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.

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DEPARTMENT OF THE ARMY HUNTINGTON DISTRICT, CORPS OF ENGINEERS 802 EIGHTH STREET HUNTINGTON, WEST VIRGINA 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 worlands 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 528.

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 rributary to the Sciolo 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."

-5-

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

Sincerely,

Rebecca A. Rutherford Chief, North Regulatory Section

Dury Muller

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

Date: 1/7/08 See Section below NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL File Number: 200300270-INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission) PERMIT (Standard Permit or Letter of permi JRISDICTIONAL DETERMINATION JURISDICTIONAL DETERMINATION Applicant: Columbus Regional Airport Authority

identifies your rights and options regarding an ad

ation may be found at http://usace.army.mil/inet/functions/cw/cecwo/reg or

- A: INITIAL PROFFERED PERMIT: You may accept or object to the permit Corps regulations at 33 CFR Part 331
- signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to 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 appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- 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 OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the 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 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 permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your 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
- signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your
- 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 APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you
- 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 request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL of OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to mnation that is already in the adm nation to clarify the location of info POINT OF CONTACT FOR QUESTIONS OR INFORMATION

If you only have questions regarding the appeal process you may 550 Main Street, PO BOX 1159 Cincinnati, Ohio 45201-1159 Appeal Review Officer CELRD-CM-0 513-684-7261 Rebecca Rutherford, Ch, North Regulatory Section 304-399-5210 If you have questions regarding this decision and/or the appeal Mark Taylor, Chief, South Regulatory Section, 304 399-5710 process you may contact: Ginger Mullins, Chief, Regulatory Branch, 304-399-5389 Address: U.S. Army Corps of Engineers Huntington, WV 25701 Regulatory Branch 502 8th Street

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations. felephone 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:
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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.

TABLE OF CONTENTS

EXECUTIVE SUMMARY	i
TABLE OF CONTENTS	iii
LIST OF FIGURES	iv
LIST OF TABLES	iv
INTRODUCTION	1
METHODS	
Wetlands	
Streams	3
Biotic Communities	
Threatened and Endangered Species Methods	4
RESULTS	
Literature Review	
Wetlands	
Streams	
Open Water Habitats	
Other Biotic Communities	
Forests	
Old-Field	
Wasteground	
Wildlife	25
ENDANGERED SPECIES	. 27
SUMMARY	29
LITERATURE CITED	31
FIGURES	33
APPENDIX A: AGENCY CORRESPONDENCE	A - 1
APPENDIX B: PHOTOGRAPHS	B - 1
APPENDIX C: WETLAND DETERMINATION FORMS	
APPENDIX D: ORAM V.5.0 FORMS	
APPENDIX E: HHEI AND QHEI DATA FORMS	E - 1

LIST OF FIGURES

Figure 1.	ODOT map showing project vicinity for the Port Columbus International Airport, Columbus, Franklin County, Ohio
Figure 2.	Portions of the 1982 photorevised New Albany, 1982 photorevised Northeast Columbus, 1994 Reynoldsburg, and 1994 photorevised Southeast Columbus quadrangles (USGS 7.5' topographic maps) showing the Port Columbus International Airport project area.
Figure 3.	Soil Survey map (USDA, SCS 1980), showing the Port Columbus International Airport project area
Figure 4.	National Wetland Inventory maps (USFWS 1995a, 1995b, 1995c, 1995d) showing the Port Columbus International Airport project area
Figure 5.	Overview map of the project area, showing wetlands, other possible "Waters of the U.S.," and areas of the 100-year floodplain
Figure 6.	Map of the Port Columbus International Airport project area, showing wetlands, streams, ponds, areas of 100-year floodplain, potential Indiana bat roost trees, photograph locations, and directions. (5 Sheets)
LIST OF T	TABLES
Table 1.	Soil and Land-Use Types Present Within the Project Area (USDA, NRCS 1980)5
Table 2.	Wetlands Summary Table for the Port Columbus International Airport Project Area.
Table 3.	Summary of Wetlands 11A through 11Z
Table 4.	Summary of Wetlands 15A through 15E
Table 5.	Summary of Wetlands 17A through 17I
Table 6.	Waterway Summary for the Port Columbus International Airport Project Area 17
Table 7.	Vegetation Summary Table for the Port Columbus International Airport Project Area
Table 8.	Bird Summary Table for the Port Columbus International Airport Project Area 25
Table 9.	Mammals and Amphibians Summary Table for the Port Columbus International Airport Project Area
Table 10.	Federally Endangered and Candidate Species Whose Ranges Include Franklin County (USFWS 2006)

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/	Description	Location	Classification	Major Plant Species	Species	Hydrologic	ORAM v.	ORAM	Area Within
Area No.			al. 1979)	Scientific Name	Common Name	Status	5.0 Score	Category	rroject Area (acres)
	Forested wetland	Second-growth forest south of 17 th Ave, west of Stelzer Road	PF01C	Acer saccharinun 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 17 th Ave, west of Stelzer Road	PFO1C	Acer saccharinun 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 saccharinun Quercus palustris Acer negundo Glyceria striata	Silver maple Pin oak Box elder Fowl mannagrass	Isolated	39	Modified 2	0.06
4	Forested wetland	Second-growth forest south of 17 th 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 17 th Ave, west of Stelzer Road	PFO1C	Acer saccharinum Viburnum dentatum Scirpus 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	PFO1C	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	PFO1C	Quercus palustris Ulmus americana	Pin oak American elm	Isolated	49	2	0.39
6	Forested wetland	Second-growth forest south of 17 th 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	PFO1C	Acer saccharinum Quercus palustris Rhamnus frangula Viburnum dentatum	Silver maple Pin oak European buckthorn Arrowwood	Isolated	48	7	0.21
11A-11Z	Emergent wetlands in old field	South of 17 th Avenue, west of Stelzer Road	PEM1E	Fraxinus pennsylvanica Juncus effusus Lysimachia nummularia	Green ash (seedlings) Soft rush Moneywort	Isolated	27.5	1	6.19

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

Wetland/	Description	Location	Classification	Major Plant Species	t Species	Hydrologic	ORAM v.	ORAM	Area Within
Area No.	mondiness of	TOTATO	al. 1979)	Scientific Name	Common Name	Status	5.0 Score	Category	roject Area (acres)
12A-12D	Emergent wetlands	Mowed field north of 17 th Avenue, west of Stelzer Road	PEM1E	Juncus effusus Scirpus cyperinus	Soft rush Woolgrass	Isolated	15.5	. 1	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	1	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	1	0.60
18.	Ditch	South of 5 th Avenue	PEMC	Typha angustifolia	Narrow-leaved cattail	Connected	10	. 1	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	11H	3.06		110	0.003		11 V	0.008
11B	0.08	11 I	0.33		11P	0.01		11W	0.02
11C	0.23	11J	0.10		11Q	0.003	7	11X	0.05
11D	0.479	11K	0.05		11R	0.009		11 Y	0.007
11E	0.01	11L	0.002		11S	0.01		11 Z	0.02
11 F	1.19	11M	0.46		11 T	0.003			
11 G	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 (Ac	reag	e)				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
17I	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	Х	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			Х
Ageratina altissima	White snakeroot				Х
Agrimonia gryposepala	Common agrimony		X		•
Agrostis gigantea	Redtop	X		X	
Ailanthus altissima	Tree of Heaven	X		X	
Alisima subcordatum	Southern water plantain		X		
Alliaria petiolata	Garlic mustard				X
Allium canadense	Wild onion				X
Allium vineale	Field-garlic	X			
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	X		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		Х		
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		Х		
Carex hirsutella	Hirsute sedge			Х	
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		ز
Carex vulpinoidea	Foxtail sedge		Х		
Carya cordiformis	Bitternut hickory				X
Carya ovata	Shagbark hickory				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		Х	
• Cirsium discolor	Field thistle	. X			
Cirsium vulgare	Bull thistle	X			
Conium maculatum	Poison hemlock	X			
Convolvulus arvensis	Field bindweed	X			
Conyza canadensis	Common horseweed	Х			
Cornus amomum	Knob-styled dogwood		Х	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	Х			
Daucus carota	Wild carrot	X			
Desmodium canescens	Hoary tick-trefoil	,		X	
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		Х	
Elaeagnus umbellata	Autumn olive	X		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	<u> </u>		
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				X
Gaura biennis	Biennial gaura	X		Х	
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		
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	X			
Lathyrus latifolius	Everlasting pea	X		Х	
Latuca canadensis	Tall lettuce	X			
Lepedium campestre	Fieldcress	X			
Leersia virginica	White grass		Х		-
Ligustrum vulgare	Common privet				X_/
Linaria vulgaris	Butter and eggs	X			
Liriodendron tulipifera	Tulip poplar				X
Lobelia cardinalis	Cardinal flower		X		
Lobelia inflata	Indian tobacco				X
Lolium perenne	Ryegrass	X			
Lonicera japonica	Japanese honeysuckle	X			X
Lonicera maackii	Bush honeysuckle	X			X
Lotus corniculatus	Birdsfoot trefoil	X		X	
Lycopus americanus	Water horehound		Х		····
Lysimachia ciliata	Fringed loosestrife				X
Lysimachia nummularia	Moneywort		X		
Malus coronaria	Wild crabapple			X	
Malus pumila	Common apple	X			
Marrubium vulgare	Common horehound	х		1	
Matricaria matricarioides	Pineapple weed	X	, , ,		
Melilotus alba	White sweet clover	X			
Melilotus officinalis	Yellow sweet clover	х			· · · · · · · · · · · · · · · · · · ·
Mentha spicata	Spearmint		Х		
Mimulus ringens	Monkeyflower		Х		
Morus alba	White mulberry	X		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	1	
Phleum pratense	Timothy	X			
Phlox paniculata	Summer phlox				X
Phragmites australis	Common reed		X		
Phyla lanceolata	Frog fruit		X		
Phytolacca americana	Pokeweed	Х		-	
Pinus strobes	Eastern white pine	Х			
Plantago lanceolata	English plantain	Х			
Plantago rugelii	American plantain	X			
Platanus occidentalis	Sycamore				X
Poa annua	Speargrass	X			
Poa pratensis	Kentucky bluegrass	Х			
Poa trivialis	Rough bluegrass	X			
Podophyllum peltatum	Mayapple				X
Polygala sanguinea	Field milkwort			X	
Polygonum aviculare	Common knotweed	X			
Polygonum caespitosum	Knotweed	X			
Polygonum convolvulus	Black bindweed	X			
Polygonum hydropiperoides	False water pepper		X		
Polygonum pensylvanicum	Pennsylvania smartweed		X		
Polygonum punctatum	Dotted smartweed		X		
Polygonum virgianum	Jumpseed				X
Populus alba	White poplar	X			
Populus deltoides	Cottonwood		X		X
Potentilla simplex	Common cinquefoil	X			
Prunella vulgaris	Self-heal	X			
Prunus serotina	Black cherry	X			
Quercus alba	White oak	X			•
Quercus bicolor	Swamp white oak	1	Х		
Quercus palustris	Pin oak		X		

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		X	
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		-	X	
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		Х		
Scirpus cyperinus	Woolgrass	-	X		
Scrophularia marilandica	Maryland figwort				X
Scutellaria lateriflora	Mad-dog skullcap		X		
Setaria faberi	Giant foxtail grass	X			
Setaria glauca	Yellow foxtail grass	X			
Solanum carolinense	Horse nettle	X			
Solanum dulcamara	Bittersweet nightshade	X			
Solidago caesia	Zigzag goldenrod				X
Solidago canadensis	Common goldenrod	X		X	
Sonchus asper	Prickly sow thistle	Х			
Sonchus oleraceus	Common sow thistle	X			
Sorghum halepense	Johnson grass	X			
Spiranthes vernalis	Spring ladies tresses			X	
Taraxacum officinale	Dandelion	X			
Thalaspi arvense	Field pennycress	Х			
Tilia americana	Basswood				X
Toxicodendron radicans	· Poison ivy		X		X
Trifolium pratensis	Red clover	Х			
Trifolium campestre	Pinnate hop clover	Х			
Trifolium hybridum	Alsike's clover	X		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	X			
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			
Mammals				
Marmota monax	Groundhog			
Odocoileus virginianus	White-tailed deer			
Procyon lotor	Raccoon			
Sciurus niger Fox squirrel				
Sylvilagus floridanus Eastern cottontail				
Tamias striatus	Eastern chipmunk			
Amphibians				
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	Common Name	Federal Status	Ohio Status	Habitat	Potential Habitat Present in the Project Area
Epioblasma torulosa rangiana	Northern riffleshell mussel	Щ	田	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	В	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)	E	E	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	E	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	C	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).

E = endangered, C = candidate species. The Scioto madtom is considered extinct.

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.

LITERATURE CITED

- Andreas, Barbara K., John J. Mack, and James S. McCormac. 2004. Floristic Quality Assessment Index (FQAI) for Vascular Plants and Mosses for the State of Ohio. Ohio EPA, Division of Surface Water, Wetland Ecology Group, Columbus, Ohio.
- Cowardin, Lewis M., Virginia Carter, Francis C. Golet, and Edward T. LaRoe. 1979.

 Classification of Wetlands and Deepwater Habitats of the United States. U.S. Fish and Wildlife Service, FWS/OBS-79/31, December 1979.
- Environmental Laboratory. 1987. Corps of Engineers Wetland Delineation Manual. Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- FEMA. 1995. Flood insurance rate map, Franklin County, Ohio and incorporated areas. Panels 170, 260, and 276. Federal Emergency Management Agency, National Floodplain Insurance Program. August 2, 1995.
- Gleason, H. A. and A. Cronquist. 1991. Manual of Vascular Plants of Northeastern United States and Adjacent Canada. The New York Botanical Garden, Bronx, New York.
- Liptak, Michael A. and M. Queen. 2003. Wetland Delineation Report, Port Columbus International Airport, Columbus, Franklin County, Ohio. March 25, 2003.
- Liptak, Michael A. 2003. Addendum to the Wetland Delineation Report, Port Columbus International Airport, Columbus, Franklin County, Ohio. June 30, 2003.
- Mack, John. J. 2000. State of Ohio Environmental Protection Agency, Division of Surface Water, Wetland Ecology Unit. ORAM v. 5.0 Quantitative Score Calibration. Last Revised: August 15, 2000.
- ODNR. 2006. Letter from the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, August 10, 2006.
- OEPA. 1989. The Qualitative Habitat Evaluation Index (QHEI): Rationale, Methods, and Application. Ohio EPA Environmental Assessment Section. Columbus, Ohio.
- OEPA. 2001. Ohio Rapid Assessment Method for Wetlands v. 5.0. User's Manual and Scoring Forms. Ohio Environmental Protection Agency, Division of Surface Water, 401/Wetland Ecology Unit. Ohio EPA Technical Report WET/2001-1.
- OEPA. 2002. Field Evaluation Manual for Ohio's Primary Headwater Habitat Streams. Ohio EPA Division of Surface Water. Columbus, Ohio. September 2002.
- USDA, NRCS. 1998. County Hydric Soils Lists, Franklin County, Ohio. U.S. Department of Agriculture, Natural Resources Conservation Service.

- USDA, NRCS. 1999. Ohio 14-digit Subwatersheds web page. http://www.oh.nrcs.usda.gov/technical/14-digit/11narr0506.html
- USDA, NRCS. 2004. Supplemental Hydric Soils List, Franklin County, Ohio. U.S. Department of Agriculture, Natural Resources Conservation Service.
- USDA, SCS. 1980. Soil Survey of Franklin County, Ohio. U.S. Department of Agriculture, Soil Conservation Service.
- USFWS. 1995a. National Wetlands Inventory Map, New Albany, Ohio. U.S. Fish and Wildlife Service.
- USFWS. 1995b. National Wetlands Inventory Map, Northeast Columbus, Ohio. U.S. Fish and Wildlife Service.
- USFWS. 1995c. National Wetlands Inventory Map, Reynoldsburg, Ohio. U.S. Fish and Wildlife Service.
- USFWS. 1995d. National Wetlands Inventory Map, Southeast Columbus, Ohio. U.S. Fish and Wildlife Service.
- USFWS. 2006a. Federally Listed Species by Ohio Counties, Reynoldsburg, Ohio. U.S. Fish and Wildlife Service. May 1, 2006.
- USFWS. 2006b. Letter from the US Fish and Wildlife Service, September 18, 2006.

FIGURES

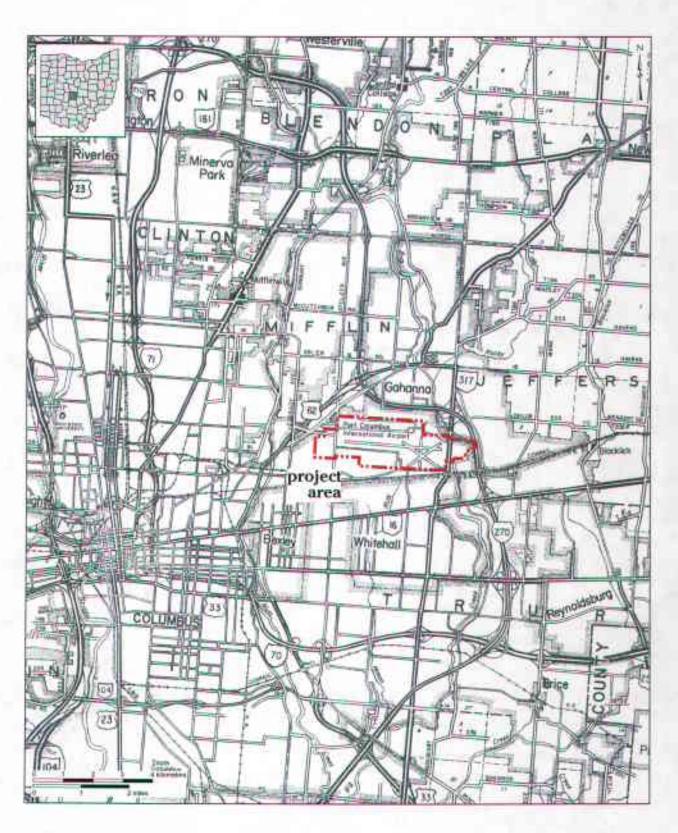


Figure 1. ODOT map showing project vicinity for the Port Columbus International Airport, Columbus, Franklin County, Ohio.

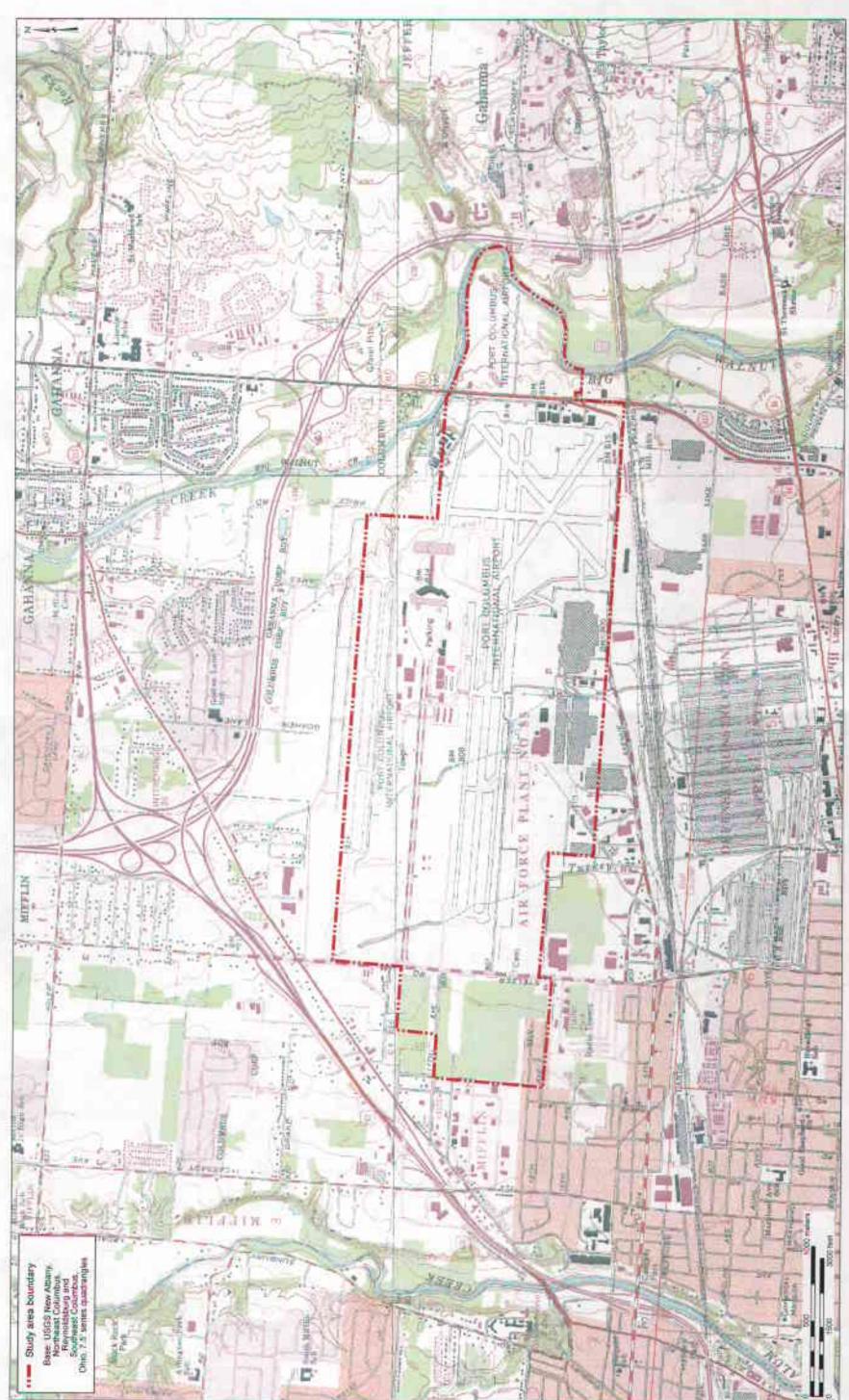


Figure 2. Portions of the 1982 photorevised New Albany, 1982 photorevised Northeast Columbus, 1994 Reynoldsburg, and 1994 photorevised Southeast Columbus quadrangles (USGS 7.5' topographic maps) showing the Port Columbus International Airport project area.

