observations	
	<i>U</i> 17			Confirm Mapped T	'ype? Yes No
Profile Descr	iption:				
	- <b>r</b>				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
(				Contrast	Structure, etc.
0-4	Α	10YR 4/4			SL
4+	Impenetra	able Fill			
					,
Hydric Soil I	ndicators:				
Histoso	ol .		Concretions		
Histic I	Epipedon		High Organic	Content in Surface I	Layer in Sandy Soils
Sulfidio				aking in Sandy Soils	•
	Moisture Re	egime		cal Hydric Soils List	
	ng Conditio			tional Hydric Soils L	ist
		roma Colors		in in Remarks)	
Remarks:					
	ators were r	not observed. This	observation does not	satisfy the soils crite	rion.
				•	

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this Sampling Point Within a Wetland?
Wetland Hydrology Present?	Yes	No	Yes <u>No</u> (Circle)
Hydric Soils Present?	Yes	No	
Damada			

Remarks:

This area satisfies none of the three criteria and is not a wetland.

(1987 COE Wetlands Delineation Manual)

Project/Site:	Port Columbus International Airport			Date:	8.1.2006
Applicant/Owner: Columbus Municipal Airport Authority				County:	Franklin
Investigator: Landon McKinney				State:	Ohio
8		Yes Yes Yes	No <u>No</u> <u>No</u>	Commun Data Poir	ity ID: Wetland 17A

## **VEGETATION**

7	T 04 1	7 1'	D Dl C	Charter	Indicator
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Typha angustifolia	Forb	OBL	9.		
2. Bidens cernua	Forb	OBL	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

Recorded Data (Describe in Remarks):		Wetland Hydrology Indicators:
Stream, Lake, or Tide Gauge		Primary Indicators:
Aerial Photographs		X Inundated
Other		Saturated in the Upper 12 in.
X No Recorded Data Available		Water Marks
		Drift Lines
Field Observations:		Sediment Deposits
		X Drainage Patterns in Wetlands
Depth of Surface Water: 3	(in.)	Secondary Indicators (2 or more required):
•	` /	Oxidized Root Channels in Upper 12 in.
Depth to Free Water in Pit:	(in.)	Water-Stained Leaves
	` '	Local Soil Survey Data
Depth to Saturated Soil:	(in.)	X FAC-Neutral Test
	• •	Other (Explain in Remarks)
Remarks:		
Indicators of wetland hydrology were observed. This obs	ervation	satisfies the hydrology criterion.

SOILS					
Map Unit Na	me			Drainage Class:	
(Series and P					
Taxonomy (S	ubgroup):			Field Observations	
				Confirm Mapped T	Гуре? Yes No
Profile Descr	iption:				1
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/ Contrast	Concretions, Structure, etc.
0-16	Α	2.5Y 3/1			CL
					<del></del>
				ļ	
	L	<u> </u>	<u> </u>		
Hydric Soil I	ndicators:				
Histosc	ol .		Concretions		
Histic I	Epipedon			c Content in Surface	Layer in Sandy Soils
Sulfidio				aking in Sandy Soils	
	Moisture Ro			cal Hydric Soils List	
	ng Conditio			tional Hydric Soils L	ist
	or Low-Ch	roma Colors	Other (Expla	in in Remarks)	
Remarks: Hydric indica	ators were o	observed. This obs	ervation satisfies the	soils criterion.	

7 7 .		~~~~			
Ну	drophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?	
Pre	sent? (Circle)				
We	tland Hydrology Present?	<u>Yes</u>	No	Yes No (Circle)	
Ну	dric Soils Present?	Yes	No		

## Remarks:

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.1.2006 County: Franklin State: Ohio
Do Normal Circums	stances exist on the site? tly disturbed (Atypical Situation)? al Problem Area?	Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 17B  Data Point #: 57

# **VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Typha angustifolia	Forb	OBL	9.		
2. Bidens cernua	Forb	OBL	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		·
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

#### Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			X Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
				Drift Lines
Field	Observations:			Sediment Deposits
				X Drainage Patterns in Wetlands
	Depth of Surface Water:	3	(in.)	Secondary Indicators (2 or more required):
				Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
			. ,	Local Soil Survey Data
	Depth to Saturated Soil:		(in.)	X FAC-Neutral Test
			` ′	Other (Explain in Remarks)

POILS							
Map Unit Na	me			Drainage Class:	•		
(Series and Pl							
Taxonomy (S			Field Observations				
Tunomoning (e				Confirm Mapped T	ype? Yes No		
Profile Descr	intion.			. <del> </del>			
Trome Descr	iption.						
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,		
(inches)	110112011	(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,		
(inches)		(Ivialison iviolst)	(Wanson Wolse)	Contrast	Structure, etc.		
0-16	A	2.5Y 3/1		Contrast	CL		
0-10	71	2.5 1 5/1					
				***			
	<del> </del>				·		
Hydric Soil I	ndicators:		<u></u>				
Try drie Bon 1		•					
Histoso	1		Concretions				
	Epipedon		High Organic Content in Surface Layer in Sandy Soils				
Sulfidio			Organic Streaking in Sandy Soils				
1	Moisture R	egime	Listed on Local Hydric Soils List				
	ng Conditio		Listed on National Hydric Soils List				
		nroma Colors	Other (Explain in Remarks)				
Remarks:	3. 20. O		1	·	· · · · · · · · · · · · · · · · · · ·		
	ators were	observed. This observed	ervation satisfies the	soils criterion.	•		
I I J GI I O BIGIO							
			•				

WEILAND DETERMINATION							
Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?				
Present? (Circle)			(91.1)				
Wetland Hydrology Present?	<u>Yes</u>	No	Yes No (Circle)				
Hydric Soils Present?	Yes	No					

### Remarks:

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney	Date: 8.1.2006 County: Franklin State: Ohio		
Do Normal Circum	Yes	No	Community ID: Wetland 17C	
Is the site significant Is the area a potenti (If needed, explain		Yes Yes	No No	Data Point #: 58

# **VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Typha angustifolia	Forb	OBL	9.		
2. Bidens cernua	Forb	OBL	10.		
3.			11.		
4.			12.		
5.			13.		·
6.			14.		
7.			15.	1.	
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

#### Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge	*		Primary Indicators:
	Aerial Photographs			X Inundated
	Other	•		Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
				Drift Lines
Field Observations:				Sediment Deposits
				X Drainage Patterns in Wetlands
	Depth of Surface Water:	3	(in.)	Secondary Indicators (2 or more required):
	•			Oxidized Root Channels in Upper 12 in
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
	•		. ,	Local Soil Survey Data
	Depth to Saturated Soil:		(in.)	X FAC-Neutral Test
	•		. ,	Other (Explain in Remarks)

SOILS				·			
Map Unit Na	me			Drainage Class:			
(Series and P	hase):						
Taxonomy (S	lubgroup):		Field Observations				
		· · · · · · · · · · · · · · · · · · ·		Confirm Mapped T	Type? Yes No		
Profile Descr	iption:						
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,		
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,		
				Contrast	Structure, etc.		
0-16	Α	2.5Y 3/1			CL		
Hydric Soil I	ndicators:						
Histoso	ol		Concretions				
Histic I	Epipedon			c Content in Surface	Layer in Sandy Soils		
Sulfidio				aking in Sandy Soils			
	Moisture R			cal Hydric Soils List			
	ng Conditio		Listed on National Hydric Soils List				
X Gleyed	or Low-Cl	roma Colors	Other (Expla	in in Remarks)			
Remarks:							
Hydric indicate	ators were	observed. This obs	ervation satisfies the	soils criterion.	•		
					•		
H							

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this Sampling Point Within a Wetland?
Wetland Hydrology Present?	Yes	No	Yes No (Circle)
Hydric Soils Present?	Yes	No	
Damanlan			<del></del>

(1987 COE Wetlands Delineation Manual)

Project/Site:		Date: 8.1.2006		
Applicant/Owner:	Columbus Municipal Airport Author	rity		County: Franklin
Investigator:	Landon McKinney	State: Ohio		
Do Normal Circum	Yes Yes	No	Community ID: Wetland 17D	
Is the site significant Is the area a potenti (If needed, explain		Yes	No No	Data Point #: 59

# **VEGETATION**

D	ominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.	Typha angustifolia	Forb	OBL	9.		
2.	Bidens cernua	Forb	OBL	10.		
3.				11.		
4.				12.		
5.				13.		
6.				14.		
7.				15.		
8.				16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
Stream, Lake, or Tide Gauge	Primary Indicators:		
Aerial Photographs			X Inundated
Other			Saturated in the Upper 12 in.
X No Recorded Data Available			Water Marks
			Drift Lines
Field Observations:			Sediment Deposits
			X Drainage Patterns in Wetlands
Depth of Surface Water:	3	(in.)	Secondary Indicators (2 or more required):
•		. ` '	Oxidized Root Channels in Upper 12 in.
Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
•		` '	Local Soil Survey Data
Depth to Saturated Soil:		(in.)	X FAC-Neutral Test
,			Other (Explain in Remarks)
Remarks:			
Indicators of wetland hydrology were observed	I. This obse	ervation	satisfies the hydrology criterion.

SOILS							
Map Unit Na	me			Drainage Class:			
(Series and Pl	hase):						
Taxonomy (S	ubgroup):			Field Observations			
			· · · · · · · · · · · · · · · · · · ·	Confirm Mapped T	ype? Yes No		
Profile Descr	iption:						
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,		
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,		
				Contrast	Structure, etc.		
0-16	Α	2.5Y 3/1			CL		
			·				
. · · · · · · · · · · · · · · · · · · ·							
Hydric Soil I	ndicators:	******					
Histoso	1		Concretions				
	Epipedon	•	High Organic Content in Surface Layer in Sandy Soils				
Sulfidio			Organic Streaking in Sandy Soils				
	Moisture R	egime	Listed on Local Hydric Soils List				
Reducing Conditions			Listed on National Hydric Soils List				
X Gleyed or Low-Chroma Colors			Other (Explain in Remarks)				
Remarks:							
	ators were	observed. This obs	ervation satisfies the	soils criterion.			

WEILERIND DETERMINE	(ZXXXV)	`	
Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle)			
Wetland Hydrology Present?	Yes	No	Yes No (Circle)
Hydric Soils Present?	Yes	No	
Domarks:			

Remarks:

(1987 COE Wetlands Delineation Manual)

Project/Site:	Date: 8.1.2006			
Applicant/Owner: Columbus Municipal Airport Authority				County: Franklin
Investigator:	Landon McKinney			State: Ohio
Do Normal Circums	stances exist on the site?	<u>Yes</u>	No	Community ID: Wetland 17E
Is the site significan	tly disturbed (Atypical Situation)?	Yes	<u>No</u>	·
Is the area a potential Problem Area?			No	Data Point #: 60
(If needed, explain	on reverse.)			

### **VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Typha angustifolia	Forb	OBL	9.		
2. Bidens cernua	Forb	OBL	10.	· •	
3.			11.		
4.			12.		
5.			13.		
6.			14.	N	
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

#### Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

# **HYDROLOGY**

Re	ecorded Data (Describe in Remarks):		nd Hydrology Indicators:			
	Stream, Lake, or Tide Gauge			Primary Indicators:		
	Aerial Photographs			X	Inundated	
H	Other				Saturated in the Upper 12 in.	
X N	o Recorded Data Available				Water Marks	
					Drift Lines	
Field Obse	ervations:				Sediment Deposits	
				X	Drainage Patterns in Wetlands	
D	epth of Surface Water:	3	(in.)	Secon	dary Indicators (2 or more required):	
			` ,		Oxidized Root Channels in Upper 12 in.	
D	epth to Free Water in Pit:		(in.)		Water-Stained Leaves	
			, ,		Local Soil Survey Data	
D	Pepth to Saturated Soil:		(in.)	X	FAC-Neutral Test	
			` ,		Other (Explain in Remarks)	
Remarks:						

Indicators of wetland hydrology were observed. This observation satisfies the hydrology criterion.

SOILS								
Map Unit Na	me			Drainage Class:				
(Series and Pl	hase):							
Taxonomy (S	ubgroup):		Field Observations	-				
				Confirm Mapped T	ype? Yes No			
Profile Descr	iption:							
	· · · · · · · · · · · · · · · · · · ·		r		T 75			
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)	•	(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions, Structure, etc.			
		0.537.2/1		Contrast	CL			
0-16	Α	2.5Y 3/1			CL			
-								
Hydric Soil I	ndicatora	1	<u>l</u>					
Hydric Son I	nuicators.							
Histoso	.1		Concretions					
l '	Epipedon			Content in Surface	Layer in Sandy Soils			
Sulfidio			Organic Streaking in Sandy Soils					
Aguic 1	Moisture Re	egime	Listed on Local Hydric Soils List					
	ng Conditio		Listed on Na	tional Hydric Soils L	ist			
		roma Colors	Other (Expla	ain in Remarks)				
Remarks:				· .				
Hydric indica	ators were	observed. This obs	ervation satisfies the	soils criterion.				

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle)			
Wetland Hydrology Present?	<u>Yes</u>	No	Yes No (Circle)
Hydric Soils Present?	<u>Yes</u>	No	

#### Remarks:

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: County: State:	8.1.2006 Franklin Ohio
	stances exist on the site?	Yes Yes	No	Commun	ity ID: Wetland 17F
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)		Yes	No No	Data Poi	nt #: 61

### **VEGETATION**

I	Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.	Typha angustifolia	Forb	OBL	9.		
2.	Bidens cernua	Forb	OBL	10.		
3.				11.		
4.				12.		
5.				13.		
6.				14.		
7.				15.		
8.				16.	<u> </u>	<u> </u>

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
Stream, Lake, or Tide Gauge			Primary Indicators:
Aerial Photographs			X Inundated
Other			Saturated in the Upper 12 in.
X No Recorded Data Available			Water Marks
			Drift Lines
Field Observations:			Sediment Deposits
			X Drainage Patterns in Wetlands
Depth of Surface Water:	3	(in.)	
			Oxidized Root Channels in Upper 12 i
Depth to Free Water in Pit:		(in.)	) Water-Stained Leaves
,		```	Local Soil Survey Data
Depth to Saturated Soil:		(in.)	X FAC-Neutral Test
<b>P</b>			Other (Explain in Remarks)
Remarks: Indicators of wetland hydrology were observed		·	

#### SOILS

Map Unit Na	me			Drainage Class:	
(Series and P					
Taxonomy (S	ubgroup):			Field Observations	
				Confirm Mapped 7	ype? Yes No
Profile Descr	iption:				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
				Contrast	Structure, etc.
0-16	A	2.5Y 3/1			CL
	l	<u> </u>			
Hydric Soil I	ndicators:				
Histoso	.1		Concretions		
	n Epipedon			Content in Surface I	aver in Sandy Soils
Sulfidio				king in Sandy Soils	Sayor in Sanay Sono
	Moisture Re	egime		cal Hydric Soils List	
	ng Conditio			ional Hydric Soils L	ist
		iroma Colors		in in Remarks)	
Remarks:		· · · · · · · · · · · · · · · · · · ·	<u> </u>		
Hydric indica	ators were o	observed. This obse	ervation satisfies the	soils criterion.	
			•		

# WETLAND DETERMINATION

		•					
Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?				
Present? (Circle) Wetland Hydrology Present?	Yes	No	Yes No (Circle)				
Hydric Soils Present?	Yes	No					
Remarks:							

(1987 COE Wetlands Delineation Manual)

Project/Site:	Date: 8.1.2006			
Applicant/Owner:	Columbus Municipal Airport Author	County: Franklin		
Investigator:	Landon McKinney	State: Ohio		
1		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 17G  Data Point #: 62

# **VEGETATION**

I	Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.	Typha angustifolia	Forb	OBL	9.		
2.	Bidens cernua	Forb	OBL	10.		
3.				11.		
4.				12.		
5.				13.		
6.				14.		
7.				15.		
8.				16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):		Wetland Hydrology Indicators:		
	Stream, Lake, or Tide Gauge		Primary Indicators:		
	Aerial Photographs			X Inundated	
	Other			Saturated in the Upper 12 in.	
X	No Recorded Data Available			Water Marks	
				Drift Lines	
Field (	Observations:			Sediment Deposits	
				X Drainage Patterns in Wetlands	
	Depth of Surface Water:	3	(in.)	Secondary Indicators (2 or more required):	
	•			Oxidized Root Channels in Upper 12 in.	
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves	
				Local Soil Survey Data	
	Depth to Saturated Soil:		(in.)	X FAC-Neutral Test	
			, , , ,	Other (Explain in Remarks)	
Remar	ks:				
Indica	tors of wetland hydrology were observed.	This obse	rvation s	satisfies the hydrology criterion.	

SOILS					41-2				
Map Unit Na	ne		Drainage Class:						
(Series and Pl									
Taxonomy (S	ubgroup):		Field Observations						
				Confirm Mapped T	ype? Yes No				
Profile Descr	iption:								
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,				
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,				
				Contrast	Structure, etc.				
0-16	Α	2.5Y 3/1			CL				
•									
Hydric Soil I	ndicators:								
Histoso	ol		Concretions						
Histic I	Epipedon			Organic Content in Surface Layer in Sandy Soils					
Sulfidio				Organic Streaking in Sandy Soils					
	Moisture Re			cal Hydric Soils List					
	ng Conditio			Listed on National Hydric Soils List					
X Gleyed	or Low-Ch	roma Colors	Other (Expla	in in Remarks)					
Remarks:					the second second				
Hydric indica	ators were o	observed. This obs	ervation satisfies the	soils criterion.					
					•				
			•						

	TXIIOI	1	
Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle)			
Wetland Hydrology Present?	Yes	No	<u>Yes</u> No (Circle)
Hydric Soils Present?	Yes	No	
		-	· · · · · · · · · · · · · · · · · · ·

### Remarks:

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.1.2006 County: Franklin State: Ohio
		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 17H  Data Point #: 63

# **VEGETATION**

I	Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.	Typha angustifolia	Forb	OBL	9.		
2.	Bidens cernua	Forb	OBL	10.		
3.				11.	-	
4.				12.		
5.				13.		
6.				14.		
7.				15.		
8.				16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

#### Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge	,		Wetland Hydrology Indicators: Primary Indicators:
	Aerial Photographs			X Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks Drift Lines
Field (	Observations:			Sediment Deposits
				X Drainage Patterns in Wetlands
	Depth of Surface Water:	3	(in.)	Secondary Indicators (2 or more required):
	•			Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
	•			Local Soil Survey Data
	Depth to Saturated Soil:		(in.)	X FAC-Neutral Test
				Other (Explain in Remarks)
Rema				
Indica	tors of wetland hydrology were observed. 3	This obse	ervation:	satisfies the hydrology criterion.

SOILS								
Map Unit Na	me			Drainage Class:				
(Series and Pl			•					
Taxonomy (S	ubgroup):			Field Observations				
				Confirm Mapped T	ype? Yes No			
Profile Descr	iption:				-			
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
,				Contrast	Structure, etc.			
0-16	A	2.5Y 3/1			CL			
					,			
			<u> </u>					
Hydric Soil I	ndicators:							
Histoso	ol		Concretions					
Histic I	Epipedon		High Organic Content in Surface Layer in Sandy Soils					
Sulfidio			Organic Streaking in Sandy Soils					
Aquic l	Moisture Re	egime	Listed on Local Hydric Soils List					
	ng Conditio			tional Hydric Soils Li	ist			
X Gleyed	or Low-Ch	roma Colors	Other (Expla	in in Remarks)				
Remarks:								
Hydric indica	ators were	bserved. This obs	ervation satisfies the	soils criterion.				

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle) Wetland Hydrology Present?	Yes	No	Yes No (Circle)
Hydric Soils Present?	Yes	No	

(1987 COE Wetlands Delineation Manual)

Project/Site:	Port Columbus International Airport			Date: 8.1.2006
Applicant/Owner:	Columbus Municipal Airport Author	County: Franklin		
Investigator:	Landon McKinney	State: Ohio		
	stances exist on the site?	Yes Vac	No	Community ID: Wetland 17I
Is the site significant Is the area a potenti (If needed, explain		Yes Yes	No No	Data Point #: 64

# **VEGETATION**

I	Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.	Typha angustifolia	Forb	OBL	9.		
2.	Bidens cernua	Forb	OBL	10.		
3.				11.		
4.		<u> </u>		12.		
5.				13.		
6.				14.		
7.				15.		
8.				16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

Reco	orded Data (Describe in Remarks):			Wetla	nd Hydrology Indicators:	
	Stream, Lake, or Tide Gauge			Primary Indicators:		
	Aerial Photographs			X	Inundated	
	Other				Saturated in the Upper 12 in.	
X No l	Recorded Data Available				Water Marks	
					Drift Lines	
Field Observ	ations:				Sediment Deposits	
			:	X	Drainage Patterns in Wetlands	
Dep	th of Surface Water:	3	(in.)	Secon	dary Indicators (2 or more required):	
•			` .		Oxidized Root Channels in Upper 12 in.	
Dep	oth to Free Water in Pit:		(in.)	-	Water-Stained Leaves	
			, .		Local Soil Survey Data	
Dep	oth to Saturated Soil:		(in.)	X	FAC-Neutral Test	
			• •		Other (Explain in Remarks)	
Remarks:						
Indicators of	wetland hydrology were observed. The	his obser	vation	satisfies	the hydrology criterion.	

SOILS								
Map Unit Na	me		Drainage Class:	Drainage Class:				
(Series and Pl								
Taxonomy (S				Field Observations				
, ,	<i>D</i> 17			Confirm Mapped T	ype? Yes No			
Profile Descr	iption:				:			
				136.41	Transfer			
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
				Contrast	Structure, etc.			
0-16	Α	2.5Y 3/1			CL			
		, , , , , , , , , , , , , , , , , , , ,						
		·						
Hydric Soil I	ndicators:	<u> </u>						
Histoso			Concretions					
Histic I	Epipedon		High Organic Content in Surface Layer in Sandy Soils					
Sulfidio			Organic Stre	aking in Sandy Soils				
	Moisture Re	egime	Listed on Lo	ed on Local Hydric Soils List				
	ng Conditio			tional Hydric Soils L	ist			
		roma Colors		in in Remarks)	•			
Remarks:			1					
	ators were o	bserved This obse	ervation satisfies the	soils criterion.				
i Trydric indica	11013 WOIO C	705 <b>01</b> 7 Cd. 11115 005	or vacious battories are		•			
* .								
	*							

	CATAC	1	
Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle)			
Wetland Hydrology Present?	Yes	No	Yes No (Circle)
Hydric Soils Present?	<u>Yes</u>	No	

### Remarks:

(1987 COE Wetlands Delineation Manual)

Applicant/Owner:	Port Columbus international Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.1.2006 County: Franklin State: Ohio
H		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Non-wetland  Data Point #: 65

### **VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Poa pratensis	Grass	UPL	9.		
2. Festuca elatior	Grass	UPL	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		1.
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 0%

Less than half of the dominant species are hydrophytic. This observation does not satisfy the vegetation criterion.

### **HYDROLOGY**

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
İ	Aerial Photographs		,	Inundated
	Other			Saturated in the Upper 12 in.
X	No Recorded Data Available			Water Marks
				Drift Lines
Field (	Observations:			Sediment Deposits
				Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
	•			Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
	•		٠. ٠	Local Soil Survey Data
	Depth to Saturated Soil:	>4	(in.)	FAC-Neutral Test
	*		. ,	Other (Explain in Remarks)
Remai	ks.			

Sufficient indicators of wetland hydrology were not observed. This observation does not satisfy the hydrology criterion.

### SOILS

SOIDS					
Map Unit Nai	me			Drainage Class:	
(Series and Pl	hase):				
Taxonomy (S				Field Observations	
				Confirm Mapped T	ype? Yes No
Profile Descr	iption:				
	•				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
(=				Contrast	Structure, etc.
0-4	A	10YR 4/4			SL
4+	Impenetra				
-					
Hydric Soil I	ndicators:				
Histoso	l		Concretions		
	Epipedon			: Content in Surface I	Layer in Sandy Soils
Sulfidio	Odor			aking in Sandy Soils	
Aquic I	Moisture Re	egime		cal Hydric Soils List	
Reducii	ng Conditio	ons	Listed on Nat	tional Hydric Soils L	ist
		roma Colors	Other (Explai	in in Remarks)	
Remarks:					
Hydric indica	ators were r	not observed. This	observation does not	satisfy the soils crite	rion.

# WETLAND DETERMINATION

Hydrophytic Vegetation Present? (Circle)	Yes	<u>No</u>	Is this Sampling Point Within a Wetland?
Wetland Hydrology Present?	Yes	<u>No</u>	Yes No (Circle)
Hydric Soils Present?	Yes	No	
Remarks:			
This area satisfies none of the th	ree criter	ia and is n	ot a wetland.

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney	Date: 8.1.2006 County: Franklin State: Ohio		
ll .	stances exist on the site?	Yes	No	Community ID: Wetland 18
Is the area a potenti		Yes Yes	<u>No</u> <u>No</u>	Data Point #: 66
(If needed, explain	on reverse.)			

# **VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Typha angustifolia	Forb	OBL	9.		
2.			10.		
3.			11.	-	
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 100%

Remarks:

Greater than half of the dominant species are hydrophytic. This observation satisfies the vegetation criterion.

	Recorded Data (Describe in Remarks):		Wetland Hydrology Indicators:
l	Stream, Lake, or Tide Gauge		Primary Indicators:
	Aerial Photographs		X Inundated
	Other		Saturated in the Upper 12 in.
X	No Recorded Data Available		Water Marks
			Drift Lines
Field (	Observations:		Sediment Deposits
			X Drainage Patterns in Wetlands
	Depth of Surface Water:	3 (in.)	Secondary Indicators (2 or more required):
	F		Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:	(in.)	Water-Stained Leaves
		. ,	Local Soil Survey Data
	Depth to Saturated Soil:	(in.)	X FAC-Neutral Test
	F	` ,	Other (Explain in Remarks)
Rema	rks:		
	tors of wetland hydrology were observed. This	observation	satisfies the hydrology criterion.
maica	nois of wettand hydrology were observed. This	ouser varion	satisfies the hydrorogy officialis.

## SOILS

ne		Drainage Class:					
		Field Observations	•				
D- ~ ~ P).			ype? Yes No				
ntion	<del></del>		John Mapped 1	JF 1-0 110			
ipuon.							
	132.1 = 3	1.6.11.0.1	3.5 (1)	m .			
Horizon	1 .			Texture,			
	(Munsell Moist)	(Munsell Moist)		Concretions,			
			Contrast	Structure, etc.			
A	2.5Y 3/1			CL			
idicatore.	<u> </u>	<del> </del>		1			
iaioaio13.							
1		Concretions					
			Content in Confess I	over in Condy Coils			
				Jayor III Salluy Sulls			
	•						
or Low-Ch	roma Colors	Other (Explai	n in Remarks)				
tors were c	bserved. This obse	ervation satisfies the s	soils criterion.				
	•	•		•			
	ndicators:  Epipedon Odor Moisture Re ng Conditio or Low-Ch	hase): ubgroup):  Horizon Matrix Color (Munsell Moist)  A 2.5Y 3/1  Indicators:  I Epipedon Odor Moisture Regime ng Conditions or Low-Chroma Colors	hase): ubgroup):  Horizon Matrix Color (Munsell Moist)  A 2.5Y 3/1  A 2.5Y 3/1  Concretions High Organic Organic Streat Moisture Regime Indicators Listed on Loc Listed on Nator Other (Explain	mase): ubgroup):  Field Observations Confirm Mapped T  Population:  Horizon Matrix Color (Munsell Moist) Moist (Munsell Moist)  A 2.5Y 3/1  Concretions  Popipedon High Organic Content in Surface I Codor Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Listed on National Hydric Soils List			

# WETLAND DETERMINATION

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this Sampling Point Within a Wetland?
Wetland Hydrology Present?	Yes	No	Yes No (Circle)
Hydric Soils Present?	<u>Yes</u>	No	

#### Demarks

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	Port Columbus international Airport Columbus Municipal Airport Author Landon McKinney	Date: 8.1.2006 County: Franklin State: Ohio		
		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Non-wetland  Data Point #: 67

### VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Poa pratensis	Grass	UPL	9.		
2. Festuca elatior	Grass	UPL	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.	<u> </u>	<u> </u>

Percent of Dominant Species that are OBL, FACW or FAC (Excluding FAC-). 0%

#### Remarks:

Less than half of the dominant species are hydrophytic. This observation does not satisfy the vegetation criterion.

### **HYDROLOGY**

	Recorded Data (Describe in Remarks):			Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge		1	Primary Indicators:
	Aerial Photographs			Inundated
	Other			Saturated in the Upper 12 in.
$\mathbf{x}$				Water Marks
1.				Drift Lines
Field	Observations:			Sediment Deposits
1 lold	Tota Observations.			Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
	Depart of Sarrace Water.		( )	Oxidized Root Channels in Upper 12 in.
	Depth to Free Water in Pit:		(in.)	Water-Stained Leaves
	Dopin to Free Water in Fin			Local Soil Survey Data
	Depth to Saturated Soil:		(in.)	FAC-Neutral Test
	Depin to Saturated Bott.	•	()	Other (Explain in Remarks)

Sufficient indicators of wetland hydrology were not observed. This observation does not satisfy the hydrology criterion.

#### SOILS

SOITS							
Map Unit Na	me			Drainage Class:			
(Series and P	hase):						
Taxonomy (S	ubgroup):			Field Observations			
				Confirm Mapped T	ype? Yes No		
Profile Descr	iption:						
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,		
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,		
				Contrast	Structure, etc.		
0-4	A	10YR 4/4			SL		
4+	Impenetra	able Fill	• .				
				<u> </u>			
Hydric Soil I	ndicators:						
Histoso			Concretions				
	Epipedon		High Organic Content in Surface Layer in Sandy Soils				
Sulfidio				aking in Sandy Soils			
	Moisture Re			cal Hydric Soils List			
	ng Conditio			tional Hydric Soils L	ist		
	or Low-Ch	roma Colors	Other (Expla	in in Remarks)			
Remarks:							
Hydric indica	itors were r	not observed. This	observation does not	satisfy the soils crite	rion.		
				*			
			•				

# WETLAND DETERMINATION

Hydrophytic Vegetation Present? (Circle)	Yes	<u>No</u>	Is this Sampling Point Within a Wetland?
Wetland Hydrology Present?	Yes	<u>No</u>	Yes <u>No</u> (Circle)
Hydric Soils Present?	Yes	No	
D 1			

Remarks

This area satisfies none of the three criteria and is not a wetland.

**APPENDIX D: ORAM V.5.0 FORMS** 

# Background Information

Name: L. McKINNEY
Date: 8/8/06
Affiliation: ASC GROUP, HC.
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 859 - 746 - 1967
e-mail address: LMCKINNEY @ ASCGNOUP. NET
Name of Wetland: WETLAND
Vegetation Communit(ies): FORESTED
HGM Class(es): DEPRESSION
Cation of Wetland include map, address, north arrow, landmarks, distances, roads, etc.
International Gateway  Werning N  Sth Ave  5th Ave
Lat/Long or UTM Coordinate
USGS Quad Name N.E. COLUMBUS
County Franklin
Township —
Section and Subsection
Hydrologic Unit Code 0.50 600 01 - 140
Site Visit 8 8 0 0
National Wetland Inventory Map N.E. Cocumbus
Ohio Wetland Inventory Map
Soil Survey Franklin
Delineation report/map
Wetland Size (acres, hectares)

etch (in	clude north arrow, rel	ationship with other surface	waters, vegetation :	cones, etc.)		
				1 ~	<i>)</i> 	
		OLD FIELD				
		2 No Gran	vry forest		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
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	GROWT	u Forest				
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# **Narrative Rating**

INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature and by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43224, 614-265-6453 (phone), 614-265-3096 (fax), http://www.dnr.state.oh.us/odnr/dnap/. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is a legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Reynoldsburg Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

<u> </u>	Question	Circle one	
•	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2	NO Go to Question 2
2	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES  Wetland is a Category 3 wetland.  Go to Question 3	NO Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category	NO Go to Question 4
		3 wetland Go to Question 4	Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland	NO Go to Question 5
		Go to Question 5	
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea</i> , <i>Lythrum salicaria</i> , or <i>Phragmites australis</i> , or 2) an acidic pond created or excavated on mined lands that has little or	YES Wetland is a Category 1 wetland	NO Go to Question 6
	no vegetation?	Go to Question 6	
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses,	YES	NO
	particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	Wetland is a Category 3 wetland	Go to Question
		Go to Question 7	
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is the saturated during most of the year, primarily by a discharge of	YES	NO
	free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	Wetland is a Category 3 wetland	Go to Question
	The second of the second secon	Go to Question 8a	

#	Question	Circle one	
8a	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	YES Wetland is a Category 3 wetland. Go to Question 8b	Go to Question 8b
8b	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	Wetland should be evaluated for possible Category 3 status.  Go to Question 9a	NO Go to Question 9a
9a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	YES Go to Question 9b	NO Go to Question 10
9b	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 9d	NO Go to Question 9c
9c	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	YES Go to Question 9d	NO Go to Question 9d
9d	Does the wetland have a predominance of native species within its vegetation communities, although non-native or disturbance tolerant native species can also be present?	YES  Wetland is a Category 3 wetland  Go to Question 10	NO Go to Question 9e
9e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES  Wetland should be evaluated for possible Category 3 status Go to Question 10	NO Go to Question 10
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in Lucas, Fulton, Henry, or Wood Countles and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	YES  Wetland is a Category 3 wetland.  Go to Question 11	Go to Question 11
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madlson and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio, Erie County, and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).	YES  Wetland should be evaluated for possible Category 3 status  Complete Quantitative Rating	Complete Quantitative Rating

Site:	WETL	AND	Rater(s): L.	McKinney	Date: 8 8 06
1	1	Metric 1. Wetland	Area (size)		
max 6 pts.	sublotal	Select one size class and assign score.  >50 acres (>20.2ha) (6 pts)  25 to <50 acres (10.1 to <20.2  10 to <25 acres (4 to <10.1ha  3 to <10 acres (1.2 to <4ha) (0  0.3 to <3 acres (0.12 to <1.2ha)  0.1 to <0.3 acres (0.04 to <0.1  <0.1 acres (0.04ha) (0 pts)	2ha) (5 pts) ) (4 pts) 3 pts) a) (2pts)		
17	8	Metric 2. Upland b	uffers and	surrounding land	d use.
max 14 pts.	sublotal	2a. Calculate average buffer width. Se WIDE. Buffers average 50m ( MEDIUM. Buffers average 25	lect only one and assign (164ft) or more around v im to <50m (82 to <164f 0m to <25m (32ft to <8 erage <10m (<32ft) arou	score. Do not double check. vetland perimeter (7) t) around wetland perimeter (4) 2ft) around wetland perimeter (1) ind wetland perimeter (0)	
		VERY LOW. 2nd growth or of LOW. Old field (>10 years), s	der forest, prairie, savai hrubland, young second ential, fenced pasture, p	nnah, wildlife area, etc. (7) I growth forest. (5) Park, conservation tillage, new fallow	field. (3)
14	22	Metric 3. Hydrolog	1V.		
max 30 pts.	subtotal	3a. Sources of Water. Score all that ap High pH groundwater (5) Other groundwater (3) Precipitation (1) Seasonal/Intermittent surface Perennial surface water (lake 3c. Maximum water depth. Select only >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) (2  <0.4m (<15.7in) (1) 3e. Modifications to natural hydrologic	water (3) or stream) (5) one and assign score.	Part of wetland/up Part of riparian or 3d. Duration inundation/sa Semi- to permane Regularly inundat Seasonally inundat Seasonally satura	an (1) ake and other human use (1) bland (e.g. forest), complex (1) upland corridor (1) turation. Score one or dbl check. ently inundated/saturated (4) ed/saturated (3)
pone	······································	None or none apparent (12) Recovered (7) Recovering (3) Recent or no recovery (1)	Check all disturbance ditch title dike weir stormwater inpur	s observed  point source (non filling/grading road bed/RR trac dredging	
13	35	Metric 4. Habitat A	Alteration a	nd Development.	· ·
max 20 pts.	. subtotal	4a. Substrate disturbance. Score one  None or none apparent (4)  Recovered (3)  Recovering (2)  Recent or no recovery (1)  4b. Habitat development. Select only  Excellent (7)  Very good (6)  Good (5)	or double check and av		
		Moderately good (4) Fair (3) Poor to fair (2) Poor (1)  4c. Habitat alteration. Score one or do	ouble check and averag	e.	
	35	None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)	Check all disturbance mowing grazing clearcutting selective cutting woody debris re toxic pollutants	shrub/sapling rer herbaceous/aqua sedimentation dredging	atic bed removal

te:	Ra	ater(s):	Date:
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135			
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subtotal this p	1		
5 40	Metric 5. Special Wet	tlands.	
10 pts. subtotal	Check all that apply and score as indicated.	ciariaci	
TO pis. Subtotal	Bog (10)		
	Fen (10)		
	Old growth forest (10)	•	
	Mature forested wetland (5)		(40)
	Lake Erie coastal/tributary wetland- Lake Erie coastal/tributary wetland-		
	Lake Plain Sand Prairies (Oak Ope		1
	Relict Wet Praires (10)		
	Known occurrence state/federal thro	eatened or endangered	d species (10)
	Significant migratory songbird/wate	r fowl habitat or usage	(10)
	Category 1 Wetland. See Question	n 1 Qualitative Rating (-	-10)
5   45	Ma tois C Disent server		torenergian microtonography
13			terspersion, microtopography
x 20 pts. subtotal	6a. Wetland Vegetation Communities.	Vegetation Commu	nity Cover Scale Absent or comprises <0.1ha (0.2471 acres) contiguous area
	Score all present using 0 to 3 scale.	0	Present and either comprises small part of wetland's
•	Aquatic bed Emergent		vegetation and is of moderate quality, or comprises a
	Shrub		significant part but is of low quality
	2 Forest	2	Present and either comprises significant part of wetland's
	Mudflats		vegetation and is of moderate quality or comprises a sma
	Open water		part and is of high quality
	Other	3	Present and comprises significant part, or more, of wetland
	6b. horizontal (plan view) Interspersion.		vegetation and is of high quality
	Select only one.	Name and the second section	as Vanatation Quality
	High (5)	Narrative Description	on of Vegetation Quality
	- · ·	low.	If ow son diversity and/or predominance of nonnative or
	Moderately high(4)	low	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species
	Moderately high(4) Moderate (3)	law mod	disturbance tolerant native species
	Moderately high(4)		disturbance tolerant native species  Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp
	Moderately high(4) Moderate (3) Moderately low (2)		disturbance tolerant native species  Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to
	Moderately high(4) Moderate (3) Moderately low (2) Low (1)		disturbance tolerant native species  Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare
	Moderately high(4) Moderate (3) Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add	mod	disturbance tolerant native species  Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp
	Moderately high(4) Moderate (3) Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage		disturbance tolerant native species  Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp
	Moderately high(4) Moderate (3) Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5)	mod	disturbance tolerant native species  Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually
	Moderately high(4) Moderate (3) Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-3)	mod	disturbance tolerant native species  Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native specien also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always,
	Moderately high(4) Moderate (3) Moderately low (2) Low (1) None (0) Gc. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-3) Sparse 5-25% cover (-1)	mod	disturbance tolerant native species  Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually
	Moderately high(4) Moderate (3) Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-3)	mod	disturbance tolerant native species  Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp
	Moderately high(4) Moderate (3) Moderately low (2) Low (1) None (0) Gc. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-1) Nearly absent <5% cover (0)	mod	disturbance tolerant native species  Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Water Class Quality  Absent <0.1ha (0.247 acres)
	Moderately high(4) Moderately low (2) Low (1) None (0) Gc. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1) Gd. Microtopography. Score all present using 0 to 3 scale.	high  Mudflat and Open V  0	disturbance tolerant native species  Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native sppcan also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative sppand/or disturbance tolerant native sppabsent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Water Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)
	Moderately high(4) Moderately low (2) Low (1) None (0) Gc. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-1) Nearly absent <5% cover (0) Absent (1) Gd. Microtopography. Score all present using 0 to 3 scale. Vegetated hummucks/tussucks	mod high  Mudflat and Open V 0 1 2	disturbance tolerant native species  Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Water Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)
	Moderately high(4) Moderately low (2) Low (1) None (0) Gc. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1) Gd. Microtopography. Score all present using 0 to 3 scale. Vegetated hummucks/tussucks Coarse woody debris >15cm (6in)	high  Mudflat and Open V  0	disturbance tolerant native species  Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native sppcan also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative sppand/or disturbance tolerant native sppabsent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Water Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)
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	Moderately high(4) Moderately low (2) Low (1) None (0) Gc. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1) Gd. Microtopography. Score all present using 0 to 3 scale. Vegetated hummucks/tussucks Coarse woody debris >15cm (6in)	mod  high  Mudflat and Open V 0 1 2 3  Microtopography C	disturbance tolerant native species  Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Water Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more
	Moderately high(4) Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1) 6d. Microtopography. Score all present using 0 to 3 scale. Vegetated hummucks/tussucks Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh	mod high  Mudflat and Open V 0 1 2 3	disturbance tolerant native species  Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Water Class Quality  Absent <0.1ha (0.247 acres)  Low 0,1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more
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	Moderately high(4) Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1) 6d. Microtopography. Score all present using 0 to 3 scale. Vegetated hummucks/tussucks Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh	mod  high  Mudflat and Open V  0  1  2  3  Microtopography C	disturbance tolerant native species  Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Water Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  Cover Scale  Absent  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest
	Moderately high(4) Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1) 6d. Microtopography. Score all present using 0 to 3 scale. Vegetated hummucks/tussucks Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh	mod  high  Mudflat and Open V 0 1 2 3  Microtopography C 0 1	disturbance tolerant native species  Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Water Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  Cover Scale  Absent  Present very small amounts or if more common of marginal quality

# Background Information

Name: L. McKINNEY
Date: 8 8 06
Affiliation: ASC GROUP, INC.
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 859 - 146 - 1967
e-mail address: LMCKINNEY ( ASCGNOUP. NET
Name of Wetland: WETLAND 2
Vegetation Communit(ies): FORESTEO
HGM Class(es): DEPRESSION
cation of Wetland include map, address, north arrow, landmarks, distances, roads, etc.
International Gateway  17th to Sth Ave  Sth Ave
Lat/Long or UTM Coordinate
USGS Quad Name N.E. COLUMBUS
County Frankling
Township
Section and Subsection –
Hydrologic Unit Code 05 06 0001 - 140
Site Visit 8 8 06
National Wetland Inventory Map  N.E. Columbus
Ohio Wetland Inventory Map
Soil Survey Franklin
Delineation report/map
Wetland Size (acres, hectares)

Name:
sketch (include north arrow, relationship with other surface waters, vegetation zones, etc.)
MONED OLD FIELD
DLO PIECO
Merest Owned Read Stand
MOWED
RESIDENTIAL
Comments, Narrative Discussion, Justification of Category Changes
FORESTED WETLAND WITH ACER SACCHARIMUM, FRAYINUS
PENNSYLVANICA, QUENCUS PALUSTRIS, SECONO GROWTH.
Final score: 48 Category 2

## **Narrative Rating**

INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature and by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43224, 614-265-6453 (phone), 614-265-3096 (fax), http://www.dnr.state.oh.us/odnr/dnap/. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is a legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Reynoldsburg Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Ohio database.

‡	Question	Circle one	
<b>!</b>	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2	NO Go to Question 2
2	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES  Wetland is a Category 3 wetland.  Go to Question 3	NO Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland Go to Question 5	Go to Question 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea</i> , <i>Lythrum salicaria</i> , or <i>Phragmites australis</i> , or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland Go to Question 6	NO) Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	Go to Question 7
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is the saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland	Go to Question

#	Question	Circle one	
8a ,	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a	YES (	NO Go to Question 8b
	projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	3 wetland.  Go to Question 8b	
8b	Mature forested wetlands. Is the welland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	YES  Wetland should be evaluated for possible Category 3 status.	NO Go to Question 9a
		Go to Question 9a	
9a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this	YES	6
	elevation, or along a tributary to Lake Erie that is accessible to fish?	Go to Question 9b	Go to Question 10
9b	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible Category 3 status	NO Go to Question 9c
		Go to Question 9d	
9c	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an	YES Go to Question 9d	NO Go to Question 9d
	"estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.		
9d	Does the wetland have a predominance of native species within its vegetation communities, although non-native or disturbance tolerant native species can also be present?	YES Wetland is a Category 3 wetland	NO Go to Question 9e
		Go to Question 10	
9e	Does the wetland have a predominance of non-native or disturbance	YES	NO
	tolerant native plant species within its vegetation communities?	Wetland should be evaluated for possible Category 3 status	Go to Question 10
		Go to Question 10	
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in Lucas, Fulton, Henry, or Wood Countles and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within	YES	NO
		Wetland is a Category 3 wetland.	Go to Question 11
	several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	Go to Question 11	
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio, Erie County, and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).	YES  Wetland should be evaluated for possible Category 3 status	NO Complete Quantitative Rating
	Godines (e.g. Dane, morour, maril, monigoritory, etc.).	Complete Quantitative Rating	

woody debris removal

toxic pollutants

farming

nutrient enrichment

subtotal this page

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	37			
		<u>'</u>		
s	ubtotal this pa	ge <b>"I</b>		•
_	1/2			
5	42	Metric 5. Special We	tlands.	
x 10 pts.	subtotal	Check all that apply and score as indicated.		
		Bog (10)		
		Fen (10)		
		Old growth forest (10)	•	
		Mature forested wetland (5)		. (40)
		Lake Erie coastal/tributary wetland		
		Lake Plain Sand Prairies (Oak Ope		<i>n</i> .
		Relict Wet Prairies (10)	ga) ( 10)	
		Known occurrence state/federal thr	eatened or endangere	d species (10)
		Significant migratory songbird/wate	_	
		Category 1 Wetland. See Question		
,	40		i	
6	48	Metric 6. Plant comn	nunities, in	iterspersion, microtopography
x 20 pts.	sublotal	6a. Wetland Vegetation Communities.	Vegetation Commu	nity Cover Scale
		Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
		Aquatic bed	1	Present and either comprises small part of wetland's
		Emergent		vegetation and is of moderate quality, or comprises a
		Shrub		significant part but is of low quality
		2 Forest	2	Present and either comprises significant part of wetland's
		Mudflats	•	vegetation and is of moderate quality or comprises a small
		Open water		part and is of high quality  Present and comprises significant part, or more, of wetland
		Other	3	vegetation and is of high quality
		6b. horizontal (plan view) Interspersion. Select only one.		Vogetation and is or right quality
		High (5)	Narrative Description	on of Vegetation Quality
		Moderately high(4)	low	Low spp diversity and/or predominance of nonnative or
		Moderate (3)	•	disturbance tolerant native species
		Moderately low (2)	mod	Native spp are dominant component of the vegetation,
		<b>★</b> Low (1)		although nonnative and/or disturbance tolerant native spp
		None (0)		can also be present, and species diversity moderate to
		6c. Coverage of invasive plants. Refer		moderately high, but generallyw/o presence of rare
		to Table 1 ORAM long form for list. Add		threatened or endangered spp
		or deduct points for coverage	high	A predominance of native species, with nonnative spp
		Interestation of the contract		1
		Extensive >75% cover (-5)		and/or disturbance tolerant native spp absent or virtually
		Extensive >75% cover (-5) Moderate 25-75% cover (-3)		absent, and high spp diversity and often, but not always,
		Extensive >75% cover (-5) Moderate 25-75% cover (-3) Sparse 5-25% cover (-1)	BESTEROIDA POR ES CONCENSANO SECTIVA DE ASSESSE ASSESSES	and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp
		Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)	Mudflat and Open \	absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp
		Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)	Mudflat and Open \	absent, and high spp diversity and often, but not always,
		Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.		absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Water Class Quality
		Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)	0	absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Water Class Quality  Absent <0.1ha (0.247 acres)
		Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.	0 1	absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Water Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)
		Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks	0 1 2 3	absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Water Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more
		Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in)	0 1 2	absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Water Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  Cover Scale
		Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in)  Standing dead >25cm (10in) dbh	0 1 2 3 Microtopography C	absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Water Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  Cover Scale  Absent
		Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in)  Standing dead >25cm (10in) dbh	0 1 2 3 Microtopography C	absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Water Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  Cover Scale  Absent  Present very small amounts or if more common
		Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in)  Standing dead >25cm (10in) dbh	0 1 2 3 Microtopography C 0 1	absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Water Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  Cover Scale  Absent  Present very small amounts or if more common of marginal quality
		Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in)  Standing dead >25cm (10in) dbh	0 1 2 3 Microtopography C	absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Water Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  Cover Scale  Absent  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest
		Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in)  Standing dead >25cm (10in) dbh	0 1 2 3 Microtopography C 0 1	absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Water Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  Cover Scale  Absent  Present very small amounts or if more common of marginal quality

# Background Information

Name: L. McKINNEY
Date: 8 8 06
Affiliation: ASC GROUP, WC.
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 859 - 746 - 1967
e-mail address: LMCKINNET ( ASCGNOUP. NET
Name of Wetland: WETLAND 3
Vegetation Communit(ies): Foresteo
HGM Class(es): DEFRESSION
Coation of Wetland include map, address, north arrow, landmarks, distances, roads, etc.
International Gateway  The tree is the tree is the state of the state
Lat/Long or UTM Coordinate
USGS Quad Name N.E. COLJMBUS
County Franking
Township
Section and Subsection
Hydrologic Unit Code 0506 0001 - 140
Site Visit 8 8 0 6
National Wetland Inventory Map  N.E. Colombus
Ohio Wetland Inventory Map  NA
Soil Survey Frankling
Delineation report/map  Wetland Size (acres, hectares)  (), 06 a.c.
Troughy Dize (adies, lieutales)

Name:				
sketch (include north arrow, relation	onship with other surface	ce waters, vegetation	zones, etc.)	
		•	1	$\sim$
	olo f	PIECO		
	Hardwang gayan an an and the state of the State of the Palabasa and Lagrange at the State of the Palabasa and Lagrange at the State of the State o			
	SECONO	GROWTH For	137	
			WETLAND	
	MOWED	'		
				K FENCE
Comments, Narrative Discussion,	Justification of Categor			
FORESTE	ED WETLAND	IN SECON	O GNOWTH F	DREST
				•
Final score: 39			Category	mon 2

ŧ .	Question	Circle one	
	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2	Go to Question 2
2	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES  Wetland is a Category 3 wetland.  Go to Question 3	Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	NO) Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland Go to Question 5	Go to Question 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea</i> , <i>Lythrum salicaria</i> , or <i>Phragmites australis</i> , or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland Go to Question 6	NO) Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	NO Go to Question 7
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is the saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland Go to Question 8a	Go to Question 8:

#	Ougetion	Circle one	
+	Question		
Ba	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100	YES Wetland is a Category 3 wetland.	Go to Question 8b
	years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	Go to Question 8b	
b	Mature forested wetlands. Is the wetland a forested wetland with	(YES)	ИО
	50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	Wetland should be evaluated for possible Category 3 status.	Go to Question 9a
		Go to Question 9a	
a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this	YES	(NO)
	elevation, or along a tributary to Lake Erie that is accessible to fish?	Go to Question 9b	Go to Question 10
b	Does the wetland's hydrology result from measures designed to	YES	NO
	prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible Category 3 status	Go to Question 90
		Go to Question 9d	
C	Are Lake Erie water levels the wetland's primary hydrological influence,	YES	ИО
	i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	Go to Question 9d	Go to Question 90
d d	Does the wetland have a predominance of native species within its	YES	NO
<b>-</b>	vegetation communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9
		Go to Question 10	
<del></del>	Does the wetland have a predominance of non-native or disturbance	YES	ИО
	tolerant native plant species within its vegetation communities?	Wetland should be evaluated for possible Category 3 status	Go to Question 1
		Go to Question 10	: -
0	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in	YES	(NO)
	Lucas, Fulton, Henry, or Wood Countles and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within	Wetland is a Category 3 wetland.	Go to Question 1
	several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	Go to Question 11	
1	Relict Wet Prairies. Is the wetland a relict wet prairie community	YES	(NO)
-	dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio, Erie County, and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).	Wetland should be evaluated for possible Category 3 status	Complete Quantitative Rating
	Countries (e.g. Dane, mercer, mann, mongoner, con)	Complete Quantitative Rating	