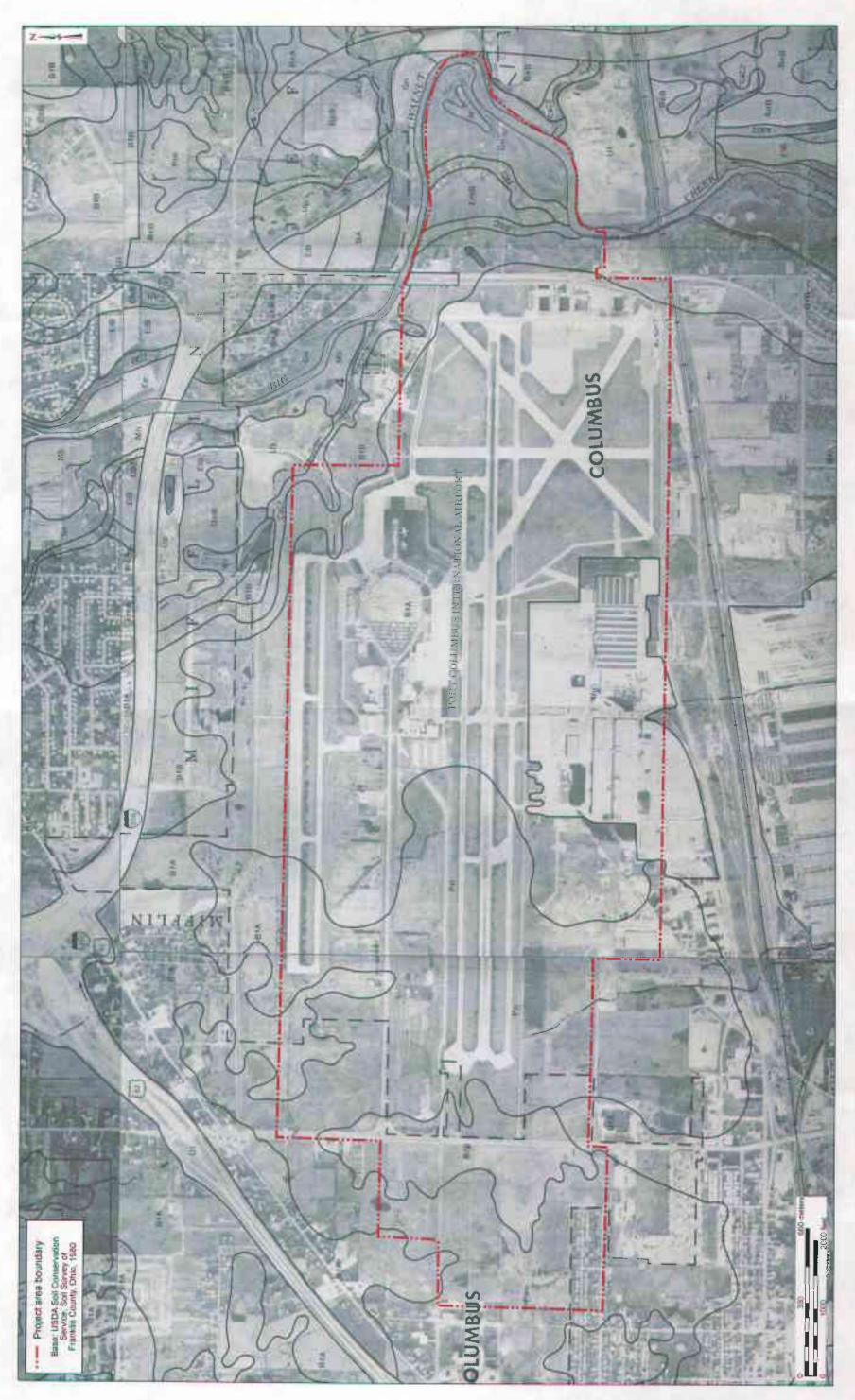


Figure 3. Soil Survey map (USDA, SCS 1980), showing the Port Columbus International Airport project area.

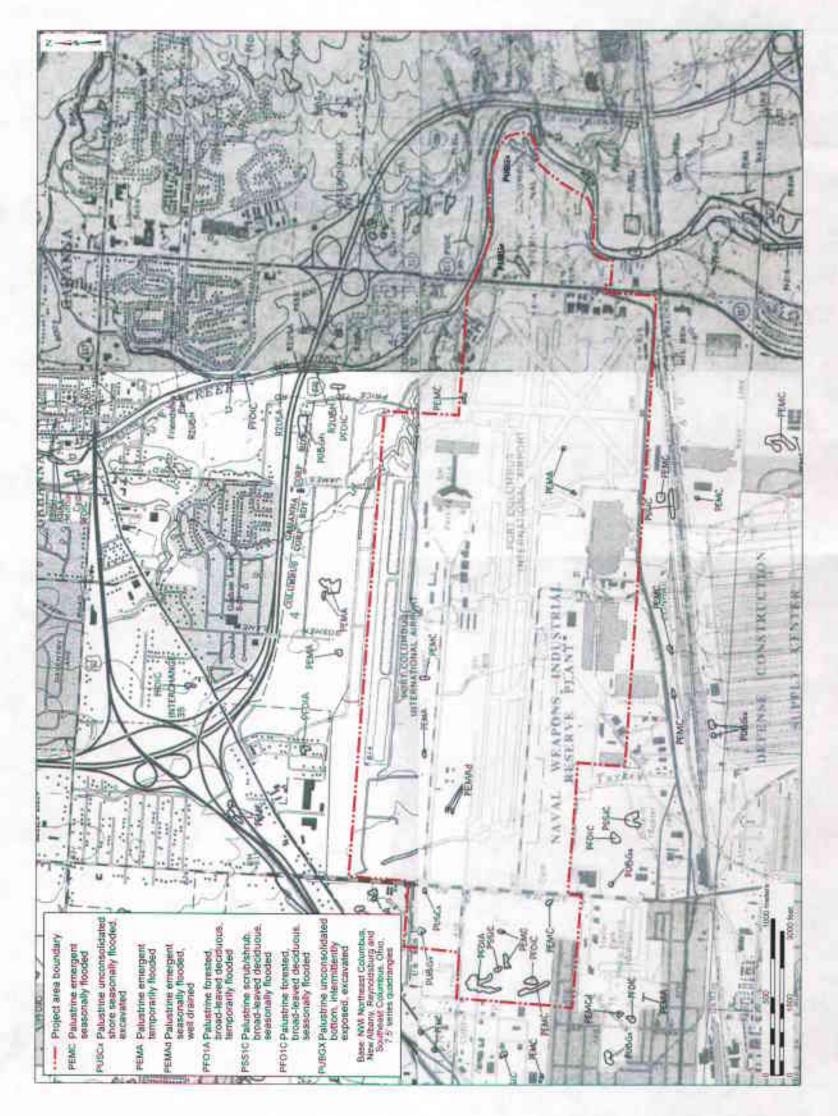


Figure 4. National Wetland Inventory maps (USFWS 1995a, 1995c, 1995d) showing the Port Columbus International Airport project area.

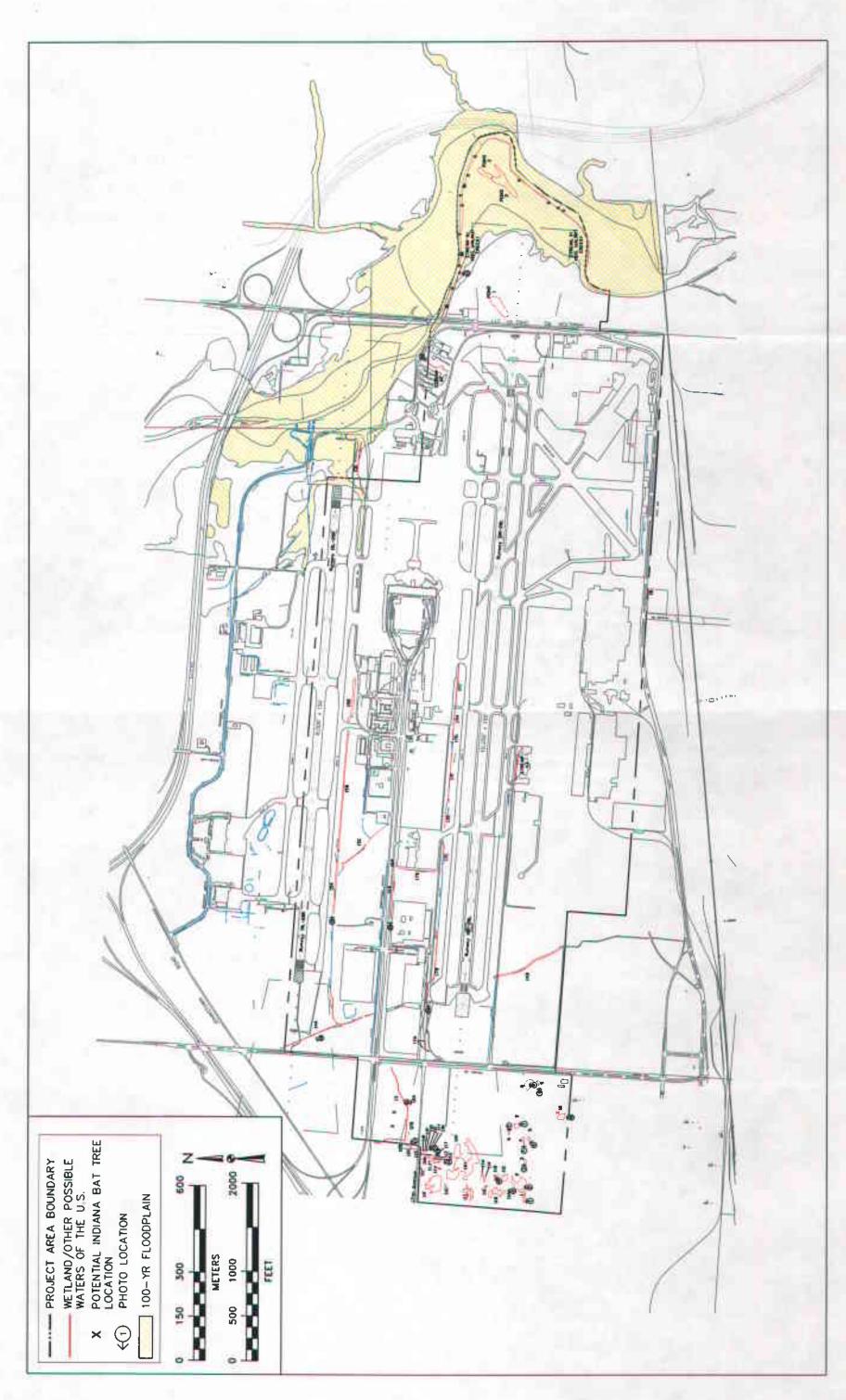


Figure 5. Overview map of the project area, showing wetlands, other possible "Waters of the U.S.," and areas of the 100-year floodplain.

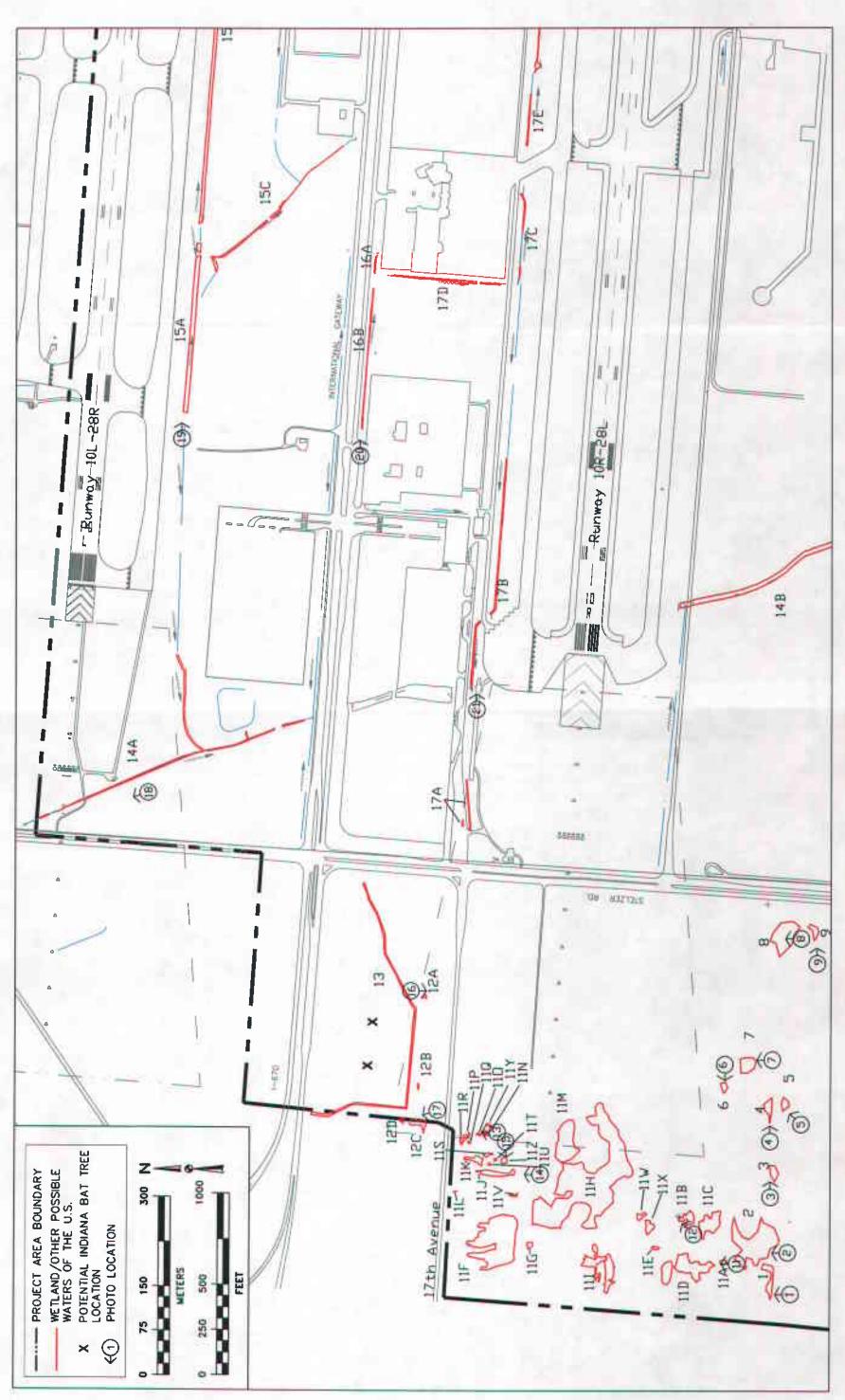


Figure 6. Map of the Port Columbus International Airport project area, showing wetlands, streams, ponds, areas of 100-year floodplain, potential Indiana bat roost trees, photograph locations, and directions. (5 Sheets)

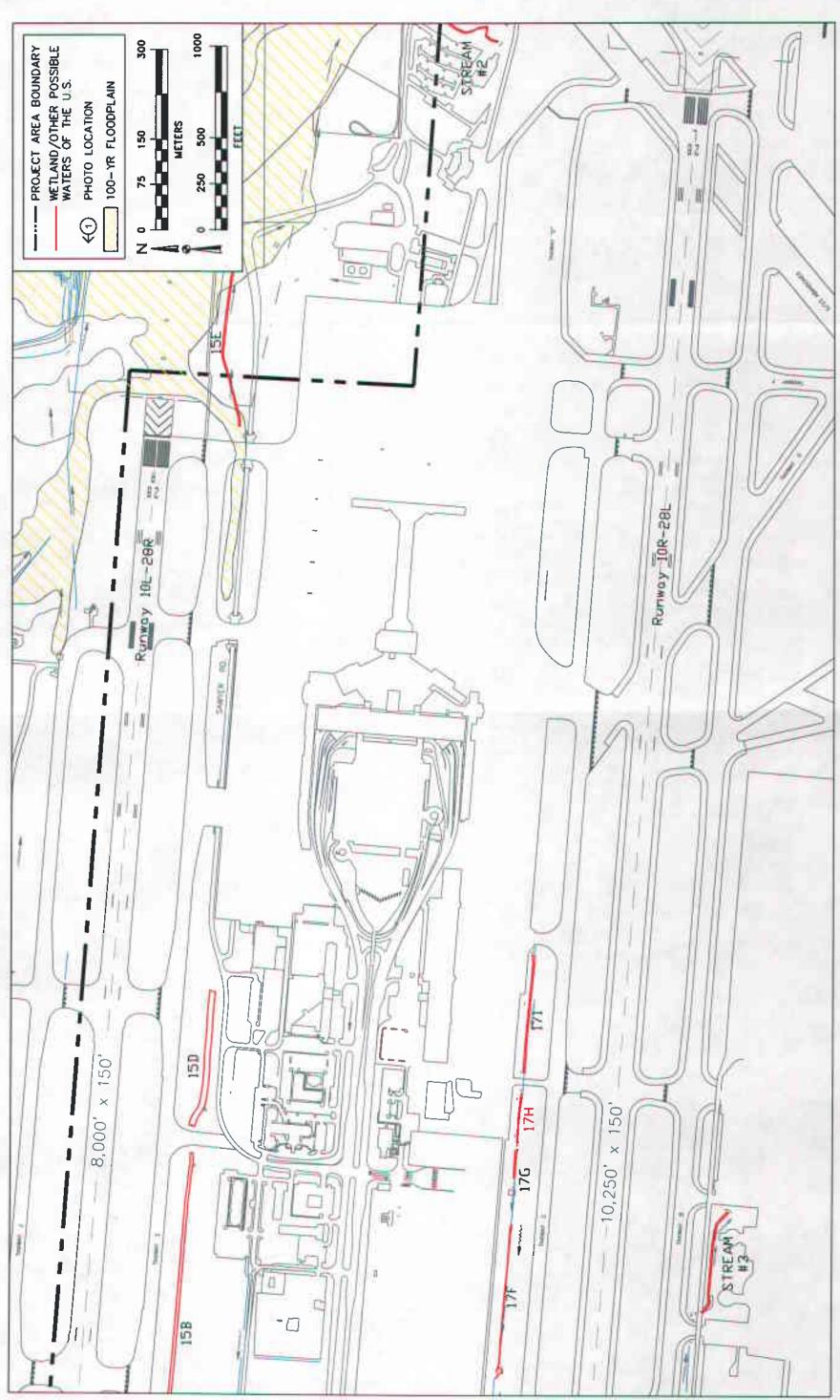


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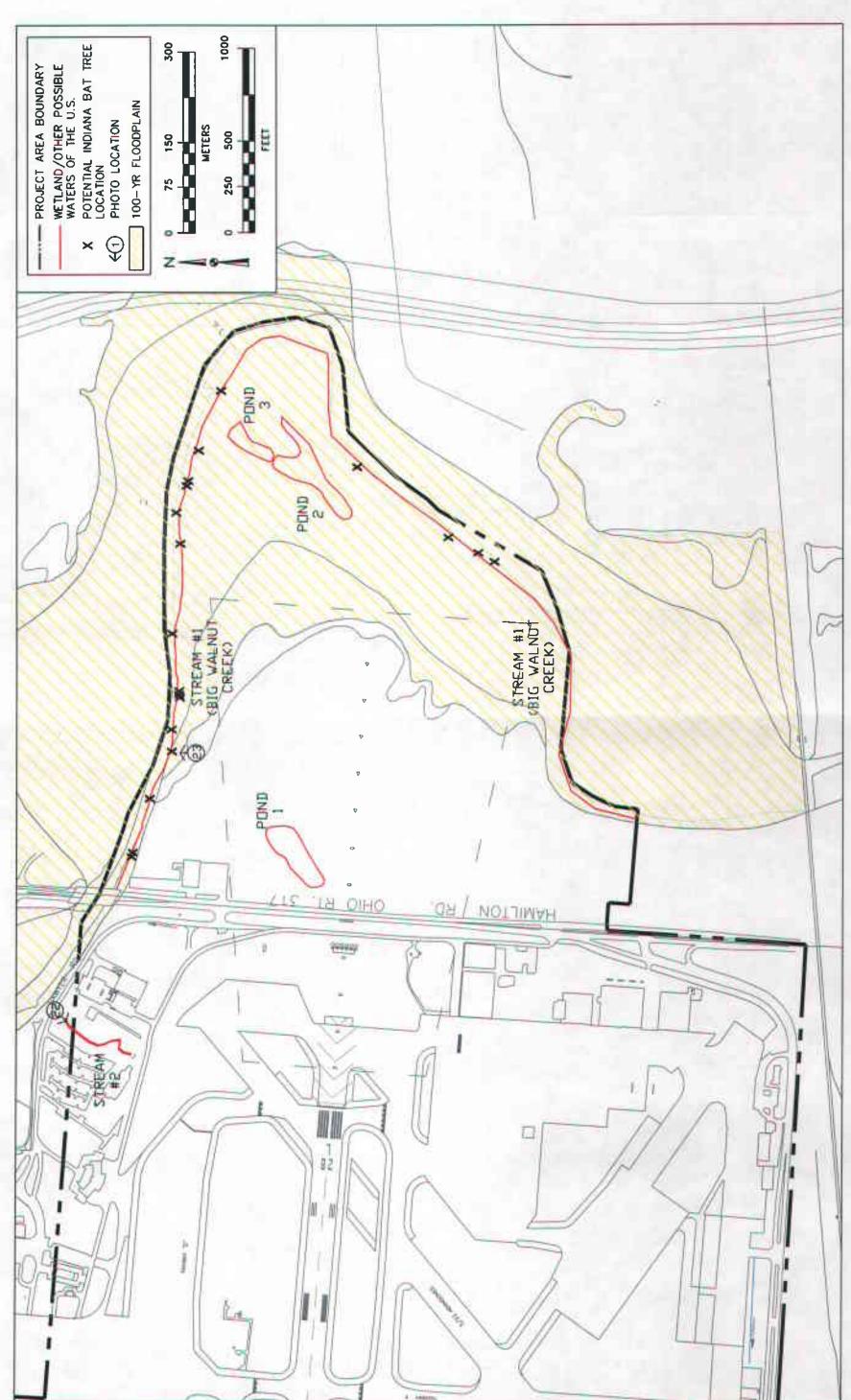


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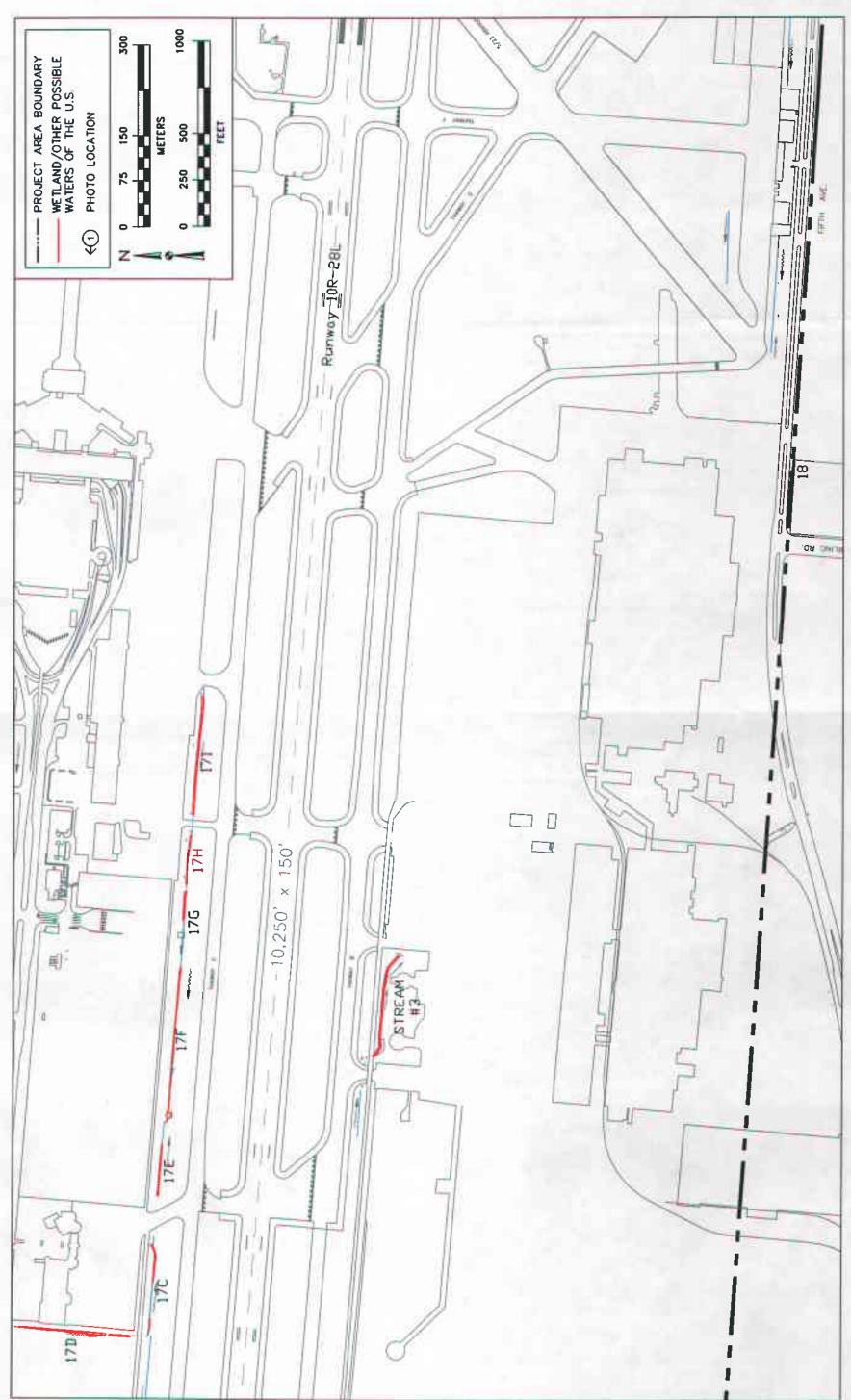


Figure 6. Map of the Port Columbus International Airport project area, showing wetlands, streams, ponds, areas of 100-year floodplain, potential Indiana bat roost trees, photograph locations, and directions. (5 Sheets)

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

DibbieMoschhe

Natural Heritage Program

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: 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 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)

POILS								
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	CMP	Loam			
-								
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					
Aguic l	Moisture R	egime	Listed on Lo	cal Hydric Soils List				
	ng Conditio			tional Hydric Soils L	ist			
		roma Colors	Other (Explain in Remarks)					
Remarks:								
	ators were	observed. This obs	ervation satisfies the	soils criterion.				
11, 4111								

Hydrophytic Vegetation	Yes	No	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:	Date: 8.8.200)6			
Applicant/Owner: Columbus Municipal Airport Authority				County: Frankli	n ·
Investigator:					
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.