Site:	WETLA	wo 3	Rater(s): L. McKINNEY	Date: 8 8 06
0	0	] Metr	ric 1. Wetland Area (size).	, ,
max 6 pts.	subtotal	Select or	ne size class and assign score.  >50 acres (>20.2ha) (6 pts)  25 to <50 acres (10.1 to <20.2ha) (5 pts)  10 to <25 acres (4 to <10.1ha) (4 pts)  3 to <10 acres (1.2 to <4ha) (3 pts)  0.3 to <3 acres (0.12 to <1.2ha) (2pts)  0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt)  <0.1 acres (0.04ha) (0 pts)	
7	7	Metr	ic 2. Upland buffers and surrounding land us	se.
max 14 pts.	subtotal	2b. Inten	ulate average buffer width. Select only one and assign score. Do not double check.  WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)  MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)  NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)  VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)  sity of surrounding land use. Select one or double check and average.  VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)  LOW. Old field (>10 years), shrubland, young second growth forest. (5)  MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field.	(3)
		1	HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)	
13.5 max 30 pts.	20.5		ric 3. Hydrology. ces of Water. Score all that apply.  3b. Connectivity. Score all that a	
max su pis.	SUDIO(a)		High pH groundwater (5)  Other groundwater (3)  Precipitation (1)  Seasonal/Intermittent surface water (3)  100 year floodplain (1)  Between stream/lake an  Part of wetland/upland (  Part of riparian or upland	nd other human use (1) e.g. forest), complex (1) d corridor (1)
		3c. Maxi	Perennial surface water (lake or stream) (5)  3d. Duration inundation/saturation mum water depth. Select only one and assign score.  Semi- to permanently in	undated/saturated (4)
		3e. Mod	>0.7 (27.6in) (3)  0.4 to 0.7m (15.7 to 27.6in) (2)  Seasonally inundated (2 <0.4m (<15.7in) (1) Seasonally saturated in iffications to natural hydrologic regime. Score one or double check and average.	2)
			None or none apparent (12) Recovered (7) Recovering (3) Recent or no recovery (1)  Check all disturbances observed  ditch point source (nonstormy filling/grading road bed/RR track weir stormwater input  other	vater)
11.5	32	Met	ric 4. Habitat Alteration and Development.	
max 20 pts.	subtotal	4a. Sub	strate disturbance. Score one or double check and average.  None or none apparent (4)  Recovered (3)  Recovering (2)  Recent or no recovery (1)	
		4b. Hab	itat development. Select only one and assign score.  Excellent (7)  Very good (6)  Good (5)  Moderately good (4)	
	,	4c. Hab	Fair (3) Poor to fair (2) Poor (1) itat alteration. Score one or double check and average.	
	32 subtotal this p		None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)  Check all disturbances observed  mowing grazing grazing clearcutting selective cutting woody debris removal toxic pollutants  Check all disturbances observed shrub/sapling removal herbaceous/aquatic be sedimentation dredging farming nutrient enrichment	d removal

ite:	R	ater(s):	Date:
-			
122			
32			
subtotal this	page		•
- 127			
5   37	Metric 5. Special We	tlands.	
x 10 pts. subtota			
	Bog (10)		
	Fen (10)		
	Old growth forest (10)		
	Mature forested wetland (5)		(40)
	Lake Erie coastal/tributary wetland Lake Erie coastal/tributary wetland		•
	Lake Plain Sand Prairies (Oak Op		•)
	Relict Wet Praires (10)	aninga) (10)	
	Known occurrence state/federal th	reatened or endangere	ed species (10)
	Significant migratory songbird/wat		
	Category 1 Wetland. See Question		
	· ·		
2   39	Metric 6. Plant comr	nunities, ir	iterspersion, microtopography
ıx 20 pts. subtota		Vegetation Commi	unity Cover Scale
	Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
. •	Aquatic bed	1	Present and either comprises small part of wetland's
	<ul><li>Emergent</li></ul>		vegetation and is of moderate quality, or comprises a
	- Shrub		significant part but is of low quality
	Forest	2	Present and either comprises significant part of wetland's
	Mudflats	•	vegetation and is of moderate quality or comprises a sma
	Open water		part and is of high quality  Present and comprises significant part, or more, of wetland
	Other	3	vegetation and is of high quality
	6b. horizontal (plan view) Interspersion.		Vegetation and is or night quanty
	Select only one. High (5)	Narrative Descript	ion of Vegetation Quality
	Moderately high(4)	low	Low spp diversity and/or predominance of nonnative or
	Moderate (3)	•	disturbance tolerant native species
	Moderately low (2)	mod	Native spp are dominant component of the vegetation,
	Low (1)		although nonnative and/or disturbance tolerant native spr
•	None (0)		can also be present, and species diversity moderate to
	6c. Coverage of invasive plants. Refer		moderately high, but generallyw/o presence of rare
	to Table 1 ORAM long form for list. Add		threatened or endangered spp
	or deduct points for coverage	high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually
	Extensive >75% cover (-5)		absent, and high spp diversity and often, but not always,
	Moderate 25-75% cover (-3)		the presence of rare, threatened, or endangered spp
	Sparse 5-25% cover (-1) Nearly absent <5% cover (0)	Contract to the last and particular tracks but the same	tite presented of tare, threatened at the presented
	Absent (1)	Mudflat and Open	Water Class Quality
	6d. Microtopography.	0	Absent <0.1ha (0.247 acres)
	Score all present using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47 acres)
	Vegetated hummucks/tussucks	2	Moderate 1 to <4ha (2.47 to 9.88 acres)
	Coarse woody debris >15cm (6in	)3	High 4ha (9.88 acres) or more
	Standing dead >25cm (10in) dbh		
	<ul> <li>Amphibian breeding pools</li> </ul>	Microtopography	Cover Scale
·		0	Absent
		1	Present very small amounts or if more common
			of marginal quality
		2	Present in moderate amounts, but not of highest
			Present in moderate amounts, but not of highest quality or in small amounts of highest quality
		2	Present in moderate amounts, but not of highest

Name: L. McKINNEY
Date: 8 8 04
Affiliation: ASC Group, Hc.
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 859 - 746 - 1967
e-mail address: LMCKINNEY @ ASCGNOUP. NET
Name of Wetland: WETLAND 4
Vegetation Communit(ies): FORESTED
HGM Class(es): DEFRESSION
Coation of Wetland include map, address, north arrow, landmarks, distances, roads, etc.
35 Walnut
International Gateway
17th the:
METAMO E
5+h Ave
5+h 11-9
Lat/Long or UTM Coordinate
USGS Quad Name N.E. COLUMBUS
USGS Quad Name  N.E. COLUMBUS  County  Franklis
Township
Section and Subsection
Hydrologic Unit Code 05060001-140
Site Visit § 8 0 6
National Wetland Inventory Map N. E. Colombus
Ohio Wetland Inventory Map
Soil Survey Franklin
Delineation report/map
Wetland Size (acres hectares) 0.0746

Name:	
sketch (include north arrow, relationship with other s	surface waters, vegetation zones, etc.)
·	LAND 4
The Grant of the Control of the Cont	2 Granty forest
Smnull / Sc	nus fone"
WEN	405
Mower L	AW~
Comments, Narrative Discussion, Justification of Cat	egory Changes
SMALL FORESTED WETLAN	
Final score: 39 5	Category Mog. 2

	Question	Circle one	
	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2	NO Go to Question 2
	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES  Wetland is a Category 3 wetland.  Go to Question 3	(NO) Go to Question 3
	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	NO Go to Question 4
<b>,</b>	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland Go to Question 5	NO Go to Question 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by Phalaris arundinacea, Lythrum salicaria, or Phragmites australis, or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland Go to Question 6	NO Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	NO Go to Question 7
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is the saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland	Go to Question 8

#	Question	Circle one	-
Ba	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics:	YES	NO
	overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence	Wetland is a Category 3 wetland.	Go to Question 8b
	of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multllayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	Go to Question 8b	
b	Mature forested wetlands. Is the welland a forested wetland with 50% or more of the cover of upper forest canopy consisting of	YES	NO
	deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	Wetland should be evaluated for possible Category 3 status.	Go to Question 9a
		Go to Question 9a	
a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this	YES	(NO)
	elevation, or along a tributary to Lake Erle that is accessible to fish?	Go to Question 9b	Go to Question 10
b	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is	YES	NO
	partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible Category 3 status	Go to Question 90
		Go to Question 9d	
C	Are Lake Erie water levels the wetland's primary hydrological influence,	YES	NO
	i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	Go to Question 9d	Go to Question 90
d	Does the wetland have a predominance of native species within its	YES	NO
	vegetation communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9
	:	Go to Question 10	
е	Does the wetland have a predominance of non-native or disturbance	YES	NO
	tolerant native plant species within its vegetation communities?	Wetland should be evaluated for possible Category 3 status	Go to Question 10
		Go to Question 10	: .
0	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in	YES	1 €
	Lucas, Fulton, Henry, or Wood Countles and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within	Wetland is a Category 3 wetland.	Go to Question 1
	several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	Go to Question 11	
1	Relict Wet Prairies. Is the wetland a relict wet prairie community	YES	(NO)
	dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madlson and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohlo, Erie County, and portions of western Ohio	Wetland should be evaluated for possible Category 3 status	Complete Quantitative Rating
	Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).	Complete Quantitative Rating	

e:	<del></del>	ĮF	Rater(s):	Date:
<u></u>	<del></del>			
35	5			
subtotal this	page			
0 20	_		41 1	
0 35.	<u>&gt;</u> ]Me	etric 5. Special W	etlands.	
10 pts. subtota	ıl Chec	k all that apply and score as indicated	i.	
		Bog (10)		
		Fen (10)		
		Old growth forest (10)		
		Mature forested wetland (5)  Lake Erie coastal/tributary wetlar	nd-uprestricted hydrology (1	10)
		Lake Erie coastal/tributary wetlan		
		Lake Plain Sand Prairies (Oak O		
		Relict Wet Praires (10)		
	1	Known occurrence state/federal	threatened or endangered	species (10)
		Significant migratory songbird/w		
		Category 1 Wetland. See Quest	tion 1 Qualitative Rating (-1	0)
3 38.	5		H.4	
3   36.		etric 6. Plant com	munities, int	erspersion, microtopograph
20 pts. subtota	₃ı 6a. ¹	Wetland Vegetation Communities.	Vegetation Communi	ty Cover Scale
	Scor	e all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous a
•		Aquatic bed	· 1	Present and either comprises small part of wetland's
		Emergent	•	vegetation and is of moderate quality, or comprises a significant part but is of low quality
		Shrub	2	Present and either comprises significant part of wetland's
		Forest  Mudflats	2	vegetation and is of moderate quality or comprises a sn
	i	- Open water		part and is of high quality
•		Other	3	Present and comprises significant part, or more, of wetland
	6b.	horizontal (plan view) Interspersion.		vegetation and is of high quality
		ct only one.		
	!	High (5)	Narrative Description	of Vegetation Quality
		Moderately high(4)	low	Low spp diversity and/or predominance of nonnative or
		Moderate (3)	·	disturbance tolerant native species
		Moderately low (2)	mod	Native spp are dominant component of the vegetation,
		<b>X</b> Low (1)		although nonnative and/or disturbance tolerant native s can also be present, and species diversity moderate to
		None (0)		moderately high, but generallyw/o presence of rare
		Coverage of invasive plants, Refer		threatened or endangered spp
		able 1 ORAM long form for list. Add educt points for coverage	high	A predominance of native species, with nonnative spp
	OI O	Extensive >75% cover (-5)	riigit	and/or disturbance tolerant native spp absent or virtual
		Moderate 25-75% cover (-3)		absent, and high spp diversity and often, but not alway
		Sparse 5-25% cover (-1)		the presence of rare, threatened, or endangered spp
		Nearly absent <5% cover (0)		
		X Absent (1)	Mudflat and Open Wa	ater Class Quality
	6d.	Microtopography.	0	Absent <0.1ha (0.247 acres)
	Scor	re all present using 0 to 3 scale.	1.	Low 0.1 to <1ha (0.247 to 2.47 acres)
		<ul> <li>Vegetated hummucks/tussucks</li> </ul>	,	Moderate 1 to <4ha (2.47 to 9.88 acres)
		Coarse woody debris >15cm (6		High 4ha (9.88 acres) or more
		Standing dead >25cm (10in) db		,
		Amphibian breeding pools	Microtopography Co	
		harmed .	0	Absent Present very small amounts or if more common
		- ·	4	
		have seed	1.	1
		becomes de		of marginal quality
		become	1.	1
		<b>becomes</b>		of marginal quality Present in moderate amounts, but not of highest

Name: L. McKINNEY
Date: 8 8 06
Affiliation: ASC GROUP, Idc.
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 859 - 746 - 1967
e-mail address: LMCKINNEY @ ASCGROUP. NET
Name of Wetland: WETLAND 5
Vegetation Communit(ies): FORESTED
HGM Class(es): DEPRESSION
Cocation of Wetland include map, address, north arrow, landmarks, distances, roads, etc.
International Gateway  Thermational Gateway  Westland  Sth Ave
Lat/Long or UTM Coordinate
USGS Quad Name N.E. COLUMBUS
USGS Quad Name  N.E. COLUMBUS  County  Franklin
Township
Section and Subsection
Hydrologic Unit Code 0506001 - 140
Site Visit 8 8 0 6
National Wetland Inventory Map N. E. Columbus
Ohio Wetland Inventory Map
Soil Survey Franklin
Delineation report/map
Wetland Size (acres, hectares)

Name:						
sketch (include nor	th arrow, relations	hip with other sur	face waters,	vegetation zon	es, etc.)	
		WETLAND				
JWO Sabury FARESY		Scaub 1	Suno	3		1590 Growy Dist
0		WETLA	495			
						FENCE
Comments, Narrativ	re Discussion, Jus	Stification of Categ	ory Change	s Secono	GROWTH	Fonesy
			,			
	•					
Final score :	70 F				Category	MDO. 2

<u> </u>	Question	Circle one	
	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2	NO Go to Question 2
2	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES  Wetland is a Category 3 wetland.  Go to Question 3	Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	NO Go to Question 4
	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland Go to Question 5	Go to Question 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea</i> , <i>Lythrum salicaria</i> , or <i>Phragmites australis</i> , or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES  Wetland is a Category 1 wetland  Go to Question 6	Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	NO Go to Question
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is the saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland	Go to Question

#	Question	Circle one	
8a	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	YES  Wetland is a Category 3 wetland.  Go to Question 8b	Go to Question 8b
8b	Mature forested wetlands. Is the welland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	YES  Wetland should be evaluated for possible Category 3 status.	Go to Question 9a
		Go to Question 9a	
9a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	YES  Go to Question 9b	Go to Question 10
9b	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	YES  Wetland should be evaluated for possible Category 3 status	NO Go to Question 9c
		Go to Question 9d	110
9c	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	YES Go to Question 9d	NO Go to Question 9d
9d	Does the wetland have a predominance of native species within its vegetation communities, although non-native or disturbance tolerant native species can also be present?	YES Wetland is a Category 3 wetland Go to Question 10	NO Go to Question 9e
9e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES  Wetland should be evaluated for possible Category 3 status Go to Question 10	NO Go to Question 10
10	Lake Plain Sand Prairies (Oak Openings) is the wetland located in Lucas, Fulton, Henry, or Wood Counties and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	YES  Wetland is a Category 3 wetland.  Go to Question 11	Go to Question 11
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio, Erie County, and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).	YES  Wetland should be evaluated for possible Category 3 status  Complete Quantitative Rating	Complete Quantitative Rating

Fair (3) Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or do	uble check and average.	
None or none apparent (9)  Recovered (6)  Recovering (3)  Recent or no recovery (1)  35.5  Subtotal this page	Check all disturbances observed mowing grazing clearcutting selective cutting woody debris removal toxic pollutants	shrub/sapling removal herbaceous/aquatic bed removal sedimentation dredging farming nutrient enrichment

te:	R	later(s):	Date:
<b>r</b>	T		
35.5			
33.3	J .		
subtotal this p	ge . *		
35.5	BA-4-1- F Conneiglia/	. 41 - 1 1 -	
30.0	Metric 5. Special We	etianas.	
10 pts. subtotal	Check all that apply and score as indicated.		
	Bog (10)		
	Fen (10)		
	Old growth forest (10)  Mature forested wetland (5)	•	
	Lake Erie coastal/tributary wetland	d-unrestricted hydrology (	10)
	Lake Erie coastal/tributary wetlan		
	Lake Plain Sand Prairies (Oak Op		
	Relict Wet Praires (10)		
	Known occurrence state/federal th	nreatened or endangered	species (10)
	Significant migratory songbird/wa		
	Category 1 Wetland. See Questle	on 1 Qualitative Rating (-1	( <b>0)</b>
2 20	M M 4 9 45 196 I		and a minute manual
38.5	Metric 6. Plant comi		terspersion, microtopograph
20 pts. subtotal	6a. Wetland Vegetation Communities.	Vegetation Communi	ity Cover Scale
	Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous a
•	Aquatic bed	. 1	Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a
	Emergent	•	significant part but is of low quality
	- Shrub	2	Present and either comprises significant part of wetland's
	Forest  Mudflats		vegetation and is of moderate quality or comprises a sn
	Open water		part and is of high quality
	Other	3	Present and comprises significant part, or more, of wetlar
	6b. horizontal (plan view) Interspersion.	•	vegetation and is of high quality
	Select only one.		
	High (5)	Narrative Description	n of Vegetation Quality
	Moderately high(4)	low	Low spp diversity and/or predominance of nonnative or
	Moderate (3)		disturbance tolerant native species
	Moderately low (2)	mod	Native spp are dominant component of the vegetation,
	<b>★</b> Low (1)		although nonnative and/or disturbance tolerant native s
	None (0)		can also be present, and species diversity moderate to
			L demanded block but conord@ust/O DESCRICE OF FAIR
	6c. Coverage of invasive plants. Refer		moderately high, but generallyw/o presence of rare
	to Table 1 ORAM long form for list. Add	high	threatened or endangered spp
•,	to Table 1 ORAM long form for list. Add or deduct points for coverage	high	threatened or endangered spp  A predominance of native species, with nonnative spp
	to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5)	high	threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtual
	to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)	high	threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtuall absent, and high spp diversity and often, but not always
	to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)	high	threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtual
•.	to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)	high  Mudflat and Open W	threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtuall absent, and high spp diversity and often, but not always the presence of rare, threatened, or endangered spp //ater Class Quality
	to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)	estamings recombined at a host 9 months distributed and	threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtuall absent, and high spp diversity and often, but not always the presence of rare, threatened, or endangered spp  //ater Class Quality  Absent <0.1ha (0.247 acres)
	to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.	Mudflat and Open W 0 1	threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtuall absent, and high spp diversity and often, but not always the presence of rare, threatened, or endangered spp  //ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)
	to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks	Mudflat and Open W 0 1 2	threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtuall absent, and high spp diversity and offen, but not always the presence of rare, threatened, or endangered spp  //ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)
	to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in	Mudflat and Open W  0 1 2 n) 3	threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtuall absent, and high spp diversity and often, but not always the presence of rare, threatened, or endangered spp  //ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)
	to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in  Standing dead >25cm (10in) dbh	Mudflat and Open W 0 1 2 n) 3	threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtuall absent, and high spp diversity and often, but not always the presence of rare, threatened, or endangered spp  //ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more
	to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in	Mudflat and Open W  0 1 2 n) 3 Microtopography Co	threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtuall absent, and high spp diversity and often, but not always the presence of rare, threatened, or endangered spp  //ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more
	to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in  Standing dead >25cm (10in) dbh	Mudflat and Open W  0 1 2 3 Microtopography Co	threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtuall absent, and high spp diversity and offen, but not always the presence of rare, threatened, or endangered spp  //ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  over Scale  Absent
	to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in  Standing dead >25cm (10in) dbh	Mudflat and Open W  0 1 2 n) 3 Microtopography Co	threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtuall absent, and high spp diversity and often, but not always the presence of rare, threatened, or endangered spp  //ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  over Scale  Absent  Present very small amounts or if more common
	to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in  Standing dead >25cm (10in) dbh	Mudflat and Open W  0 1 2 n) 3 Microtopography Co 0	threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtuall absent, and high spp diversity and often, but not always the presence of rare, threatened, or endangered spp  //ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  over Scale  Absent  Present very small amounts or if more common of marginal quality
	to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in  Standing dead >25cm (10in) dbh	Mudflat and Open W  0 1 2 3 Microtopography Co	threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtuall absent, and high spp diversity and often, but not always the presence of rare, threatened, or endangered spp  //ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  over Scale  Absent  Present very small amounts or if more common
	to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  Coarse woody debris >15cm (6in  Standing dead >25cm (10in) dbh	Mudflat and Open W  0 1 2 n) 3 Microtopography Co 0	threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtuall absent, and high spp diversity and often, but not always the presence of rare, threatened, or endangered spp  //ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  over Scale  Absent  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest

Name: L. McKINNEY
Date: 8 8 06
Affiliation: ASC Greef, Lic.
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 859 - 746 - 1967
e-mail address: LMCKINNEY @ ASCGNOUP. NET
Name of Wetland: WETLAND 6
Vegetation Communit(ies): FORESTED
HGM Class(es): DEPPESSION
Location of Wetland include map, address, north arrow, landmarks, distances, roads, etc.
International Gateway  The tree to the tree tree to the tree tree to the tree tree tree tree tree tree tree
Lat/Long or UTM Coordinate
USGS Quad Name N.E. COLUMBUS
County Frankling
Township
Section and Subsection
Hydrologic Unit Code 05060001 - 140
Site Visit 8/8/04
National Wetland Inventory Map  N.E. Columbus
Ohio Wetland Inventory Map
Soil Survey Franklin
Delineation report/map
Wetland Size (acres hectares)

Name: sketch (include north arrow, relationship with other surface waters, vegetation zones, etc.) OLD FIELD WETLAND Forester OTHER Comments, Narrative Discussion, Justification of Category Changes SILVER MAPLE WETLAND WITH SMALL HUMMOCKS
TOPPED WITH LIVE SPHAGNUM; NO PENT, ONLY Category Moo. 2 41 Final score:

	Question	Circle one	
	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2	Go to Question 2
	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES Wetland is a Category 3 wetland. Go to Question 3	Go to Question 3
	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
ļ	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland Go to Question 5	Go to Question 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by Phalaris arundinacea, Lythrum salicaria, or Phragmites australis, or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland Go to Question 6	Go to Question (
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	Go to Question
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is the saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland	Go to Question

#	Question	Circle one		
8a	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	YES Wetland is a Category 3 wetland. Go to Question 8b	Go to Question 8b	
8b	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	YES  Wetland should be evaluated for possible Category 3 status.  Go to Question 9a	Go to Question 9a	
9a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	YES Go to Question 9b	NO Go to Question 10	
9b	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 9d	NO Go to Question 9c	
9 <b>c</b>	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	YES Go to Question 9d	NO Go to Question 9d	
9d	Does the wetland have a predominance of native species within its vegetation communities, although non-native or disturbance tolerant native species can also be present?	YES  Wetland is a Category 3 wetland  Go to Question 10	NO Go to Question 9e	
9e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 10	NO Go to Question 10	
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in Lucas, Fulton, Henry, or Wood Countles and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	YES  Wetland is a Category 3 wetland.  Go to Questlon 11	Go to Question 11	
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio, Erie County, and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).	YES  Wetland should be evaluated for possible Category 3 status  Complete Quantitative Rating	Complete Quantitative Rating	

Site:		Ra	ter(s):		Date:
		1			
	37				
	0 /				
SI	ıblolal Ihis pa	ge 1	•		•
	37	Metric 5. Special Wet	lands.		•
max 10 pts.	subtotal	Check all that apply and score as indicated.			
		Bog (10)			
		Fen (10)			
		Old growth forest (10)  Mature forested wetland (5)	•		*
		Lake Erie coastal/tributary wetland-	unrestricted hydrology (1	0)	
		Lake Erie coastal/tributary wetland-		•	
		Lake Plain Sand Prairies (Oak Ope			
		Relict Wet Praires (10)			
		Known occurrence state/federal thro			
		Significant migratory songbird/wate			
	p	Category 1 Wetland. See Question	1 Qualitative Rating (-10		
11	11.7	Metric 6. Plant comm	unities into	arenersion mich	rotopography.
	41		iumines, mi	stabetatoti, titto	0.0h = 3 1
max 20 pts.	subtotal	6a. Wetland Vegetation Communities.	Vegetation Communit	Absent or comprises <0.1ha (0.	2471 acres) contiguous area
		Score all present using 0 to 3 scale.	0	Present and either comprises s	mall part of wetland's
		- Aquatic bed	1	vegetation and is of moderate	quality, or comprises a
		Emergent - Shrub		significant part but is of low qu	uality
		Forest	2	Present and either comprises s	ignificant part of wetland's
		- Mudflats	•	vegetation and is of moderate	quality or comprises a small
		Open water		part and is of high quality	-fuellanda
•		Other	3	Present and comprises significa	
		6b. horizontal (plan view) Interspersion.		vegetation and is of high qual	ity
		Select only one.		- 5 Venetation Quality	
		High (5)	low	of Vegetation Quality  Low spp diversity and/or predo	minance of nonnative or
		Moderately high(4)	. IOW	disturbance tolerant native sp	
		Moderate (3)  Moderately low (2)	mod	Native spp are dominant comp	onent of the vegetation,
		Low (1)		although nonnative and/or dis	sturbance tolerant native spp
				can also be present, and spe	cles diversity moderate to
		6c. Coverage of invasive plants. Refer		moderately high, but general	
		to Table 1 ORAM long form for list. Add	· .	threatened or endangered sp	p
		or deduct points for coverage	high	A predominance of native spec and/or disturbance tolerant n	ative can absent or virtually
		Extensive >75% cover (-5)		and/or disturbance tolerant in absent, and high spp diversit	v and offen, but not always,
		Moderate 25-75% cover (-3)		the presence of rare, threate	ned, or endangered spp
		Sparse 5-25% cover (-1) Nearly absent <5% cover (0)	Appropriate transportation of the state of t	the presented of relief timeste	The second secon
		Absent (1)	Mudflat and Open Wa	ater Class Quality	
		6d. Microtopography.	0	Absent <0.1ha (0.247 acres)	
		Score all present using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47	acres)
		2 Vegetated hummucks/tussucks	2	Moderate 1 to <4ha (2.47 to 9	,88 acres)
		Coarse woody debris >15cm (6in)	3	High 4ha (9.88 acres) or more	
		Standing dead >25cm (10in) dbh		-	
		Amphibian breeding pools	Microtopography Co		
			0 1	Absent Present very small amounts of	r if more common
			l.	of marginal quality	
			2	Present in moderate amounts	but not of highest
	* *	•	<b>~</b>	quality or in small amounts of	of highest quality
			3	Present in moderate or greate	
				and of highest quality	The second section of the second control of the second section of the second se