POILP								
Map Unit Na	me	• •	Drainage Class:					
(Series and P								
Taxonomy (S			Field Observations					
	0 r),			Confirm Mapped T	ype? Yes No			
Profile Descr	intion:			<u></u>				
Frome Descr	ipuon.							
	I	T		T37 //1	1 7			
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 4/4	CMP	Loam			
Hydric Soil I	ndicators:				<u></u>			
nyunc son i	nuicators.				•			
	1 .		Concretions		· · · · · · · · · · · · · · · · · · ·			
Histoso				" Composed in Compose"	Lavor in Candy Caila			
	Epipedon			c Content in Surface	Layer III Salidy Solls			
Sulfidi				aking in Sandy Soils				
	Moisture R			ocal Hydric Soils List				
Reduci	ng Conditio	ons		Listed on National Hydric Soils List				
		nroma Colors	Other (Expla	her (Explain in Remarks)				
Remarks:								
	ators were	observed. This obs	ervation satisfies the	soils criterion.				
Trydite male	acors word	00001 100. 11110 000	or , autor battoriou tire					
					•			

WETLAND DETERMINATION

TATA TOTAL DESCRIPTION OF THE PARTY OF THE P	O1 \		
Hydrophytic Vegetation	Yes	<u>No</u>	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			

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

(1987 COE Wetlands Delineation Manual)

Troject Site.				Date: 8.8.2006
Applicant/Owner: Columbus Municipal Airport Authority				County: Franklin
Investigator: Landon McKinney				State: Ohio
li .		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 (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)
Remai	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			Listed on National Hydric Soils List					
		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 a Wetland?			
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 Layer in Sandy Soils					
Sulfidio			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 (Explain 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 Yes No Is this Sampling Point Within a W					Within a Wetland?		
Present? (Circle)							
Wetland Hydrology Present?	Yes	No	<u>Yes</u>	No	(Circle)		
Hydric Soils Present?	Yes	No				4	
Remarks:							
This area satisfies the three crite	eria 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 No	Community ID: Non-wetland
Is the site significant Is the area a potenti (If needed, explain		Yes	No No	Data Point #: 5

VEGETATION

Ι	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 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.)	FAC-Neutral Test
	1		, ,	Other (Explain in Remarks)
Remark	CS:			
Suffici	ent indicators of wetland hydrology	were not o	bserve	d. 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 Organic Content in Surface Layer in Sandy Soils						
Sulfidio			Organic Streaking in Sandy Soils						
Aquic 1	Moisture R	egime	Listed on Local Hydric Soils List						
	ng Conditio			Listed on National Hydric Soils List					
X Gleyed	or Low-Ch	roma Colors	Other (Expla	xplain 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	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			
				Other (Explain in Remarks)			

SOILS									
Map Unit Na	ne			Drainage Class:					
(Series and Pl									
Taxonomy (S			Field Observations						
	5 17			Confirm Mapped T	ype? 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	A	10YR 4/2	7.5YR 5/6	CMP	SiCL				
				100					
Hydric Soil I	ndicators:	1							
Histoso	1		X Concretions						
1	Epipedon			Content in Surface l	Layer in Sandy Soils				
Sulfidio				aking in Sandy Soils	· · · · · · · · · · · · · · · · · · ·				
ll .	Moisture R	egime		Listed on Local Hydric Soils List					
	ng Conditio			Listed on National Hydric Soils List					
		roma Colors		in in Remarks)					
Remarks:	J. 2011 OI		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
	ators were o	observed. This obse	ervation satisfies the	soils criterion.					
Tryanto maior		2000, 700, 7111, 000,							
a e									

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is thi	s Sam	pling Poin	t Withi	n a Wet	land?	
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: 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.

SOLLS								
Map Unit Nai	me			Drainage Class:				
(Series and Pl	hase):							
Taxonomy (S	ubgroup):			Field Observations				
•	,			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 4/2	7.5YR 5/6	CMP	SiCL			
Hydric Soil In	odiontora			<u> </u>	<u> </u>			
Trydiac Son II	idicators.							
Histoso	1 .		Concretions					
Histic E	Epipedon		High Organic	Content in Surface I	Layer in Sandy Soils			
Sulfidio	Odor		Organic Streaking in Sandy Soils					
Aquic N	Moisture Re	egime		al Hydric Soils List	•			
Reducii	ng Conditio	ons		tional Hydric Soils Li	st			
		roma Colors		in in Remarks)				
Remarks:				· · · · · · · · · · · · · · · · · · ·				
Hydric indica	tors were c	bserved. This obse	ervation satisfies the	soils criterion.				
·			e e					

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this Sampling Point Within a W	etland?
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.		
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
li .	stances exist on the site?	Yes Yes	No	Community ID: Wetland 6
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			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			•	
V V and Call Common 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 National Hydric Soils List					
		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 Yes	No	Community ID: Wetland 7
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			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 =		<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 T	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 I	ndicators:							
Histoso	ol		X Concretions					
Histic 1	Epipedon		High Organio	c Content in Surface	Layer in Sandy Soils			
Sulfidi			Organic Stre	aking in Sandy Soils				
Aquic	Moisture R	egime	Listed on Local Hydric Soils List					
	ng Conditio		Listed on National Hydric Soils List					
		roma Colors	Other (Explain in Remarks)					
Remarks:								
Hydric indic	ators were	observed. This obs	ervation satisfies the	soils criterion.				

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?	
Present? (Circle)	***	NT.	Voc. No. (Cirolo)	
Wetland Hydrology Present?	<u>Yes</u>	No	Yes 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 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 Phase):							
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		cal Hydric Soils List				
	ng Condition			tional Hydric Soils L	ist			
		roma Colors		in in Remarks)				
Remarks:		TOTIM COLORS	T Guiot (Taxbia	III III IIIIIIIIII				
	itore ware c	heerwad This show	ervation satisfies the	soils criterion				
Trymic menes	TOTA MOTO (20301404. 11113 0080	orvation satisfies 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	stances exist on the site?	Yes	No	Community ID: Wetland 9
Is the site significant Is the area a potenti (If needed, explain		Yes Yes	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 (Subgroup):				Field Observations	
	0 17			Confirm Mapped T	
Profile Descri	iption:				71
	•				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
		((1.14.1.0011 1.10.101)	Contrast	Structure, etc.
0-16	A	10YR 4/2	7.5YR 5/6	CMP	SiL
		 			
	**				
Hydric Soil I	ndicators:		<u> </u>		
Histoso	1		Concretions		
Histic I	pipedon		High Organic	Content in Surface	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)	į
Remarks:		····	· · · · · · · · · · · · · · · · · · ·		
Hydric indica	itors were o	bserved. This obs	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		
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
	stances exist on the site?	Yes	No	Community ID: Wetland 10
Is the site significar Is the area a potenti (If needed, explain		Yes Yes	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	hase):				
Taxonomy (S				Field Observations	
	- 6 F)			Confirm Mapped T	
Profile Descr	intion:			1 Committed 1	уро, 103 140
i tome Desci	ւթոսո.				
		Transition and		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:		I	<u> </u>	-
,					
Histoso	1		Concretions		
	Epipedon		4	c Content in Surface 1	Laver in Sandy Soils
Sulfidio				aking in Sandy Soils	Layer in Sandy Sons
		•			
	Moisture Re			cal Hydric Soils List	•
	ng Conditio			tional Hydric Soils L	ıst
	or Low-Ch	roma Colors	Other (Expla	in in Remarks)	
Remarks:					*
Hydric indica	ators were o	observed. This obse	ervation satisfies the	soils criterion.	
1					

resent? (Circle)						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 Airpot Applicant/Owner: Columbus Municipal Airport Auth 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.				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			F: 11.01					
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		cal Hydric Soils List				
	ng Conditio		Listed on National Hydric Soils List					
		nroma Colors	Other (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

	tay with the second of the first				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	01		Concretions	v	
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-Ch	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 thi	s 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 significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)		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		High Organic Content in Surface 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 (Explain in Remarks)					
Remarks:								
Hydric indic	ators were o	observed. This obs	ervation satisfies the	soils criterion.				
1								
					• •			
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
	stances exist on the site? tly disturbed (Atypical Situation)?	Yes	No	Community ID: Wetland 11D
Is the site significant Is the area a potenti	Yes Yes	<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 Content in Surface 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 (Explain in Remarks)					
Remarks:								
	ators were	observed. This obs	ervation satisfies the	soils criterion.				
11, 4110 11410								

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within 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	No	Community ID: Non-wetland
Is the site significar Is the area a potenti (If needed, explain	Yes Yes	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 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					
		roma Colors		plain in Remarks)				
Remarks:								
	ators were o	observed. This obse	ervation satisfies the	soils criterion.				
		30001700. 1110000	01 (W)10 11 B B B B B B B B B B B B B B B B B					
			•					
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		
	stances exist on the site?	Yes	No	Community ID: Wetland 11E
Is the site significant Is the area a potenti (If needed, explain		Yes Yes	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 Remarks	s):	1	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
ļ			Other (Explain in Remarks)

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

BOILDS					
Map Unit Na	me			Drainage Class:	
(Series and P	hase):				
Taxonomy (S	ubgroup):		ř	Field Observations	
	0 1,			Confirm Mapped T	Type? Yes No
Profile Descr	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
Hydric Soil I	ndicators:				
Histoso	ı i		Concretions		
•	Epipedon			c Content in Surface	Laver in Sandy Soils
Sulfidio				aking in Sandy Soils	Layer in Sandy Sons
	Moisture R	egime		ocal Hydric Soils List	
	ng Conditio			ational Hydric Soils L	ict
		nroma Colors		ain in Remarks)	151
Remarks:	of Low-Ci	ironia Colors	Other (Expir	illi ili Kelliaiks)	
	-tama ****	ahaamad Thia aha	ervation satisfies the	anila aritarian	
riyane maica	ators were t	observed. This obs	ervation satisfies the	Sons Cincilon.	
l '					
T					

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	<u>163</u> 140 (Choic)
- 			
emarks.			
•	aria and is	a watland	
•	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	No	Community ID: Wetland 11F
Is the site significar Is the area a potenti (If needed, explain		Yes Yes	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
	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)

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	Omer (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)

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 11G
Is the area a potenti		Yes Yes	No No	Data Point #: 19
(If needed, explain	on reverse.)			

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)

Map Unit Na	me	erry were the control of the control	-70-	Drainage Class:	
(Series and P					
Taxonomy (S	Subgroup):			Field Observations	
				Confirm Mapped T	ype? Yes No
Profile Descr	ription:	•			•
Donale	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
Depth (inches)	Horizon	(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
(menes)		(withiself wiolst)	(Withiself Worst)	Contrast	Structure, etc.
0-16	A	10YR 3/2	7.5YR 4/6	CMP	Loam
	<u> </u>				
	<u> </u>				
Hydric Soil I	ndicators:				
Histoso	 ol		Concretions		
Histic I	Epipedon		High Organi	c 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
	or Low-Ch	roma Colors	Other (Expla	in in Remarks)	
Remarks:		. 1 001 1			
Hydric indica	ators were o	observed. This obse	ervation satisfies the	soils criterion.	

Hydrophytic Vegetation Present? (Circle)	Yes	No	Is this	Sam	pling Point	t Within a We	etland?	
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:			

SOILS								
Map Unit Na	me			Drainage Class:	'			
(Series and P	hase):							
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	Α	10YR 3/2	7.5YR 4/6	CMP	Loam			
	,							
Hydric Soil I	ndicators:	1						
Histoso			Concretions					
	Epipedon			c Content in Surface I	Layer in Sandy Soils			
Sulfidio				aking in Sandy Soils				
	Moisture Re			cal Hydric Soils List				
	ng Conditio			isted on National Hydric Soils List				
X Gleyed	or Low-Ch	roma Colors	Other (Expla	in in Remarks)				
Remarks:								
Hydric indica	ators were o	observed. This obse	ervation satisfies the	soils criterion.				
					$\frac{\partial f}{\partial x} = \frac{\partial f}{\partial x} + \frac{\partial f}{\partial x} = \frac{\partial f}{\partial x} + \frac{\partial f}{\partial x} = $			
			•					
1								
			•					

METRINO DETERMIN	1771101	1	
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	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
B)	stances exist on the site?	Yes Yes	No	Community ID: Wetland 11I
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			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 (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:			
Indica	tors of wetland hydrology were observed.	This obse	rvation	satisfies the hydrology criterion.

SOILS									
Map Unit Na	me			Drainage Class:					
(Series and P				Field Observations					
Taxonomy (S									
Tanonomy (c	B P).			Confirm Mapped T	ype? Yes No				
Profile Desci	intion:				V.A.				
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	-	103770 070	T CVD A/C	CMP	Loam				
0-16	Α	10YR 3/2	7.5YR 4/6	CIVIP	Loain				
					ļ				
				<u>. </u>					
Hydric Soil	ndicators:								
Histose	ol		Concretions						
Histic	Epipedon		High Organic Content in Surface Layer in Sandy Soils						
	c Odor		Organic Stre	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.					
11) dite maie	atorb (for	00001,000							
1									
			•						

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.					
	eria and is	a wetland.					
	eria and is	a wetland.					

(1987 COE Wetlands Delineation Manual)

Project/Site: Port Columbus International Columbus Municipal 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.	<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	ļ	Primary Indicators:
	Aerial Photographs	İ	Inundated
	Other		Saturated in the Upper 12 in.
X	No Recorded Data Available		Water Marks
		İ	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 More)	(Manbon Moist)	Contrast	Structure, etc.			
0.16	<u> </u>	107/0 2/2	7.5YR 4/6	CMP	Loam			
0-16	A	10YR 3/2	1.3 Y K 4/0	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		Listed on National Hydric Soils List					
	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 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: Applicant/Owner: Investigator:	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:	OI LOW-CI	noma Colors	Juliot (Explai	II III I (VIIIIIII)			
	tore more	shearwad This above	ervation satisfies the	soils criterion			
riyaric maica	mors were (POSOL VOG. TIMS ODS	or varion sausmes me	BOILD VITIOLIUIL			
ĺ							
I							

~~	* 7	3.7	Tuli Cumbing Daine Wishing Wetland?
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 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
				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	ırks:			

SUILS					·····				
Map Unit Na	me		Drainage Class:						
(Series and P	hase):								
Taxonomy (S	ubgroup):		Field Observations						
	0 17		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,				
(22.22.23)		(112411154111115115)	(1114115011111515)	Contrast	Structure, etc.				
0-16	A	10YR 3/2	7.5YR 4/6	CMP	Loam				
Hydric Soil In	ndicators:		<u> </u>	· L					
11) 4110 0011 11									
Histoso	1		Concretions						
	Epipedon		High Organic Content in Surface Layer in Sandy Soils						
Sulfidio		•	Organic Streaking in Sandy Soils						
	Moisture Re	egime	Listed on Local Hydric Soils List						
	ng Conditio		Listed on National Hydric Soils List						
		roma Colors		in in Remarks)					
Remarks:									
	itors were c	bserved. This obse	ervation satisfies the	soils criterion.					
,									
	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	<u> </u>
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 Authori Landon McKinney	ity		Date: County: State:	8.8.2006 Franklin Ohio
	stances exist on the site?	Yes Yes	No <u>No</u>	Communit	ty ID: Wetland 11M
Is the site significant Is the area a potenti (If needed, explain	tly disturbed (Atypical Situation)? al Problem Area? on reverse.)	Yes	No 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
Liela (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.		(3)	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.	
-					
		*			o."
	-				
,		•			
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
X 1018 0 0001 (011010)			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)

SOLDS								
Map Unit Na	me		Drainage Class:					
(Series and P					*			
Taxonomy (S				Field Observations				
Lanonomy (D	acgroup).			Confirm Mapped Type? 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 W					a Wetlan	id?			
Wetland Hydrology Present?	Yes	No	Yes	No	(Circle	·)				
Hydric Soils Present?	<u>Yes</u>	No				····	 			
Remarks:										
This area patisfies the three crits	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	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)
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	ype? Yes No			
Profile Descr	iption:							
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
(inches)		(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
(Mississ)				Contrast	Structure, etc.			
0-16	Α	10YR 3/2	7.5YR 4/6	CMP	Loam			
	"							
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 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:			. ,	4				
Hydric indica	ators were	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.	

(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
Do Normal Circumstances exist on the site?			No <u>No</u>	Community ID: Wetland 11P
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area?			No	Data Point #: 28
(If needed, explain				

VEGETATION

		The second secon		T
Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
Tree	FACW	9.		
Forb	OBL	10.		
Sedge	FACW+	11.		
		12.		
		13.		
		14.		
		15.		. :
		16.		
	Forb	Tree FACW OBL	Tree FACW 9. Forb OBL 10. Sedge FACW+ 11. 12. 13. 14. 15.	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%

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.
\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
			` ,	X Local Soil Survey Data
	Depth to Saturated Soil:	>16	(in.)	X FAC-Neutral Test
	*		. ,	Other (Explain in Remarks)

BOILD								
Map Unit Na	me		Drainage Class:	Drainage Class:				
(Series and P								
Taxonomy (S				Field Observations	Field Observations			
Lanonomy (C	Tunonomy (Subgroup).							
Des file Desar	intion			Confirm Mapped T	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			
- 10								
		<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 indic	ators were	observed. This obs	ervation satisties the	soils criterion.				
ļ								
1								

TYDEREZEE TO DOMESTICAL	12 2 2 2 3 1	<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	ria and is	a wetland	d.
i			

(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			T 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		
			1		Carran in Com des Coilo
	Epipedon			Content in Surface I	Layer in Sandy Soils
Sulfidio				aking in Sandy Soils	
	Moisture Re			cal 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	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:	Applicant/Owner: Columbus Municipal Airport Authority			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 Name				Drainage Class:			
(Series and Pl							
Taxonomy (Subgroup):				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 Authority			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	ks:			
Indica	tors of wetland hydrology were observed.	This obse	rvation	satisfies the hydrology criterion.

SOILS							
Map Unit Name				Drainage Class:			
(Series and Pl				Field Observations			
Taxonomy (S							
				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 (Expla	in in Remarks)	45
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:	Columbus Municipal Airport Author	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	al Problem Area?	Yes	<u>No</u>	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			
	0 17			Confirm Mapped 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	CMP	Loam		
Hydric Soil I	ndicators:	<u> </u>					
,			•				
Histoso	ol .		Concretions				
	Epipedon		High Organic	Content in Surface	Layer in Sandy Soils		
Sulfidio		,	Organic Stre	aking in Sandy Soils			
Aquic I	Moisture R	egime	Listed on Lo	cal 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 Sampling Point Within 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: 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 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 Pl Taxonomy (S				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	СМР	Loam			
					<u> </u>			
Hydric Soil I	ndicators:							
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 tin in Remarks)				
Remarks:	tore were	observed. This obse	arvation catisfies the	soils criterion				
Hydric indica	nors were c	Juseived. This ous	er vation satisfies the	Sons criterion.				

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 Van	No	Communit	y ID: Wetland 11W
Is the site significant Is the area a potenti (If needed, explain		Yes Yes	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)

DOMES				T	
Map Unit Nai				Drainage Class:	
(Series and Pl	hase):				
Taxonomy (S	ubgroup):			Field Observations	
	2 17			Confirm Mapped T	Type? Yes No
Profile Descr	intion:				<u> </u>
TOTIC DOSCI	ibnon.				
D //	TT	Matrix Calar	Mottle Colors	Mottle	Touture
Depth	Horizon	Matrix Color	Y .		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:		<u> </u>		
Histoso	1		Concretions		
lí	Epipedon			c Content in Surface I	aver in Sandy Soils
					Sayor in Bandy Bons
Sulfidio		•		aking in Sandy Soils	
	Moisture Re			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 o	observed. This obse	ervation satisfies the	soils criterion.	•
			•		
				6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	
14.					

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	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
		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.		·
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:			

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	
uxonomy (B	uogroup).			Confirm Mapped 7	
Profile Descr	intion:			Остана	V F - C - C - C - C - C - C - C - C - C -
Prome Descr	ipuon.				
			136.42.63	T 3.6 .//1	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 I	ndicators:	<u> </u>	1		<u> </u>
11) di le son 1	naroutors.		•		
Histoso	.1		Concretions		
ll .	Epipedon			c Content in Surface	Layer in Sandy Soils
Sulfidio				aking in Sandy Soils	buyor in buildy boils
K		a aima		cal Hydric Soils List	
	Moisture R			itional Hydric Soils L	ict
	ng Conditio				151
	or Low-Cl	roma Colors	Other (Expla	ain in Remarks)	
Remarks:				•	
Hydric indicate	ators were	observed. This obs	ervation satisfies the	soils criterion.	
			• *		

Hydrophytic Vegetation	<u>Yes</u>	No	Is thi	s Sam	ipling Point With	in a Wetland?	
Present? (Circle)					*		
Wetland Hydrology Present?	Yes	No	<u>Yes</u>	No	(Circle)		
Hydric Soils Present?	<u>Yes</u>	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 Airpor Columbus Municipal Airport Autho Landon McKinney			Date: 8.8.2006 County: Franklin State: Ohio	
	stances exist on the site? tly disturbed (Atypical Situation)?	Yes Yes	No <u>No</u>	Community ID: Wetland 11	Y
Is the area a potenti (If needed, explain	al Problem Area?	Yes	No	Data Point #: 37	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
	Tree	FACW	9.		
1. Fraxinus pensylvanica		 			
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)

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	
1 4				Confirm Mapped T	ype? Yes No
Profile Descr	intion:				<u> </u>
1 Tomic Descr	iption.				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)	110112011	(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
(menes)		(Widiscii Wioist)	(IVIUIISCII IVIOISC)	Contrast	Structure, etc.
0-16	A	10YR 3/2	7.5YR 4/6	CMP	Loam
0-10	A	10110312	7.5110-70	Civil	Louin
					
:					
Hydric Soil I	ndicators:				
,					
Histosc	ol	· · · · · · · · · · · · · · · · · · ·	Concretions		
Histic I	Epipedon		High Organi	c Content in Surface I	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:				·	
	ators were	observed. This obse	ervation satisfies the	soils criterion.	
11) and maior	LICID WOLG				
-					
İ			Ł.		
H			The second secon		

Hydrophytic Vegetation	Yes	No	Is this Sampling Point Within a Wetland?
Present? (Circle)			W 1 (0' 1)
Wetland Hydrology Present?	<u>Yes</u>	No	<u>Yes</u> No (Circle)
Hydric Soils Present?	<u>Yes</u>	No	
Remarks:			
TCHILLIED.			· · ·
	eria and is	a wetlar	d.
	eria and is	a wetlar	d.
	eria and is	a wetlar	d.
This area satisfies the three crite	eria and is	a wetlar	d.

(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?	Yes Yes	No	Community ID: Wetland 11Z
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			<u>No</u> <u>No</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.

BOILD								
Map Unit Nat	ne		Drainage Class:					
(Series and Pl								
Taxonomy (S				Field Observations				
1 axonomy (S	uogroup).							
n (** =				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			
V 10	<u> </u>	1011012	7.5130	U1132				
		 						
				 				
·	<u> </u>	L :		<u> </u>	, , , , , , , , , , , , , , , , , , , ,			
Hydric Soil It	ndicators:							
Histoso	1		Concretions					
	Epipedon			Content in Surface I	Layer in Sandy Soils			
Sulfidic				aking in Sandy Soils	- Julia Julia			
		in						
	Moisture Re			cal Hydric Soils List	•			
	ng Conditio				ional Hydric Soils List			
X Gleyed	or Low-Ch	roma Colors	Other (Expla	lain in Remarks)				
Remarks:		•						
Hydric indica	itors were c	observed. This obse	ervation satisfies the	soils criterion.				
		•						
,								
·								
D ·								

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?	<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: 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 #: 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>				
11, 4110								
Histoso	ol .		Concretions					
9	Epipedon		High Organi	c Content in Surface	Layer in Sandy Soils			
	c Odor			aking in Sandy Soils				
	Moisture R	egime	Listed on Local Hydric Soils List					
	ng Condition		Listed on National Hydric Soils List					
		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	<u>No</u>	
Remarks:			

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

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	licant/Owner: Columbus Municipal Airport Authority				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>	Commun Data Poir	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):		1	Wetland Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Primary Indicators:
	Aerial Photographs			Inundated
	Other		ļ	Saturated in the Upper 12 in.
X	No Recorded Data Available			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:	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			High Organic Content in Surface Layer in Sandy Soils					
Sulfidio	c Odor			Organic Streaking in Sandy Soils					
Aguic 1	Moisture R	egime	Listed on Lo	ocal Hydric Soils List					
Reduci	ng Conditio	ons	Listed on Na	ational Hydric Soils List					
		nroma Colors	Other (Expla	in in Remarks)					
Remarks:									
	ators were	observed. This obse	ervation satisfies the	soils criterion.					
l 11) al 10 maior									
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?	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
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)?			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>ypo.</i> 105 10			
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				c Streaking in Sandy Soils				
	Moisture Re	ecime		n Local Hydric Soils List				
	ng Conditio			ational Hydric Soils List				
		roma Colors	Other (Expla					
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.				
				•				

Hydrophytic Vegetation Present? (Circle)	Yes	No		Is this	s Sam	pling Poin	t 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 wetlar	nd.							
ii										

(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	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				
-									
			Lib.						
Hydric Soil I	ndicators:								
	,								
Histoso	ol		Concretions						
Histic 1	Epipedon		High Organic	c Content in Surface I	Layer in Sandy Soils				
Sulfidi			Organic Streaking in Sandy Soils						
Aquic	Moisture Re	egime	Listed on Local Hydric Soils List						
	ng Conditio		Listed on National Hydric Soils List						
		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: Port Columbus International Airport Applicant/Owner: Columbus Municipal Airport Authority Investigator: Landon McKinney				Date: 8.8.2006 County: Franklin State: Ohio
D .	stances exist on the site?	Yes Yes	No	Community ID: Wetland 12D
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			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 National Hydric Soils List					
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	15 1111	s Sam	ping Ponit w	ithin 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)? Is 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:	į.		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)
D			/