GRAND TOTAL(max 100 pts)

Name: L. McKINNEY
Date: 8 8 06
Affiliation: ASC GREVP, INC.
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 959 - 746 - 1967
e-mail address: LMCKINNEY @ ASCGNOUP. NET
Name of Wetland: WETLAND 7
Vegetation Communit(ies): FORESTED
HGM Class(es): DEPRESSION
Cation of Wetland include map, address, north arrow, landmarks, distances, roads, etc.
International Gateway  The Ave  5th Ave
Lat/Long or UTM Coordinate
USGS Quad Name  N.E. COLUMBUS
County Frankling
Township Section and Subsection
05060507-170
810104
National Wetland Inventory Map  N.E. COLUMBUS  Ohio Wetland Inventory Map
Soil Survey  Franklin  Delineation report/map
Wetland Size (acres, hectares)  0.14 AC

Comments, Narrative Discussion, Justification of Catagory Changes  SILVER MAPLE WETLAND NITH SMALL HUMMOCKS  TOPED WITH LIVE SPHAGNUM. NO PENT, DNLY  DIRT IN HUMMOCKS		. 1
Comments, Narrative Discussion, Justification of Category Changes  SINGR MAPLE WETLAND WITH SMALL HUMMOCKS  TOPIED WITH LIVE SPHAGNUM. NO PERT, ONLY	sketch (include north arrow, relationship with other surface waters, vegetation zones, etc	
Comments, Narrative Discussion, Justification of Category Changes  SILVER MAPLE WETLAND WITH SMALL HUMMOCKS  TOPIED WITH LIVE SPHAGNUM. NO PENT, DNLY	OLD FIELD	
FORTST  Comments, Narrative Discussion, Justification of Category Changes  SILVER MAPLE WETLAND WITH SMALL HUMMOCKS  TOPPED WITH LIVE SPHAGNUM. NO PENT, DNLY	aver a series of the series of	
Comments, Narrative Discussion, Justification of Category Changes  SILVER MAPLE WETLAND WITH SMALL HUMMOCKS  TOPPED WITH LIVE SPHAGNUM. NO PERT, ONLY	( DREST WETLAND	OLD LO
Comments, Narrative Discussion, Justification of Category Changes  SILVER MAPLE WETLAND WITH SMALL HUMMOCKS  TOPPED WITH LIVE SPHAGNUM. NO PERT, ONLY	En 154	
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	SILVER MAPLE WETLAND WITH SMALL TOPPED WITH LIVE SPHAGNUM. NO PEN	
		•

! 	Question	Circle one	
	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2	Go to Question 2
-	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES  Wetland is a Category 3 wetland.  Go to Question 3	Go to Question 3
-	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
•	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES  Wetland is a Category 3 wetland  Go to Question 5	Go to Question 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea</i> , <i>Lythrum salicaria</i> , or <i>Phragmites australis</i> , or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland Go to Question 6	NO Go to Question 6
5	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	Go to Question 7
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is the saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland Go to Question 8a	Go to Question 8

#	Question	Circle one	
3a	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	YES  Wetland is a Category 3 wetland.  Go to Question 8b	Go to Question 8b
3b	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7ln) dbh?	YES  Wetland should be evaluated for possible Category 3 status.  Go to Question 9a	Go to Question 9a
a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	YES Go to Question 9b	NO Go to Question 10
b	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 9d	NO Go to Question 90
С	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	YES Go to Question 9d	NO Go to Question 9
d	Does the wetland have a predominance of native species within its vegetation communities, although non-native or disturbance tolerant native species can also be present?	YES Wetland is a Category 3 wetland Go to Question 10	NO Go to Question 9
e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 10	NO Go to Question 1
10	Lake Plain Sand Prairies (Oak Openings) is the wetland located in Lucas, Fulton, Henry, or Wood Countles and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	YES  Wetland is a Category 3 wetland.  Go to Question 11	NO) Ga to Questlon 1
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohlo, Erie County, and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).	YES  Wetland should be evaluated for possible Category 3 status  Complete Quantitative	Complete Quantitative Rating

clearcutting

selective cutting

toxic pollutants

woody debris removal

sedimentation

nutrient enrichment

dredging

farming

subtotal this page

38

Recent or no recovery (1)

e:		Ra	ter(s):	Date:
		1		
	38			
L	Lat this was	<u>i</u>		
Stible	tal this pag			
0	38	Metric 5. Special Wet	lands.	
10 -1-	subtotal	Check all that apply and score as indicated.		
10 pts. s	JUCCOCCAI	Bog (10)		
		Fen (10)		
		Old growth forest (10)	•	
		Mature forested wetland (5)		40)
		Lake Erie coastal/tributary wetland-		10)
		Lake Erie coastal/tributary wetland-		
		Relict Wet Prairies (10)	ranga) (10)	
		Known occurrence state/federal three	eatened or endangered	species (10)
		Significant migratory songbird/water		
		Category 1 Wetland. See Question		
		6.50	· .	
'   ·	42	Metric 6. Plant comm	nunities, int	erspersion, microtopography
20 pts. :	sublolal	6a. Wetland Vegetation Communities.	Vegetation Communi	ity Cover Scale
		Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous are
		- Aquatic bed	1	Present and either comprises small part of wetland's
		Emergent	•	vegetation and is of moderate quality, or comprises a
		- Shrub		significant part but is of low quality  Present and either comprises significant part of wetland's
		Forest	2	vegetation and is of moderate quality or comprises a small
		Mudflats		part and is of high quality
		Open water	3	Present and comprises significant part, or more, of wetland
		Other6b. horizontal (plan view) Interspersion.		vegetation and is of high quality
		Select only one.		and the same of th
		High (5)	Narrative Description	n of Vegetation Quality
		Moderately high(4)	low	Low spp diversity and/or predominance of nonnative or
		Moderate (3)		disturbance tolerant native species
		Moderately low (2)	mod	Native spp are dominant component of the vegetation,
		Low (1)		although nonnative and/or disturbance tolerant native sp
		✓ None (0)		can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare
		6c. Coverage of invasive plants. Refer		threatened or endangered spp
		to Table 1 ORAM long form for list. Add	high	A predominance of native species, with nonnative spp
		or deduct points for coverage  Extensive >75% cover (-5)	riigit	and/or disturbance tolerant native spp absent or virtually
		Moderate 25-75% cover (-3)		absent, and high spp diversity and often, but not always,
		Sparse 5-25% cover (-1)		the presence of rare, threatened, or endangered spp
		Nearly absent <5% cover (0)	Exchange sanction Sales and American	
		Absent (1)	Mudflat and Open W	ater Class Quality
		6d. Microtopography.	0	Absent <0.1ha (0.247 acres)
		Score all present using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47 acres)
		2 Vegetated hummucks/tussucks	2	Moderate 1 to <4ha (2.47 to 9.88 acres)
		Coarse woody debris >15cm (6in)	3	High 4ha (9.88 acres) or more
		Standing dead >25cm (10in) dbh	Minuskan C-	over Scala
		Amphibian breeding pools	Microtopography Co	Absent
			1	Present very small amounts or if more common
				of marginal quality
				I Ul Illal Wilal Quality
			2	Present in moderate amounts, but not of highest
			2	Present in moderate amounts, but not of highest quality or in small amounts of highest quality
			2	Present in moderate amounts, but not of highest

42 GRAND TOTAL(max 100 pts)

Name: L. McKinney	
Date: 8 8 0 6	
Affiliation: ASC Grove, Isc.	
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042	
Phone Number: 859 - 746 - 1967	
e-mail address: LMCKINNEY @ ASCGNOUP NET	
Name of Wetland: WETLAND 8	
Vegetation Communit(ies): Fores TED	
HGM Class(es): Depression	
Cocation of Wetland include map, address, north arrow, landmarks, distances, roads, etc.	
International Gateway  Williams & Gateway  17th the  Sth Ave  5th Ave	
Lat/Long or UTM Coordinate	
USGS Quad Name  N.E. COLUMBUS  County  Franklis	
Township	
Section and Subsection	
Hydrologic Unit Code 05060001 - 140	
Site Visit \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	
National Wetland Inventory Map  N.E. Colombus	
Ohio Wetland Inventory Map	
Soil Survey Franklin	
Delineation report/map	
Wetland Size (acres, hectares)  0.39 nc	

Name:	
sketch (include north arrow, relationship with other surface waters, vegetation zones, etc.)	. •
STELZER RO	
Gence	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
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Comments, Narrative Discussion, Justification of Category Changes	PIN OAK
SECOND GROWTH FORESTED WETLAND DOMINATED BY	•
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<u> </u>	Question	Circle one	_
	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2	Go to Question 2
	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES  Wetland is a Category 3 wetland.  Go to Question 3	Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
1	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland Go to Question 5	Go to Question 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by Phalaris arundinacea, Lythrum salicaria, or Phragmites australis, or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland Go to Question 6	Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES  Wetland is a Category 3 wetland  Go to Question 7	Go to Question
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is the saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland	Go to Question

"Old Growth Forest." Is the welland a forested wetland and is the forest characterized by, but not limited to, the following characterized coverably camply rises of great see (sexeability at the content of human-caused understory disturbance during the past 80 to 100 years; an all-aped structure and multilayered canopies; agregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead range and downed logs?  b Mature forested wetlands. Is the welland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large demeters at breast height (dbh), generally distractors greater than 45cm (17.7h) dbh?  Cough the see with large demeters at breast height (dbh), generally distractors greater than 45cm (17.7h) dbh?  Linke Erie coastal and tributary wetlands. Is the wetland located at an elevation lass than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?  Does the wetland's hydrological years! from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrological or protection of the following of the protection of the development of the partially hydrological protection of the partially hydrological years and the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the protection of the prote	#	Question	Circle one	
overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); title or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayed canoples; aggregations of standing dead snags and downed logs?  b Matture forested wetlands. Is the welland a forested wetland with 50% or more of the cover of upper forest canopy consisting of eccidious trees with large diameters at longar treight (dbh), generally diameters greater than 45cm (17.7in) dbh?  a Lake Erie coastal and tributary wetlands. Is the welland located at an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?  b Does the welland's hydrologically result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or upland border elevations, or the welland can be characterized as an "estuarine" welland with lake and river influenced hydrology. These include sandbar deposition wetlands, estudience wellands, river mouth wellands or the welland can be characterized as an "estuarine" welland with lake and river influenced hydrology. These includes another deposition wetlands, estudience wellands, river mouth wellands and be characterized as an "estuarine" welland with lake and river influenced hydrology. These include sandbar deposition wetlands, estudience wellands river mouth wellands and be characterized by the following description: the wetland be characterized by the following description: the welland has be a present?  Tell Does the welland have a predominance of non-native or disturbance tolerant native species can also be present?  Be Does the welland have a predominance of non-native or disturbance tolerant native species can also be present?  Be Does the welland have a predominance of non-native or disturbance tolerant native species or also the present or an expert	a	"Old Growth Forest." Is the wetland a forested wetland and is the	YES	(20)
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dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio, Erie County, and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).  Complete Quantitative  Complete Quantitative			Go to Question 11	
Complete Quantitative	1	dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio, Erie County, and portions of western Ohio	Wetland should be evaluated for possible	Complete Quantitative
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		Counties (e.g. Darke, Mercer, Marin, Monigoriery, etc.).		

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	7-1	Metric 5. Special We	nanus.	
10 pts.	subtotal	Check all that apply and score as indicated.		•
		Bog (10)		
		Fen (10) Old growth forest (10)		
		Mature forested wetland (5)	•	
		Lake Erie coastal/tributary wetland	-unrestricted hydrology (	10)
		Lake Erie coastal/tributary wetland	restricted hydrology (5)	
		Lake Plain Sand Prairies (Oak Ope	enings) (10)	
		Relict Wet Praires (10)		and the second s
		Known occurrence state/federal thi		
		Significant migratory songbird/water		
		Category 1 Wetland. See Question	n 1 Qualitative Rating (-)	· .
5	49	Motric 6 Plant comp	nimities int	erspersion, microtopography
			Vegetation Communi	th Cover Scale
20 pts.	sublolal	6a. Wetland Vegetation Communities.	vegetation Community	Absent or comprises <0.1ha (0.2471 acres) contiguous area
		Score all present using 0 to 3 scale.  Aquatic bed	1	Present and either comprises small part of wetland's
•		Emergent	•	vegetation and is of moderate quality, or comprises a
		Shrub	•	significant part but is of low quality
		a Forest	2	Present and either comprises significant part of wetland's
		- Mudflats	•	vegetation and is of moderate quality or comprises a small
		Open water		part and is of high quality
		Other	3	Present and comprises significant part, or more, of wetland's
		6b. horizontal (plan view) Interspersion.		vegetation and is of high quality
		Select only one.	M. John Daniella	F. Vanatation Quality
		High (5)	low	n of Vegetation Quality Low spp diversity and/or predominance of nonnative or
		Moderately high(4)  Moderate (3)	·	disturbance tolerant native species
		Moderately low (2)	mod	Native spp are dominant component of the vegetation,
		Low (1)	,,,,,	although nonnative and/or disturbance tolerant native spp
		None (0)		can also be present, and species diversity moderate to
		6c. Coverage of invasive plants. Refer		moderately high, but generallyw/o presence of rare
		to Table 1 ORAM long form for list. Add		threatened or endangered spp
		or deduct points for coverage	high	A predominance of native species, with nonnative spp
		Extensive >75% cover (-5)		and/or disturbance tolerant native spp absent or virtually
,		Moderate 25-75% cover (-3)		absent, and high spp diversity and often, but not always,
,		Moderate 25-75% cover (-3) Sparse 5-25% cover (-1)	CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR	the presence of rare, threatened, or endangered spp
		Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0)	Mudflat and Open W	the presence of rare, threatened, or endangered spp
		Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1)	Mudflat and Open W	the presence of rare, threatened, or endangered spp
		Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1) 6d. Microtopography.		the presence of rare, threatened, or endangered spp
		Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1)	0	the presence of rare, threatened, or endangered spp  ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)
		Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1) 6d. Microtopography. Score all present using 0 to 3 scale.	0 1 2	ater Class Quality Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.47 acres)
		Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1) 6d. Microtopography. Score all present using 0 to 3 scale. Vegetated hummucks/tussucks	0 1 2 3	the presence of rare, threatened, or endangered spp  (ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more
		Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1) 6d. Microtopography. Score all present using 0 to 3 scale. Vegetated hummucks/tussucks Coarse woody debris >15cm (6in)	0 1 2	the presence of rare, threatened, or endangered spp  ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more
		Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1)  6d. Microtopography. Score all present using 0 to 3 scale, Vegetated hummucks/tussucks Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh	0 1 2 3 Microtopography Co	the presence of rare, threatened, or endangered spp  ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  over Scale  Absent
		Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1)  6d. Microtopography. Score all present using 0 to 3 scale, Vegetated hummucks/tussucks Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh	0 1 2 3 Microtopography Co	the presence of rare, threatened, or endangered spp  ater Class Quality  Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres) High 4ha (9.88 acres) or more  over Scale  Absent Present very small amounts or if more common
		Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1)  6d. Microtopography. Score all present using 0 to 3 scale, Vegetated hummucks/tussucks Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh	0 1 2 3 Microtopography Co	the presence of rare, threatened, or endangered spp  ater Class Quality  Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.47 acres) Moderate 1 to <4ha (2.47 to 9.88 acres) High 4ha (9.88 acres) or more  over Scale Absent Present very small amounts or if more common of marginal quality
		Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1)  6d. Microtopography. Score all present using 0 to 3 scale, Vegetated hummucks/tussucks Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh	0 1 2 3 Microtopography Co	the presence of rare, threatened, or endangered spp  (ater Class Quality   Absent <0.1ha (0.247 acres)   Low 0.1 to <1ha (0.247 to 2.47 acres)   Moderate 1 to <4ha (2.47 to 9.88 acres)   High 4ha (9.88 acres) or more    Over Scale   Absent     Present very small amounts or if more common of marginal quality     Present in moderate amounts, but not of highest
		Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1)  6d. Microtopography. Score all present using 0 to 3 scale, Vegetated hummucks/tussucks Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh	0 1 2 3 Microtopography Co	the presence of rare, threatened, or endangered spp  ater Class Quality  Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.47 acres) Moderate 1 to <4ha (2.47 to 9.88 acres) High 4ha (9.88 acres) or more  over Scale Absent Present very small amounts or if more common of marginal quality

Name: L. McKinney
Date: 8 8 06
Affiliation: ASC Grove, Isc.
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 859 - 746 - 1967
e-mail address: LMCKINNEY @ ASCGROUP. NET
Name of Wetland: Wetland 9
Vegetation Communit(ies): FORESTE O
HGM Class(es): DEPOESSION
Cocation of Wetland include map, address, north arrow, landmarks, distances, roads, etc.
International Gateway  International Gateway  Sth Ave  Sth Ave
Lat/Long or UTM Coordinate
USGS Quad Name  N.E. COLUMBUS  County  Franklin
County Frankling Township
Section and Subsection
Hydrologic Unit Code
315104
Ohio Wetland Inventory Man
Soil Survey
Delineation report/map
Wetland Size (acres, hectares)

Name:	
sketch (include north arrow, relationship with other surface waters, vegetationship	on zones, etc.)
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STELZER ROMP	
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0.50	
200 GROWTH	FOREST
Comments, Narrative Discussion, Justification of Category Changes	
SECOND GNOWTH FORESTED WETLAND DOMINA	TED BY PIN DAK
SECONO GNOWTH FORESTED METUNE	• .
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	•
Final score : 41	Category 2

<u> </u>	Question	Circle one	
	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2	NO Go to Question 2
2	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES  Wetland is a Category 3 wetland.  Go to Question 3	Go to Question 3
	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
1	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland Go to Question 5	Go to Question 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea</i> , <i>Lythrum salicaria</i> , or <i>Phragmites australis</i> , or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland Go to Question 6	Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	Go to Question
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is the saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland Go to Question 8a	Go to Question

# .	Question	Circle one	
8a	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics:	YES	NO
	overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100	Wetland is a Category 3 wetland.	Go to Question 8b
	years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	Go to Question 8b	
8b	Mature forested wetlands. Is the wetland a forested wetland with	(YES)	NO
0.0	50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	Wetland should be evaluated for possible Category 3 status.	Go to Question 9a
		Go to Question 9a	
9a	Lake Erie coastal and tributary wetlands. Is the wetland located at	YES	(NO)
	an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erle that is accessible to fish?	Go to Question 9b	Go to Question 10
9b	Does the wetland's hydrology result from measures designed to	YES	NO
	prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible Category 3 status	Go to Question 9c
		Go to Question 9d	
9c	Are Lake Erie water levels the wetland's primary hydrological influence,	YES	NO
	i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	Go to Question 9d	Go to Question 9d
9d	Does the wetland have a predominance of native species within its	YES	NO
<b>34</b>	vegetation communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9e
		Go to Question 10	
9e	Does the wetland have a predominance of non-native or disturbance	YES	NO
	tolerant native plant species within its vegetation communities?	Wetland should be evaluated for possible Category 3 status	Go to Question 10
		Go to Question 10	
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in	YES	(O)
	Lucas, Fulton, Henry, or Wood Counties and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within	Wetland is a Category 3 wetland.	Go to Question 11
	several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	Go to Question 11	
11	Relict Wet Prairies. Is the wetland a relict wet prairie community	YES	(NO)
•••	dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio, Erie County, and portions of western Ohio	Wetland should be evaluated for possible Category 3 status	Complete Quantitative Rating
	Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).	Complete Quantitative Rating	

toxic pollutants

farmina

nutrient enrichment

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Site:		Rat	ter(s):	·	Date:
	200				
	37		•		
	sublotal this pa	ge	•		
5	110	1 5 1 B F d			
J	42	Metric 5. Special Wet	lands.		•
max 10 pts.	subtotal	Check all that apply and score as indicated.			
		Bog (10)	•		
		Fen (10) Old growth forest (10)			
		Mature forested wetland (5)	•		
		Lake Erie coastal/tributary wetland-u	inrestricted hydrology (1	0)	
		Lake Erie coastal/tributary wetland-r			
		Lake Plain Sand Prairies (Oak Oper	ings) (10)		
		Relict Wet Praires (10)		-1 (40)	
		Known occurrence state/federal three			
		Significant migratory songbird/water Category 1 Wetland. See Question			
	T	- I have an in the second			
5	47	Metric 6. Plant comm	unities, int	erspersion, mic	rotopography.
	sublotal	6a. Wetland Vegetation Communities.	Vegetation Communi	tv Cover Scale	And the second s
max 20 pts.	subtotal	Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0	.2471 acres) contiguous area
		Aquatic bed	1	Present and either comprises s	mall part of wetland's
		Emergent		vegetation and is of moderate	
		Shrub		significant part but is of low q	uality
		2 Forest	2	Present and either comprises s	e quality or comprises a small
		Mudflats	•	part and is of high quality	s quality of comprises a similar
		Open water	3	Present and comprises signific	ant part, or more, of wetland's
		Other 6b. horizontal (plan view) Interspersion.		vegetation and is of high qua	
		Select only one.			
		High (5)	Narrative Description	of Vegetation Quality	
		Moderately high(4)	low	Low spp diversity and/or predo	
		Moderate (3)		disturbance tolerant native si Native spp are dominant comp	opent of the vegetation.
		Moderately low (2)	mod	Native spp are dominant comp	sturbance tolerant native spp
		Low (1)		can also be present, and spe	ecies diversity moderate to
		None (0)  6c. Coverage of invasive plants. Refer		moderately high, but general	lyw/o presence of rare
		to Table 1 ORAM long form for list. Add		threatened or endangered sp	g q q
		or deduct points for coverage	high	A predominance of native spec	cles, with nonnative spp
	•.	Extensive >75% cover (-5)		and/or disturbance tolerant r	native spp absent or virtually
		Moderate 25-75% cover (-3)		absent, and high spp diversi the presence of rare, threate	ty and often, but not always,
		Sparse 5-25% cover (-1)	ON COMPANY AND ASSESSMENT OF COMPANY ASSESSMENT OF COMPANY AND ASSESSMENT OF COMPANY AND ASSESSMENT OF COMPANY AND ASSESSMENT OF COMPANY AND ASSESSMENT OF COMPANY AND ASSESSMENT OF COMPANY AND ASSESSMENT OF COMPANY AND ASSESSMENT OF COMPANY AND ASSESSMENT OF COMPANY ASSESSMENT OF COMPANY ASSESSMENT OF COMPANY ASSESSMENT OF COMPANY ASSESSMENT OF COMPANY A	the presence of rare, threate	illed, or endangered upp
		Nearly absent <5% cover (0)	Mudflat and Open W	ater Class Quality	and the second
		Absent (1) 6d. Microtopography.	0	Absent <0.1ha (0.247 acres)	
		Score all present using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47	
		Vegetated hummucks/tussucks	2	Moderate 1 to <4ha (2.47 to 9	
		2 Coarse woody debris >15cm (6in)	3	High 4ha (9.88 acres) or more	
		- Standing dead >25cm (10in) dbh	•		
		Amphibian breeding pools	Microtopography Co		The state of the s
			0 1	Absent Present very small amounts o	r if more common
			i i	of marginal quality	
			2	Present in moderate amounts	, but not of highest
				quality or in small amounts	of highest quality
			3	Present in moderate or greate	er amounts
				and of highest quality	

GRAND TOTAL(max 100 pts)

Name: L. MCKINNEY
Date: 8/8/06
Affiliation: ASC GREVP, INC.
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 859 - 746 - 1967
e-mail address: LMCKINNEY @ ASCGNOUP. NET
Name of Wetland: WETLAND 10
Vegetation Communit(ies): FORESTEO
HGM Class(es): DEPILESSION
Cocation of Wetland include map, address, north arrow, landmarks, distances, roads, etc.
International Gateway  The Ave  Sth Ave
Lat/Long or UTM Coordinate
USGS Quad Name  N.E. COLMBUS  County  Franklin
County Franklia Township
Section and Subsection
Hydrologic Unit Code 05060001 - 140
Site Visit 8 4 01a
National Wetland Inventory Map  N.E. Columbus
Ohio Wetland Inventory Map
Soil Survey Franklin
Delineation report/map
Wetland Size (acres, hectares)  0.21 AC

lame:				
ketch (include north arrow, relation	nship with other surface water	rs, vegetation zones	s, etc.)	
	Mower			•
	•			
	WETLAND			
	/ WETLAND			
		•		
	01			
	Mondo			
	le difference of Codonous Cha	0000		
Comments, Narrative Discussion, .				Pul CAV
SECOND GROWTH	FORESTED WETLAN	O DOWINA	ED 67	112 0112
				•
		•.		•

Q

Category

Final score: 48

!	Question	Circle one	
	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2	NO Go to Question 2
	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES  Wetland is a Category 3 wetland.  Go to Question 3	NO Go to Question 3
	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES  Wetland is a Category 3 wetland  Go to Question 5	Go to Question 5
j	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea</i> , <i>Lythrum salicaria</i> , or <i>Phragmites australis</i> , or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES  Wetland is a Category 1 wetland  Go to Question 6	(NO) Go to Question
3	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	NO) Go to Question
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is the saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland Go to Question 8a	NO Go to Question

‡	Question	Circle one		
a	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	Wetland is a Category 3 wetland.  Go to Question 8b		
b	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	YES  Wetland should be evaluated for possible Category 3 status.	NO Go to Question 9a	
		Go to Question 9a		
a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this	YES	Go to Question 10	
	elevation, or along a tributary to Lake Erie that is accessible to fish?	Go to Question 9b		
ס	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	YES Wetland should be evaluated for possible Category 3 status	NO Go to Question 9	
		Go to Question 9d		
3	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	YES Go to Question 9d	NO Go to Question 9	
d d	Does the wetland have a predominance of native species within its vegetation communities, although non-native or disturbance tolerant native species can also be present?	YES Wetland is a Category 3 wetland	NO Go to Question 9	
		Go to Question 10		
e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES  Wetland should be evaluated for possible Category 3 status	NO Go to Question 1	
		Go to Question 10		
0	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in Lucas, Fulton, Henry, or Wood Countles and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	YES  Wetland is a Category 3 wetland.  Go to Question 11	NO Go to Question 1	
1	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio, Erie County, and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).	YES  Wetland should be evaluated for possible Category 3 status  Complete Quantitative	Complete Quantitative Rating	

48 GRAND TOTAL(max 100 pts)

and of highest quality

Name: L. McKINNEY
Date: 8 8 06
Affiliation: ASC Group, HC.
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 859 - 746 - 1967
e-mail address: LMCKINNEY @ ASCGROUP. NET
Name of Wetland: WETLAND 11 A- 11Z
Vegetation Communit(ies): EMERGENT
HGM Class(es): DEPRESSION
cation of Wetland include map, address, north arrow, landmarks, distances, roads, etc.
Thernational Gateway  Thernational Gateway  Will N  Sth Ave
Lat/Long or UTM Coordinate
USGS Quad Name N.E. COLUMBUS
County  N.E. COLMBUS  FRANKLIN
Township
Section and Subsection
Hydrologic Unit Code 05060001-140
Site Visit 8 8 0 6
National Wetland Inventory Map N.E. Columbia
Ohio Wetland Inventory Map
Soil Survey Franklin
Delineation report/map
Wetland Size (acres, hectares) (0.19 a.c.

Name:
sketch (include north arrow, relationship with other surface waters, vegetation zones, etc.) 1
2
Comments, Narrative Discussion, Justification of Category Changes  WETLAND COMPLEX OF EMERGENT IN MOWED
OLD FIELD AREA
Final score: 17 C Category /

<del>#</del>	Question	Circle one	
1	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2	Go to Question 2
2	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES Wetland is a Category 3 wetland. Go to Question 3	Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland Go to Question 5	NO Go to Question 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea</i> , <i>Lythrum salicaria</i> , or <i>Phragmites australis</i> , or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES  Wetland is a Category 1 wetland  Go to Question 6	Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	Go to Question 7
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is the saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland	Go to Question 8

	Question	Circle one		
а	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics:	YES	(NO)	
	overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence	Wetland is a Category 3 wetland.	Go to Question 8t	
	of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	Go to Question 8b		
þ	Mature forested wetlands. Is the wetland a forested wetland with	YES	(NO)	
	50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	Wetland should be evaluated for possible Category 3 status.	Go to Question 9	
	•	Go to Question 9a		
a _.	Lake Erie coastal and tributary wetlands. Is the wetland located at	YES	NO	
	an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erle that is accessible to fish?	Go to Question 9b	Go to Question 1	
	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is	YES	NO	
	partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible Category 3 status	Go to Question 9	
		Go to Question 9d		
<u></u>	Are Lake Erie water levels the wetland's primary hydrological influence.	YES	ИО	
	i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	Go to Question 9d	Go to Question 9	
d	Does the wetland have a predominance of native species within its	YES	NO	
	vegetation communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9	
		Go to Question 10		
e	Does the wetland have a predominance of non-native or disturbance	YES	NO	
	tolerant native plant species within its vegetation communities?	Wetland should be evaluated for possible Category 3 status	Go to Question	
		Go to Question 10		
0	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in	YES	NO	
	Lucas, Fulton, Henry, or Wood Countles and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within	Wetland is a Category 3 wetland.	Go to Question	
	several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	Go to Question 11		
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio, Erie County, and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).	YES  Wetland should be evaluated for possible Category 3 status  Complete Quantitative	Complete Quantitative Rating	

Site:	WET	AND 11 A - 112	Rater(s):	L. McKw,	4 <b>6</b> Y	Date:	8 8 18 106
3	3	Metric 1. Wetland	Area (siz	:e).			
max 6 pts.	subiotal	Select one size class and assign score  >50 acres (>20.2ha) (6 pts)  25 to <50 acres (10.1 to <20.  10 to <25 acres (4 to <10.1ha  3 to <10 acres (1.2 to <4ha) ( 0.3 to <3 acres (0.12 to <1.2to 0.1 to <0.3 acres (0.04 to <0.  <0.1 acres (0.04ha) (0 pts)	2ha) (5 pts) a) (4 pts) (3 pts) a) (2pts)	·- /·			
2	5	Metric 2. Upland b	ouffers an	ıd surrour	ndina land us	<b>S</b> A	
max 14 pts.	sublotal	2a. Calculate average buffer width. Se WIDE. Buffers average 50m MEDIUM. Buffers average 20 NARROW. Buffers average 20 VERY NARROW. Buffers average 20 NARROW.	elect only one and a (164ft) or more arou 5m to <50m (82 to < 10m to <25m (32ft) erage <10m (<32ft)	ssign score. Do not und welland perimete 164ft) around wetlar to <82ft) around wetl around wetland pen	double check. er (7) nd perimeter (4) and perimeter (1) meter (0)		
ght after any second se		2b. Intensity of surrounding land use.  VERY LOW. 2nd growth or o LOW. Old field (>10 years), s  MODERATELY HIGH. Resid  HIGH. Urban, industrial, oper	Select one or double lider forest, prairie, shrubland, young se ential, fenced pastu	le check and average savannah, wildlife are cond growth forest.	e. ea, etc. (7) 5) · In tillage new fallow field (	(3)	
15.5	20.5	Metric 3. Hydrolog					
max 30 pts.	subtotal	3a. Sources of Water. Score all that ap High pH groundwater (5) Other groundwater (3) Precipitation (1) Seasonal/Intermittent surface Perennial surface water (lake 3c. Maximum water depth. Select only >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) (2	water (3) or stream) (5) one and assign sco	3d. Dur	nnectivity. Score all that ap 100 year floodplain (1) Between stream/lake and Part of wetland/upland (e Part of riparian or upland ation inundation/saturation Semi- to permanently inu Regularly inundated/satu Seasonally inundated (2)	d other hum e.g. forest), d corridor (1) n. Score on- undated/sati urated (3)	complex (1) ) e or dbl check. urated (4)
		3e. Modifications to natural hydrologic:  None or none apparent (12)  Recovered (7)  Recovering (3)  Recent or no recovery (1)	Check all disturbated ditch tile dike weir stormwater i	ances observed	Seasonally saturated in uaverage.  point source (nonstormwifilling/grading road bed/RR track dredging other_		(12in) (1)
5	25.5	Metric 4. Habitat A	Iteration	and Dove	Janmont		
max 20 pts.	subtotal	4a. Substrate disturbance. Score one of None or none apparent (4)  Recovered (3) Recovering (2) Recent or no recovery (1)  4b. Habitat development. Select only of	or double check and	l average.	юртен.		
		Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1)					
	25.5	4c. Habitat alteration. Score one or do  None or none apparent (9)  Recovered (6)  Recovering (3)  Recent or no recovery (1)	Check all disturbations of the control of the contr	ances observed tting	shrub/sapling removal herbaceous/aquatic bed sedimentation dredging farming nutrient enrichment	removal	

		m Quantitative Rating		Date:
Site:		[Rai	er(s):	Duto
Γ		1 .		
	25.5			
٥	×3.3			
subt	otal this paç	ре 1	•	
0 5	ne	Bartin F Consist Mot	landa	
0	25.5	Metric 5. Special Wet	ianus.	•
max 10 pts.	subtotal	Check all that apply and score as indicated.		
		Bog (10)		
		Fen (10)		
		Old growth forest (10)  Mature forested wetland (5)		
		Lake Erie coastal/tributary wetland-t	inrestricted hydrology (1)	0)
		Lake Erle coastal/tributary wetland-r	estricted hydrology (5)	
		Lake Plain Sand Prairies (Oak Oper		
		Relict Wet Praires (10)		
		Known occurrence state/federal three	atened or endangered s	pecies (10)
		Significant migratory songbird/water	fowl habitat or usage (1	0)
		Category 1 Wetland. See Question	1 Qualitative Rating (-10	O) ·
		1		Videor or a service of the service o
2 1	27.5	Metric 6. Plant comm	iunities, inte	erspersion, microtopography.
max 20 pts.	subtotal	6a. Wetland Vegetation Communities.	Vegetation Communit	v Cover Scale
max zo pia.	30010101	Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
		- Aquatic bed	1	Present and either comprises small part of wetland's
		Emergent		vegetation and is of moderate quality, or comprises a
		Shrub		significant part but is of low quality
		Forest	2	Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small
		Mudflats		
		Open water		part and is of high quality  Present and comprises significant part, or more, of wetland's
		Other	<b>3</b> .	vegetation and is of high quality
		6b. horizontal (plan view) Interspersion.		Vegetation and is of riight quality
		Select only one.	Narrative Description	of Vegetation Quality
		High (5)	low	Low spp diversity and/or predominance of nonnative or
		Moderately high(4)  Moderate (3)		disturbance tolerant native species
		Moderately low (2)	mod	Native spp are dominant component of the vegetation,
		Low (1)		although nonnative and/or disturbance tolerant native spp
		None (0)		can also be present, and species diversity moderate to
		6c. Coverage of invasive plants. Refer		moderately high, but generallyw/o presence of rare
		to Table 1 ORAM long form for list. Add		threatened or endangered spp
		or deduct points for coverage	hìgh	A predominance of native species, with nonnative spp
	-	Extensive >75% cover (-5)		and/or disturbance tolerant native spp absent or virtually
		Moderate 25-75% cover (-3)		absent, and high spp diversity and often, but not always,
		Sparse 5-25% cover (-1)	CLE COMMENCE THE STREET COMMENCE STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET, COMMENT STREET,	the presence of rare, threatened, or endangered spp
		Nearly absent <5% cover (0)		
		Absent (1)	Mudflat and Open Wa	ater Class Quality
		6d. Microtopography.	0	Absent <0.1ha (0.247 acres)
		Score all present using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)
		Vegetated hummucks/tussucks	2	High 4ha (9.88 acres) or more
		Coarse woody debris >15cm (6in)	3	Fig.1 4118 (3.00 80165) OF HOLD
		Standing dead >25cm (10in) dbh	Manakana amerikan Ga	war Scala
		<ul> <li>Amphibian breeding pools</li> </ul>	Microtopography Co	Absent
			0	Present very small amounts or if more common
			'	of marginal quality
			2	Present in moderate amounts, but not of highest
			٠.	quality or in small amounts of highest quality
			3 .	Present in moderate or greater amounts
•			•	and of highest quality

27.5 GRAND TOTAL(max 100 pts)

· ·	
Name: L. McKINNEY	
Date: 8 8 06	
Affiliation: ASC Grove, No.	
Address: 1016 BURLINGTON PIKE, FLORENCE,	KY 41042
Phone Number: 859 - 746 - 1967	
e-mail address: LMCKINNEY @ ASCGROUP. NET	
Name of Wetland: WETLAND 12A-120	
Vegetation Communit(ies): EMERGENT	
HGM Class(es): DEPRESSION	
cation of Wetland include map, address, north arrow, landmarks, distr	ances, roads, etc.
International Gateway  Wild at Sth Ave  5th Ave	Sing Walnut Creek
Lat/Long or UTM Coordinate	
USGS Quad Name N.E. Cot	JMBUS
County  USGS Quad Name  N.E. County  Frankling	
Township	
Section and Subsection	
Hydrologic Unit Code 0506 000	01-140
Site Visit S 8 8 0	<i>Σ</i> ( <i>γ</i>
National Wetland Inventory Map N. E. Cu	olum Bus
Ohio Wetland Inventory Map	
Soil Survey Frankli	ده.
Delineation report/map	
Wetland Size (acres, hectares)	19 AC

Name:
sketch (include north arrow, relationship with other surface waters, vegetation zones, etc.)
NT
SECOND GROWTH FOREST
Start Land
Rosy Winterest Over Box Winterest Over Winterest Ov
Total Port
Comments, Narrative Discussion, Justification of Category Changes
SMALL EMERGENT DEPRESSIONAL AREAS DOMINATED BY
Juneus EFFUSUS AND SCIENCES CYPERINUS
Final score: 17.5 Category /

:	Question	Circle one	ļ
	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2	NO Go to Question 2
	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES  Wetland is a Category 3 wetland.  Go to Question 3	Go to Question 3
	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland Go to Question 5	Go to Question 5
<b>i</b>	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by Phalaris arundinacea, Lythrum salicaria, or Phragmites australis, or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES  Wetland is a Category 1 wetland Go to Question 6	Go to Question 6
5	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES  Wetland is a Category 3 wetland  Go to Question 7	Go to Question 7
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is the saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland	NO Go to Question 8

#	Question	Circle one	
3a	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers	YES Wetland is a Category 3 wetland. Go to Question 8b	Go to Question 8b
3 <b>b</b>	of standing dead snags and downed logs?  Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	YES  Wetland should be evaluated for possible Category 3 status.  Go to Question 9a	NO Go to Question 9a
)a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	YES Go to Question 9b	NO Go to Question 10
lb	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	YES  Wetland should be evaluated for possible Category 3 status	NO Go to Question 90
)c	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	YES Go to Question 9d Go to Question 9d	NO Go to Question 9
d	Does the wetland have a predominance of native species within its vegetation communities, although non-native or disturbance tolerant native species can also be present?	YES Wetland is a Category 3 wetland Go to Question 10	NO Go to Question 9
)e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 10	NO Go to Question 1
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in Lucas, Fulton, Henry, or Wood Countles and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	YES  Wetland is a Category 3 wetland.  Go to Question 11	Go to Question 1
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio, Erie County, and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).	YES  Wetland should be evaluated for possible Category 3 status  Complete Quantitative	Complete Quantitative Rating

Site:	WETL	NO BA	-120	Rater(s):	L. McKi	nney	Date:	8 8 06
0	0	]  Metric 1	. Wetland	Area (siz	re)			
max 6 pts.	subtotal	Select one size	class and assign score (>20.2ha) (6 pts) <50 acres (10.1 to <20. <25 acres (4 to <10.1hi lo acres (1.2 to <4ha) <3 acres (0.12 to <1.2i <0.3 acres (0.04 to <0. cres (0.04 to <0. cres (0.04ha) (0 pts)	2ha) (5 pts) a) (4 pts) (3 pts) na) (2pts)	. <del></del> ).			
4	4	Metric 2	. Upland b	ouffers ar	nd surro	unding land	l use.	
max 14 pts.	sublotal	2a. Calculate av WIDE. MEDIL NARR	erage buffer width. Se Buffers average 50m JM. Buffers average 2 OW. Buffers average NARROW. Buffers av	elect only one and a (164ft) or more aro 5m to <50m (82 to 10m to <25m (32ft	ssign score. Do und wetland perir <164ft) around we to <82ft) around v	not double check. neter (7) stland perimeter (4) wetland perimeter (1)		
<b>****</b>	<b>/</b>	2b. Intensity of s VERY LOW.	surrounding land use. LOW. 2nd growth or c Old field (>10 years), s	Select one or doub older forest, prairie, shrubland, young se tential, fenced pasti	le check and ave savannah, wildlife econd growth fore ure, park, conserv	rage. e area, etc. (7) st. (5) ation tillage, new fallow	field. (3)	
6.5	10.5	Metric 3	. Hydrolog	ay.				
max 30 pts.	subtotal	3a. Sources of N High p Other of N Precip Seaso Pereni 3c. Maximum w	Vater. Score all that and the secondwater (5) groundwater (3) station (1) shall hard surface water (lake ater depth. Select only	water (3) or stream) (5)	3d.	Part of wetland/up Part of riparian or Duration inundation/sat	n (1) ake and other hum land (e.g. forest), upland corridor (1	complex (1) ) e or dbl check.
		0.4 to <0.4m 3e. Modification	.7.6in) (3) 0.7m (15.7 to 27.6in) (2 (<15.7in) (1) s to natural hydrologic	•	or double check	Regularly inundate Seasonally inundate Seasonally satura and average.	ited (2)	(12in) (1)
	•	Recov Recov	or none apparent (12) ered (7) ering (3) t or no recovery (1)	Check all disturb ditch tile dike weir stormwater		point source (nons filling/grading road bed/RR track dredging other	.,	
3	13.5	Metric 4	. Habitat A	Alteration	and De	velopment.		
max 20 pts.	subtotal	4a. Substrate di None Recov	sturbance. Score one or none apparent (4) ered (3) ering (2)	or double check an	d average.			
		4b. Habitat devi	ately good (4) i) o fair (2)	one and assign sco	re.			
	13.5 subtolal this p	None Recov Recov Recev	1) ration. Score one or do or none apparent (9) vered (6) vering (3) nt or no recovery (1)		pances observed  utting ris removal	shrub/sapling rem herbaceous/aqua sedimentation dredging farming nutrient enrichme	tic bed removal	

subtota	3,5			
subtota O I	3.5			
subtota O I	,,,			
0 1				
	al this page			
	13.5	Metric 5. Special We	tlands	
ax 10 pts. suc			- LICITOR	
	btotal	Check all that apply and score as indicated.  Bog (10)		
		Fen (10)		
		Old growth forest (10)	•	•
		Mature forested wetland (5)		
		Lake Erie coastal/tributary wetland		))
		Lake Erie coastal/tributary wetland		
		Lake Plain Sand Prairies (Oak Op	enings) (10)	
		Relict Wet Praires (10)  Known occurrence state/federal th	reatened or endangered st	pecies (10)
		Significant migratory songbird/wat		
		Category 1 Wetland. See Question		
		)		
2 15	5.5	Metric 6. Plant comi	nunities, inte	erspersion, microtopography.
~		6a. Wetland Vegetation Communities.	Vegetation Community	v Cover Scale
ax zu pis. su		Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
		O Aquatic bed	1	Present and either comprises small part of wetland's
		/ Emergent	•	vegetation and is of moderate quality, or comprises a
		Shrub		significant part but is of low quality
		O Forest	. 2	Present and either comprises significant part of wetland's
			•	vegetation and is of moderate quality or comprises a small
		Open water		part and is of high quality  Present and comprises significant part, or more, of wetland's
		Other	3	vegetation and is of high quality
		6b. horizontal (plan view) Interspersion. Select only one.		Volument and the second
		High (5)	Narrative Description	of Vegetation Quality
		Moderately high(4)	low	Low spp diversity and/or predominance of nonnative or
		Moderate (3)	•	disturbance tolerant native species
		Moderately low (2)	mod	Native spp are dominant component of the vegetation,
		Low (1)		although nonnative and/or disturbance tolerant native spp
		≥ None (0)		can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare
		6c. Coverage of invasive plants. Refer		threatened or endangered spp
		to Table 1 ORAM long form for list. Add	high	A predominance of native species, with nonnative spp
		or deduct points for coverage  Extensive >75% cover (-5)	ragri .	and/or disturbance tolerant native spp absent or virtually
		Moderate 25-75% cover (-3)		absent, and high spp diversity and often, but not always,
		Sparse 5-25% cover (-1)		the presence of rare, threatened, or endangered spp
		Nearly absent <5% cover (0)	Exclusion for the party state of the state o	
		≯Absent (1)	Mudflat and Open Wa	iter Class Quality
		6d. Microtopography.	0	Absent <0.1ha (0.247 acres)
		Score all present using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47 acres)
		Vegetated hummucks/tussucks	2	Moderate 1 to <4ha (2.47 to 9.88 acres)
		O Coarse woody debris >15cm (6ir		High 4ha (9.88 acres) or more
		O Standing dead >25cm (10in) dbh		You Sanla
		O Amphibian breeding pools	Microtopography Cov	Absent
			0	Present very small amounts or if more common
			•	of marginal quality
			2	Present in moderate amounts, but not of highest
		•		quality or in small amounts of highest quality
			3	Present in moderate or greater amounts
				and of highest quality

	·
Name: L. McKINNEY	
Date: 8 8 06	
Affiliation: ASC Grove, He.	
Address: 1016 BURLINGTON PIKE,	FLORENCE, KY 41042
Phone Number: 859 - 746 - 1967	
e-mail address: LMCKINNEY @ ASCGNO	JP. NET
Name of Wetland: W 13	
Vegetation Communit(ies): EMERGENT	
HGM Class(es): DEPRESSION	
Cation of Wetland include man, address, north a	rrow, landmarks, distances, roads, etc.
17th the Fr Sth Ave	eway Creek
Lat/Long or UTM Coordinate	
USGS Quad Name County	N.E. COLUMBUS FRANKLIN
Township	FRANKLIN
Section and Subsection	
Hydrologic Unit Code	05060001-140
Site Visit	8/8/06
National Wetland Inventory Map	N.E. COLUMBUS
Ohio Wetland Inventory Map	NA
Soil Survey	Franklin
Delineation report/map	- In Alberta
Wetland Size (acres, hectares)	0.21 AC

Sketch (Include north arrow, relationship with other surface waters, vegetation zones, etc.)    NATERNATIONAL GATEMIN    NATERNATIONAL GATEMIN    Comments, Narrative Discussion, Justification of Category Changes    Vegetative (Cattalls) Smale	Name:	
Comments, Narrative Discussion, Justification of Category Changes	ketch (include north arrow, relationship with other surface waters, vegetation zones, etc.)	
Comments, Narrative Discussion, Justification of Category Changes	STELZER RO	

ŧ 	Question	Circle one	
	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2	Go to Question 2
!	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES  Wetland is a Category 3 wetland.  Go to Question 3	Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
ļ	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES  Wetland is a Category 3 wetland  Go to Question 5	Go to Question 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea</i> , <i>Lythrum salicaria</i> , or <i>Phragmites australis</i> , or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland Go to Question 6	NO Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	Go to Question 7
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is the saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland Go to Question 8a	Go to Question 8

#	Question	Circle one	
	"Old Growth Forest." Is the wetland a forested wetland and is the	YES	(NO)
8a	forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence	Wetland is a Category 3 wetland.	Go to Question 8b
	of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	Go to Question 8b	
8b	Mature forested wetlands. is the wetland a forested wetland with	YES	NO
	50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	Wetland should be evaluated for possible Category 3 status.	Go to Question 9a
		Go to Question 9a	
9a.	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this	YES	NO
	elevation, or along a tributary to Lake Erie that is accessible to fish?	Go to Question 9b	Go to Question 10
9b	Does the wetland's hydrology result from measures designed to	YES	NO
	prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible Category 3 status	Go to Question 9c
		Go to Question 9d	<u></u>
9c	Are Lake Erie water levels the wetland's primary hydrological influence,	YES	NO.
	i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	Go to Question 9d	Go to Question 9d
9d	Does the wetland have a predominance of native species within its	YES	ИО
	vegetation communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9e
		Go to Question 10	
9e	Does the wetland have a predominance of non-native or disturbance	YES	ИО
	tolerant native plant species within its vegetation communities?	Wetland should be evaluated for possible Category 3 status	Go to Question 10
		Go to Question 10	
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in	YES	NO
	Lucas, Fulton, Henry, or Wood Counties and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within	Wetland is a Category 3 wetland.	Go to Question 11
	several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	Go to Question 11	
11	Relict Wet Prairies. Is the wetland a relict wet prairie community	YES	(NO)
	dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio, Erie County, and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).	Wetland should be evaluated for possible Category 3 status	Complete Quantitative Rating
	Counties (e.g. Daine, Mercer, Miarin, Monagornery, etc.).	Complete Quantitative Rating	