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 (Subgroup):				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	CMP	CL				
		<u> </u>		·					
TT 1: 0 :IT	<u> </u>								
Hydric Soil II	adicators:								
Histoso	1		Concretions						
Histic E	Epipedon		High Organic	Content in Surface I	Layer in Sandy Soils				
Sulfidio	: Odor		Organic Streaking in Sandy Soils						
	Moisture Re		Listed on Local Hydric Soils List						
	ng Conditio			tional Hydric Soils Li	ist				
~~~~	or Low-Ch	roma Colors	Other (Expla	in in Remarks)					
Remarks:									
Hydric indica	itors were o	bserved. This obse	ervation satisfies the	soils criterion.					
·									
-									
-									

## 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?	<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 Yes	No	Community ID: Wetland 13
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			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.		1
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)

BOILB								
Map Unit Na	me		Drainage Class:					
(Series and Pl								
Taxonomy (S				Field Observations				
1 3,,01,0,,1,	0. ~ -r).			Confirm Mapped T				
Profile Descr	intion:			1	<u> </u>			
1 TOTHE DESCR	iption.							
TO (1	TT	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N - 41 - O - 1	N 4 - 441 -	T Tours			
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>		<u> </u>				
lifuito bon n	ilaicatoro.							
Histoso	.1		Concretions					
	Epipedon			Content in Surface I	aver in Sandy Soils			
Sulfidio			High Organic Content in Surface Layer in Sandy Soils					
		. •	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 (Explain in Remarks)					
Remarks:								
Hydric indica	itors were o	bserved. This obse	ervation satisfies the	soils criterion.				
			•					
		*			,			
			•					
			•					
1								

## WETLAND DETERMINATION

THE REAL PROPERTY.	12 2 2 2 2 2	•	
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?	Yes	No	
Remarks:			

The area is an excavated ditch that has established vegetation along the bed overtime. This area satisfies the three criteria 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: 8.1.2006 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 1	Layer in Sandy Soils			
Sulfidio				aking in Sandy Soils	•			
	Moisture Ro	egime		cal Hydric Soils List				
	ng Conditio			tional Hydric Soils L	ist			
		roma Colors		Other (Explain in Remarks)				
Remarks:	OI DOW CI	noma Corors	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					
					•			
	•							

# 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?	<u>Yes</u>	No	
			· •

The area is an excavated ditch that has established vegetation along the bed overtime. This area satisfies the three criteria and is a wetland.

(1987 COE Wetlands Delineation Manual)

Project/Site: Applicant/Owner: Investigator:	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.

			Wetland Hydrology Indicators:	
	Recorded Data (Describe in Remarks): 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 Organio	c Content in Surface l	Layer in Sandy Soils			
Sulfidio			Organic Streaking in Sandy Soils					
Aquic I	Moisture R	egime	Listed on Local Hydric Soils List					
	ng Conditio			tional Hydric Soils L	ist			
		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	BOILD OFFICE TOTAL				
		•	•					
				•				

# WETLAND DETERMINATION

printer and the second				
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			<del></del> :	

#### Remarks:

The area is an excavated ditch that has established vegetation along the bed overtime. This area satisfies the three criteria 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: 8.1.2006 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)

BOIDS								
Map Unit Nat	me		Drainage Class:					
(Series and Pl								
Taxonomy (S			Field Observations					
Landidilly (S	augroup).			Confirm Mapped T				
<u> </u>				1 Committeeppod 1	JP0. 100 110			
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	2.5Y 3/1			CL			
U-1U	123	2.5 1 3/1		<del>                                     </del>				
		<del> </del>		-	<del>                                     </del>			
	ļ			<u> </u>				
		ļ						
				<u> </u>				
	l	L						
Hydric Soil I	ndicators:							
Histoso	1		Concretions					
				Content in Surface I	Layer in Sandy Soils			
	Epipedon				on or in ountry bono			
Sulfidio			Organic Streaking in Sandy Soils Listed on Local Hydric Soils List					
	Moisture Re				• •			
	ng Conditio			tional Hydric Soils L	IST			
X Gleyed	or Low-Ch	hroma Colors	Other (Expla	in in Remarks)				
Remarks:								
	ators were	observed. This obse	ervation satisfies the	soils criterion.				
,,,,,,,,,								
I was to be a								
В								

# 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:

The area is an excavated ditch that has established vegetation along the bed overtime. This area satisfies the three criteria 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: 8.1.2006 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	Observations:			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		` ,	Local Soil Survey Data
	Depth to Saturated Soil:		(in.)	X FAC-Neutral Test
	z print o caratara sour		` /	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 Layer in Sandy Soils					
Sulfidio			Organic Streaking in Sandy Soils					
	Moisture Re	egime	Listed on Local Hydric Soils List					
	ng Conditio			tional Hydric Soils L	ist			
		roma Colors	Other (Explain 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	Yes No (Circle)
Hydric Soils Present?	<u>Yes</u>	No	
Remarks:			

The area is an excavated ditch that has established vegetation along the bed overtime. This area satisfies the three criteria 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: 8.1.2006 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.		<u> </u>

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 1100 Water in 110		()	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.

Map Unit Na	me			Drainage Class:	
(Series and P.	hase):				
Taxonomy (S				Field Observations	
	8 17			Confirm Mapped 7	Type? Yes No
Profile Descr	intion:				
1 TOTHE DESCI	iption.				
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,
(inches)	110112011	(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,
(Inches)		(Ividiisch Iviolst)	(Ividitson Ivioist)	Contrast	Structure, etc.
0-16	A	2.5Y 3/1		Contrast	CL
0-10	A	2.31 3/1			CL
		<u> </u>			
				<u> </u>	
	L				
Hydric Soil I	ndicators:	*			
TT	1		Concretions		
Histoso			1	0	
	Epipedon			Content in Surface 1	Layer in Sandy Soils
Sulfidio				aking in Sandy Soils	
	Moisture Re			cal 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:					
ii e	itors were o	bserved. This obse	ervation satisfies the	soils criterion.	
	- 1				•

# 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	

Remarks:
The area is an excavated ditch that has established vegetation along the bed overtime. This area satisfies the three criteria 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: 8.1.2006 County: Franklin State: Ohio
Do Normal Circumstances exist on the site?			No	Community ID: Wetland 15D
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 #: 51

## **VEGETATION**

Dominant Plant Species Stratu		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):			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
	F		. ,	Local Soil Survey Data
	Depth to Saturated Soil:		(in.)	X FAC-Neutral Test
	- F		` '	Other (Explain in Remarks)

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

BOIDS					
Map Unit Na	ne			Drainage Class:	
(Series and Pl					
Taxonomy (S				Field Observations	
Laxonomy (b	aogroup).			Confirm Mapped T	ype? Yes No
D., - Cl. D.				Committeeppour	Jpc. 100 110
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	2.5Y 3/1			CL
- 10					
			· · · · · · · · · · · · · · · · · · ·		
				7	
Hydric Soil I	ndicators:		<del></del>		
11, 4110 5511 11					•
Histoso	1		Concretions		
	Epipedon			Content in Surface I	Layer in Sandy Soils
Sulfidio	Odor			aking in Sandy Soils	
i	Moisture Re	eaime		cal Hydric Soils List	
	ng Condition			tional Hydric Soils Li	ist
		roma Colors		in in Remarks)	
	of Low-Ci	noma Colors	Other (Expla	III III IVOIII (III )	
Remarks:		shaamuad This sha	amustian satisfies the	soils oritorion	100
riyaric maica	nors were (	ouserved. This obs	ervation satisfies the	Sons Citterion.	
<u> </u>					
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	

The area is an excavated ditch that has established vegetation along the bed overtime. This area satisfies the three criteria and is a wetland.

(1987 COE Wetlands Delineation Manual)

Project/Site: Port Columbus International Airport Applicant/Owner: Columbus Municipal Airport Authority Landon McKinney				Date: 8.1.2006 County: Franklin State: Ohio
		Yes Yes Yes	No <u>No</u> <u>No</u>	Community ID: Wetland 15E  Data Point #: 52

## **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%

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		ļ	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		
F		, ,	Local Soil Survey Data		
Depth to Saturated Soil:		(in.)	X FAC-Neutral Test		
1			Other (Explain in Remarks)		

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

SOILS							
Map Unit Name			Drainage Class:				
(Series and Pl							
Taxonomy (Subgroup):		Field Observations					
Tuxonomy (buogroup).			Confirm Mapped T	ype? Yes No			
Profile Descr	intion:			<u> </u>			
1101110 20001	.p.,						
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,		
(inches)	110112011	(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,		
(menes)		(Wanson Worst)	(Withbell Wield)	Contrast	Structure, etc.		
0-16	A	2.5Y 3/1		00	CL		
0.10		2.5 1 5/1					
	· · · · · · · · · · · · · · · · · · ·						
			· · · · · · · · · · · · · · · · · · ·				
:							
Hydric Soil I	ndicators:	1					
Tiyune Son i	naicators.						
Histoso	.1		Concretions				
		*		Content in Surface I	aver in Sandy Soils		
Histic Epipedon Sulfidic Odor		High Organic Content in Surface Layer in Sandy Soils Organic Streaking in Sandy Soils					
		Listed on Local Hydric Soils List					
				n National Hydric Soils List			
		Other (Explain in Remarks)					
X Gleyed or Low-Chroma Colors Other (Explain in Remarks)  Remarks:							
	atore were o	heerved This obs	ervation satisfies the	soils criterion	the second secon		
Trydite mate	tiols were t	JUSCIVEG. THIS OUS	or various satisfies the	Sons of torion.			
					•		
	• •						
1							

# 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?	Yes	No	

The area is an excavated ditch that has established vegetation along the bed overtime. This area satisfies the three criteria and is 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:	estigator: Landon McKinney			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>	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.	1		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)
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:  Concretions Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors  Remarks:  Mottle Colors (Munsell Moist) Mottle Abundance/Size/ Contrast  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)	,				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:  Concretions Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors  Remarks:  Mottle Colors (Munsell Moist) Mottle Abundance/Size/ Contrast  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)	Profile Description:								
(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)	(IIIOIIOS)		(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	Hydric Soil Indicators:							
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	High Organic Content in Surface Layer in Sandy Soils					
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.								
	and management that and added 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 sec								
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		•							

	IT DISCUSSION DESCRIPTIONS				
	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:		Date: County: State:	8.1.2006 Franklin Ohio		
		Yes Yes Yes	No <u>No</u> <u>No</u>	Commun	uity 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. The	his obs	ervation s	satisfies the hydrology criterion.		

SOILS								
Map Unit Nar	ne			Drainage Class:				
(Series and Pl								
Taxonomy (S				Field Observations				
	- 6 <del>- P</del> ),			Confirm Mapped T				
Profile Descri	ntion			1	JF 110			
Trome Description.								
Dont!	TT	Madei C. 1	M-41- O-1-	T Mattle	Toutum			
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 In	ndicators:							
i								
Histoso	1		Concretions					
	Epipedon		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 Pational Hydric Soils List  Listed on National Hydric Soils List					
		roma Colors	Other (Explain in Remarks)					
Remarks:	JI LUW"CI.	11011111 CO1019	T Other (Expla	iii iii ivoinai koj				
	tore were	hearted This also	amustion actiofics the	soils criterion				
Hydric indicators were observed. This observation satisfies the soils criterion.								
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#### WETLAND DETERMINATION

WEIGHT DEI BRUIN MITON							
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:	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	me		Drainage Class:					
(Series and Pl								
Taxonomy (S				Field Observations				
Tunonomy (B	aogroup).			Confirm Mapped T				
Profile Description:								
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	Α	2.5Y 3/1			CL			
-								
	l		<u> </u>					
		<b></b>						
	<u> </u>		1	<u> </u>				
Hydric Soil I	ndicators:							
		<u> </u>						
Histoso	1		Concretions					
Histic I	Epipedon		High Organic	c Content in Surface	Layer in Sandy Soils			
Sulfidio			Organic Streaking in Sandy Soils					
	Moisture R	eoime	Listed on Local Hydric Soils List					
	ng Conditio		Listed on National Hydric Soils List					
		roma Colors	Other (Explain in Remarks)					
	or Low-Ci	Homa Colors	Offici (Expla	illi ili Kelliaiks)				
Remarks: Hydric indicators were observed. This observation satisfies the soils criterion.								
Hydric indica	ators were o	observed. This obs	ervation satisfies the	soils criterion.				
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# 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 significar Is the area a potenti (If needed, explain		Yes Yes	No No	Data Point #: 55

#### **VEGETATION**

Dominant Plant Species Stratu		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
		, ,	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: Applicant/Owner: Investigator:	Port Columbus International Airport Columbus Municipal Airport Author Landon McKinney			Date: 8.1.2006 County: Franklin State: Ohio
4	stances exist on the site?	Yes	No	Community ID: Wetland 17A
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 #: 56

#### **VEGETATION**

D	T 04 4	1 1: -4	Danis and Dlant Cassiss	Stratum	Indicator
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	mulcator
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	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	observation	satisfies the hydrology criterion.

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ils
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		•		
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: Port Columbus International Airport Applicant/Owner: Columbus Municipal Airport Authority Investigator: Landon McKinney				Date: 8.1.2006 County: Franklin State: Ohio
Investigator:	Landon McKinney			State. Onlo
Do Normal Circums	Yes Yes	No <u>No</u>	Community ID: Wetland 17B	
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)		Yes	No	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 Re	emarks):	Wetland Hydrology Indicators:
Stream, Lake, or Tide Ga	auge	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 of	bserved. This observation	satisfies the hydrology criterion.

POILS								
Map Unit Na	me			Drainage Class:	•			
(Series and Pl								
Taxonomy (S				Field Observations				
Taxonomy (0	uogroup).			Confirm Mapped T	'ype? Yes No			
Profile Descr	intion:			<u> </u>				
1 TOTHE DESCI.	iption.							
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture,			
	TIOTIZOII	(Munsell Moist)	(Munsell Moist)	Abundance/Size/	Concretions,			
(inches)	'	(Ividiscii Ivioist)	(Withsoff Wiolst)	Contrast	Structure, etc.			
0-16	A	2.5Y 3/1		Contrast	CL			
0-10	A	2.31 3/1			CL			
Thudain Coil L	n diaatawa		<u> </u>		<u></u>			
Hydric Soil I	naicators:							
Histoso	)]		Concretions					
	Epipedon		High Organic	High Organic Content in Surface Layer in Sandy Soils				
Sulfidio			Organic Streaking in Sandy Soils					
	Moisture R	egime		cal Hydric Soils List				
	ng Conditio			ed on National Hydric Soils List				
		nroma Colors		in in Remarks)				
Remarks:	OI DOW OI		J Suite (2Mpie					
	ators were	observed. This obse	ervation satisfies the	soils criterion.	•			
Tryunc muica	atora word	00301 700. 11113 003	or racion ballones the					

AND I DWIND DWINKING	CALLOI	<b>Y</b> · ·	
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:

(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 17C
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			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			Listed on Local 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:	Port Columbus International Airport			Date: 8.1.2006
Applicant/Owner:	Columbus Municipal Airport Author	rity		County: Franklin
Investigator:	Landon McKinney			State: Ohio
Do Normal Circumstances exist on the site?			No	Community ID: Wetland 17D
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)			No No	Data Point #: 59

# **VEGETATION**

D	Oominant 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		cal Hydric Soils List				
	ng Conditio			tional Hydric Soils L	ist			
		nroma Colors		in 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 significantly disturbed (Atypical Situation)? Yes				·
Is the area a potential Problem Area? Yes				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.

SULLS									
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	2.5Y 3/1			CL				
			·						
Hydric Soil I	ndicators:								
Ĭ									
Histoso	ol		Concretions						
Histic I	Epipedon		High Organic Content in Surface Layer in Sandy Soils						
Sulfidio				Organic Streaking in Sandy Soils					
Aquic 1	Moisture R	egime		Listed on Local Hydric Soils List					
Reduci	ng Conditio	ons		Listed on National Hydric Soils List					
		roma Colors	Other (Expla	in in Remarks)	·				
Remarks:									
Hydric indica	ators were	observed. This obs	ervation satisfies the	soils criterion.					
ľ									
II .				+ +					

# 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?	<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
Do Normal Circum	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.)			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	in.
Depth to Free Water in Pit:		(in.)	) Water-Stained Leaves	
•		``	Local Soil Survey Data	,
Depth to Saturated Soil:		(in.)	) X FAC-Neutral Test	
<b>r</b>			Other (Explain in Remarks)	
Remarks: Indicators of wetland hydrology were observed				

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	Listed on Local Hydric Soils List					
	ng Conditio			sted on National Hydric Soils List				
		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	<u>166</u> 110 (Onoic)
Remarks:	1 63	110	

(1987 COE Wetlands Delineation Manual)

Project/Site:	Port Columbus International Airport			Date: 8.1.2006
Applicant/Owner:	Columbus Municipal Airport Author	ity		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		High Organic Content in Surface Layer in Sandy Soils					
Sulfidio			Organic Streaking in Sandy Soils					
	Moisture Re			cal Hydric Soils List				
	ng Conditio			tional Hydric Soils L	ist			
X Gleyed	or Low-Ch	roma Colors	Other (Expla	Other (Explain 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		cal Hydric Soils List				
	ng Conditio			tional Hydric Soils Li	ist			
X Gleyed	or Low-Ch	roma Colors	Other (Explain 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	rity		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 potential (If needed, explain		Yes Yes	<u>No</u> <u>No</u>	Data Point #: 64

# **VEGETATION**

Ι	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.

Reco	orded Data (Describe in Remarks):			Wetla	nd Hydrology Indicators:
	Stream, Lake, or Tide Gauge			Pri	mary 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:				
(Series and Pl								
Taxonomy (S				Field Observations				
, ,	<i>D</i> 17			Confirm Mapped T	ype? Yes No			
Profile Descr	iption:				:			
				136.01	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 Streaking 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:			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)

Project/Site: Applicant/Owner: Investigator:	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
				Local Soil Survey Data
	Depth to Saturated Soil:	>4	(in.)	FAC-Neutral Test
	*		• •	Other (Explain in Remarks)
Remai	rks.			

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

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		Organic Streaking in Sandy Soils					
Aquic I	Moisture Re	egime	Listed on Local Hydric Soils List					
Reducii	ng Conditio	ons	Listed on National Hydric Soils List					
		roma Colors	Other (Explain 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 Yes	No	Community ID: Wetland 18
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area?			<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):
	· ·	` ,	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	nots of welland hydrology were observed. This	OUSCI VALIDII	satisfies the hijarorogy officialist.

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 Sanuy Sons			
	•						
or Low-Ch	roma Colors	Other (Explain 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) (Munsell Moist) Abundance/Size/ Contrast  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	rity		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.
$\mathbf{x}$	No Recorded Data Available			Water Marks
1.				Drift Lines
Field	Observations:			Sediment Deposits
1 lold	Objet various.			Drainage Patterns in Wetlands
	Depth of Surface Water:		(in.)	Secondary Indicators (2 or more required):
	Dopar 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:	>4	(in.)	FAC-Neutral Test
	Depin to Saturated Don.	•	()	Other (Explain in Remarks)

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

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			
Hydric Soil I	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 (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	<u>No</u>	
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: 8/8/04
Affiliation: ASC GROUP, INC.
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
Cocation of Wetland include map, address, north arrow, landmarks, distances, roads, etc.
International Gateway  The transport of the transport of
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 V
National Wetland Inventory Map N.E. Columbus
Ohio Wetland Inventory Map
Soil Survey Franklin
Delineation report/map
Wetland Size (acres, hectares)

etch (in	ıclude north arrow, rela	lionship with other surface	waters, vegetation zone	es, etc.)	
				1 ~	
		OLD FIELD			
		2 NO Grow	TH FOREST		
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	GROWTH	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.

:	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
1	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	YES	NO.
	Natural Heritage Database as a high quality wetland?	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	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	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

#	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 <20.2ha)  10 to <25 acres (4 to <10.1ha)  3 to <10 acres (1.2 to <4ha) (0 o.3 to <3 acres (0.12 to <1.2ha)  0.1 to <0.3 acres (0.04 to <0.1 colored)  <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
	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
	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

Name: L. McKINNEY
Date: 8 8 06
Affiliation: ASC GROUP, INC.
Address: 1010 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

‡	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 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	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	
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	YES  Wetland is a Category 3 wetland.	NO 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 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	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 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 9c
		Go to Question 9d	
9 <b>c</b>	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
	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	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 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
	222 (2.9. 22	Complete Quantitative Rating	

woody debris removal

toxic pollutants

farming

nutrient enrichment

subtotal this page

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	37			
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SI	ubtotal this pa	ge ·		•
_	1/2	DE RE		
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)  Lake Erie coastal/tributary wetland-	unenateinted budralogs	(40)
		Lake Erie coastal/tributary wetland-		
		Lake Plain Sand Prairies (Oak Ope		
		Relict Wet Praires (10)	9=/ ( , = /	
		Known occurrence state/federal thr	eatened or endangere	d species (10)
		Significant migratory songbird/water	-	
		Category 1 Wetland. See Question	n 1 Qualitative Rating (	(-10)
, 7	110		·	معالم المستعدد المستع
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
		<ul> <li>Aquatic bed</li> </ul>	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 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
		6b. horizontal (plan view) Interspersion.	J	vegetation and is of high quality
		Select only one.		
		High (5)	Narrative Descripti	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 generallywio presence of rare
		to Table 1 ORAM long form for list. Add	h:	threatened or endangered spp  A predominance of native species, with nonnative spp
		or deduct points for coverage  Extensive >75% cover (-5)	high	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)	SERVICE AND STREET, CONTRACTOR OF THE PARTY	
		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)
		<ul> <li>Vegetated hummucks/tussucks</li> </ul>	2	Moderate 1 to <4ha (2.47 to 9,88 acres)
		Z Coarse woody debris >15cm (6in)	3	High 4ha (9.88 acres) or more
		Standing dead >25cm (10in) dbh		
•		Amphibian breeding pools	Microtopography C	
•			0	Absent Present very small amounts or if more common
			t	of marginal 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
			3	

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Affiliation: ASC GROUP, NC.
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
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e-mail address: LMCKINNEY @ ASCGNOUP. NET
Name of Wetland: WETLAND 3
Vegetation Communit(ies): FORESTED
HGM Class(es): DEFRESSION
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International Gateway  There is a standard in the standard ind the standard in the standard in the standard in the standard in
Lat/Long or UTM Coordinate
USGS Quad Name N.E. COLUMBUS
County  N.E. COLUMBUS  FRANKLIN
Township
Section and Subsection
Hydrologic Unit Code 0506 0001 - 140
Site Visit § 8 0 ¢
National Wetland Inventory Map N.E. Colombus
Ohio Wetland Inventory Map NA
Soil Survey Franklin
Delineation report/map
Wetland Size (acres, hectares)  0.06 AC

Name:			
sketch (include north arrow, relationship with other su	rface waters, vegetation	ı zones, etc.)	
		1	$\sim$
OLO	FIELD		
SECON	о Спошти Fo	n <b>37</b>	
		WETLAND	
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Mowe			_
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Comments, Narrative Discussion, Justification of Cate		•	
FORESTED WETLAN	O IN SECON	SO GROWTH FO	OPLEST
			•
Final score: 39		Category	man 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
y c	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	no 3	Rater(s): L. McKin	ney	Date: 8 8 06
0	0	Metric 1. Wetland A	Area (size).		,
max 6 pts.	sublota!	Select one size class and assign score.  >50 acres (>20.2ha) (6 pts)  25 to <50 acres (10.1 to <20.2ha)  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 <0.12  <0.1 acres (0.04ha) (0 pts)	(4 pts) pts) ) (2pts)		
7	7	Metric 2. Upland bu	uffers and surro	unding land u	se.
max 14 pts.	subtotal	2a. Calculate average buffer width. Sele WIDE. Buffers average 50m (1 MEDIUM. Buffers average 25m NARROW. Buffers average 10	ct only one and assign score. Do 64ft) or more around wetland pering	not double check. meter (7) etland perimeter (4) wetland perimeter (1)	
		LOW. Old field (>10 years), sh	er forest, prairie, savannah, wildlife rubland, young second growth fore ntial, fenced pasture, park, consen	e area, etc. (7) est. (5) vation tillage, new fallow field.	(3)
13.5	20.5	Metric 3. Hydrolog	V.		
max 30 pts.		3a. Sources of Water. Score all that app High pH groundwater (5) Other groundwater (3)		Connectivity. Score all that a 100 year floodplain (1)  Between stream/lake ar	nd other human use (1)
		Precipitation (1) Seasonal/Intermittent surface w Perennial surface water (lake o	r stream) (5) 3d.	Part of wetland/upland ( Part of riparian or uplan Duration inundation/saturatio	d corridor (1)
		3c. Maximum water depth. Select only of >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) (2) <0.4m (<15.7in) (1)		Semi- to permanently in Regularly inundated/sat Seasonally inundated (2 Seasonally saturated in	urated (3) 2)
		3e. Modifications to natural hydrologic re  None or none apparent (12)  Recovered (7)  Recovering (3)  Recent or no recovery (1)	check all disturbances observed ditch tile dike	point source (nonstorm) filling/grading road bed/RR track	water)
			stormwater input	dredging other	
11.5	32	Metric 4. Habitat A	Iteration and De	velopment.	
max 20 pts	. subtotal	4a. Substrate disturbance. Score one of Mone or none apparent (4)  Recovered (3)  Recovering (2)			
		Recent or no recovery (1)  4b. Habitat development. Select only or  Excellent (7)  Very good (6)	ne and assign score.		
		Good (5)  Moderately good (4)  Fair (3)  Poor to fair (2)			
		Poor (1)  4c. Habitat alteration. Score one or dou  None or none apparent (9)	Check all disturbances observed	prior and the second se	
	70	Recovered (6) Recovering (3) Recent or no recovery (1)	mowing grazing clearcutting selective cutting	shrub/sapling removal herbaceous/aquatic be sedimentation dredging	d removal
	32 subtotal this p	age	woody debris removal toxic pollutants	farming nutrient enrichment	

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

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Affiliation: ASC Group, Idc.
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
Cocation 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	
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	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	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	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 8a