Metric 1. Wetland Area (size).    Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross   Spict of the libra class and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cross and station cros	٠	Site:	WETL.	AN9	13		Rater(s):	L. A	Ackinney	Date:	8/8/06
Security of services and assign secret.    Security of Secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.7 to 20.2%) (p.pts)   25 to 490 secret (10.2%) (p.pts)   25 to 490 sec		Ì	١	Met	tric 1.	Wetland	d Area (si	ze).			•
West of a subtant   Section   Sect	ı	max 6 pts.	subtotal	Select of	one size class >50 acres ( 25 to <50 a 10 to <25 a 3 to <10 ac 0.3 to <3 ac 0.1 to <0.3	and assign scoi (>20.2ha) (6 pts) acres (10.1 to <2 acres (4 to <10.1 ares (1.2 to <4ha acres (0.12 to <1.2 acres (0.04 to <1.2	re. 0.2ha) (5 pts) ha) (4 pts) ) (3 pts) 2ha) (2pts)	20).			
max 14 pts substal  2. Calculate average bruffer width. Select only one and assign score. Do not double check.    MEDIUM. Bruffers average 25 mt 1 < 50 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 25 mt 2		3	4	Met	ric 2.	Upland	buffers a	nd surro	ounding land	ISP	
2.b. Intersity of surrounding land use. Select one or double check and average.  VERY LOW. 2nd growth or older forest, praise, savananh, wildlife area, etc. (7)  LOW. Old field (-10 years), shrubland, young second growth forest (5)  HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)  9.5   13.5   Metric 3. Hydfology.  3a. Sources of Water. Score all that apply.  High pit groundwater (3)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiation (1)  Percentiatio	-	max 14 pts.	sublotal	2a. Cal	culate averag WIDE. Buff MEDIUM. E NARROW.	e buffer width. S fers average 50r Buffers average Buffers average	Select only one and n (164ft) or more ar 25m to <50m (82 to 10m to <25m (32f	assign score. Do ound wetland per <164ft) around w t to <82ft) around	o not double check, imeter (7) vetland perimeter (4) vetland perimeter (1)		
max 30 pts.    Sources of Water. Score all that apply.   100 year floodplain (1)   100 year floo	F			2b. Inte	NSITY OF SURFOUND VERY LOW LOW. Old F	unding land use.  '. 2nd growth or ield (>10 years), ELY HIGH. Res	Select one or dou older forest, prairie shrubland, young s idential, fenced pas	ble check and av , savannah, wildli second growth for ture, park, conse	erage. fe area, etc. (7) est. (5) vation tillage, new fallow fiel	d. (3)	
Ja. Sources of Water. Score all that apply.  High pH groundwater (3)  Precipitation (1)  Seasonal/intermittent surface water (3)  Data/intermittent surface water (3)  Precipitation (1)  Seasonal/intermittent surface water (3)  Data/intermittent surface water (3)  Data/intermittent surface water (3)  Data/intermittent surface water (3)  Seasonal or unidation/saturation. Score one or double check.  Semi-lo permanently inundated (3)  Seasonally inundated (2)  Seasonally inundated (2)  Seasonally saturated in upper 30cm (12in) (1)  Recovered (7)  Recovered (7)  Recovered (3)  Recent or no recovery (1)  Ab. Habitat Alferation and Development.  4a. Substarte disturbance. Score one or double check and average.  None or none apparent (4)  Recovered (3)  Recovered (3)  Poor (1)  Recovered (3)  Poor to fair (2)  Poor (1)  Very good (6)  Good (5)  Good (5)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (4)  Recovering (5)  Recovering (6)  Recovering (7)  Recovering (8)  Recovering (9)  Recovering (9)  Recovering (1)  Recovering (1)  Recovering (1)  Recovering (1)  Recovering (2)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (3)  Recovering (4)  Recovering (4)  Recovering (6)  Recovering (7)  Recovering (7)  Recovering (8)  Recovering (9)  Recovering (9)  Recovering (1)  Recovering (1)  Recovering (1)  Recovering (1)  Recovering (1)  Recovering (1)  Recovering (1)  Recovering (1)  Recovering (1)  Recovering (1)  Recovering (1)  Recovering (1)  Recovering (1)  Recovering (1)  Recovering (1)  Recovering (1)  Recovering (1)  Rec		9.5	13.5	Met	ric 3. I	Hydrolo	qy.				
Check all disturbances observed   Recovered (3)   Recent or no recovery (1)   Ab. Substrate disturbance. Score one or double check and average.   None or none apparent (4)   Recovered (3)   Recovered (3)   Recovered (3)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)   Recovered (6)	-	max 30 pts.		3a. Sou	rces of Water	. Score all that a	apply.	3b.	Connectivity. Score all tha	t apply.	
3c. Maximum water depth. Select only one and assign score.    Semi- to permanently inundated/saturated (4)					Other groun Precipitation Seasonal/In	dwater (3) n (1) termittent surfac	e water (3) e or stream) (5)	34	Between stream/lake Part of wetland/upland Part of riparian or upland	and other hum d (e.g. forest), and corridor (1	complex (1)
None or none apparent (12) Recovering (3) Recent or no recovery (1)  Metric 4. Habitat Alteration and Development.  4a. Substrate disturbance. Score one or double check and average.  None or none apparent (4) Recovered (3) Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.  Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1)  4c.  None or none apparent (9) Recovered (3) Recovered (6) Recovered (6) Recovered (7) Recovered (7) Recovered (7) Recovered (8) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Re				- <del>-</del>	imum water d >0.7 (27.6in 0.4 to 0.7m <0.4m (<15.	lepth. Select on i) (3) (15.7 to 27.6in) .7in) (1)	ly one and assign s (2)	core.	Semi- to permanently Regularly inundated/s Seasonally inundated	inundated/sat aturated (3) (2)	urated (4)
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None or none apparent (9) Recovering (2) Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.  Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor (1)  4c. Habitat alteration. Score one or double check and average.  None or none apparent (9) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Recovered (6) Re		6	19.5	Met	ric 1 I	Habitat	Λ Itoration	and Da	volencet		
Recovering (2) Recent or no recovery (1)  4b. Habitat development. Select only one and assign score.  Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1)  4c. Habitat alteration. Score one or double check and average.  None or none apparent (9) Recovered (6) Recovered (6) Recovered (7) Recovered (8) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (9) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (1) Recovered (	L	max 20 pts.	subtotal	4a. Sub	strate disturb	ance. Score one	or double check a	i allu De nd average.	velopment.		
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Poor to fair (2) Poor (1)  4c. Habitat alteration. Score one or double check and average.  None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)  Recent or no recovery (1)  Recovering (3) Recovering (3) Recovering (3) Recovering (3) Recovering (3) Recovering (3) Recovering (3) Recovering (4) Recovering (5) Recovering (7) Recovering (8) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) Recovering (9) R					Very good ( Good (5) Moderately	6)					
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		Se	19.5		Recovered Recovering	(6) (3)	mowing grazing clearcuttin selective o woody del	g cutting oris removal	shrub/sapling remova herbaceous/aquatic b sedimentation dredging farming		

ite:		<u> </u>	Rater(s):	Date:
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subtotal th	nis page			
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0 19.	ン  Me	tric 5. Special W	etlands.	• ••
x 10 pts. subto	otal Check	all that apply and score as indicate	d.	
-	-[	Bog (10)		
		Fen (10)		
		Old growth forest (10)		
		Mature forested wetland (5)	·	40)
	1	Lake Erie coastal/tributary wetla		
		Lake Erie coastal/tributary wetla		
		Lake Plain Sand Prairies (Oak C	Openings) (10)	
	1	Relict Wet Praires (10)	I the second as and an arrange	Languige (10)
	-	Known occurrence state/federal		
	ļ	Significant migratory songbird/w	vater towi napital of usage	10)
	L	Category 1 Wetland. See Ques	silon i Qualitative Rating (-	10)
-1   18.	5 M/s	twie & Blant com	munities in	terspersion, microtopography
1 10.	7 IME	tric o. Plant Con	mumues, m	fel abeliated the case as a few
x 20 pts. subto		Vetland Vegetation Communities.	Vegetation Commun	Absent or comprises <0.1ha (0.2471 acres) contiguous area
	Score	all present using 0 to 3 scale.	0	Present and either comprises small part of wetland's
	· [	Aquatic bed	1	vegetation and is of moderate quality, or comprises a
	1	! Emergent	•	significant part but is of low quality
		Shrub	2	Present and either comprises significant part of wetland's
		Forest	4	vegetation and is of moderate quality or comprises a small
		Mudflats		part and is of high quality
		Open water	3	Present and comprises significant part, or more, of wetland's
		Otherorizontal (plan view) Interspersion.		vegetation and is of high quality
		t only one.		
	36160	High (5)	Narrative Description	on of Vegetation Quality
		Moderately high(4)	low	Low spp diversity and/or predominance of nonnative or
		Moderate (3)	•	disturbance tolerant native species
		Moderately low (2)	mod	Native spp are dominant component of the vegetation,
		Low (1)		although nonnative and/or disturbance tolerant native spp
		None (0)		can also be present, and species diversity moderate to
	6c, (	Coverage of invasive plants. Refer		moderately high, but generallyw/o presence of rare
		able 1 ORAM long form for list. Add		threatened or endangered spp
	or de	educt points for coverage	high	A predominance of native species, with nonnative spp
	!	Extensive >75% cover (-5)		and/or disturbance tolerant native spp absent or virtually
		Moderate 25-75% cover (-3)		absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp
		Sparse 5-25% cover (-1)	***************************************	the presence of rare, inteatened, or endangered app
		Nearly absent <5% cover (0)		at the Other Oscilla
		Absent (1)	Mudflat and Open V	Absent <0.1ha (0.247 acres)
		Microtopography.	0	Low 0.1 to <1ha (0.247 to 2.47 acres)
	Sco	e all present using 0 to 3 scale.	1	Moderate 1 to <4ha (2.47 to 9.88 acres)
		Vegetated hummucks/tussuck		High 4ha (9.88 acres) or more
		Coarse woody debris >15cm (		Tright this (0.00 dolds) of more
		Standing dead >25cm (10in) d	Microtopography C	Sover Scale
		Amphibian breeding pools	Microtopography C	Absent
			1	Present very small amounts or if more common
				of maroinal quality
			2	of marginal quality  Present in moderate amounts, but not of highest
•			2	Present in moderate amounts, but not of highest
•.			2 3	of marginal quality  Present in moderate amounts, but not of highest quality or in small amounts of highest quality  Present in moderate or greater amounts
•.				Present in moderate amounts, but not of highest quality or in small amounts of highest quality

Name: L. McKINNEY
Date: 8 1 06
Affiliation: ASC GREVE, HC.
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 859 - 746 - 1967
e-mail address: LMCKINNEY @ ASCGROUP. NET
Name of Wetland: Wetland 14 A - 14B
Vegetation Communit(ies): EMERGENT
HGM Class(es): DEPRESSION
Lat/Long or UTM Coordinate
County Frankling
Township
Section and Subsection
Hydrologic Unit Code 05060001 - 140
Site Visit 8 1 06
National Wetland Inventory Map  N-E - Cocombos
Ohio Wetland Inventory Map
Soil Survey Franklin
Delineation report/map
Wetland Size (acres, hectares) 0.42 AC

ame:			
ketch (include north arrow,	relationship with other surface	waters, vegetation zones, et	c.)
3	KK (LANS)		
NAZTALS	TY A		
INTERNATIO	ONAL GATEWAY		
		TAXIWM	
		E CTURED	
	ssion, Justification of Category	-	

: 	Question	Circle one	
•	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2	Go to Question 2
	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES Wetland is a Category 3 wetland. Go to Question 3	Go to Question 3
	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	NO Go to Question 4
	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES  Wetland is a Category 3 wetland  Go to Question 5	Go to Question 5
•	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea</i> , <i>Lythrum salicaria</i> , or <i>Phragmites australis</i> , or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland Go to Question 6	(NO) Go to Question 6
3	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	Go to Question 7
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is the saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland	Go to Question 8

<b>#</b>	Question	Circle one	
3a	"Old Growth Forest." Is the wetland a forested wetland and is the	YES	NO
forest overs	forest characterized by, but not limited to, the following characteristics: oversiory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence	Wetland is a Category 3 wetland.	Go to Question 8b
	of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	Go to Question 8b	
þ	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of	YES	(NO)
	deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	Wetland should be evaluated for possible Category 3 status.	Go to Question 9a
		Go to Question 9a	
a	Lake Erie coastal and tributary wetlands. Is the wetland located at	YES	NO)
	an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	Go to Question 9b	Go to Question 10
b	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is	YES	NO
partially h	prevent erosion and the loss of aquatic plants, i.e. the welland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible Category 3 status	Go to Question 90
		Go to Question 9d	
c	Are Lake Erie water levels the wetland's primary hydrological influence,	YES	NO
	i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	Go to Question 9d	Go to Question 90
d	Does the wetland have a predominance of native species within its	YES	NO
١v	vegetation communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9
		Go to Question 10	
Эе	Does the wetland have a predominance of non-native or disturbance	YES	NO
to	tolerant native plant species within its vegetation communities?	Wetland should be evaluated for possible Category 3 status	Go to Question 1
		Go to Question 10	
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in	YES	(NO)
Lucas, l characti	Lucas, Fulton, Henry, or Wood Counties and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within	Wetland is a Category 3 wetland.	Go to Question 1
	several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	Go to Question 11	
11	Relict Wet Prairies. Is the wetland a relict wet prairie community	YES	M
,	dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Countles), Sandusky Plains (Wyandot, Crawford, and Marion Countles), northwest Ohio, Erie County, and portions of western Ohio Countles (e.g. Darke, Mercer, Miami, Montgomery, etc.).	Wetland should be evaluated for possible Category 3 status	Complete Quantitative Rating
	Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).	Complete Quantitative Rating	

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subtotal this pa	ge		
300	1		
0 20.5	Metric 5. Special Wet	tlands.	
10 pts. subtotal	Check all that apply and score as indicated.		
to pta.	Bog (10)		
	Fen (10)		
	Old growth forest (10)		
	Mature forested wetland (5)	•	
•	Lake Erie coastal/tributary wetland-	unrestricted hydrology (1	(0)
	Lake Erie coastal/tributary wetland-		
	Lake Plain Sand Prairies (Oak Ope	nings) (10)	
	Relict Wet Praires (10)		
	Known occurrence state/federal thr	eatened or endangered s	species (10)
	Significant migratory songbird/water		
	Category 1 Wetland. See Question		
-1   19.5	Metric 6. Plant comn	nunities, inte	erspersion, microtopograph)
	6a. Wetland Vegetation Communities.	Vegetation Communit	tv Cover Scale
20 pts. sublotal	Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous are
•	O Aquatic bed	1	Present and either comprises small part of wetland's
•	/ Emergent	•	vegetation and is of moderate quality, or comprises a
	O Shrub	•	significant part but is of low quality
	O Forest	2	Present and either comprises significant part of wetland's
	O Mudflats		vegetation and is of moderate quality or comprises a small
	O Open water	,	part and is of high quality
	O Other	3	Present and comprises significant part, or more, of wetland
	6b. horizontal (plan view) Interspersion.	-	vegetation and is of high quality
	Select only one.		
	High (5)	Narrative Description	of Vegetation Quality
	Moderately high(4)	low	Low spp diversity and/or predominance of nonnative or
	Moderate (3)	•.	disturbance tolerant native species
	Moderately low (2)	mod	Native spp are dominant component of the vegetation,
	Low (1)		although nonnative and/or disturbance tolerant native sp
	None (0)		can also be present, and species diversity moderate to
	6c. Coverage of invasive plants. Refer		moderately high, but generallyw/o presence of rare
			threatened or endangered spp
	to Table 1 ORAM long form for list. Add		
	to Table 1 ORAM long form for list. Add	high	A predominance of native species, with nonnative spp
	or deduct points for coverage	high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually
	or deduct points for coverage Extensive >75% cover (-5)	high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always,
	or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)	high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually
	or deduct points for coverage Extensive >75% cover (-5)	high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always,
	or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)	high  Mudflat and Open Wa	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp ater Class Quality
	or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)	Security of the security of th	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp
	or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.	Mudflat and Open Wa	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)
	or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.	Mudflat and Open Wa	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)
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	or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  O Vegetated hummucks/tussucks  O Coarse woody debris >15cm (6in)  O Standing dead >25cm (10in) dbh	Mudflat and Open Wa  0  1  2  3  Microtopography Co	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  over Scale  Absent  Present very small amounts or if more common of marginal quality
	or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  O Vegetated hummucks/tussucks  O Coarse woody debris >15cm (6in)  O Standing dead >25cm (10in) dbh	Mudflat and Open Wa  0  1  2  3  Microtopography Co	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  over Scale  Absent  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest
	or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  O Vegetated hummucks/tussucks  O Coarse woody debris >15cm (6in)  O Standing dead >25cm (10in) dbh	Mudflat and Open Wa  0 1 2 3 Microtopography Co 0 1	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  over Scale  Absent  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest quality or in small amounts of highest quality
	or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  O Vegetated hummucks/tussucks  O Coarse woody debris >15cm (6in)  O Standing dead >25cm (10in) dbh	Mudflat and Open Wa  0 1 2 3 Microtopography Co 0 1	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  ater Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  over Scale  Absent  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest

Name: L. McKinney
Date: 8/1/06
Affiliation: ASC Group, INC.
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 859 - 746 - 1967
e-mail address: LMCKINNEY @ ASCGROUP. NET
Name of Wetland: WETLAND 15a - 15e
Vegetation Communit(ies): EMENCENT
HGM Class(es): DEPRESSION
Coation of Wetland include map, address, north arrow, landmarks, distances, roads, etc.
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Lat/Long or UTM Coordinate  USGS Quad Name
N.E. COLUMBOS
Township Franklin
Section and Subsection
Hydrologic Unit Code 05060001 - 140
Site Visit
National Wetland Inventory Map  N.E. Colombus
Ohio Wetland Inventory Map
Soil Survey Franklin
Delineation report/map
Wetland Size (acres, hectares)

Name:				
sketch (include north arro	ow, relationship with other surface	waters, vegetation zone	es, etc.)	
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		BUSINESSES		
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	CATTAILS SHALE			
i				
Final score: 18	7.5		Category	/

#	Question	Circle one	
1	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2	NO Go to Question 2
2	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES  Wetland is a Category 3 wetland.  Go to Question 3	Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland Go to Question 5	NO Go to Question 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by Phalaris arundinacea, Lythrum salicaria, or Phragmites australis, or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland Go to Question 6	Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	Go to Question 7
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is the saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland	NO) Go to Question 8

<b>#</b>	Question	Circle one	
Ba	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	YES  Wetland is a Category 3 wetland.  Go to Question 8b	NO Go to Question 8b
Bb	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7In) dbh?	YES  Wetland should be evaluated for possible Category 3 status.  Go to Question 9a	(NO) Go to Question 9a
a a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	YES Go to Question 9b	NO Go to Question 10
db .	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	YES  Wetland should be evaluated for possible Category 3 status	NO Go to Question 9c
		Go to Question 9d	<u> </u>
c	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	YES Go to Question 9d	NO Go to Question 90
d	Does the wetland have a predominance of native species within its vegetation communities, although non-native or disturbance tolerant native species can also be present?	YES Wetland is a Category 3 wetland Go to Question 10	NO Go to Question 96
)e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 10	NO Go to Question 10
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in Lucas, Fulton, Henry, or Wood Counties and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	YES Wetland is a Category 3 wetland. Go to Question 11	Go to Question 1
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio, Erie County, and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).	YES  Wetland should be evaluated for possible Category 3 status  Complete Quantitative	Complete Quantitative Rating

Site:	WETL	AND	15a-15e	Rater(s):	L. McKIN	iney	Date: 8 1 0	6
1	1	Met	tric 1. Wetland	Area (siz	ze).			
max 6 pts.	sublotal	Select	one size class and assign score >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20. 10 to <25 acres (4 to <10.1ha 3 to <10 acres (1.2 to <4ha) ( 0.3 to <3 acres (0.12 to <1.2h 0.1 to <0.3 acres (0.04 to <0. <0.1 acres (0.04ha) (0 pts)	2ha) (5 pts) a) (4 pts) 3 pts) a) (2pts)				
3	4	Met	ric 2. Upland b	uffers ar	nd surro	unding land ι	ıse.	
max 14 pts.	subtotal	2a. Cal	Iculate average buffer width. Se WIDE. Buffers average 50m MEDIUM. Buffers average 25 NARROW. Buffers average 1 VERY NARROW. Buffers average 1 VERY LOW. 2nd growth or o LOW. Old field (>10 years), s MODERATELY HIGH. Resid	lect only one and a (164ft) or more aro 5m to <50m (82 to 10m to <25m (32ft erage <10m (<32ft) Select one or doub Ider forest, prairie, chrubland, young se ential, fenced pasti	assign score. Do not the control of	not double check. neter (7) etland perimeter (4) wetland perimeter (1) perimeter (0) rage. e area, etc. (7) st. (5) ration tillage, new fallow field		
9.5	13.5	Met	ric 3. Hydrolog	IV.				
max 30 pts.	sublotal	3a. Sou	urces of Water. Score all that ap High pH groundwater (5) Other groundwater (3) Precipitation (1) Seasonal/Intermittent surface Perennial surface water (lake ximum water depth. Select only 20.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) (2	water (3) or stream) (5) one and assign sc	3d.	Part of wetland/upland Part of riparian or upla Duration inundation/saturati	) and other human use (1) d (e.g. forest), complex (1) and corridor (1) ion. Score one or dbl check inundated/saturated (4) aturated (3)	k.
		3e. Mod	≤ <0.4m (<15.7in) (1) diffications to natural hydrologic relations.  The state of the state	egime. Score one	or double check :	Seasonally saturated i and average.	in upper 30cm (12in) (1)	
		×	None or none apparent (12) Recovered (7) Recovering (3) Recent or no recovery (1)	Check all disturb.  ditch tile dike weir stormwater		point source (nonstorm filling/grading road bed/RR track dredging other	nwater)	
(0	19.5	Mat	inio A. Ilabitat A	14				
max 20 pts.	subtotal	4a. Sut	bstrate disturbance. Score one of None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) bitat development. Select only of	or double check an	d average.	velopment.		
			Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2)					
	19.5 subtolal this p		✓ Poor (1) bitat alteration. Score one or do None or none apparent (9) Recovered (6)  Recovering (3) Recent or no recovery (1)	Check all disturb  mowing grazing clearcutting selective cu woody deb toxic polluta	pances observed  j utting ris removal	shrub/sapling removal herbaceous/aquatic bi sedimentation dredging farming nutrient enrichment	ir .	

ORAM v. 5.	0 Field For	m Quantitative Rating			<u> </u>
Site:		Rat	er(s):		Date:
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s	ublotal this pag	ge [			
0	19.5	Metric 5. Special Wet	lands.		•
max 10 pts.	subtotal	Check all that apply and score as indicated.			
mon to pro-		Bog (10)			
		Fen (10)			
		Old growth forest (10)  Mature forested wetland (5)	•		
		Lake Erie coastal/tributary wetland-u	nrestricted hydrology (10	<b>)</b> )	
		Lake Erie coastal/tributary wetland-re	estricted hydrology (5)		
		Lake Plain Sand Prairies (Oak Open	lings) (10)		
		Relict Wet Praires (10)  Known occurrence state/federal thre	atened or endangered st	pecies (10)	
		Significant migratory songbird/water	fowl habitat or usage (10	))	
		Category 1 Wetland. See Question			i
	100	1	i i rehi — Bille	ion micr	atonography
-1	18.5	Metric 6. Plant comm	unities, inte	erspersion, inici	Otobodiabili.
max 20 pts.	subtotal		Vegetation Community	Absent or comprises <0.1ha (0.2	2471 acres) contiguous area
	•	Score all present using 0 to 3 scale.  O Aquatic bed	0 1	Present and either comprises sr	nall part of wetland's
•		/ Emergent		vegetation and is of moderate	quality, or comprises a
		O Shrub		significant part but is of low qu	ality
		O Forest	2	Present and either comprises single vegetation and is of moderate	gnificant part of wedarids
		O Mudflats		part and is of high quality	quality of domp-
		O Open water	3	Present and comprises significa	nt part, or more, of wetland's
		6b. horizontal (plan view) Interspersion.		vegetation and is of high quali	ty
		Select only one.		53/a made stars Overline	•
		High (5)	Narrative Description low	Low spp diversity and/or predor	ninance of nonnative or
		Moderately high(4)  Moderate (3)		disturbance tolerant native sp	ecles
		Moderately low (2)	mod	Native spp are dominant compo	nent of the vegetation,
		Low (1)		although nonnative and/or dis can also be present, and spec	turbance tolerant native spp
		None (0)		moderately high, but generally	w/o presence of rare
		6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add		threatened or endangered sp	0
		or deduct points for coverage	high	A predominance of native speci	les, with nonnative spp
	*	Extensive >75% cover (-5)		and/or disturbance tolerant na	ative spp absent or virtually
		Moderate 25-75% cover (-3)		absent, and high spp diversity	ned, or endangered spp
		Sparse 5-25% cover (-1) Nearly absent <5% cover (0)	Company of the compan	The presence of fare, unleater	The rest of the second color of the second col
		Absent (1)	Mudflat and Open Wa	ter Class Quality	
		6d. Microtopography.	0	Absent <0.1ha (0.247 acres)	
		Score all present using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47 Moderate 1 to <4ha (2.47 to 9.	
		O Vegetated hummucks/tussucks	2 3	High 4ha (9.88 acres) or more	DO AUTOS)
		O Coarse woody debris >15cm (6in) O Standing dead >25cm (10in) dbh		11191	·
		/ Amphibian breeding pools	Microtopography Cov	ver Scale	A STATE OF THE PARTY OF THE PAR
		Assessment .	0	Absent Present very small amounts or	if more common
			. 1	of marginal quality	R Mole collino
			2	Present in moderate amounts,	but not of highest
				quality or in small amounts o	f highest quality
			3	Present in moderate or greater	amounts
				and of highest quality	Analytical state and consider the species of the constraint of the

18-5 GRAND TOTAL(max 100 pts)



# **Background Information**

Name: L. McKINNEY
Date: 8/1/06
Affiliation: ASC Grove, Idc.
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 859 - 746 - 1967
e-mail address: LMCKINNEY @ ASCGNOUP. NET
Name of Wetland: WETLAND 16A-16B
Vegetation Communit(ies): EMERGENT
HGM Class(es): DEPLESSION
Cocation of Wetland include map, address, north arrow, landmarks, distances, roads, etc.
International Gateway  Walnut Gateway  The Ave  Lat/Long or UTM Coordinate
LISCS Ound Name
N.E. COLUMBUS
County Frankling Township
Section and Subsection
Hydrologic Unit Code 05060001-140
Site Visit 8/1/06
National Wetland Inventory Map  N.E. Columbus
Ohio Wetland Inventory Map
Soil Survey Franklin
Delineation report/map
Wetland Size (acres, hectares)

Name:	At - 41-		n zones eta l			
sketch (include north arrow, relationship wit	th other surface	e waters, vegetatio	n zones, etc.,		. •	i
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<b>N</b> .						
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				K		
WETLAND		P		16A		
		9		(0.	ocaac)	
		16B (0.05 AC.				
		1005 AC.	)			
		(0.				
Comments, Narrative Discussion, Justifica	•	y Changes	٠,			
VEGETATIVE (CATTAIL)	SWALE					
				•		
			•			
	• •					
			• •	•		
•						

<del>#</del>	Question	Circle one	
1	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2	NO Go to Question 2
2	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES  Wetland is a Category 3 wetland.  Go to Question 3	NO Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	NO Go to Question 4
1	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding wateriowl, neotropical songbird, or shorebird concentration areas?	YES  Wetland is a Category 3 wetland  Go to Question 5	Go to Question 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea</i> , <i>Lythrum salicaria</i> , or <i>Phragmites australis</i> , or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland Go to Question 6	Go to Question 6
5	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	Go to Question 7
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is the saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland	Go to Question 8

#	Question	Circle one	
 Ba	"Old Growth Forest." Is the welland a forested welland and is the	YES	NO)
	forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100	Wetland is a Category 3 wetland.	Go to Question 8b
	years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	Go to Question 8b	
3b	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of	YES	NO.
	deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	Wetland should be evaluated for possible Category 3 status.	Go to Question 9a
		Go to Question 9a	
a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this	YES	(M)
	elevation less than 575 feet on the 0505 map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	Go to Question 9b	Go to Question 10
lb	Does the wetland's hydrology result from measures designed to	YES	NO
	prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible Category 3 status	Go to Question 9c
		Go to Question 9d	
c	Are Lake Erie water levels the wetland's primary hydrological influence,	YES	NO
	i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	Go to Question 9d	Go to Question 9d
)d	Does the wetland have a predominance of native species within its	YES	NO
	vegetation communities, although non-native or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland	Go to Question 96
		Go to Question 10	
Эе	Does the wetland have a predominance of non-native or disturbance	YES	ИО
	tolerant native plant species within its vegetation communities?	Wetland should be evaluated for possible Category 3 status	Go to Question 10
		Go to Question 10	· ·
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in	YES	(NO)
	Lucas, Fulton, Henry, or Wood Countles and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within	Wetland is a Category 3 wetland.	Go to Question 1
	several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	Go to Question 11	
11	Relict Wet Prairies. Is the wetland a relict wet prairie community	YES	(NO)
	dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio, Erie County, and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).	Wetland should be evaluated for possible Category 3 status	Complete Quantitative Rating
	Counties (e.g. Darke, Mercer, Martin, Montgomery, 500).	Complete Quantitative Rating	

Site:	WETLA	NO 16A-16B Rater(	s): L. Mck	LINNEY	Date:	8/1/0
0	0	Metric 1. Wetland Area (	'siza\			
max 6 pts.	sublotal	Select one size class and assign score.	,3126 <i>)</i> .			
		>50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20.2ha) (5 pts) 10 to <25 acres (4 to <10.1ha) (4 pts) 3 to <10 acres (1.2 to <4ha) (3 pts) 0.3 to <3 acres (0.12 to <1.2ha) (2pts)				
		0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) <0.1 acres (0.04ha) (0 pts)				
3	3					
max 14 pts.	sublotal	Metric 2. Upland buffers	and surr	ounding land u	se.	
		2a. Calculate average buffer width. Select only one WIDE. Buffers average 50m (164ft) or moi MEDIUM. Buffers average 25m to <50m (I	re around wetland p 82 to <164ft) around (32ft to <82ft) arou	perimeter (7) d wetland perimeter (4) nd wetland perimeter (1)		
		VERY NARROW. Buffers average <10m ( 2b. Intensity of surrounding land use. Select one or VERY LOW. 2nd growth or older forest, pr LOW. Old field (>10 years), shrubland, you	double check and a	average. dlife area. etc. (7)		
		MODERATELY HIGH. Residential, fenced HIGH. Urban, industrial, open pasture, row	l pasture, park, cons	servation tillage, new fallow field	(3)	
9.5	12.5	Metric 3. Hydrology.	oropping, mining,	constructions (1)		
max 30 pts.	subtotal	3a. Sources of Water. Score all that apply.	;	3b. Connectivity. Score all that a	ipply.	
		High pH groundwater (5) Other groundwater (3) Precipitation (1)		100 year floodplain (1) Between stream/lake ar Part of wetland/upland (	nd other hum: e.g. forest), o	complex (1)
		Seasonal/Intermittent surface water (3) Perennial surface water (lake or stream) (5 3c. Maximum water depth, Select only one and assi	) gn score.	Part of riparian or upland 3d. Duration inundation/saturation Semi- to permanently in	n. Score one undated/satu	or dbl check
		0.4 to 0.7m (15.7 to 27.6in) (2)  0.4 m (<15.7in) (1)  3e. Modifications to natural hydrologic regime. Scor	e one or double ch	Regularly inundated/sat Seasonally inundated (2 Seasonally saturated in	2)	(12in) (1)
		None or none apparent (12) Check all d	isturbances observe	ed		
		Recovering (3)		point source (nonstormy filling/grading	vater)	
		Recent or no recovery (1) dike		road bed/RR track dredging		
		·	water input	other		
6	18.5	Matric 1 Habitat Altareti				
max 20 pts.	subtotal	Metric 4. Habitat Alterati 4a. Substrate disturbance. Score one or double che	ON and D	evelopment.		
		None or none apparent (4) Recovered (3)				
		Recovering (2)  Recent or no recovery (1)				
		4b. Habitat development. Select only one and assig	ın score.			
		Excellent (7) Very good (6)	-			
		Good (5) Moderately good (4)			- 1	
		Fair (3) Poor to fair (2)				
•		Poor (1) 4c. Habitat alteration. Score one or double check as	nd avarage		·	
			disturbances observ	ved		
		Recovered (6) mowing Recovering (3) grazing gr	ng ng	shrub/sapling removal herbaceous/aquatic bed	i removal	
	10 -		cutting tive cutting	sedimentation dredging		
	18.5	toxic	y debris removal pollutants	farming nutrient enrichment		
. 5	ubtotal this pa	ge				

e:		R	ater(s):	Date:
-				
	10 5			
	18.5	·		
SU	btotal this pag	ue.		
2	18.5	Metric 5. Special We	tlands.	•
		4		•
10 pls.	sublotal	Check all that apply and score as indicated.		
		Bog (10)		
		Fen (10) Old growth forest (10)		
		Mature forested wetland (5)	*	
		Lake Erie coastal/tributary wetland	H-unrestricted hydrology (10	)
		Lake Erie coastal/tributary wetland		,
		Lake Plain Sand Prairies (Oak Op		
		Relict Wet Prairies (10)	oranga) (10)	
		Known occurrence state/federal tr	prestaned or endangered st	necies (10)
		Significant migratory songbird/wat		
		Category 1 Wetland. See Question		
<del></del>		hammed		
- 1	17.5	Marketa & Dient com	munitine into	erspersion, microtopography
. )	17.3		numnes, me	appropriate the state of the st
20 pts.	sublotal	6a. Wetland Vegetation Communities.	Vegetation Community	Absent or comprises <0.1ha (0.2471 acres) contiguous area
		Score all present using 0 to 3 scale.	0	Present and either comprises small part of wetland's
		O Aquatic bed	1	vegetation and is of moderate quality, or comprises a
		/ Emergent		
		O Shrub		significant part but is of low quality
		○ Forest	2	Present and either comprises significant part of wetland's
		O Mudflats	•	vegetation and is of moderate quality or comprises a sma
		Open water		part and is of high quality
		O Other	3	Present and comprises significant part, or more, of wetland
		6b. horizontal (plan view) Interspersion.		vegetation and is of high quality
		Select only one.		
		High (5)	Narrative Description	of Vegetation Quality
		Moderately high(4)	low .	Low spp diversity and/or predominance of nonnative or
		1		disturbance tolerant native species
		Moderate (3)		the second of the vegetation
		Moderate (3)  Moderately low (2)	mod	Native spp are dominant component of the vegetation,
			mod	although nonnative and/or disturbance tolerant native sp
		Moderately low (2)	mod	although nonnative and/or disturbance tolerant native spi can also be present, and species diversity moderate to
		Moderately low (2) Low (1)	mod	although nonnative and/or disturbance tolerant native spi can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare
		Moderately low (2) Low (1) None (0)	mod	although nonnative and/or disturbance tolerant native spi can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp
		Moderately low (2) Low (1) None (0)  6c. Coverage of invasive plants. Refer	mod	although nonnative and/or disturbance tolerant native spi can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp
		Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add		although nonnative and/or disturbance tolerant native spican also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually
		Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage		although nonnative and/or disturbance tolerant native spican also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always,
	* # · ·	Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5)		although nonnative and/or disturbance tolerant native spr can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp
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		Moderately low (2)  Low (1)  None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.	high Mudflat and Open Wa 0	although nonnative and/or disturbance tolerant native spican also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  ter Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)
		Moderately low (2)  Low (1)  None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.	high  Mudflat and Open War  0 1 2	although nonnative and/or disturbance tolerant native spican also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  ter Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)
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		Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1) 6d. Microtopography. Score all present using 0 to 3 scale.  O Vegetated hummucks/tussucks Coarse woody debris >15cm (6ir	Mudflat and Open War  0 1 2 n) 3 Microtopography Cov 0 1	although nonnative and/or disturbance tolerant native spr can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  ter Class Quality Absent <0.1ha (0.247 acres) Low 0.1 to <1ha (0.247 to 2.47 acres) Moderate 1 to <4ha (2.47 to 9.88 acres) High 4ha (9.88 acres) or more  ver Scale Absent Present very small amounts or if more common of marginal quality Present in moderate amounts, but not of highest quality or in small amounts of highest quality
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# Background Information

Name: L. McKinney
Date: 8/1/06
Affiliation: ASC Grove, No.
Address: IVIU BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 859 - 746 - 1967
e-mail address: LMCKINNEY @ ASCGNOUP. NET
Name of Wetland: WETLAND 17A - 17i
Vegetation Communit(ies): EMERGENT
HGM Class(es): DEPRESSION
Location of Wetland include map, address, north arrow, landmarks, distances, roads, etc.  I-270  International Gateway  International Gat
Lat/Long or UTM Coordinate  USGS Quad Name
USGS Quad Name  N.E. COLUMBUS  County  FRANKLIN
Township Township
Section and Subsection
Hydrologic Unit Code 05060001 - 140
Site Visit 8 1 06
National Wetland Inventory Map  N.E. Columbus
Ohio Wetland Inventory Map
Soil Survey Franklin
Delineation report/map
Wetland Size (acres, hectares)

Name:			
sketch (include north arrow, relation	nship with other surface water	s, vegetation zones, etc.)	
	) (Tere		$Z \rightarrow$
- TAXIWAY	Mower Werma	FENCE	
Comments, Narrative Discussion,	Justification of Category Chan		
Final score: 20		Category	1

<u> </u>	Question	Circle one	
	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2	Go to Question 2
2.	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES  Wetland is a Category 3 wetland.  Go to Question 3	Go to Question 3
	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	(NO) Go to Question 4
	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES  Wetland is a Category 3 wetland  Go to Question 5	NO Go to Question 5
	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea</i> , <i>Lythrum salicaria</i> , or <i>Phragmites australis</i> , or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Wetland is a Category 1 wetland Go to Question 6	NO Go to Question 6
	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	(NO) Go to Question 7
•	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is the saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland	Go to Question 8

#	Question	Circle one	
8a	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	YES Wetland is a Category 3 wetland. Go to Question 8b	Go to Question 8b
8b	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	YES  Wetland should be evaluated for possible Category 3 status.  Go to Question 9a	NO Go to Question 9a
9a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?	YES Go to Question 9b	NO) Go to Question 10
9b	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	YES  Wetland should be evaluated for possible Category 3 status	NO Go to Question 9c
9c	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	YES Go to Question 9d Go to Question 9d	NO Go to Question 9d
9d	Does the wetland have a predominance of native species within its vegetation communities, although non-native or disturbance tolerant native species can also be present?	YES Wetland is a Category 3 wetland Go to Question 10	NO Go to Question 9e
9e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 10	NO Go to Question 10
10	Lake Plain Sand Prairies (Oak Openings) is the wetland located in Lucas, Fulton, Henry, or Wood Countles and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	YES  Wetland is a Category 3 wetland.  Go to Question 11	Go to Question 1
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio, Erie County, and portions of western Ohio Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).	YES  Wetland should be evaluated for possible Category 3 status  Complete Quantitative Rating	Complete Quantitative Rating

Site:	WETL	140	17a - 17i	Rater(s):	L. McKin	NEY	Date:	8/1/06
2	2	Ma	tric 1 Motlond	A				
max 6 pts.	subtotal	Select	tric 1. Wetland one size class and assign score.	Area (si:	ze).			
<b></b>	<del></del>		>50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20.2 10 to <25 acres (4 to <10.1ha) 3 to <10 acres (1.2 to <4ha) (3 0.3 to <3 acres (0.12 to <1.2ha 0.1 to <0.3 acres (0.04 to <0.1 <0.1 acres (0.04ha) (0 pts)	(4 pts) 3 pts) 3) (2pts)				
1	3	Met	ric 2. Upland b	uffers aı	าd surroเ	ınding land u	Se	
max 14 pts.	subtotal	Za. Cal	culate average buffer width. Sele WIDE. Buffers average 50m ( MEDIUM. Buffers average 25 NARROW. Buffers average 10 VERY NARROW. Buffers average 30 VERY LOW. 2nd growth or old LOW. Old field (>10 years), she MODERATELY HIGH. Reside	ect only one and a 164ft) or more are in to <50m (82 to om to <25m (32ft rage <10m (<32ft felect one or doubler forest, prairie, irubland, young sontial, fenced past	assign score. Do nound wetland perimical (164ft) around wetland wetland wetland wetland perimical (164ft) around wetland perimical (164ft) around wetland perimical (164ft) around wildlife second growth fores park, conservational vire, pa	ot double check. eter (7) land perimeter (4) etland perimeter (1) erimeter (0) ege. area, etc. (7) t. (5)		
8,5	11.5	Met	ric 3. Hydrolog		, 5.			
max 30 pts.	subtotal	3a. Soul	rces of Water. Score all that app High pH groundwater (5) Other groundwater (3) Precipitation (1)	vater (3) r stream) (5) ne and assign sc	3d. C	connectivity. Score all that a 100 year floodplain (1) Between stream/lake an Part of wetland/upland (1) Part of riparian or uplan turation inundation/saturatic Semi- to permanently in Regularly inundated/sat Seasonally inundated (2) Seasonally saturated in dayerage.	nd other hum (e.g. forest), d corridor (1) in. Score on hundated/sati turated (3)	complex (1) ) e or dbl check. urated (4)
			None or none apparent (12) Recovered (7) Recovering (3) Recent or no recovery (1)	Check all disturb ditch tile dike weir stormwater	ances observed	point source (nonstorm filling/grading road bed/RR track dredging other	water)	
5.5	17	Met	ric 4. Habitat A	Itoration	and Day	-1		
max 20 pts.	subtotal	4a. Sub	estrate disturbance. Score one or	double check an	diiu Dev	eiopment.		
		<u> </u>	None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) bitat development. Select only on Excellent (7) Very good (6) Good (5) Moderately good (4)					
		4c. Hat	Fair (3) Poor to fair (2) Poor (1) Poor end on the state of the state	ole check and av	araga			
	17 subtolal this pa		None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1)	Check all disturb mowing grazing clearcutting selective cu woody debi	ances observed utting ris removal	shrub/sapling removal herbaceous/aquatic bed sedimentation dredging farming nutrient enrichment	l removal	

ite:		Rat	er(s):	Date:
}	17		•	
L	1/			
su	blotal this paç	e	,	
0	17	Metric 5. Special Wet	lands.	
( 10 pts.	subtotal	Check all that apply and score as indicated.		
•		Bog (10)		
		Fen (10)		The state of the s
		Old growth forest (10)		
		Mature forested wetland (5)		n
		Lake Erie coastal/tributary wetland-u		"
		Lake Erle coastal/tributary wetland-ru Lake Plain Sand Prairies (Oak Open		
		Relict Wet Prairies (10)	ilings) (10)	
		Known occurrence state/federal thre	atened or endangered sp	pecies (10)
		Significant migratory songbird/water	fowl habitat or usage (10	0)
		Category 1 Wetland. See Question	1 Qualitative Rating (-10)	
		t hammed		
3	20	Metric 6 Plant comm	unities. inte	erspersion, microtopography
		6a. Wetland Vegetation Communities.	Vegetation Community	Cover Scale
k 20 pts.	sublotal	Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
		O Aquatic bed	1	Present and either comprises small part of wetland's
•		/ Emergent		vegetation and is of moderate quality, or comprises a
		O Shrub		significant part but is of low quality
		O Forest	2	Present and either comprises significant part of wetland's
		Ø Mudflats		vegetation and is of moderate quality or comprises a small
		Open water		part and is of high quality
		Other	3	Present and comprises significant part, or more, of wetland's
		6b. horizontal (plan view) Interspersion.		vegetation and is of high quality
		Select only one.		of Vegetation Cuality
		High (5)	Narrative Description of low	Low spp diversity and/or predominance of nonnative or
		Moderately high(4)		disturbance tolerant native species
		Moderate (3)  Moderately low (2)	mod	Native spp are dominant component of the vegetation,
		Moderately low (2)	mod	although nonnative and/or disturbance tolerant native spp
		i i i i i i i i i i i i i i i i i i i		allioudit initiative atterer enterior
		Low (1)		can also be present, and species diversity moderate to
		Low (1)  None (0)		can also be present, and species diversity moderate to
		Low (1) None (0)  6c. Coverage of invasive plants. Refer		can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp
		Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add	high	can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp
		Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage	high	can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually
		Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add	high	can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always,
		Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-3) Sparse 5-25% cover (-1)	high	can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually
		Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-3)	\$2-0-Market State Contracting Control State	can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp
		Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5) Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1)	Mudflat and Open Wa	can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp
		Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5) Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1) 6d. Microtopography.	Mudflat and Open Wa	can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  iter Class Quality  Absent <0.1ha (0.247 acres)
		Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5) Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1) 6d. Microtopography. Score all present using 0 to 3 scale.	Mudflat and Open Wa 0 1	can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Iter Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)
		Low (1)  None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks	Mudflat and Open Wa  0  1 2	can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  atter Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)
		Low (1)  None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  O Coarse woody debris >15cm (6in)	Mudflat and Open Wa 0 1	can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Iter Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)
		Low (1)  None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  O Vegetated hummucks/tussucks  O Coarse woody debris >15cm (6in)  O Standing dead >25cm (10in) dbh	Mudflat and Open Wa  0  1  2  3	can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  ster Class Quality  Absent <0.1ha (0.247 acres)  Low 0,1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more
		Low (1)  None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummucks/tussucks  O Coarse woody debris >15cm (6in)	Mudflat and Open War 0 1 2 3 Microtopography Cov	can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Iter Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more
		Low (1)  None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  O Vegetated hummucks/tussucks  O Coarse woody debris >15cm (6in)  O Standing dead >25cm (10in) dbh	Mudflat and Open Wa  0  1  2  3	can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  ster Class Quality  Absent <0.1ha (0.247 acres)  Low 0,1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more
		Low (1)  None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  O Vegetated hummucks/tussucks  O Coarse woody debris >15cm (6in)  O Standing dead >25cm (10in) dbh	Mudflat and Open War 0 1 2 3 Microtopography Cov	can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  Iter Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  Ver Scale  Absent  Present very small amounts or if more common of marginal quality
		Low (1)  None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  O Vegetated hummucks/tussucks  O Coarse woody debris >15cm (6in)  O Standing dead >25cm (10in) dbh	Mudflat and Open War 0 1 2 3 Microtopography Cov	can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  atter Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  ver Scale  Absent  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest
		Low (1)  None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  O Vegetated hummucks/tussucks  O Coarse woody debris >15cm (6in)  O Standing dead >25cm (10in) dbh	Mudflat and Open War 0 1 2 3 Microtopography Cov 0	can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  ster Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  ver Scale  Absent  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest quality or in small amounts of highest quality
		Low (1)  None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  O Vegetated hummucks/tussucks  O Coarse woody debris >15cm (6in)  O Standing dead >25cm (10in) dbh	Mudflat and Open War 0 1 2 3 Microtopography Cov 0	can also be present, and species diversity moderate to moderately high, but generallyw/o presence of rare threatened or endangered spp  A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp  atter Class Quality  Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)  Moderate 1 to <4ha (2.47 to 9.88 acres)  High 4ha (9.88 acres) or more  ver Scale  Absent  Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest

# **Background Information**

Name: L. McKINNEY
Date: 8/1/06
Affiliation: ASC GARRY, INC.
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 859 - 746 - 1967
e-mail address: LMCKINNEY @ ASCGROUP. NET
Name of Wetland: WETLAND 18
Vegetation Communit(ies): EMERGENT
HGM Class(es): DEPRESSION
cation of Wetland include map, address, north arrow, landmarks, distances, roads, etc.
International Gateway  The true:  The true is a walnut  The true i
Lat/Long or UTM Coordinate
USGS Quad Name  N.E. COLUMBUS  County  Franklin
Township Section and Subsection
Hydrologia   Init Code
Site Visit 2.1.1
8/1/06
National Wetland Inventory Map  N.E. Coronsol  Ohio Wetland Inventory Map
NA
Delineation report/map
Wetland Size (acres, hectares)

Name:		
sketch (include north arrow, relationship with other st	surface waters, vegetation zones, etc.)	
5 TH A		
J = X	NE.	
WET	TLAND	
	7	
Parking	OLD FIELD	
Pariking Lot		
		٠.
Comments, Narrative Discussion, Justification of Ca	ategory Changes	
VEGETATIVÉ (CATTAI	IL ) SWALE	
Final score: 10	Category	

<del>‡</del>	Question	Circle one	
1	Critical Habitat. Is the wetland in a township, section, or subsection of a United States Geological Survey 7.5 minute Quadrangle that has been designated by the U.S. Fish and Wildlife Service as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or threatened species which can be found in Ohio, the Indiana Bat has had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	YES  Wetland should be evaluated for possible Category 3 status  Go to Question 2	Go to Question 2
	Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES  Wetland is a Category 3 wetland.  Go to Question 3	Go to Question 3
3	Documented High Quality Wetland. Is the wetland on record in Natural Heritage Database as a high quality wetland?	YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant breeding or nonbreeding waterfowl, neotropical songbird, or shorebird concentration areas?	YES  Wetland is a Category 3 wetland  Go to Question 5	Go to Question 5
5	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically isolated and either 1) comprised of vegetation that is dominated (greater than eighty per cent areal cover) by <i>Phalaris arundinacea</i> , <i>Lythrum salicaria</i> , or <i>Phragmites australis</i> , or 2) an acidic pond created or excavated on mined lands that has little or no vegetation?	YES Welland is a Category 1 wetland Go to Question 6	NO Go to Question 6
6	Bogs. Is the wetland a peat-accumulating wetland that 1) has no significant inflows or outflows, 2) supports acidophilic mosses, particularly <i>Sphagnum</i> spp., 3) the acidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Go to Question 7	NO Go to Question 7
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that is the saturated during most of the year, primarily by a discharge of free flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 is <25%?	YES Wetland is a Category 3 wetland	(NO) Go to Question 8

	Question	Circle one	
		YES	(NO)
а	"Old Growth Forest." Is the wetland a forested wetland and is the forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a	Wetland is a Category 3 wetland.	Go to Question 8b
	projected maximum attainable age for a species); little or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	Go to Question 8b	
ь	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of deciduous trees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	YES  Wetland should be evaluated for possible Category 3 status.	Go to Question 9a
		Go to Question 9a	
a	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this	YES	NO Overtion 10
	elevation, or along a tributary to Lake Erle that is accessible to fish?	Go to Question 9b	Go to Question 10
b	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	YES  Wetland should be evaluated for possible Category 3 status	NO Go to Question 9c
		Go to Question 9d	
)c	Are Lake Erie water levels the wetland's primary hydrological influence, i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.	YES Go to Question 9d	NO Go to Question 9d
3d	Does the wetland have a predominance of native species within its vegetation communities, although non-native or disturbance tolerant native species can also be present?	YES Wetland is a Category 3 wetland Go to Question 10	NO Go to Question 96
			NO
9e	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES  Wetland should be evaluated for possible Category 3 status	Go to Question 10
		Go to Question 10	
10	Lake Plain Sand Prairies (Oak Openings) is the wetland located in Lucas, Fulton, Henry, or Wood Countles and can the wetland be characterized by the following description: the wetland has a sandy substrate with interspersed organic marter, a water table often within	YES Wetland is a Category 3 wetland.	Go to Question 1
	several inches of the surface, and often with a dominance of the gramineous vegetation listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.	Go to Question 11	
11	Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohlo, Erie County, and portions of western Ohlo Counties (e.g. Darke, Mercer, Miami, Montgomery, etc.).	YES  Wetland should be evaluated for possible Category 3 status	NO) Complete Quantitative Rating

grazing

clearcutting

selective cutting

toxic pollutants

woody debris removal

herbaceous/aquatic bed removal

sedimentation

nutrient enrichment

dredging

farming

subtotal this page

Recovering (3)