#	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
	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, 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	NO
		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	

te:		<u> R</u>	ater(s):	Date:
		1		
	35.5			
		1		
S	ublotal this pa			
0	35.5	Metric 5. Special We	tlands.	
10 pts,	subtotal	Check all that apply and score as indicated.	THE STATE OF STATE	
, ro pto.	oobtotal	Bog (10)		
		Fen (10)		
		Old growth forest (10)	*	
		Mature forested wetland (5)  Lake Erie coastal/tributary wetland	d-unrestricted bydrology /	(10)
		Lake Erie coastal/tributary wetland		
		Lake Plain Sand Prairies (Oak Op		
		Relict Wet Praires (10)		
		Known occurrence state/federal th	- ,	
		Significant migratory songbird/wat		
		Category 1 Wetland. See Questic	on 1 Qualitative Rating (-1	10)
3	38.5	Metric 6 Plant com	nunities inf	terspersion, microtopography
لــــــــــــــــــــــــــــــــــــــ		6a. Wetland Vegetation Communities.	Vegetation Commun	
x 20 pts.	sublotal	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
		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
		Other6b. horizontal (plan view) Interspersion.	3	vegetation and is of high quality
		Select only one.		Togata to the sound of the soun
		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)	bom	Native spp are dominant component of the vegetation,
		Low (1)		although nonnative and/or disturbance tolerant native spi 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
		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)	Mudflat and Open W	Inter Class Overlity
		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 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		•
		The state of the s	Microtopography Co	
		Amphibian breeding pools		Absent
		Amphibian breeding pools	0 1	
		Amphibian breeding pools	1.	Present very small amounts or if more common
		Amphibian breeding pools	1.	Present very small amounts or if more common of marginal quality
		Amphibian breeding pools		Present very small amounts or if more common
		Amphibian breeding pools	1.	Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest

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Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 859 - 746 - 1967
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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 norti	n arrow, relations	hip with other surf	ace waters,	vegetation zor	nes, etc.)	
		WEYLAND				
JWO GAVUNY FRESS		Scaus 1	Synu	3		1590 Growy Dist
		WETLA	105			
						FENCE
Comments, Narrative	e Discussion, Jus	tification of Categ	ory Change	8 Secono	Grown	Fonesy
	•					
Final score :	20 T	entra transcription de la viva de la reconstrucción			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	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	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: 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	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

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35.5			
subtotal this pa	յ <b>e</b> . 1		•
35.5	mm ( " PM Committee LIAKe	. 4.1	
33.5	Metric 5. Special We	itiands.	
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 wetland		
	Lake Plain Sand Prairies (Oak Op		
	Relict Wet Praires (10)		
	Known occurrence state/federal th	reatened or endangered	species (10)
	Significant migratory songbird/wat	er fowl habitat or usage (	(10)
	Category 1 Wetland. See Questic	on 1 Qualitative Rating (-1	10)
7			t to the second
38.5	Metric 6. Plant comr	nunities, int	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 ar
	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
	Mudflats	•	vegetation and is of moderate quality or comprises a sm
	Open water		part and is of high quality  Present and comprises significant part, or more, of wetlan
	Other	3	vegetation and is of high quality
	6b. horizontal (plan view) Interspersion.		vegetation and is of high quarty
	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
	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 virtual
	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)	STEEL STREET, ST. ST. PRINTERS AND ASSOCIATION ASSOCIA	the presence of rare, threatened, or stidating or or opposition
	Nearly absent <5% cover (0)	Mudflat and Open W	Inter Class Ouglity
	Absent (1)	0	Absent <0.1ha (0.247 acres)
	6d. Microtopography.  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		High 4ha (9.88 acres) or more
	Standing dead >25cm (10in) dbh		And the second s
		Microtopography Co	over Scale
	Amphibian breeding pools	0	Absent
		International Control of the Control	Present very small amounts or if more common
		0	Present very small amounts or if more common of marginal quality
		0	Present very small amounts or if more common of marginal quality  Present in moderate amounts, but not of highest
		2	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
		. 1	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, Lac.
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): DEPPLESSION
Location of Wetland include map, address, north arrow, landmarks, distances, roads, etc.
International Gateway  The tree k  The tre
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 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 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
,	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

#	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 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

Site:		Ra	ter(s):		Date:
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	37				•
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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			
	······································	Category 1 Wetland. See Question			
71	41	Metric 6. Plant comm	nunities into	arsnersion, mich	rotopography.
	7/		Vegetation Communit	or Cover Scale	1- 0 1
max 20 pts.	subtotal	6a. Wetland Vegetation Communities.	Vegetation Communic	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 s	mall part of wetland's
•		- Emergent	•	vegetation and is of moderate	quality, or comprises a
		- 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	
		Other	3	Present and comprises significant	
		6b. horizontal (plan view) Interspersion.		vegetation and is of high qual	ILY
		Select only one.	Narrative Description	of Vegetation Quality	
		High (5)  Moderately high(4)	low	Low spp diversity and/or predo	minance of nonnative or
		Moderate (3)		disturbance tolerant native sp	ecles
		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	cies diversity moderate to
		6c. Coverage of invasive plants. Refer		moderately high, but general	
		to Table 1 ORAM long form for list. Add	In 1 to	threatened or endangered sp A predominance of native spec	les with nonnative spp
		or deduct points for coverage	high	and/or disturbance tolerant n	ative spp absent or virtually
		Extensive >75% cover (-5)  Moderate 25-75% cover (-3)		absent, and high spp diversit	y and often, but not always,
		Sparse 5-25% cover (-1)		the presence of rare, threate	ned, or endangered spp
		Nearly absent <5% cover (0)	Specific construit in specific construit and an in the last of the		
		★ 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	,oo aules)
		Coarse woody debris >15cm (6in)	3	High 4ha (9.88 acres) or more	
		Standing dead >25cm (10in) dbh	Minustan aggrada - C-	ver Scale	
		Amphibian breeding pools	Microtopography Co	Absent	
			1	Present very small amounts of	if more common
			· · · · · · · · · · · · · · · · · · ·	of marginal quality	
			2	Present in moderate amounts	but not of highest
		•		quality or in small amounts of	of highest quality
			3	Present in moderate or greate	r amounts
				and of highest quality	THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O

GRAND TOTAL(max 100 pts)

Name: L. McKinney
Date: 8 8 0 6
Affiliation: ASC Grove, No.
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 859 - 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 tree k  Sth Ave  Sth Ave
Lat/Long or UTM Coordinate
USGS Quad Name  N.E. COLIMBUS  County
Township
Section and Subsection
Hydrologic Unit Code 0506001 - 140
Site Visit 8 8 0 4
National Wetland Inventory Map  N. E. Columbus
Ohio Wetland Inventory Map
Soil Survey Franklin
Delineation report/map
Wetland Size (acres, hectares)

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 151	
SILVER MAPLE WETLAND WITH SMALL HUMMOCKS TOPPED WITH LIVE SPHAGNUM. NO PERT, ONLY		
	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.	
10.010	subtotal	Check all that apply and score as indicated.		
10 pts. s	JUOLUCIAI	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 amount falls and the same	
		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 Group, Inc.	
Address: IUIL 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  WETUNO Z  STH. Ave  5th Ave	
Lat/Long or UTM Coordinate  USGS Quad Name	
County  USGS Quad Name  N.E. COLUMBUS  FRANKLIN	
Township	
Section and Subsection	
Hydrologic Unit Code 0506000   - 140	
Site Visit \$1806	
National Wetland Inventory Map  N.E. Coronsoj	
Ohio Wetland Inventory Map	
Soil Survey Franklin	
Delineation report/map	
Wetland Size (acres, hectares)  O. 39 AC	

Name:	
sketch (include north arrow, relationship with other surface waters, vegetation zones, etc.)	. •
STELZER RD	
Sense	
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Shows	
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has	
LN 2º Growth forest	
Comments, Narrative Discussion, Justification of Category Changes	PIN OAK
SECOND GROWTH FORESTED WETLAND DOMINATED BY	,
	•
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L	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	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 <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	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

avoijected maximum attainable agas for a species) tiller or no evidence of human-caused understory disturbance during the past 80 to 100 years; an all-aged structure and mutillayered canopies; aggregations of canopy tress interspersed with canopy agas; and significant numbers of standing dead snags and downed logs?  Butture 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?  Butture forested wetlands. Is the 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?  Butture forested wetlands by the diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?  Butture forested wetlands by the diameters at breast height (dbh), generally deciduous trees with large diameters at breast height (dbh), generally deciduous trees with large diameters at breast height (dbh), generally deciduous trees with a forest date of the evaluation of the devaluous of the evaluation of the object of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of the partially hydrologically restricted from Lake Erie due to lakeward or upland border alterations), or the evaluation at the Erie due to lakeward or upland border alterations, or the evaluation of lakeward or upland border alterations, or the vertical from Lake Brie due to lakeward or upland border alterations, or the vertical of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of the evaluation of	#	Question	Circle one	
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 standing dead snags and downed logs of standing dead snags 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 diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?  a Lake Erfe coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feel on the USGS map, adjacent to this elevation, or along a tributary to Lake Erie that is accessible to fish?  b Does the wetland's hydrology result from measures designed to prevent errosion and the loss of aquatile plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or iandward dikes or other hydrological controls?  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" welland with lake and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatio vegetation.  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?  Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?  Wetland should be evaluated for possible category 3 status Go to Question 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 sub	а	"Old Growth Forest." Is the wetland a forested wetland and is the	YES	(NO)
years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy agas; and significant numbers 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?  Wetland should be evaluated for possible Category 3 status.  Go to Question 9a  Lake Eric coastal and tributary wetfands. 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 Eric that is accessible to fish?  Does the wetland'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 Eric due to lakeward or upland border attentions, or the wetland from Lake Eric due to lakeward or upland border attentions, or the wetland or hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquallo vegetation.  Does the wetland have a predominance of non-native or disturbance tolerant native species can also be present?  Are Lake Plain Sand Pratifes (Oak Openings) is the wetland located in Lucas, Fulton, Henry, or Wood Counties and can the wetland be 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 Disilor of Natural Areas and Preserves can provide assistance in confirming this lype of wetland and listed in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Disilor on Matural Areas and Preserves can provide assistance in confirming this lype of wetland and list quality.  Relict Wet Prairies. Is the wetland a relic		overstory canopy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); little or no evidence		Go to Question 8b
So we more of the cover of upper forest canopy consisting of decideous frees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?  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?  Does the wetland's hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?  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 wetlands 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 aqualto vegetation.  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?  Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities, although non-native or disturbance tolerant native plant species within its vegetation communities?  Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?  Does the wetland have a predominance of non-native or disturbance tolerant native species can also be present?  Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?  Does the wetland have a predominance of the present of the surface, and often with a dominance of the gramineous vegetation listed in Table (1 woody species may also be present). The Ohlo Department of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.  Roicapped to the very plant of the species		years; an all-aged structure and multilayered canopies; aggregations of canopy trees interspersed with canopy gaps; and significant numbers	Go to Question 8b	
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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?  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?  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.  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?  Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?  E Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?  E Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?  E Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?  E Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?  E Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation or native plant species within its vegetation or plant to plant to plant to plant to plant to plant to plant to plant to plant to plant to plant to plant to plant to plant to plant to plant to plant to plant to plant to plant to plant to plant to plant to plant to plant to plant to plant t			Go to Question 9a	
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Does the wetland have a predominance of native species within its vegetation communities, atthough non-native or disturbance tolerant native plant species can also be present?  Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?  Lake Plain Sand Prairies (Oak Openings) is the wetland be characterized by the following description: the wetland be characterized by the following description: the wetland be characterized by the following description: the wetland be characterized by the following description: the wetland be characterized by the following description: the wetland be present). The Ohlo Department of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.  Relict Wet Prairies. Is the wetland a relict wet prairies were formerly located in the Darby Plains (Madison and Union Counties), northwest Ohlo, Eric County, and portions of western Ohio Counties), northwest Ohlo, Eric County, and portions of western Ohio Counties), northwest Ohlo, Eric County, and portions of western Ohio Counties), northwest Ohlo, Eric County, and portions of western Ohio Counties), northwest Ohlo, Eric County, and portions of western Ohio Counties), northwest Ohlo, Eric County, and portions of western Ohio Counties), northwest Ohlo, Eric County, and portions of western Ohio Counties), northwest Ohlo, Eric County, and portions of western Ohio Counties), northwest Ohlo, Eric County, and portions of western Ohio Counties), northwest Ohlo, Eric County, and portions of western Ohio Counties), northwest Ohlo, Eric County, and portions of western Ohio Counties), northwest Ohlo, Eric County, and portions of western Ohio Counties), northwest Ohlo, Eric County, and portions of western Ohio Counties), northwest Ohlo, Eric County, and portions of western Ohio Counties), northwest Ohlo, Eric County, and portions of western Ohio Counties), northwest Ohlo, Eric County, and portions of western Ohio Counties), northwest Ohi				
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 aqualtic vegetation.  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?  Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities, although non-native or disturbance tolerant native plant species within its vegetation communities?  Wetland is a Category 3 wetland Go to Question 10  YES  Wetland should be evaluated for possible Category 3 status  Go to Question 10  YES  Wetland should be evaluated for possible Category 3 status  Go to Question 10  YES  Wetland is a Category 3 status  Go to Question 10  YES  Wetland is a Category 3 status  Go to Question 10  YES  Wetland is a Category 3 status  Go to Question 10  YES  Wetland is a Category 3 wetland.  Go to Question 10  YES  Wetland is a Category 3 wetland.  Go to Question 10  YES  Wetland is a Category 3 wetland.  Go to Question 10  YES  Wetland is a Category 3 wetland.  Go to Question 10  YES  Wetland is a Category 3 wetland.  Go to Question 10  YES  Wetland is a Category 3 wetland.  Go to Question 10  YES  Wetland is a Category 3 wetland.  Go to Question 10  YES  Wetland is a Category 3 wetland.  Go to Question 10  YES  Wetland is a Category 3 wetland.  Go to Question 10  YES  Wetland is a Category 3 wetland.  Go to Question 10  YES  Wetland is a Category 3 wetland.  Go to Question 11  The Ohlo Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.  The Ohlo Department of Natural Resources Division of	b	prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or	Wetland should be evaluated for possible	Go to Question 9
i.e. the wetland is hydrologically unrestricted (no lakeward or upland border alterations), or the wetland can be characterized as an "estuarine" wetland with take and river influenced hydrology. These include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.  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?  Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?  Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?  Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?  Wetland should be evaluated for possible Category 3 status  Go to Question 10  YES  Wetland should be evaluated for possible Category 3 status  Go to Question 10  YES  Wetland is a Category 3 or Question 10  YES  Wetland is a Category 3 or Question 10  YES  Wetland is a Category 3 or Question 10  YES  Wetland is a Category 3 or Question 10  YES  Wetland is a Category 3 or Question 10  YES  Wetland is a Category 3 or Question 10  YES  Wetland is a Category 3 or Question 10  YES  Wetland is a Category 3 or Question 10  YES  Wetland is a Category 3 or Question 10  YES  Wetland is a Category 3 or Question 10  YES  Wetland is a Category 3 or Question 10  YES  Wetland is a Category 3 or Question 10  YES  Wetland is a Category 3 or Question 10  YES  Wetland is a Category 3 or Question 10  Category 3 or Question 10  Category 3 or Question 10  VES  Wetland is a Category 3 or Question 10  YES  Wetland is a Category 3 or Question 10  Category 3 or Question 10  Category 3 or Question 10  Category 3 or Question 10  Category 3 or Question 10  Category 3 or Question 10  Category 3 or Question 10  Category 3 or Question 10  Category 3 or Quest			Go to Question 9d	
Does the wetland have a predominance of non-native or disturbance tolerant native species can also be present?  Boes the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?  Caustion 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 Reasources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.  Relict Wet Prairies. Is the wetland a relict wet prairie community were formerly located in the Darby Plains (Madison and Union Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio, Eric County, and portions of western Ohio Category 3 status  Wetland is a Category Wetland should be evaluated for possible Category 3 wetland.  YES  Wetland is a Category 3 to Question 10  YES  Wetland is a Category 3 to Question 10  YES  Wetland is a Category 3 wetland a Category 3 wetland is a Category 3 wetland.  Go to Question 11  YES  Wetland is a Category 3 wetland is a Category 3 wetland.  Go to Question 11  YES  Wetland should be evaluated for possible Category 3 wetland.  YES  Wetland should be evaluated for possible Category 3 wetland.  YES  Wetland should be evaluated for possible Category 3 wetland.  YES  Wetland should be evaluated for possible Category 3 status	c	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		NO Go to Question 9
native species can also be present?  Poet the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?  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 Ohlo Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.  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  Relict Wet Prairies. Prairies or all of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), Parke Mercer Marini Mentgomery, etc.).  Poet the wetland is a Category 3 wetland is a Category 3 wetland is a Category 3 wetland.  Wetland should be evaluated for possible Category 3 status.  NO  Complete Quantitative Rating Mentgomery, etc.).	d	Does the wetland have a predominance of native species within its	YES	NO
Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?    VES		vegetation communities, although non-native or disturbance tolerant native species can also be present?		Go to Question 9
tolerant native plant species within its vegetation communities?    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 Ohlo Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.    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, Eric County, and portions of western Ohio Category 3 status    Wetland should be evaluated for possible and the valuation of the species in Table 1. Extensive prairies were formerly located in the Darby Plains (Madison and Union Counties), northwest Ohlo, Eric County, and portions of western Ohio Category 3 status    Wetland should be evaluated for possible category 3 wetland.   Wetland should be evaluated for possible category 3 status   NO   Wetland should be evaluated for possible category 3 status   NO   Wetland should be evaluated for possible category 3 status   NO   Wetland should be evaluated for possible category 3 status   NO   Wetland should be evaluated for possible category 3 status   NO   Wetland should be evaluated for possible category 3 status   NO   Wetland should be evaluated for possible category 3 status   NO   Wetland should be evaluated for possible category 3 status   NO   Wetland should be evaluated for possible category 3 status   NO   Wetland should be evaluated for possible category 3 status   NO   Wetland should be evaluated for possible category 3 status   NO   Wetland should b			Go to Question 10	
Wetland should be evaluated for possible Category 3 status  Go to Question 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 Ohlo Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.  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), northwest Ohio, Erie County, and portions of western Ohio Counties), northwest Ohio, Erie County, and portions of western Ohio	e	Does the wetland have a predominance of non-native or disturbance	YES	NO
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 Ohlo Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.  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 Ohlo, Erie County, and portions of western Ohio Counties (e.g. Darke, Marcer, Miami, Mentoprery, etc.).  YES  Wetland is a Category 3 wetland.  Go to Question 11  YES  Wetland should be evaluated for possible Category 3 status  Complete Quantitative Rating		tolerant native plant species within its vegetation communities?	evaluated for possible	Go to Question 1
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 Ohlo Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.  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, Eric County, and portions of western Ohio Category 3 status  Go to Question 11  YES  Wetland is a Category 3 wetland.  Go to Question 11  YES  Wetland should be evaluated for possible Category 3 status  Category 3 status			Go to Question 10	
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gramineous vegetation listed in Table 1 (woody species may also be present). The Ohlo Department of Natural Resources Division of Natural Areas and Preserves can provide assistance in confirming this type of wetland and its quality.  1 Retict 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 Category 3 status  Guantitative Rating		characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within		Go to Question 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 Counties (e.g. Darke, Marcer, Marii, Montgomery, etc.).  Wetland should be evaluated for possible Category 3 status Category 3 status		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	Go to Question 11	
Counties (e.g. Darke, Mercer, Miami, Monigomery, etc.).	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
Rating		Counties (e.g. Darke, Mercer, Mathi, Montgomery, etc.).	Complete Quantitative Rating	AMERICAN MARKET DE TOTA INVESTMENT TRADA NOME PRIM AT LES A MARKET.

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^	49	Metric 5. Special Wet	tianas.	
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-		
		Lake Plain Sand Prairies (Oak Ope		
		Relict Wet Praires (10)		
		Known occurrence state/federal three	eatened or endangered	species (10)
		Significant migratory songbird/wate	r fowl habitat or usage (	(10)
		Category 1 Wetland. See Question	n 1 Qualitative Rating (-1	10)
				i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i
5	49	Metric 6. Plant comm	nunities, int	terspersion, microtopography
20 pts.	sublolal	6a. Wetland Vegetation Communities.	Vegetation Commun	ity 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  Present and either comprises significant part of wetland's
		a Forest	2	vegetation and is of moderate quality or comprises a small
		- Mudflats		part and is of high quality
		Open water Other	3	Present and comprises significant part, or more, of wetland's
		6b. horizontal (plan view) Interspersion.	<b>u</b>	vegetation and is of high quality
		Select only one.	<u> </u>	
		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 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	hìgh	A predominance of native species, with nonnative spp
		or deduct points for coverage  Extensive >75% cover (-5)	mgn	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)	And the state of t	
		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)
		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	Minus	over Scale
		<ul> <li>Amphibian breeding pools</li> </ul>	Microtopography Co	Absent
			0	Present very small amounts or if more common
			.1	
			1	
				of marginal quality Present in moderate amounts, but not of highest
			2	
				of marginal quality Present in moderate amounts, but not of highest

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, vegetation	zones, etc.)
€N	
STELZER ROMP	
Fence	
Mowco	
8 / > / )	
John Contract Start	
a⇔0	
200 GROWTH F	FOREST
Comments, Narrative Discussion, Justification of Category Changes	
SECOND GROWTH FORESTED WETLAND DOMINATE	D BY PIN DAK
DECOND GUOTHIA HOLOSION DE	
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

subtolal this page

Site:		Ra	ter(s):		Date:
		<b>-</b>			
	27				
	37	j	•		
	ublotal this pa	ge <b>1</b>			
5	42	Matric & Special Wet	lande		
	<u> </u>	Metric 5. Special Wet	iaiius.		
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		10)	
		Lake Erie coastal/tributary wetland-r			
		Lake Plain Sand Prairies (Oak Oper Relict Wet Praires (10)	ungs) (TU)		
		Known occurrence state/federal thre	atened or endangered	species (10)	
		Significant migratory songbird/water			
		Category 1 Wetland. See Question			
. <u></u>					
5	47	Metric 6. Plant comm	iunities, int	erspersion, mi	crotopograpity.
max 20 pts.	sublotal	6a. Wetland Vegetation Communities.	Vegetation Commun	ity 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 comprise	ate quality, or comprises a
		- Emergent		significant part but is of low	
		Shrub Forest	2	Present and either comprise	s significant part of wetland's
		Sprest Mudflats	<b>-</b>	vegetation and is of moder	ate quality or comprises a small
		- Open water		part and is of high quality	
* .			3		ficant part, or more, of wetland's
		6b. horizontal (plan view) Interspersion.		vegetation and is of high q	uality
		Select only one.	v von Brandrike	Nonetation Quality	· · · · · · · · · · · · · · · · · · ·
		High (5)	low	n of Vegetation Quality	dominance of nonnative or
		Moderately high(4)  Moderate (3)	(OA)	disturbance tolerant native	
		Moderately low (2)	mod	Native spp are dominant cor	nponent of the vegetation,
		Low (1)		although nonnative and/or	disturbance tolerant native spp
		✓ None (0)		can also be present, and s	species diversity moderate to
		6c. Coverage of invasive plants. Refer		moderately high, but gene	
		to Table 1 ORAM long form for list. Add	1.1	A predominance of native sp	
	*.	or deduct points for coverage	high	and/or disturbance tolerar	t native spp absent or virtually
		Extensive >75% cover (-5)  Moderate 25-75% cover (-3)		absent, and high spp dive	rsity and often, but not always,
		Sparse 5-25% cover (-1)		the presence of rare, three	atened, or endangered spp
		Nearly absent <5% cover (0)	OTERNIAN TAKEN PROPERTY AND ASSESSMENT OF THE PROPERTY OF THE		
		Absent (1)	Mudflat and Open W	later Class Quality	
		6d. Microtopography.	0	Absent <0.1ha (0.247 acres	
		Score all present using 0 to 3 scale.	11	Low 0.1 to <1ha (0.247 to 2 Moderate 1 to <4ha (2.47 to	
		Vegetated hummucks/tussucks	2 3	High 4ha (9.88 acres) or mo	
		<ul><li>Coarse woody debris &gt;15cm (6in)</li><li>Standing dead &gt;25cm (10in) dbh</li></ul>	<u></u>	Tright ma (clos dates) of ma	
		- Amphibian breeding pools	Microtopography C	over Scale	
		the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the 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	0	Absent	
			1	Present very small amounts	s or if more common
				of marginal quality	to but not of biobact
			2	Present in moderate amoun	ns, but not of nighest is of highest quality
			3	Present in moderate or great	
•				and of highest quality	

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			
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	le difference of Codonous Chris	0000		
Comments, Narrative Discussion, .				Pul CAV
SECOND GROWTH	FORESTED WETLAN	O DOWINA	ED 67	112 0112
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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	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?	YES Wetland is a Category 3 wetland. Go to Question 8b	NO 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

Site:	<del></del>	Rs	iter(s):	Date:
Site.		JIX	1161(5).	
		7		
	38			
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	ublotal this pa	ge		
5	43	Metric 5. Special We	flande	
		ral "	lialias.	
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	(10)
		Lake Erie coastal/tributary wetland	restricted hydrology (5)	
		Lake Plain Sand Prairies (Oak Ope	nings) (10)	
		Relict Wet Praires (10)		
		Known occurrence state/federal the		
		Significant migratory songbird/water		
·	·	Category 1 Wetland. See Question	n 1 Qualitative Rating (-	10)
	48	MA (win C Dinner and and and	aumidiaa lad	forenersian microtonography
ک	70			terspersion, microtopography.
max 20 pts.	subtotal	6a. Wetland 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
		- Emergent	•	significant part but is of low quality
		Shrub 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
	-	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.		
		High (5)		n of Vegetation Quality
		Moderately high(4)	low	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species
		Moderate (3)		Native spp are dominant component of the vegetation,
		Moderately low (2)	mod	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
		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)		
		Absent (1)	Mudflat and Open V	
		6d. Microtopography.	0	Absent <0.1ha (0.247 acres)  Low 0.1 to <1ha (0.247 to 2.47 acres)
		Score all present using 0 to 3 scale.	1	Moderate 1 to <4ha (2.47 to 9.88 acres)
		Vegetated hummucks/tussucks	2 3	Moderate 1 to <4na (2.47 to 9.66 acres)  High 4ha (9.88 acres) or more
		2 Coarse woody debris >15cm (6in)	3	Friight wha (0.00 acres) of more
		Standing dead >25cm (10in) dbh Amphibian breeding pools	Microtopography C	over Scale
		Amphibian breeding pools	Microropography C	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

48 GRAND TOTAL(max 100 pts)

and of highest quality

Name: L. McKINNEY
Date: 8 8 06
Affiliation: ASC Group, Hc.
Address: 1616 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
Cocation of Wetland include map, address, north arrow, landmarks, distances, roads, etc.
Thermational Gateway  Thermational Gateway  Will Ave  5th 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 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.)
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 affirm of the state of the		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, COMME	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)

<del></del>	· · · · · · · · · · · · · · · · · · ·
Name: L. McKINNEY	
Date: 8 8 06	
Affiliation: ASC GROUP, NC.	
Address: 1016 BURLINGTON PIKE, FLORE	ENCE, 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	
Coation of Wetland include map, address, north arrow, landm	arks, distances, roads, etc.
International Gateway  Wid a Sth Ave  5th Ave	Sign Walnut Creek
Lat/Long or UTM Coordinate	
USGS Quad Name N. E	. COLUMBUS
County Fn	ANKLIN
Township	
Section and Subsection	
Hydrologic Unit Code 05	06 0001 - 140
Site Visit	8/8/06
National Wetland Inventory Map ${\cal N}$ .	E - Corumsus
Ohio Wetland Inventory Map	NIA
Soil Survey	P. aniklin
Delineation report/map	
Wetland Size (acres, hectares)	0.079 AC

Name:
sketch (include north arrow, relationship with other surface waters, vegetation zones, etc.)
NT
SECOND GROWTH FOREST
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Comments, Narrative Discussion, Justification of Category Changes  ORDER DEPOESSIONAL AREKS DOMINATED BY
SMALL EMERGENT DEPRESSIONAL ARENS DOMINATED BY JUNEUS EFFUSUS AND SCINDS CYPERINUS
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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
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
<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 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	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	420	DA-	-120		Rater(s):	L. Mc	KINNE	۲	Date:	8 8 106
0	0	  Metr	ic 1.	Wetla	nd	Area (siz	ze)				
max 6 pts.	subtotal		e size cla >50 acres 25 to <50 10 to <25 3 to <10 s 0.3 to <3 0.1 to <0.	ss and assign: s (>20.2ha) (6 acres (10.1 to acres (4 to <1 acres (1.2 to <4 acres (0.12 to 3 acres (0.04 to s (0.04ha) (0 p	score. pts) <20.2 (0.1ha) (4ha) (3 <1.2ha co <0.1	tha) (5 pts) (4 pts) 3 pts) a) (2pts)	.e.j.				
4	4	Metr	ic 2.	Uplan	d b	uffers ar	nd surr	oune	ding land	use.	
max 14 pts.	sublotal	2a. Calcu	late avera WIDE. B MEDIUM. NARROV	age buffer widtl uffers average Buffers avera V. Buffers aver	h. Seli 50m (1 age 25i rage 10	ect only one and a 164ft) or more ard m to <50m (82 to 0m to <25m (32ft rage <10m (<32ft	assign score. Fund wetland p <164ft) around to <82ft) arou	Do not do perimeter d wetland and wetlan	ouble check. (7) perimeter (4) d perimeter (1)		
		2b. Inten	sity of sum VERY LO LOW. OII MODERA	rounding land to W. 2nd growth d field (>10 yea TELY HIGH. I	use. S h or old ars), sh Reside	Select one or dout der forest, prairie, nrubland, young s	ole check and savannah, wii econd growth ure, park, con	average. Idlife area forest. (5) servation	, etc. (7) tillage, new fallow fie	eld. (3)	
6.5	10.5	Metr	ic 3.	Hydro	log	у.					
max 30 pts.	subtotal	3a. Sourc	ces of Wat High pH g Other gro Precipitati Seasonal Perennial num wate >0.7 (27.6	er. Score all the proundwater (5) undwater (3) ion (1) //Intermittent su surface water r depth. Selec	hat apr irface v (lake o	oly. water (3) or stream) (5) one and assign so		3d. Durat	ectivity. Score all than 100 year floodplain ( Between stream/lake Part of wetland/uplar Part of riparian or up ion inundation/sature Semito permanent! Regularly inundated/	1) e and other hum nd (e.g. forest), land corridor (1 ation. Score on y inundated/sat /saturated (3)	complex (1) ) e or dbl check.
			<0.4m (<	15.7in) (1)		egime. Score one	or double ch		Seasonally inundate Seasonally saturated verage.		(12in) (1)
		<u>×</u>	Recovere Recoverir	• •		Check all disturb		X	point source (nonsto filling/grading road bed/RR track dredging other	irmwater)	
3	13.5	Metr	ic 4	Habita	- at Δ	Iteration	and C	level	opment.	4	
max 20 pts.	subtotal	4a. Subs	trate distu None or r Recovere Recoveri Recent o	rbance. Score none apparent ed (3) ng (2) r no recovery (	one o (4)	or double check ar	nd average.		opmone.		
		4b. Habi	Excellent Very goo Good (5) Moderate Fair (3) Poor to fa	(7) d (6) ely good (4)	only o	ne and assign sco	ore.				
	13.5		None or Recoveri Recoveri	none apparent ed (6)	(9)	Check all disturt mowing grazing clearcuttin selective of woody det toxic pollut	pances observations of the control o		shrub/sapling remove herbaceous/aquatic sedimentation dredging farming nutrient enrichment	bed removal	

Site:		R	ater(s):	Date:
· r				
	3.5			
subto	tal this pag	9		
0	13.5	Metric 5. Special We	tlands	
nax 10 pts. s	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		0)
		Lake Erie coastal/tributary wetland		
		Lake Plain Sand Prairies (Oak Op	enings) (10)	
		Relict Wet Praires (10)  Known occurrence state/federal to	restened or endangered s	pecies (10)
		Significant migratory songbird/wal		
		Category 1 Wetland. See Question		
		)		
2 1	5.5	Metric 6. Plant comi	munities, inte	erspersion, microtopography.
	sublotal	6a. Wetland Vegetation Communities.	Vegetation Communit	v Cover Scale
iax zu pis.	30010181	Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) configuous area
		O Aquatic bed	1	Present and either comprises small part of wetland's
		/ Emergent		vegetation and is of moderate quality, or comprises a
		<b>⊘</b> 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
		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.		- Vogotatori and to be a 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)	rngri .	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)	And the second s	
		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)
		O Vegetated hummucks/tussucks	2	Moderate 1 to <4ha (2.47 to 9.88 acres)
		O Coarse woody debris >15cm (6ii		High 4ha (9.88 acres) or more
		O Standing dead >25cm (10in) dbh		uon Canla
		O Amphibian breeding pools	Microtopography Co	Absent
			1	Present very small amounts or if more common
			•	l ·
				of marginal 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

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Date: 8 8 06
Affiliation: ASC Group, Lic.
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 859 - 746 - 1967
e-mail address: LMCKINNEY @ ASCGNOUP. NET
Name of Wetland: W 13
Vegetation Communit(ies): EMERGENT
HGM Class(es): DEPRESSION
Cocation of Wetland include man, address, north arrow, landmarks, distances, roads, etc.
Thernational Gateway  17th the  Sth Ave  Sth Ave
Lat/Long or UTM Coordinate
USGS Quad Name  N.E. COLUMBUS  County  FRANKLIN
Township Franklia
Section and Subsection
Hydrologic Unit Code O5060001 - 140
Site Visit
National Wetland Inventory Map  N.E. Columbus
Ohio Wetland Inventory Map
Soil Survey Franklin
Delineation report/map
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	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

#	Question	Circle one	
Ba	"Old Growth Forest." Is the wetland a forested wetland 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	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	
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	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	ИО
	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	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	
e 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 10
		Go to Question 10	
10	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in	YES	100
	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	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	

14	Site:	WETL.	120	13		Rater(s):	L. N	1 CKINNEY	Date:	8/8/06
	ì	١	Met	tric 1.	Wetland	l Area (siz	e).			
ľ	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 scor >20.2ha) (6 pts) cres (10.1 to <2( cres (4 to <10.1) res (1.2 to <4ha) cres (0.12 to <1.2 acres (0.04 to <0 (0.04ha) (0 pts)	ne. D.2ha) (5 pts) na) (4 pts) . (3 pts) 2ha) (2pts)				
	3	4	Met	ric 2.	Upland	buffers an	d surro	unding land	use	
-	max 14 pts.	sublotal	2a. Cal	culate averagi WIDE. Buff MEDIUM. E NARROW.	e buffer width. S ers average 50m Buffers average 2 Buffers average	elect only one and a n (164ft) or more arou 25m to <50m (82 to <	ssign score. Do und wetland peri <164ft) around w to <82ft) around	not double check. meter (7) etland perimeter (4) wetland perimeter (1)		
F			2b. Inte	NSITY OF SURFOLD VERY LOW LOW. Old F	inding land use. . 2nd growth or ield (>10 years), ELY HIGH. Resi	Select one or double older forest, prairie, shrubland, young se	e check and ave savannah, wildlif cond growth fore re, park, consen	rage. e area, etc. (7) est. (5) vation tillage, new fallow fi	eld. (3)	
	9.5	13.5	Met	ric 3. I	Hydrolo	qv.				
	max 30 pts.	subtotal	3a. Sou	rces of Water	. Score all that a undwater (5)	apply.	3b.	Connectivity. Score all th	at apply.	
				Other groun Precipitation Seasonal/In	dwater (3)	e water (3) e or stream) (5)	3d	Between stream/lake Part of wetland/uplare Part of riparian or up Duration inundation/sature	e and other hum nd (e.g. forest), land corridor (1	complex (1)
	· * *.		· 😾	imum water d >0.7 (27.6in 0.4 to 0.7m <0.4m (<15.	epth. Select onl ) (3) (15.7 to 27.6in) ( 7in) (1)	y one and assign sco	ore,	Semi- to permanenti Regularly inundated. Seasonally inundate	y inundated/sati /saturated (3) d (2)	urated (4)
_				None or nor Recovered ( Recovering	e apparent (12)	Check all disturbated ditch tile dike weir stormwater i	ances observed	point source (nonsto filling/grading road bed/RR track dredging other	rmwater)	
	6	19.5	Met	ric A I	Jahitat .	^ Itoration	and Da	velopment.		
L	max 20 pts.	subtotal	4a. Sub	strate disturba	ance. Score one	or double check and	and De	veiopment.		
			4b. Hab	Recovered Recovering Recent or notated	(2) o recovery (1) ent. Select only	one and assign scor	e.			
				Excellent (7 Very good ( Good (5) Moderately	6)					
			4c. Hab	Fair (3) Poor to fair Poor (1) Ditat_alteration	. ,	ouble check and ave	rage.		· ·	
	Si	19.5		Recovered Recovering		Check all disturbations of the control of the contr	tting is removal	shrub/sapling remove herbaceous/aquatice sedimentation dredging farming nutrient enrichment		
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subtotal th	nis page			•
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0 19.	M  C	etric 5. Special W	etlands.	•
x 10 pts. subto	otal Che	ck all that apply and score as indicate	d.	
-		Bog (10)		
		Fen (10)		
		Old growth forest (10)		
		Mature forested wetland (5)		(40)
		Lake Erie coastal/tributary wetla		
		Lake Erie coastal/tributary wetla		<b>)</b>
	. •	Lake Plain Sand Prairies (Oak (	Openings) (10)	
		Relict Wet Praires (10)	t the same and an analysis are	d anguing (10)
		Known occurrence state/federa		
		Significant migratory songbird/v	vater towi napitat or usage	10)
		Category 1 Wetland. See Ques	silon i Qualitative Rating (-	. 10)
-1   18.	5 M	strice Blant con	munities in	terspersion, microtopography.
1 10.		etric o. Flant con	illiulliu65, ill	teraperatori, improva pagari
x 20 pts. subto		Wetland Vegetation Communities.	Vegetation Commun	Absent or comprises <0.1ha (0.2471 acres) contiguous area
	Sco	ore 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		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
	خام	horizontal (plan view) Interspersion.		vegetation and is of high quality
		ect only one.		
	36	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
		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, the presence of rare, threatened, or endangered spp
		Sparse 5-25% cover (-1)		the presence of rare, inteatened, or endanguist app
		Nearly absent <5% cover (0)		at the Office Overline
		Absent (1)		Water Class Quality Absent <0.1ha (0.247 acres)
		. Microtopography.	0	Low 0.1 to <1ha (0.247 to 2.47 acres)
	Sc	ore all present using 0 to 3 scale.	1	Moderate 1 to <4ha (2.47 to 9.88 acres)
		Vegetated hurnmucks/tussuck		High 4ha (9.88 acres) or more
		Coarse woody debris >15cm (		Thigh this to be detected in the second
		Standing dead >25cm (10in) o	Microtopography C	Pover Scale
		Amphibian breeding pools	Microtopography C	Absent
			1	Present very small amounts or if more common
				and the property of the control of t
				of maroinal quality
				of marginal quality  Present in moderate amounts, but not of highest
			2	Present in moderate amounts, but not of highest
•	. :			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
•	. :		2	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 GROUP, 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 Township
Section and Subsection
Hydrologic Unit Code 05060001 - 140
Site Visit 8 1 0 6
National Wetland Inventory Map  N-E - Cocumbus
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)		
NETTEN	TY A		
INTERNATIO	ONAL GATEWAY		
		TAXIWM	
		TE TURNS	
	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
	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	
b	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
	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	
С	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
ld	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 1
		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	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, Eric Country, and portions of western Ohio	Wetland should be evaluated for possible Category 3 status	Complete Quantitative Rating
	Countles (e.g. Darke, Mercer, Miami, Montgomery, etc.).	Complete Quantitative Rating	

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subtotal this pag	ge		
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0 20.5	Metric 5. Special Wet	tlands.	
10 pts. subtotal	Check all that apply and score as indicated.		
10 pts. Subtotal	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 Oper		
	Relict Wet Praires (10)		
	Known occurrence state/federal thro	eatened or endangered s	species (10)
	Significant migratory songbird/wate		
	Category 1 Wetland. See Question		
-1   19.5	Motric & Plant comm	nunities into	erspersion, microtopography
1 1 110		Vegetation Communit	or Cover Seeds
20 pts. subiotal	6a. Wetland Vegetation Communities.		Absent or comprises <0.1ha (0.2471 acres) contiguous area
	Score all present using 0 to 3 scale.	1	Present and either comprises small part of wetland's
•	O Aquatic bed	ł	vegetation and is of moderate quality, or comprises a
	/ Emergent	•	significant part but is of low quality
	O Shrub		Present and either comprises significant part of wetland's
	O Forest	2	vegetation and is of moderate quality or comprises a small
	O Mudflats		part and is of high quality
	Open water		Present and comprises significant part, or more, of wetland
	O Other	3	vegetation and is of high quality
•	6b. horizontal (plan view) Interspersion.		vegetation and is of high quality
	Select only one.	N. W. B. B. Bartellan	-f Variation Ounling
	High (5)	( <del></del>	of Vegetation Quality  Low spp diversity and/or predominance of nonnative or
	Moderately high(4)	low	disturbance tolerant native species
	Moderate (3)		Native spp are dominant component of the vegetation,
	Moderately low (2)	mod	although nonnative and/or disturbance tolerant native spp
	Low (1)		can also be present, and species diversity moderate to
			moderately high, but generallyw/o presence of rare
	6c. Coverage of invasive plants. Refer		<b>.</b>
	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,
	Sparse 5-25% cover (-1)	-	the presence of rare, threatened, or endangered spp
	Nearly absent <5% cover (0)		en de la companya de la companya de la companya de la companya de la companya de la companya de la companya de
	Absent (1)	Mudflat and Open Wa	
	6d. Microtopography.	00	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 (6in)	3	High 4ha (9.88 acres) or more
	O Standing dead >25cm (10in) dbh		
	/ Amphibian breeding pools	Microtopography Co	ver Scale
	operation and the second secon	0	Absent
	•	1	Present very small amounts or if more common
			of marginal quality
		2	Present in moderate amounts, but not of highest
		2	quality or in small amounts of highest quality
		3	Present in moderate amounts, but not of highest quality or in small amounts of highest quality  Present in moderate or greater amounts  and of highest quality

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Date: 8/1/06
Affiliation: ASC Group, Lic.
Address: 1016 BURLINGTON PIKE, FLORENCE, KY 41042
Phone Number: 859 - 746 - 1967
e-mail address: LMCKINNEY @ ASCGNOUP. NET
Name of Wetland: WETLAND 15a - 15e
Vegetation Communit(ies): EMENGENT
HGM Class(es): DEPRESSION
Coation of Wetland include man, address, north arrow, landmarks, distances, roads, etc.
The spin stown of the state of
Lat/Long or UTM Coordinate  USGS Quad Name
N.E. COLUMBIO
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.)	
			· · · · · · · · · · · · · · · · · · ·	
	RUNWA	1		
		WETLAND		$\rightarrow$
		W51 C.X.5		
		BUSINESSES		
				mintage or an extraction of the second
<u> </u>	INTERNATIONAL GATEN.	ry		
·				
	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

., 1		Circle one	
#	Question	Circle one	
Ва	"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	(NO) Go to Question 8b
	of standing dead snags and downed logs?		
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 (17.7ln) 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 di a 10
	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	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 9c
		Go to Question 9d	
9 <b>c</b>	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
-	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	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 several inches of the surface, and often with a dominance of the	Wetland is a Category 3 wetland.	Go to Question 11
	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 Rating
		Complete Quantitative Rating	

Site:	WETL	AND	15a-1	5e		Rater(s):	L. McK	リルシモ	4	Date:	8/1/06
	1	Metr	ic 1.	Wetlan	d A	Area (si:	ze).				• •
max 6 pts.	sublotal 	Select or	e 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 sc >20.2ha) (6 ptroces (10.1 to < cres (4 to <10. res (1.2 to <4h cres (0.12 to <1 acres (0.04 to (0.04ha) (0 pts	ore. s) 20.2h 1ha) a) (3 l.2ha) <0.12	na) (5 pts) (4 pts) pts) ) (2pts)	-0).				
3	4	Metr	ic 2. I	Jpland	bι	uffers au	nd surre	oun	ding land u	se.	
max 14 pts.	sublotal	2a. Calcu	Ilate average WIDE. Buff MEDIUM. E NARROW. VERY NARI Sity of surrouvERY LOW. Old f MODERATE	e buffer width, ers average 50 Buffers average Buffers average ROW. Buffers Inding land use 2nd growth of ield (>10 years ELY HIGH. Re	Sele Om (1 e 25m ge 10 avera e. Se or olde s), shr esider	ct only one and a 64ft) or more arc in to <50m (82 to im to <25m (32ft age <10m (<32ft elect one or dout er forest, prairie, rubland, young s	assign score. Description of the control of the con	Do not derimeter wetland wetland wetland perimeter werage. Illife area prest. (5 ervation	ouble check. (7) d perimeter (4) nd perimeter (1) leter (0) a, etc. (7) b) tillage, new fallow field		
9.5	13.5	Metr	ic 3. I	Hydrold	)a	<b>v.</b>					
max 30 pts.	sublotal	3a. Source	ces of Water High pH gro Other groun Precipitatior Seasonal/In Perennial su num water d >0.7 (27.6in 0.4 to 0.7m <0.4m (<15.	. Score all tha undwater (5) dwater (3) (1) termittent surface water (laepth. Select o) (3) (15.7 to 27.6in 7in) (1)	ace wake or nly or	y. ater (3)	3d ore.	d. Dura	nectivity. Score all that a 100 year floodplain (1) Between stream/lake ar Part of wetland/upland ( Part of riparian or uplan- tion inundation/saturatio Semi- to permanently in Regularly inundated/sat Seasonally inundated (2 Seasonally saturated in verage.	ed other hur e.g. forest), d corridor (1 n. Score or undated/sa urated (3)	complex (1) I) ne or dbl check. turated (4)
			None or nor Recovered Recovering	ie apparent (12 (7)	11	Check all disturb ditch tile dike weir stormwater	ances observed		point source (nonstorm) filling/grading road bed/RR track dredging other_	vater)	
6	19.5	Metr	ic 4	-lahitat	ΙΔ	teration	and Do	27/2	lopment.		
max 20 pts.	subtotal	4a. Subs	trate disturb None or nor Recovered Recovering Recent or n	ance. Score one apparent (4) (3) (2) o recovery (1) ent. Select on	ne or	double check and	d average.	eve	iopineit.		
		4c. Habii	Moderately Fair (3) Poor to fair Poor (1) tat alteration	(2)  Score one one one apparent (9)	F	ole check and av Check all disturi	7 - Year	ed	shrub/sapling removal		
	19.5	X age	Recovering Recent or r	(3) no recovery (1)		grazing clearcutting selective c	utting ris removal	×	herbaceous/aquatic bed sedimentation dredging farming nutrient enrichment	i removal	

ORAM v. 5.	0 Field For	m Quantitative Rating			<u> </u>
Site:		Rat	er(s):		Date:
<u></u>	·	1			
	19.5				
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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 i i i ili.	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)



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
<b>1</b>	•					
<b>N</b> .						
		,				
						. •
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		. ** ** · · ·		> SRIVE		
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			/	<b>/</b>		
						٠
				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, Monagomery, 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	use		
2	18.5	Metric 5. Special We	tlands.	•
		4		•
10 pls.	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	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
			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
		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)	high	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
		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)		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
		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)	high	although nonnative and/or disturbance tolerant native sp 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 offen, but not always, the presence of rare, threatened, or endangered spp  ter Class Quality  Absent <0.1ha (0.247 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 Wa	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)
		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)
		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	high  Mudflat and Open War  0 1 2 n) 3	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)  High 4ha (9.88 acres) or more
		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 O Coarse woody debris >15cm (6it	high  Mudflat and Open War  0  1  2  n) 3	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)  High 4ha (9.88 acres) or more
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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	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)  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
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Date: 8 1 06
Affiliation: ASC Grove, Inc.
Address: IVIL 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): EMENGENT
HGM Class(es): DEPRESSION
International Gateway  Will  Sth Ave  Sth Ave
Lat/Long or UTM Coordinate  USGS Quad Name
County  USGS Quad Name  N.E. COLUMBUS  FRANKLIA
Township
Section and Subsection
Hydrologic Unit Code 05060001 - 140
Site Visit 8 1 06
National Wetland Inventory Map N. E. Columbia
Ohio Wetland Inventory Map NA
Soil Survey Fr. aniclin
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.	Go to Question 9d 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 (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  Complete Quantitative Rating	Complete Quantitative Rating

Site:	WETL	1NO	17a - 17i	Rater(s):	L. McKin	JEY	Date:	8/1/06
2	2		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) pts) (2pts)				
1	3	Met	ric 2. Upland b	uffers aı	nd surrou	ınding land u	se	
max 14 pts.	subtotal	2a. Ca	Iculate average buffer width. Sele WIDE. Buffers average 50m (* MEDIUM. Buffers average 25r NARROW. Buffers average 10 VERY NARROW. Buffers average 30 very NARROW. Buffers average 30 very NARROW. 2nd growth or old LOW. Old field (>10 years), sh MODERATELY HIGH. Resided HIGH. Urban, industrial, open	ect only one and a 164ft) or more are in to <50m (82 to 0m to <25m (32ft rage <10m (<32ft select one or doul ler forest, prairie, rubland, young s intial, fenced past	assign score. Do no bund wetland perime <164ft) around wetl to <82ft) around wet around wetland pe ble check and avera savannah, wildlife a econd growth forest ure. park. conserval	ot double check, eter (7) and perimeter (4) etland perimeter (1) erimeter (0) ge. area, etc. (7) . (5)		
8,5	11.5	Met	ric 3. Hydrolog		, 5, 5,			
max 30 pts.	subtotal	3a. Soil	urces of Water. Score all that app High pH groundwater (5) Other groundwater (3) ✓ Precipitation (1)	/ater (3) /ater (3) r stream) (5) ne and assign sc	3d. D	onnectivity. Score all that a  100 year floodplain (1) Between stream/lake ar Part of wetland/upland ( Part of riparian or uplan uration inundation/saturatio Semi- to permanently in Regularly inundated/sat Seasonally inundated (2 Seasonally saturated in d average.	nd other hum (e.g. forest), d corridor (1 n. Score on lundated/sati urated (3)	complex (1) ) e or dbl check. urated (4)
				Check all disturb ditch tile dike weir stormwater	ances observed	point source (nonstorm) filling/grading road bed/RR track dredging other	vater)	
5.5	17	Met	ric 4. Habitat Al	Itoration	and Dave	-1		
max 20 pts.	subtotal	4a. Sut	ostrate disturbance. Score one or	double check an	and Devi d average.	elopment.		
		-  -  -  -  -	None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) Ditat development. Select only on Excellent (7) Very good (6) Good (5) Moderately good (4)					
	•	4c. Hat	Fair (3) Poor to fair (2) Poor (1) Potat alteration. Score one or dout	ole check and ave	erage			
	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 is 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	iunities. 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 attoret distance
		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

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Date: 8/1/06
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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)

Comments, Narrative Discussion, Justification of Category Changes  VEGETATIVE (CATTAIL) SWALE  Final score: 10 Category	Name:					
Comments, Narrative Discussion, Justification of Category Changes  VEGETATIVE (CATTAIL) SWALE	sketch (include north arrow, rel	ationship with other surf	ace waters, vegetatio	n zones, etc.)		
Comments, Narrative Discussion, Justification of Category Changes  VEGETATIVE (CATTAIL) SWALE						
Comments, Narrative Discussion, Justification of Category Changes  VEGETATIVE (CATTAIL) SWALE		· .				
Comments, Narrative Discussion, Justification of Category Changes  VEGETATIVE (CATTAIL) SWALE		5-TH A. 1-	•			
PARKING LOT  Comments, Narrative Discussion, Justification of Category Changes  VEGETATIVE (CATTAIL) SWALE		J - AVE				
Comments, Narrative Discussion, Justification of Category Changes  VEGETATIVE (CATTAIL) SWALE		WETLA	WO >			
Comments, Narrative Discussion, Justification of Category Changes  VEGETATIVE (CATTAIL) SWALE						
Comments, Narrative Discussion, Justification of Category Changes  VEGETATIVE (CATTAIL) SWALE						
Comments, Narrative Discussion, Justification of Category Changes  VEGETATIVE (CATTAIL) SWALE	Pa	MKING	OL	D FIELD		
Comments, Narrative Discussion, Justification of Category Changes  VEGETATIVE (CATTAIL) SWALE		Lot				
VEGETATIVÉ (CATTAIL) SWALE					•	
VEGETATIVÉ (CATTAIL) SWALE				· ·	•	
VEGETATIVÉ (CATTAIL) SWALE						
VEGETATIVÉ (CATTAIL) SWALE			•			
VEGETATIVÉ (CATTAIL) SWALE		•				