Recent or no recovery (1)

	riela Po	rm Quantitative Rating	/ · \	Date:
Site:		Rat	er(s):	Date.
ı		7		
	14	1		
	ıblotal this pa			
51	iototai triis pa	T .		•
0	14	Metric 5. Special Wet	lands.	
max 10 pts.	subtotal	Check all that apply and score as indicated.		
		Bog (10)		
		Fen (10)		
		Old growth forest (10)  Mature forested wetland (5)	•	
		Lake Erie coastal/tributary wetland-u	nrestricted hydrology (1	10)
		Lake Erie coastal/tributary wetland-re	estricted hydrology (5)	
		Lake Plain Sand Prairies (Oak Open	ings) (10)	
		Reflict Wet Praires (10)	-td andangarad	charies (10)
		Known occurrence state/federal thre Significant migratory songbird/water	fowl habitat or usage (	10)
		Category 1 Wetland, See Question	1 Qualitative Rating (-1	0)
1		many Description		
-4	10	Metric 6. Plant comm	unities, int	erspersion, microtopography.
max 20 pts.	subtotal	6a. Wetland Vegetation Communities.	Vegetation Communi	ity Cover Scale
,		Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous area  Present and either comprises small part of wetland's
		O Aquatic bed	1	vegetation and is of moderate quality, or comprises a
		/ Emergent		significant part but is of low quality
		O Shrub	2	Present and either comprises significant part of wetland's
		O Mudflats	•	vegetation and is of moderate quality or comprises a small
		O Open water		part and is of high quality
		0 Other	3	Present and comprises significant part, or more, of wetland's vegetation and is of high quality
		6b. horizontal (plan view) Interspersion.		Vegeration and is of riight quality
		Select only one. High (5)	Narrative Description	n of Vegetation Quality
		Moderately high(4)	low	Low spp diversity and/or predominance of nonnative or
		Moderate (3)		disturbance tolerant native species
		Moderately low (2)	mod	Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp
		Low (1)		can also be present, and species diversity moderate to
		None (0)  6c. Coverage of invasive plants. Refer		moderately high, but generallyw/o presence of rare
		to Table 1 ORAM long form for list. Add		threatened or endangered spp
		or deduct points for coverage	high	A predominance of native species, with nonnative spp
		Extensive >75% cover (-5)		and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always,
		Moderate 25-75% cover (-3)		the presence of rare, threatened, or endangered spp
		Sparse 5-25% cover (-1)		the presence of fare, an eater so,
		Nearly absent <5% cover (0) Absent (1)	Mudflat and Open V	Vater Class Quality
		6d. Microtopography.	0	Absent <0.1ha (0.247 acres)
		Score all present using 0 to 3 scale.	1	Low 0.1 to <1ha (0.247 to 2.47 acres)
		<ul> <li>Vegetated hummucks/tussucks</li> </ul>	2	Moderate 1 to <4ha (2.47 to 9.88 acres)
		Coarse woody debris >15cm (6in)	3	High 4ha (9.88 acres) or more
		O Standing dead >25cm (10in) dbh	Microtopography C	over Scale
		Amphibian breeding pools	0	Absent
			1	Present very small amounts or if more common
				of marginal quality
		•	2	Present in moderate amounts, but not of highest quality or in small amounts of highest quality
			3	Present in moderate or greater amounts
				and of highest quality

10 GRAND TOTAL(max 100 pts)

APPENDIX E: HHEI AND QHEI DATA FORMS

Qualitative Habitat Ev	aluation Index Field Sheet QHEI Score: 51.5
Date: 8/28/06 Location: NEAR INTERS	710
Scorers Full Name: K. (/AUL Affiliation:	ASC Grove Lie
1] SUBSTRATE (Check ONLY Two SubstrateTYPE BOXES:	Estimate % present
TYPE POOL RIFFLE POOL RIFF	LE SUBSTRATE ORIGIN SUBSTRATE OLIALITY
LIL-BLDR/SLBS[10] II-GRAVEL[7] 15	Check ONE (OR 2 & AVERAGE)  Check ONE (OR 2 & AVERAGE)
□□-BOULDER [9] □□-SAND [6]	. U -LIMESTONE [1] SILT: U-SILT HEAVY [-2]
□□-COBBLE [8] □□-BEDROCK[5] □	SILT MODERATE [-1] Substrate
□ □-HARDPAN [4] DETRITUS[3] 25	-SILT NORMAL [0]
□□-MUCK [2] □□-ARTIFICIAL[0]  DATI-SILT [2] □□-ARTIFICIAL[0]  NOTE: Ignore Sludge Originating	-HARDPAN [0] -SILT FREE [1] 4
From Point Sources	-SANDSTONE [0] EMBEDDED -EXTENSIVE [-2]
NUMBER OF SUBSTRATE TYPES:  4 or More [2]	LI-RIP/RAP [U] NESS: MODERATE [-1]
/11:-L O - 1:- O	☐ -LACUSTRINE [0] ☐ -NORMAL [0]
(righ Quality Only, Score 5 or >)  COMMENTS  COMMENTS	□-SHALE [-1] □-NONE [1]
2] INSTREAM COVER (Give each cover type a score of 0 to	CI-COAL FINES [-2]
(Structure) TYPE: Score All That Occur	
UNDERCUT BANKS [1] POOLS> 70 cm [2]	check 2 and AVERAGE)
OVERHANGING VEGETATION [1]  ORDON	OXBOWS, BACKWATERS [1]
O SHALLOWS (IN SLOW WATER) [1] O BOULDERS [1]	
ROOTMATS [1] COMMENTS:	
3] CHANNEL MORPHOLOGY: (Check ONLY One PER Cate	GRODY OR Check 2 and AVERAGE )
SINUUSITY DEVELOPMENT CHANNELIZATION	STABILITY MODIFICATIONS/OTHER Channel
□ - HIGH [4] □ - EXCELLENT [7] □ - NONE [6]	□ - HIGH [3] □ - SNAGGING □ - IMPOUND.
□-MODERATE [3] □-GOOD [5] RECOVERED [4]	MODERATE [2] - RELOCATION - ISLANDS
X-LOW [2] X FAIR [3] D- RECOVERING [3]	□ - LOW [1] □ - CANOPY REMOVAL □ - LEVEED Max 20
□- NONE [1] □- POOR [1] □- RECENT OR NO	☐ - DREDGING ☐ - BANK SHAPING
COMMENTS: RECOVERY [1]	ONE SIDE CHANNEL MODIFICATIONS
4]. RIPARIAN ZONE AND BANK EROSION check ONE box per RIPARIAN WIDTH FLOOD PLAIN OLIA	bank or check 2 and AVERAGE per bank) River Right Looking Downstream
L R (Per Bank) L R (Most Predominant Per Bank	LITY (PAST 100 Meter RIPARIAN)  BANK EROSION  Riparian  Riparian
WIDE > 50m [4] FOREST, SWAMP [3]	
MODERATE 10-50m [3] TISHRUB OR OLD FIELD [2]	DECONSERVATION TILLAGE [1] DENONE/LITTLE [3] 7.5
- NARROW 5-10 m [2] - RESIDENTIAL, PARK, NEW FIELD	[1] D-OPEN PASTURE, ROWCROP [0] D-HEAVY/SEVERE[1] Max 10
III - VERY NARROW <5 m[1] II II - FENCED PASTURE [1]	D -MINING/CONSTRUCTION [0]
□□- NONE [0] 1.5 1.5	
COMMENTS:	
7.1000/ (CL) 107	
5.]POOL/GLIDE AND RIFFLE/RUN QUALITY	Pool/
MAX. DEPTH MORPHOLOGY	CURRENT VELOCITY [POOLS & RIFFLES!] Current
(Check 1 ONLY!) (Check 1 or 2 & AVERAGE)  > 1m [6]	(Check All That Apply)
	□-EDDIES[1] □-TORRENTIAL[-1] 7
☐ - 0.7-1m [4] ☐ -POOL WIDTH = RIFFLE WIDTH [1] ☐ - 0.4-0.7m [2] ☐ -POOL WIDTH < RIFFLE W. [0]	G-FAST[1] G-INTERSTITIAL[-1] May 12
□ - 0.2- 0.4m [1]	□-MODERATE [1] □-INTERMITTENT[-2]
- < 0.2m [POOL=0] COMMENTS: NO RIFFLES	SLOW [1] -VERY FAST[1]
CHECK ONE OF	R CHECK 2 AND AVERAGE Riffle/Run
RIFFLE DEPTH RUN DEPTH RIFFL	E/RUN SUBSTRATE RIFFLE/RUN EMBEDDEDNESS
☐ - Best Areas >10 cm [2] ☐ - MAX > 50 [2] ☐ STABL	E (e.g.,Cobble, Boulder) [2]
□ - Best Areas 5-10 cm[1] □ - MAX < 50[1] □-MOD.	STABLE (e.g., Large Gravel) [1]
☐ - Best Areas < 5.cm	ABLE (Fine Gravel, Sand) [0]
[RIFFLE=0]	□ - EXTENSIVE [-1]
COMMENTS:	NO RIFFLE [Metric=0]
CL CRADIENT (TILL)	May 10
6] GRADIENT (ft/mi):	57 %POOL: 100 %GLIDE:
** Bast areas must be large enough to support a population of riffle-obligate species	%RIFFLE: %RUN: —
EPA 4520	06/24/01
	110/24/11

Major Suspected Sources of Impacts (Check All That Apply): None Constrain Construction Construct	ONEMINEN POAD  STOPE	Yes/No  Is Stream Ephemeral (no pools, totally dry or only damp spots)?  Is there water upstream?  How Far:  How Far:  Is Dry Channel Mostly Natural?
Is Sampling Reach Representative of the Stream (Y/N)  If Not, Exp <u>lain:</u>   First	Stream Drawing:  Stream Drawing.  Stream Drawing.  Stream Drawing.  I makeung   Maring   Maring   Maring   Streep   Stre	Instructions for scoring the alternate cover metric: Each cover type should receive a score of between 0 and 3, Where: 0 - Cover type absent; 1 - Cover type present in very small amounts or if more common of marginal quality; 2 - Cover type present in moderate amounts, but not of highest quality or in small amounts of highest quality; 3 - Cover type of highest quality in moderate or greater amounts. Examples of highest quality include very large boulders in deep or fast water, large diameter logs that are stable, well developed rootwads in deep/fast water, or deep, well-defined, functional pools.

### **Primary Headwater Habitat Evaluation Form** HHEI Score (sum of metrics 1, 2, 3): SITE NAME/LOCATION STREAM SITE NUMBER_____ RIVER BASIN ____ _____ DRAINAGE AREA (mi²) LENGTH OF STREAM REACH (ft) _____ LAT. ____ LONG. ____ RIVER CODE RIVER MILE DATE 8/28/06 SCORER R. PAUL COMMENTS CLASS IL NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instructions STREAM CHANNEL O NONE / NATURAL CHANNEL RECOVERED PRECOVERING RECENTION NO RECOVERY MODIFICATIONS: SUBSTRATE (Estimate percent of every type of substrate present, Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. HHEI TYPE Metric TYPE BLDR SLABS [16 pts] ষ্ব∪ **Points** SILT [3 pt] BOULDER (>256 mm) [16 pts] LEAF PACK/WOODY DEBRIS[3 pts] BEDROCK [16 pt] Substrate FINE DETRITUS [3 pts] Max = 40COBBLE (65-256 mm) [12 pts] CLAY or HARDPAN [0 pt] $\square$ GRAVEL (2-64 mm) [9 pts] MUCK [0 pts] SAND (<2 mm) [6 pts] ARTIFICIAL [3 pts] Total of Percentages of (B) A + B Bldr Slabs, Boulder, Cobble, Bedrock 3 SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: TOTAL NUMBER OF SUBSTRATE TYPES: Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of Pool Depth evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): Max = 30> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts] > 22.5 - 30 cm [30 pts] < 5 cm [5 pts] > 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts] COMMENTS MAXIMUM POOL DEPTH (centimeters): BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box): Bankfull >4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3'.3" -4'.8") [15 pts] Width >3.0 m -4.0 m (> 9'7" - 13') [25 pts] ≤ 1.0 m (≤:3' 3") [5 pts] Max=30 > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS **AVERAGE BANKFULL WIDTH (meters)** This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY र्द्रNOTE: River Left (L) and Right (R) as looking downstream दे RIPARIAN WIDTH **FLOODPLAIN QUALITY**

(Per Bank) (Most Predominant per Bank) Wide >10m Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old Moderate 5-10m Urban or Industrial 又又 Open Pasture, Row Narrow <5m Residential, Park, New Field Сгор None 1 Fenced Pasture Mining or Construction COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Moist Channel, isolated pools, no flow (Intermittent) Subsurface flow with isolated pools (Interstitial) Dry channel, no water (Ephemeral) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 0.5 STREAM GRADIENT ESTIMATE Flat (0.5 #/100 ft) Flat to Moderate Moderate (2 ft/100 ft) ☐ Moderate to Severe Severe (10 ft/100 ft)

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):
QHEI PERFORMED? - XYes ONO QHEI Score(If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)
☐ WWH Name: Distance from Evaluated Stream
☐ CWH Name:         Distance from Evaluated Stream           ☐ EWH Name:         Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION  USGS Quadrangle Name:
USGS Quadrangle Name: NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Township / City: MISCELLANEOUS
Base Flow Conditions? (Y/N): Y Date of last precipitation: 8/27/06 Quantity: 0.33
Photograph Information: NA
Elevated Turbidity? (Y/N): N Canopy (% open): 25%
Were samples collected for water chemistry? (Y/N): (Note lab sample no. or id. and attach results) Lab Number:
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm)
Is the sampling reach representative of the stream (Y/N) If not, please explain:
Additional comments/description of pollution impacts:
Performed? (Y/N): (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual)
Fish Observed? (Y/N) Voucher? (Y/N) Salamanders Observed? (Y/N) Voucher? (Y/N) Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N) Comments Regarding Biology:
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must_be completed): /
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's local tion
STEEP SLOPE
de     de
FLOW PLOW
STEEP SLOPE
STEEP SLOPE
BUSINESS PARKING LOT

# ChieFPA Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1

SITE NAME/LOCATION _ 3+ 1/2 m 3		re (sum of metrics 1, 2, 3):	_
		DRAINAGE AREA (mi²)	12
LENGTH OF STREAM REACH (ft)	RIVER BASIN	DRAINAGE AREA (mi²)	7.0
DATE 8/1 /06 SCORER 1 MC	CINIA LONG.	RIVER CODERIVER MILE	
NOTE: Complete All Items On This Form			
	. No.0, 10   I lead Evaluation mailua	ioi Olio's Privan Streams" for instruct	lions
STREAM CHANNEL JONNE NATIONS	URAL CHANNEL (UIRESOVERED) (UIF	REGOVERNICE LITREGENT OR NO RECOVE	RY
AMODIFICATIONS.			
SUBSTRATE (Estimate percent of ever	y type of substrate present. Check ONLY	han predominant substrate TVDE haves	_
(Max of 32). Add total number of significa	nt substrate types found (Max of 8). Final me	etric score is sum of boxes A & B.	HHE
TYPE  BLDR SLABS [16 pts]	RCENT TYPE SILT 13 Pt]		Metric Point:
☐ ☐ BOULDER (>256 mm) [16 pts]	□ □ LEAF PACKWOO	DDY DEBRIS [3 pts]	
	O FINE DETRITUS	LO PLOT THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS O	Substrat Max = 4
☐ ☐ GRAVEL (2-64 mm) [9 pts]	O D CLAY-OF HARDE	AN (U PL)	1
□ □ SAND (<2 mm) [6 pts].	🗆 🗘 ARTIFICIAL [3 pi		7
Total of Percentages of	n - (A) 7	(B)	A+B
Bidr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SUBST		MBER OF SUBSTRATE TYPES:	ATD
evaluation. Avoid plunge pools from road	eximum pool depth within the 61 meter (20 culverts or storm water pipes) (Check Of	# M A A A A A A A A A A A A A A A A A A	ool De
→ ≥ 30 centimeters [20 pts]	→ 5 cm - 10 cm	[15 pts]	Max = 3
> 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts]	5 cm [5 pts] NO WATER OR	MOIST CHANNEL [0 pts]	5
COMMENTS		M POOL DEPTH (centimeters):	
3. BANK FULL WIDTH (Measured as the > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7' - 13') [25 pts]	average of 3-4 measurements) (C	heck ONLY one box): (> 3-3-4 8.)[15 pts]	Bankfu Width
> 3.0 m - 4.0 m (> 9'7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9'7" - 4'8') [20 pts]	☐ ≤1.0 m (s 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VIII TO TO THE VIEW TO THE RESERVE TO THE RESERVE TO THE RESERVE THE TOTAL PROPERTY OF THE PARTY	Max=3
		1/5	16
COMMENTS	AVERAG	E BANKFULL WIDTH (meters)	12
	White the second second second		
RIPARIAN ZONE AND FLOODE	This information must also be complex also be	pleted and Right (R) as looking downstream☆	
RIPARIAN WIDTH L R (Per Bank)	FLOODPLAIN QUALITY		
☐ ☐ Wide >10m	L R (Most Predominant per Bank)  Mature Forest, Wetland	L R Conservation Tillage	
☐ ☐ Moderate 5-10m	Immature Forest, Shrub or Old Field	Urban or Industrial	
V Narrow <5m	Residential, Park, New Field	Open Pasture, Row	<b>.</b>
None	Fenced Pasture	Crop	
COMMENTS	- Tellog Pasture	Mining or Construction	
FLOW REGIME (At Time of Eva	luation) (Check ONLY one box):	* -	100
Stream Flowing	Moist C	Channel, isolated pools, no flow (Intermittent)	
Subsurface flow with isolated poor COMMENTS	ols (Interstitial) Dry cha	annel, no water (Ephemeral)	
SINUOSITY (Number of honds	per 61 m (200 ft) of channel) (Check ONL)	(anahar)	
None	1.0	one box): 3.0	
∪ 0.5	1.5 🗍 2.5	□ >3	
STREAM GRADIENT ESTIMATE Flat (0.5 fv100 ft)  Flat to Moderate	<b></b>	195	
Flat (0.5 fv100 ft)	☐ Moderate (2 (V100 ft) ☐ Mode	erate to Severe Severe (10 ft/100	0 ft)

OHEI BEREORMED? - TVes TNo OHE	El Score (If Yes, Attach Completed QHEI Form)
	(ii 165, Austri Completed Cries Porm)
DOWNSTREAM DESIGNATED USE(S)  Name:	Distance from Evaluated Stream
CWH Name:	Distance from Evaluated Stream
	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLU	JDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
SGS Quadrangle Name:	NRCS Soil Map Page: NRCS Soil Map Stream Order
	Township / City:
MISCELLANEOUS	
Claus Candilliana? (VIN):	cipitation:Quantity:
hotograph Information:	cipitation: Quantity:
. 1	pen):
in the second control of the second control	(Note lab sample no. or id. and attach results) Lab Number:
	•
	gen (mg/l) pH (S.U.) Conductivity (µmhos/cm)
s the sampling reach representative of the stream (Y/N	) If not, please explain:
ID number. Include appr Fish Observed? (Y/N) Voucher? (Y/N)	rvations. Voucher collections optional. NOTE: all voucher samples must be labeled with the stropriate field data sheets from the Primary Headwater Habitat Assessment Manual)  Salamanders Observed? (Y/N) Voucher? (Y/N)  Y/N) Aquatic Macroinvertebrates Observed? (Y/N) Voucher? (Y/N)
DRAWING AND NARRATIVE DI	ESCRIPTION OF STREAM REACH (This must be completed):
Include important landmarks and other featur	res of interest for site evaluation and a narrative description of the stream's location
·	
FLOW -	
· · ·	·
	In dustrial
	IN alva!

# ChieFPA Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3):

m	
ı	1
ı	24
П	1

SITE NAME/LOCATION	tream 3		Li Ocore (sum or r	neuros 1, 2, 3) .	
	ITE NUMBER	RIVER BASIN_		ORAINAGE AREA (mi²)	112
LENGTH OF STREAM REACH	(ft)LAT_	LONG.	RIVER CODE	DIVED MILE	
DATE TO 11 1 US SCOR	ER / //CKINNA	BOMMENTS	Class I		
NOTE: Complete All Items	s On This Form - Refe	r to "Field Evaluation	Manual for Ohio's PH	WH Streams" for Inst	ructions
STREAM CHANNEL	753 9035	CONTRACTOR STATE AND ADDRESS OF THE PARTY OF		TRECENT OR NO REC	
MODIFICATIONS:				CARECENT OR NO REC	OVERY
	• · · · · · · · · · · · · · · · · · · ·			A PER CONTRACTOR	
<ol> <li>SUBSTRATE (Estimate (Max of 32). Add total n</li> </ol>	e percent of every type o	f substrate present. Che	ck ONLY two predominan	t substrate TYPE boxes	1
ITPE	umber of significant subst		). Final metric score is sur		HHE! Metric
BLDR SLABS [16 p	its]	SILT [3	pt] ** ** ** ** ** ** ** ** ** ** ** **	PERCENT	Point
□□ BEDROCK [16 pt]			ACKWOODY DEBRIS [3 ETRITUS [3 pts]	pts]	Substrat
☐ ☐ COBBLE (65-256 m	m) [12 pts]		r HARDPAN [0 pt]		Max = 40
GRAVEL (2-64 mm SAND (<2 mm) [6 m		DD MUCK	[0 pts]		114
	Soldier I was said	□ Ø ARTIFI	CIAL [3 pts]		
Total of Percenta Bldr Slabs, Boulder, Co	bble, Bedrock	(A) 3		(B) /	A+B
SCORE OF TWO MOST PREDO	MINATE SUBSTRATE T	YPES:	TAL NUMBER OF SUBS	TRATE TYPES:	
2. Maximum Pool Depth	(Measure the maximum	pool depth within the 61	meter (200 &) evaluation		D. 17
evaluation. Avoid plung > 30 centimeters [20 pts	e pools from road ciliverts	or storm water pipes) (	Check ONLY one box):	reach at the time or	Pool Dep
> 22.5 - 30 cm [30 pts]			n - 10 cm [15 pts] n [5 pts]		97
> 10 - 22.5 cm [25 pts]			ATER OR MOIST CHANN	EL [0 pts]	5
COMMENTS			MAXIMUM POOL DEPTH	(centimeters): 5	
BANK FULL WIDTH (N	leasured as the average		(Check ONLY one		5.16
> 4.0 meters (> 13') [30 pt > 3.0 m - 4.0 m (> 9' 7" -	s	☑ > 1.0 n	n - 1.5 m (> 3' 3" - 4' 8") [15	pts1	Bankful Width
> 1.5 m - 3.0 m (> 9' 7" -	4' 8") [20 pts]	L) \$1.01	n (≤ 3' 3") [5 pts]		Max=30
COMMENTS				1.5	15
Charles Handle Control of Control			AVERAGE BANKFULL W	IDTH (meters)	1-4
	Thi	is information <u>must</u> also	be completed		
RIPARIAN ZON RIPARIAN WI[	E AND FLOODPLAIN QU	ALITY ANOTE: Rive	r Left (L) and Right (R) as	looking downstream☆	
L R (Per Bank)	L R	(Most Predominant pe	er Bank) L R		
□ □ Wide >10m	00	Mature Forest, Wetlar	nd O	Conservation Tillage	
☐ ☐ Moderate 5-1	0m 🗆 🗇	Immature Forest, Shri Field	np or Old 2	Urban or Industrial	
Narrow <5m	00	Residential, Park, Nev	w Field	Open Pasture, Row	
None	00	Fenced Pasture	00	Crop Mining or Construction	
COMMENTS_					-
FLOW REGIME	(At Time of Evaluation)	_			
Stream Flowing  Subsurface flow v	with isolated pools (Intersti	tial)	Moist Channel, isolated p Dry channel, no water (E	ools, no flow (Intermittent)	)
COMMENTS	1 /		Cry Granner, NO Water (E	priemeral)	
SINUOSITY (Nu	mber of bends per 61 m (2	200 ft) of channel) (Chec	k ONLY one hox)		
None 0.5	<b>1.0</b>	<u> </u>	2.0	3.0	
•	LJ 1.5	i i	2.5	J >3	
STREAM GRADIENT E		doroto a success	<b>7</b>		
- Trial		derate (2 ft/100 ft)	Moderate to Severe	Severe (10 ft/1	00 ft)

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):	
QHEI PERFORMED? - Yes No QHEI Score (If Yes, Atta	ch Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
WWH Name:	Distance from Evaluated Stream
CWH Name:	Distance from Evaluated Stream
☐ EWH Name:	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED	
USGS Quadrangle Name: NRCS Soil Map F	Page: NRCS Soil Map Stream Order
County: Township / City:	
MISCELLANEOUS	
Base Flow Conditions? (Y/N): Date of last precipitation:	Quantity:
Photograph Information:	
Elevated Turbidity? (Y/N): Canopy (% open):	
Were samples collected for water chemistry? (Y/N): (Note lab sample no. or id. a	and attach results) Lab Number:
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.)	Conductivity (µmhos/cm)
Is the sampling reach representative of the stream (Y/N) If not, please explain:	
Additional comments/description of pollution impacts:	
Performed? (Y/N): (If Yes, Record all observations. Voucher collections optiona ID number. Include appropriate field data sheets from the Pr Fish Observed? (Y/N) Voucher? (Y/N) Salamanders Observed? (Y/N) Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Aquatic Macroinvertebra Comments Regarding Biology:	imary Headwater Habitat Assessment Manual)  Voucher? (Y/N) tes Observed? (Y/N)
DRAWING AND NARRATIVE DESCRIPTION OF STREAM Include important landmarks and other features of interest for site evaluation a	11
FLOW -	,
In de	Moral

# **US Army Corps of Engineers Consultation**

CRAA Letter to USACOE, March 28, 2008



March 28, 2008

Board of Directors Kathleen H. Ransier Chair Dwight E. Smith Vice Chair

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Ms. Kimberly Courts-Brown
Department of the Army
Huntington District, Corps of Engineers
502 Eighth Street
Huntington, West Virginia 25701-2070

RE: January 7, 2008 jurisdictional verification letter regarding the wetland and stream delineation at Port Columbus International Airport

Dear Ms. Courts-Brown:

There was an incorrect reference in the Port Columbus International Airport Administrative Draft Environmental Impact Statement (for the proposed replacement of Runway 10R/28L, development of a new passenger terminal and other associated airport projects) regarding the amount of acreage in the detailed study area. The amount should have been 1,750 rather than 750 acres, as shown in Section 5.10.2, on page 5.10-1 of Volume 1. As a result of this incorrect reference, your January 7, 2008 jurisdictional verification letter also incorrectly referenced 750 acres. The draft EIS has been corrected and I would respectfully request a revision of your January 7 letter.

If you have any questions, please contact me at 614-239-5014.

Sincerely,

Mark Kelby Airport Planner

Mark Kelly

Cc:

David Wall, CRAA

Rob Adams, Landrum & Brown

Katy Jones, FAA