VEGETATIVÉ (CATTAIL) SWALE						
VEGETATIVÉ (CATTAIL) SWALE						
VEGETATIVÉ (CATTAIL) SWALE				·		
	Comments, Narrative Discussi	on, Justification of Categ	ory Changes			4444
		CATTAIL	SWALE			
	VEGETA	ATIVE CONTIN	)			
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				•	•	
					<del></del>	

<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	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

a b	"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?  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?  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?  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?	Circle one YES Wetland is a Category 3 wetland. Go to Question 8b  YES Wetland should be evaluated for possible Category 3 status. Go to Question 9a YES Go to Question 9b YES	NO Go to Question 8b  NO Go to Question 9a  NO Go to Question 10
b aa	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?  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?  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?  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	Wetland is a Category 3 wetland.  Go to Question 8b  YES  Wetland should be evaluated for possible Category 3 status.  Go to Question 9a  YES  Go to Question 9b	NO Go to Question 9a  NO Go to Question 10
a	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?  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?  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?  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	Go to Question 8b  YES  Wetland should be evaluated for possible Category 3 status.  Go to Question 9a  YES  Go to Question 9b	Go to Question 9a
a	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?  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?  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	Wetland should be evaluated for possible Category 3 status. Go to Question 9a  YES Go to Question 9b	Go to Question 9a
lb	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?  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	YES Go to Question 9b	Go to Question 10
lb	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?  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	Go to Question 9b	Go to Question 10
	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		
	prevent erosion and the loss of aquatic plants, i.e. the wetland is partially hydrologically restricted from Lake Erie due to lakeward or	YES	
)c		Wetland should be evaluated for possible Category 3 status	NO Go to Question 9c
)c		Go to Question 9d	
	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
∂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
			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 matter, 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 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	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)

<del></del>	riela Po	rm Quantitative Rating	/ · \	Date:
Site:		Rat	er(s):	Date.
ſ		7		
	14	1		
1	ıblotal this pa			
sı	iototai triis pa	ngo -		•
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

Table LV	aluation Index Field Sheet QHEI Score:	51.5
Date: 8/28/06 Location: NEAR INTERS	710	
Scorers Full Name: K. (Auc Affiliation:	ASC Grove Lic	
1] SUBSTRATE (Check ONLY Two SubstrateTYPE BOXES:	Estimate % present	
TYPE POOL RIFFLE POOL RIFF	LE SUBSTRATE QUALITY	
LIL-BLDR/SLBS[10] II-GRAVEL[7] 15	Check ONE (OR 2 & AVERAGE) Check ONE (OR 2 & AVERAGE)	
□ □-BOULDER [9] □ □-SAND [6]	☐ -LIMESTONE [1 ] SILT: ☐-SILT HEAVY [-2]	
□□-COBBLE [8] □□-BEDROCK[5] □		Substrate
□ □-HARDPAN [4] AD-DETRITUS[3] 25	□ -WETLANDS[0] □ -SILT NORMAL [0]	
D-MUCK [2]  D-ARTIFICIAL[0]  NOTE: Inner State Original	☐ -HARDPAN [0] ☐ -SILT FREE [1]	4
NOTE: Ignore Sludge Originating From Point Sources	-SANDSTONE [0] EMBEDDED -EXTENSIVE [-2]	Max 20
NUMBER OF SUBSTRATE TYPES:	- CI-RIP/RAP [0] NESS: MODERATE [-1]	IVIAX ZU
/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	COAL FINES [-2]	
(Structure) TYPE: Score All That Occur		Cover
1 UNDERCUT BANKS [1] 1 POOLS> 70 cm [2]	check 2 and AVERAGE)	COAE
OVERHANGING VEGETATION [1]  POOLS > 70 EM [2]  ROOTWADS [1]	OXBOWS, BACKWATERS [1] - EXTENSIVE > 75% [11]	12
O SHALLOWS (IN SLOW WATER) [1] O BOULDERS [1]	O AQUATIC MACROPHYTES [1] A-MODERATE 25-75% [7] LOGS OR WOODY DEBRIS [1] - SPARSE 5-25% [3]	10
		Max 20
3] CHANNEL MORPHOLOGY: (Check ONLY One PER Cate	GRODY OR check 2 and AVERAGE	
SINUUSITY DEVELOPMENT CHANNELIZATION		Channel
☐ - HIGH [4] ☐ - EXCELLENT [7] ☐ - NONE [6]	□ - HIGH [3] □ - SNAGGING □ - IMPOUND.	
☐-MODERATE [3] ☐-GOOD [5]   RECOVERED [4]	MODERATE [2] - RELOCATION - ISLANDS	11
X- LOW [2] X- FAIR [3]	D-10W [1] D-CANOPY REMOVAL D-15VEED	May 20
- NONE [1] - POOR [1] - RECENT OR NO	☐ - DREDGING ☐ - BANK SHAPING	Max 20
RECOVERY [1]	ONE SIDE CHANNEL MODIFICATIONS	
COMMENTS:		
4]. RIPARIAN ZONE AND BANK EROSION check ONE box per RIPARIAN WIDTH FLOOD PLAIN OLIA	bank or check 2 and AVERAGE per bank) PRiver Right Looking Do	ownstream f
L R (Per Bank)  L R (Most Predominant Per Bank	ALITY (PAST 100 Meter RIPARIAN) BANK EROSION	Riparian
UI WIDE > 50m [4]	LR (Per Bank)	
MODERATE 10-50m [3] STE-SHRUB OR OLD FIELD [2]		
		7.5
NARROW 5-10 m [2] PRESIDENTIAL PARK NEW FIFI D	URBAN OR INDUSTRIAL [0] DECEMODERATE [2]	
- NARROW 5-10 m [2] - RESIDENTIAL, PARK, NEW FIELD	URBAN OR INDUSTRIAL [0] MODERATE [2] [1] U-OPEN PASTURE, ROWCROP [0] U-HEAVY/SEVERE[1]	
PCI - NARROW 5-10 m [2] PRESIDENTIAL, PARK, NEW FIELD UP - VERY NARROW <5 m[1] PENCED PASTURE [1] PI - NONE [0] 15 1-5	URBAN OR INDUSTRIAL [0] DECEMODERATE [2]	
□□- NARROW 5-10 m [2] □□- RESIDENTIAL, PARK, NEW FIELD □□- VERY NARROW <5 m[1] □□- FENCED PASTURE [1]	URBAN OR INDUSTRIAL [0] MODERATE [2] [1] U-OPEN PASTURE, ROWCROP [0] U-HEAVY/SEVERE[1]	
PAG- NARROW 5-10 m [2] PRESIDENTIAL, PARK, NEW FIELD OF VERY NARROW <5 m[1] PENCED PASTURE [1] OF NONE [0] 1.5 1.5 COMMENTS:	URBAN OR INDUSTRIAL [0] MODERATE [2] [1] U-OPEN PASTURE, ROWCROP [0] U-HEAVY/SEVERE[1]	
- NARROW 5-10 m [2] - RESIDENTIAL, PARK, NEW FIELD - VERY NARROW <5 m[1] - FENCED PASTURE [1] - NONE [0] - 1.5   1.5    COMMENTS: - 5.] POOL/GLIDE AND RIFFLE/RUN QUALITY	URBAN OR INDUSTRIAL [0] MODERATE [2] [1] U-OPEN PASTURE, ROWCROP [0] U-HEAVY/SEVERE[1] [1] U-MINING/CONSTRUCTION [0]	Max 10
DO-NARROW 5-10 m [2] PRESIDENTIAL, PARK, NEW FIELD DO-VERY NARROW <5 m[1] DO-FENCED PASTURE [1] DO-NONE [0] 1.5 1.5  COMMENTS:  5.]POOL/GLIDE AND RIFFLE/RUN QUALITY MAX. DEPTH MORPHOLOGY	[1] U-OPEN PASTURE, ROWCROP [0] U-HEAVY/SEVERE[1] U-MINING/CONSTRUCTION [0]	Max 10
DI- NARROW 5-10 m [2] PRESIDENTIAL, PARK, NEW FIELD DI- VERY NARROW <5 m[1] DI-FENCED PASTURE [1] DI- NONE [0] 1.5 1.5  COMMENTS:  5.]POOL/GLIDE AND RIFFLE/RUN QUALITY MAX. DEPTH MORPHOLOGY (Check 1 ONLY!) (Check 1 or 2 & AVERAGE)	URBAN OR INDUSTRIAL [0] MODERATE [2] [1] U-OPEN PASTURE, ROWCROP [0] U-HEAVY/SEVERE[1] [1] U-MINING/CONSTRUCTION [0]  CURRENT VELOCITY [POOLS & RIFFLES!]	Max 10
To NARROW 5-10 m [2]  The Residential, Park, New Field  The Very Narrow <5 m[1]  The Fenced Pasture [1]  The None [0]  I.S. I.S.  COMMENTS:  5.]POOL/GLIDE AND RIFFLE/RUN QUALITY  MAX. DEPTH  (Check 1 ONLY!)  MORPHOLOGY  (Check 1 or 2 & AVERAGE)  The POOL WIDTH > RIFFLE WIDTH [2]	URBAN OR INDUSTRIAL [0] MODERATE [2] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [0] U-PEAVY/SEVERE[1] U-POPEN PASTURE, ROWCROP [1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PEAVY/SEVERE[1] U-PE	Max 10
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The sidential, park, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field re	CURRENT VELOCITY [POOLS & RIFFLES!]  (Check All That Apply)	Max 10
The substitution of the su	CURRENT VELOCITY [POOLS & RIFFLES!]  (Check All That Apply)  -FAST[1] -FAST[1] -INTERSTITIAL[-1]	Max 10
The sidential, park, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field residential, new field re	CURRENT VELOCITY [ POOLS & RIFFLES!]  (Check All That Apply)  -FAST[1] -MODERATE [1] MODERATE [1	Max 10
The substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the substitution of the su	CURRENT VELOCITY [ POOLS & RIFFLES! ]  (Check All That Apply)  -FAST[1] -MODERATE [1] -MODERATE [1] -MODERATE [1] -MODERATE [1] -VERY FAST[1]	Max 10
The substitution of the control of t	CURRENT VELOCITY [POOLS & RIFFLES!]  (Check All That Apply)  -FAST[1] -MODERATE [1] -MODERATE [1] -MODERATE [1] -MODERATE [1] -MODERATE [1] -VERY FAST[1]	Pool/ current
- NARROW 5-10 m [2] - VERY NARROW <5 m[1] - VERY NARROW <5 m[1] - FENCED PASTURE [1] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - NONE [0] - N	CURRENT VELOCITY [POOLS & RIFFLES!]  CURRENT VELOCITY [POOLS & RIFFLES!]  (Check All That Apply)  -EDDIES[1] -TORRENTIAL[-1] -FAST[1] -INTERSTITIAL[-1] -MODERATE [1] -INTERMITTENT[-2] -SLOW [1] -VERY FAST[1]  CHECK 2 AND AVERAGE LE/RUN SUBSTRATE RIFFLE/RUN EMBEDDEDNESS	Pool/ current
- NARROW 5-10 m [2] - RESIDENTIAL, PARK, NEW FIELD - VERY NARROW <5 m[1] - FENCED PASTURE [1] - NONE [0]	CURRENT VELOCITY [POOLS & RIFFLES!]  (Check All That Apply)  -EDDIES[1] -TORRENTIAL[-1] -FAST[1] -INTERSTITIAL[-1] -MODERATE [1] -INTERSTITIAL[-1] -MODERATE [1] -VERY FAST[1]  CHECK 2 AND AVERAGE LE/RUN SUBSTRATE RIFFLE/RUN EMBEDDEDNESS  E (e.g., Cobble, Boulder) [2] -NONE [2]	Pool/ current
- NARROW 5-10 m [2] - RESIDENTIAL, PARK, NEW FIELD - VERY NARROW <5 m[1] - FENCED PASTURE [1] - NONE [0] 1.5 1.5  COMMENTS:  5.]POOL/GLIDE AND RIFFLE/RUN QUALITY - MAX. DEPTH - MORPHOLOGY - (Check 1 or 2 & AVERAGE) - 0.7-1m [4] - POOL WIDTH > RIFFLE WIDTH [1] - 0.4-0.7m [2] - POOL WIDTH < RIFFLE WIDTH [1] - 0.2- 0.4m [1] - O.2- 0.4m [1] - < 0.2m [POOL=0] - COMMENTS: NO RIFFLES  - CHECK ONE OF RIFFLE DEPTH - RUN DEPTH - RIFFLE OF RUN DEP	CURRENT VELOCITY [POOLS & RIFFLES!]  (Check All That Apply)  -EDDIES[1] -TORRENTIAL[-1] -FAST[1] -INTERSTITIAL[-1] -MODERATE [1] -INTERSTITIAL[-1] -MODERATE [1] -VERY FAST[1]  CHECK 2 AND AVERAGE LE/RUN SUBSTRATE RIFFLE/RUN EMBEDDEDNESS -E (e.g.,Cobble, Boulder) [2] -NONE [2]  STABLE (e.g.,Large Gravel) [1] -LOW [1]  MI-HEAVY/SEVERE[1]  -HEAVY/SEVERE[1]  CHECK 2 RIFFLES!]  CHECK 2 AND AVERAGE  RIFFLE/RUN EMBEDDEDNESS  E (e.g.,Cobble, Boulder) [2] -NONE [2]  STABLE (e.g.,Large Gravel) [1] -LOW [1]	Pool/Current Tax 12  ffle/Run O ax 8
The substitution of the set areas < 5.cm    Common   Comm	CURRENT VELOCITY [POOLS & RIFFLES!]  (Check All That Apply)  -EDDIES[1]TORRENTIAL[-1] -FAST[1]INTERSTITIAL[-1] -MODERATE [1]INTERSTITIAL[-1] -MODERATE [1]VERY FAST[1]  CHECK 2 AND AVERAGE LE/RUN SUBSTRATE RIFFLE/RUN EMBEDDEDNESS -E (e.g.,Cobble, Boulder) [2]NONE [2]  STABLE (e.g.,Large Gravel) [1]MODERATE [0] G  ABLE (Fine Gravel,Sand) [0]MODERATE [0] G	Pool/ current
Check 1 Only!   Check 1 or 2 & AVERAGE	CURRENT VELOCITY [POOLS & RIFFLES!]  (Check All That Apply)  -EDDIES[1]NORENTIAL[-1] -FAST[1]INTERSTITIAL[-1] -MODERATE [1]INTERMITTENT[-2] -SOUNDVERY FAST[1]  R CHECK 2 AND AVERAGE LE/RUN SUBSTRATE RIFFLE/RUN EMBEDDEDNESSE (e.g.,Cobble, Boulder) [2]NONE [2]  STABLE (e.g.,Large Gravel) [1] LOW [1]  ABLE (Fine Gravel,Sand) [0] EXTENSIVE [-1]	Pool/ current 7 dax 12
Check 1 Only!   Check 1 or 2 & Average	CURRENT VELOCITY [POOLS & RIFFLES!]  (Check All That Apply)  -EDDIES[1] -TORRENTIAL[-1] -FAST[1] -INTERSTITIAL[-1] -MODERATE [1] -INTERMITTENT[-2] -SLOW [1] -VERY FAST[1]  R CHECK 2 AND AVERAGE LE/RUN SUBSTRATE RIFFLE/RUN EMBEDDEDNESS LE (e.g.,Cobble, Boulder) [2] -NONE [2]  STABLE (e.g.,Large Gravel) [1] -LOW [1]  ABLE (Fine Gravel,Sand) [0] -EXTENSIVE [-1]	Pool/ current  Tlax 12  Ifle/Run  ax 8  radient
The substitution of the set areas < 5.cm    Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Comm	CURRENT VELOCITY [POOLS & RIFFLES!]  (Check All That Apply)  -EDDIES[1] -TORRENTIAL[-1] -FAST[1] -INTERSTITIAL[-1] -MODERATE [1] -INTERMITTENT[-2] -SLOW [1] -VERY FAST[1]  R CHECK 2 AND AVERAGE LE/RUN SUBSTRATE RIFFLE/RUN EMBEDDEDNESS LE (e.g.,Cobble, Boulder) [2] -NONE [2]  STABLE (e.g.,Large Gravel) [1] -LOW [1]  ABLE (Fine Gravel,Sand) [0] -EXTENSIVE [-1]	Pool/ current 7 dax 12
- NARROW 5-10 m [2] - RESIDENTIAL, PARK, NEW FIELD - VERY NARROW <5 m[1] - FENCED PASTURE [1] - NONE [0] 1.5 1.5  COMMENTS:  5.]POOL/GLIDE AND RIFFLE/RUN QUALITY - MAX. DEPTH - MORPHOLOGY (Check 1 or 2 & AVERAGE) - NAME OF THE WIDTH [2] - 0.7-1m [4] - POOL WIDTH > RIFFLE WIDTH [1] - 0.4-0.7m [2] - POOL WIDTH < RIFFLE WIDTH [1] - 0.2-0.4m [1] - 0.2-0.4m [1] - < 0.2m [POOL=0] - COMMENTS: NO RIFFLES  CHECK ONE OF RIFFLE DEPTH - RUN DEPTH RIFFLE - Best Areas >10 cm [2] - MAX > 50 [2] - STABLE - Best Areas < 5.cm - CHECK ONE OF RIFFLE=0]  COMMENTS: - DRAINAGE AREA (sq.mi.) : 5	CURRENT VELOCITY [POOLS & RIFFLES!]  (Check All That Apply)  -EDDIES[1] -TORRENTIAL[-1]  -FAST[1] -INTERSTITIAL[-1]  -MODERATE [1] -INTERMITTENT[-2]  SLOW [1] -VERY FAST[1]  R CHECK 2 AND AVERAGE  LE/RUN SUBSTRATE RIFFLE/RUN EMBEDDEDNESS  LE (e.g., Cobble, Boulder) [2] - NONE [2]  STABLE (e.g., Large Gravel) [1] - LOW [1]  ABLE (Fine Gravel, Sand) [0] - EXTENSIVE [-1]  -NO RIFFLE [Metric=0]  M-100 MGLIDE:	Pool/ current  fle/Run  ax 8  radient
Check 1 Only!   Check 1 or 2 & Average	CURRENT VELOCITY [ POOLS & RIFFLES!]  (Check All That Apply) EDDIES[1]TORRENTIAL[-1] FAST[1]INTERSTITIAL[-1] MODERATE [1]INTERMITTENT[-2] SLOW [1]VERY FAST[1]  R CHECK 2 AND AVERAGE  LE/RUN SUBSTRATE RIFFLE/RUN EMBEDDEDNESS E (e.g., Cobble, Boulder) [2] NONE [2]  STABLE (e.g., Large Gravel) [1] LOW [1]  ABLE (Fine Gravel, Sand) [0] EXTENSIVE [-1]  NO RIFFLE [Metric=0]  M  RIFFLE: %RUN:  M  ARUN:  M  RIFFLE:  M  M  M  RIFFLE:  M  M  M  RIFFLE:  M  M  RIFFLE:  M  M  RIFFLE:  M  M  RIFFLE:  RIFFLE:  M  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFLE:  RIFFL	Pool/ current  Tlax 12  Ifle/Run  ax 8  radient

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 No 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: 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: N/A	
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:	
BIOTIC EVALUATION	
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:	
	_
	egene?
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	
To l	
P   P   P   P   P   P   P   P   P   P	
FLOW PLOW	
STEEP SLOPE	
STEEP SLOPE	
BUSINESS PARKING LOT	

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

SITE NAME/LOCATION _ 5+ 1/2 m 3	THIEL Score (sum of metrics 1, 2, 3)	: 0-1
	RIVER BASIN DRAINAGE AREA	12
LENGTH OF STREAM REACH (#)	LAT LONG RIVER CODE RIVER	(mi²)
DATE 8/1 /06 SCORER 1- MCA	LONG. RIVER CODE RIVER	MILE
	n - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" 1	
	" - No.e, to Their Evaluation Manual for Onio's PHWH Streams" 1	or Instructions
SIREAM CHANNEL NONE NOT	iural Ghannel (Direcovered (Direcovering Direcen ort	No recovery
MODIFICATIONS:		
SUBSTRATE (Estimate percent of ever	ry type of substrate present. Check ONLY two predominant substrate TYPE	
(wax or 32). Add total number of significa	ant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	HHE
TYPE  BLDR SLABS [16 pts]	ERCENT TYPE PERCEN	<u>⊓</u> Metri
☐ ☐ BOULDER (>256 mm) [16 pts]	LEAF PACKWOODY DEBRIS [3 pts]	
☐ ☐ BEDROCK [16 pt]	GLAY of HARDPAN [0 pt]	Substrai
GRAVEL (2-64 mm) [9 pts]		- 17
SAND (<2 mm) [6 pts]	ARTIFICIAL [3 pts]	-    7
Total of Percentages of	(A)	
Bidr Slabs, Boulder, Cobbie, Bedrock SCORE OF TWO MOST PREDOMINATE SUBST	<u>U</u> [3]	/ A+B
Maximum Pool Depth (Measure the ma evaluation, Avoid plunge pools from road	aximum pool depth within the 61 meter (200 ft) evaluation reach at the time d culverts or storm water pipes) (Check ONLY one box):	
→ ≥ 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
		5
	- The second sec	
3. BANK FULL WIDTH (Measured as the	average of 3-4 measurements) (Check ONLY one box):	Bankfu
> 4:0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7' - 13') [25 pts]	>1.0 m (>3-3"-4' 8")[15 pts] = (1.0 m (>3-3"-3")[5 pts]	Width Max=3
1.5 m - 3,0 m (> 9"7" - 4' 8") [20 pts]		4
COMMENTS	AVERAGE BANKFULL WIDTH (meters)	13 /5
		No.
RIPARIAN ZONE AND FLOOD	This information <u>must</u> also be completed	
RIPARIAN WIDTH	PLAIN QUALITY	eamtr
LR (Per Bank)  Wide >10m	L R (Most Predominant per Bank) L R  Mature Forest, Wetland	
☐ ☐ Moderate 5-10m	Immature Forest Shrib or Old	
	Field Cy Cy Urban or Indi	
Narrow <5m	Residential, Park, New Field D Open Pastur	e, Row
None COMMENTS_	Fenced Pasture	nstruction
		***
FLOW REGIME (At Time of Eva	aluation) (Check ONLY one box):	
Subsurface flow with isolated poor	ols (Interstitial)  Moist Channel, isolated pools, no flow (Interstitial)  Dry channel, no water (Ephemeral)	neminent)
COMMENTS		
SINUOSITY (Number of bends p	per 61 m (200 ft) of channel) (Check ONLY one box):	
0 0.5	1.0	
STREAM GRADIENT ESTIMATE		
Flat (0.5 tv100 ft)  Flat to Moderate	☐ Moderate (2 t/100 ft) ☐ Moderate to Severe ☐ Se	evere (10 fv100 ft)

QHEI PERFORMED? -	-com)
WH Name:	J,
MN Name:	luated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MAPPING: MAPPING: NRCS Soil Map Page: NRCS NRCS Soil Map Page: NRCS Township / City.  MISCELLANEOUS  Flow Conditions? (Y/N): Date of last precipitation: Quantity: Orange in the control of last precipitation: Quantity: Orange in the control of last precipitation: Quantity: Orange in the control of last precipitation: Quantity: Orange in the control of last precipitation: Quantity: Orange in the control of last precipitation: Quantity: Quantity: Quantit	uated Stream
S Quadrangle Name:	
S Quadrangle Name:	ARK THE SITE LOCATION
Township / City:    MISCELLANEOUS   7	
Flow Conditions? (Y/N): Date of last precipitation: Quantity: paraph Information:	•
Flow Conditions? (Y/N): Date of last precipitation: Quantity:	
paraph Information:  Canopy (% open):  samples collected for water chemistry? (Y/N):  c samples collected for water chemistry? (Y/N):  Dissolved Oxygen (mg/l)  pH (S.U.)  Conductivity  e sampling reach representative of the stream (Y/N)  if not, please explain:  BIOTIC EVALUATION  formed? (Y/N):  (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher ID number. Include appropriate field data sheets from the Primary Headwater Hat  n Observed? (Y/N)  youcher? (Y/N)  Salamanders Observed? (Y/N)  youcher? (Y/N)  Aquatic Macroinvertebrates Observed? (Y/N)  DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (Tris in Include Important landmarks and other features of interest for site evaluation and a narrative description of the primary has a control of the primary Headwater Hat  A Description of pollution impacts:  BIOTIC EVALUATION  (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher in the primary Headwater Hat  NODE of the primary Headwater Hat  NODE of the primary Headwater Hat  NODE of the primary Headwater Hat  NODE of the primary Headwater Hat  NODE of the primary Headwater Hat  NODE of the primary Headwater Hat  NODE of the primary Headwater Hat  NODE of the primary Headwater Hat  NODE of the primary Headwater Hat  NODE of the primary Headwater Hat  NODE of the primary Headwater Hat  NOTE: all voucher  (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher  In unmore. Include appropriate field data sheets from the Primary Headwater Hat  NODE of the primary Headwater Hat  NODE of the primary Headwater Hat  NOTE: all voucher  (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher  BIOTIC EVALUATION  (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher  (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher  (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher  (If Yes, Record all observations. Voucher collections option	
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e samples collected for water chemistry? (Y/N):	ř
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# ChieFPA Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3):

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П	1

SITE NAME/LOCATION		ocore (sum of metrics 1, 2, 3):	
		DRAINAGE AREA (mi²)	112
LENGTH OF STREAM REACH (ft)	LAT, LONG.	RIVER CODE BIVER MILE	
DATE TO 11 100 SCORER	IIICK IN PROGMMENTS	Class I	
NOTE: Complete All Items On Th	is Form - Refer to "Field Evaluation M	anual for Ohio's PHWH Streams" for Ins	tructions
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<ol> <li>SUBSTRATE (Estimate percent (Max of 32). Add total number of</li> </ol>	t of every type of substrate present. Check	ONLY two predominant substrate TYPE boxes	1
ITPE	significant substrate types found (Max of 8). F PERCENT TYPE	PERCENT	HHE Metri
BLDR SLABS [16 pts] BOULDER (>256 mm) [16 pt			Point
□ □ BEDROCK [16 pt]		CK/WOODY DEBRIS [3 pts]  RITUS [3 pts]	Substrat
COBBLE (65-256 mm) [12 pt	s] CLAY or H	HARDPAN [0 pt]	Max = 4
GRAVEL (2-64 mm) [9 pts] SAND (<2 mm) [6 pts]	V 二次学为第二次的		114
Total of Percentages of	ARTIFICIA	VANDER OF STREET	
Bldr Slabs, Boulder, Cobble, Bed	rock <u>70 -</u> (4) 3	(B) /	A+B
SCORE OF TWO MOST PREDOMINATE	SUBSTRATE TYPES: TOTA	AL NUMBER OF SUBSTRATE TYPES:	J. V
Maximum Pool Depth (Measure	e the maximum pool depth within the 61 me	eter (200 ft) evaluation reach at the time of	Pool Dep
☐ > 30 centimeters [20 pts]	om road culverts or storm water pipes) (Che	eck ONLY one box): 10 cm [15 pts]	Max = 3
> 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts]	<b>√</b> <5 cm [5	5 pts]	E
Acceptance of Contract Contract	D SNOWAT	ER OR MOIST CHANNEL [0 pts]	
COMMENTS		AXIMUM POOL DEPTH (centimeters):	
BANK FULL WIDTH (Measured > 4.0 meters (> 13') [30 pts]	as the average of 3-4 measurements)	(Check ONLY one box):	Bankful
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 p	ts / 10 m /	1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 3' 3") [5 pts]	Width _Max=30
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20	pts]		
COMMENTS	AV	ERAGE BANKFULL WIDTH (meters)	1/5
RIPARIAN ZONE AND F	This information must also be LOODPLAIN QUALITY ☆NOTE: River be	e completed .eft (L) and Right (R) as looking downstream☆	
RIPARIAN WIDTH L R (Per Bank)	FLOODPLAIN QUALITY		
☐ ☐ Wide >10m	L R (Most Predominant per B Mature Forest, Wetland	Bank) L R Conservation Tillage	
☐ ☐ Moderate 5-10m	Immature Forest, Shrub		
\ □\□ Narrow <5m	Field  Residential, Park, New F	0	
None	Fenced Pasture	Crop	
COMMENTS		Mining or Construction	1
FLOW REGIME (At Time	of Evaluation) (Check ONLY one box):		-
Stream Flowing Subsurface flow with isolat	_ , _ ,	loist Channel, isolated pools, no flow (Intermitten	t)
COMMENTS	——————————————————————————————————————	ry channel, no water (Ephemeral)	
SINUOSITY (Number of b	pends per 61 m (200 ft) of channel) (Check (	OM Vone boy):	_
None 0.5	☐ 1.0 ☐ 2.0	3.0	
·	☐ 1.5 ☐ 2.5	□ >3	
STREAM GRADIENT ESTIMATE  Flat (0.5 ft/100 ft)	_		
the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the 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	ate Moderate (2 ft/100 ft)	Moderate to Severe Severe (10 ft/	100 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
FAA Memorandum of Telephone Call with USACOE, July 24, 2008
FAA Email to USACOE, September 18, 2008
FAA Email to USACOE, October 29, 2008
Email from USACOE to FAA, January 26, 2009
Documentation for January 26, 2009 email from USACOE

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March 28, 2008

Board of Directors Kathleen H. Ransier Chair Dwight E. Smith Vice Chair

Don M. Casto, III Frank J. Cipriano John W. Kessler Wm. J. Lhota James P. Loomis, P.E. George A. Skestos Dennis L. White

Elaine Roberts, A.A.E. President & CEO

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



## **Memorandum**

Date: July 24, 2008

From: Community Planner, Detroit Airports District Office

To: CMH EIS File

Prepared by: Katherine S. Jones

Subject: Port Columbus International Airport, Draft Environmental Impact Statement

US Army Corps of Engineers Comments

The FAA called the U.S Army Corps of Engineers (Corps) on July 7, 2008 to remind them of the comment deadline of July 11, 2008. The FAA called a second time on July 21, 2008 to inquire if comments had been sent.

Ms. Susan Fields from the U.S. Army Corps of Engineers –Huntington District left a voicemail on July 23, 2008 for Ms. Katherine Jones, FAA, regarding the Port Columbus International Airport, Draft Environmental Impact Statement. A summary of her voicemail follows.

Ms. Fields stated that the Corps reviewed the aquatic resources/wetlands section of the DEIS and they have no issues or comments at this time. They have previously reviewed and verified the delineation that was completed for the wetlands in the project area.

Ms. Fields stated that if the FAA was waiting for their comments, then to proceed as comments marked absent because they would not be able to provide comments at this time.

Katherine S
Jones/AGL/FAA
AGL-DET-ADO,
Detroit, MI

To: Susan Fields

Cc:

09/18/2008 11:06 AM

Subject: Port Columbus EIS/Wetland Information

#### Susan:

Here is the information that we discussed earlier today. The first page is a summary table of the differences between the COE letter from January 7, 2008 and the Wetland Delineation Report found in Appendix K (Volume 4 of the EIS document).

I've also attached the specific pages for each reference in the table.

We are currently in the process of addressing all the agency comments and preparing the Final EIS. If you could get me a corrected letter by Oct 10, 2008 that would be great. If you have any questions, please let me know.

I really appreciate you reviewing this information and providing us a corrected letter.

Thanks, Katy 734-229-2958

(See attached file: wetland info.pdf)

## CMH EIS, Appendix K

Comparison of Cor	ps of Engineers an	d Appendix K	
Type of Wetland	Corps	Appendix K	
Jurisdictional Wetlands	1.81 acres	2.14 acres	P.
Jurisdictional Streams	8,229 linear feet	8,292 linear feet	p. 10
Isolated Wetlands	8.21 acres	8.43 acres	D.
Isolated Ponds	2.98 acres	2.98 acres	D.1



#### 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,

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

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

Wetland/	Description	Location	Classification	Major Plant Species	rt Species	Hydrologic	ORAM v.	ORAM	Area Within
Area No.	nondinasa	TOCATION	al. 1979)	Scientific Name	Common Name	Status	5.0 Score	Category	rroject Area (acres)
-	Forested wetland	Second-growth forest south of 17th 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	PF01C	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	PFO1C	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 saccharinum Fraxinus pennsylvanica Viburnum 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	PFOIC	Acer saccharinum Viburnum dentatum Scirpus 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	PFOIC	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	PFO1C	Quercus palustris Ulmus americana	Pin oak American elm	Isolated	49	2	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	7	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/	Description	Location	Classification	Major Plant Species	nt Species	Hydrologic	ORAM v.	ORAM	Area Within
Area No.	mondings		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	PEMIE	Juncus effusus Scirpus cyperinus	Soft rush Woolgrass	Isolated	15.5	1	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	1	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	1	09.0
18	Ditch	South of 5th Avenue	PEMC	Typha angustifolia	Narrow-leaved cattail	Connected	10	1	0.01
				Total	7				10.57

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
171	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						

#### 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.

From: Katherine.S.Jones@faa.gov [mailto:Katherine.S.Jones@faa.gov]

Sent: Wednesday, October 29, 2008 8:55 AM

To: Susan Fields

Cc: Dave Wall; Bernie Meleski; Rob Adams Subject: CMH - DEIS Wetlands Update

#### Susan:

Thank you for all your help as the FAA has worked to resolve the outstanding wetland issues at the Port Columbus International Airport. During the review of the DEIS some discrepancies were noted between the January 7, 2008 letter from the US Army Corps of Engineers and the DEIS Appendix K, Biological Resources.

The COE stated in the January 7, 2008 letter the following determinations for the EIS project area:

Jurisdictional Wetlands - 1.81 acres Jurisdictional Streams - 8,229 linear feet Isolated Wetlands - 8.21 acres Isolated Ponds - 2.98 acres

The numbers provided in the January 7, 2008 letter did not match the EIS documentation. Upon further review, the FAA has determined that two of the original numbers presented in Appendix K were incorrect.

The isolated ponds determination of 2.98 acres is consistent in both the COE letter and EIS documentation.

The Jurisdictional Streams appears to have a transposed number in the COE letter. The correct linear feet for the jurisdictional streams is 8,292 LF.

Attached is a table that details the discrepancies in the jurisdictional and isolated wetland numbers from Appendix K. As noted in the Table, wetlands at CMH were removed from the EIS project area due to projects that were permitted during the initial stages or after the field investigation was completed for the DEIS. These projects all have independent utility from the EIS projects and the wetland impacts will be accurately captured in the cumulative effects section of the EIS.

Please review this documentation and provide an email response back to me that the COE has reviewed this information and concurs with the corrections. This is important for the FAA to continue moving the EIS forward and allow us to issue a Record of Decision.

If you have any questions, please copy everyone back in your reply. I will be out of the office starting Oct 30 and will not return until Nov 20. Rob Adams is the FAA contractor on this project and I have had multiple discussions with him on the wetland comments. The Airport is also very well versed in this. You should be able to get additional information from the group if needed.

I will contact you upon my return to see how your review is going..

Thanks again for all your help.

### Katy

(See attached file: COE Wetlands Table.doc)

## Isolated Wetlands – Changes from 2003 JD, including permits issued during EIS on independent projects

2003 Wetland Name	2003 Wetland Acreage	2007 Wetland Name	2007 Wetland Acreage	Impacted Wetlands	New Wetland Acreage	Project Associated with Wetland Impact
12A	0.006	12A	0.0	0.006	0.0	17 th Ave Parking Lot
12B	0.003	12B	0.0	0.003	0.0	17 th Ave Parking Lot
12C	0.06	12C	0.0	0.06	0.0	17 th Ave Parking Lot
12D	0.01	12D	0.0	0.01	0.0	17 th Ave Parking Lot
Total Isolate	ed Wetlands Re	moved	•	0.079 acr	es	•
New Isolate	d Wetlands at 0	CMH in EIS Pro	oject Area	8.13 acre	s	

## $Juris dictional\ Wetlands-Changes\ from\ 2003\ JD, including\ permits\ is sued\ during\ EIS\ on\ independent\ projects$

2003 Wetland Name	2003 Wetland Acreage	2007 Wetland Name	2007 Wetland Acreage	Impacted Wetlands	New Wetland Acreage	Project Associated with Wetland Impact
13	0.21	13	0.21	0.20	0.017	Unknown
15a	0.28	14a	0.28	0.08	0.20	Perimeter Road
28C	0.19	15C	0.19	0.036	0.15	Loop Road
28E	0.17	15E	0.17	0.12	0.05	Loop Road
33	0.06	16A & 16B	16A = 0.009 16B = 0.05 Total = 0.059	0.003	0.056	Blue Lot
35A	0.02	17A	0.02	0.17	0.0	Red Lot
35D	0.09	17D	0.09	0.092	0.0	Blue Lot
Total Jurisd	Total Jurisdictional Wetlands Removed				res	<b>-</b>
New Jurisdi	ctional Wetland	ds at CMH in EI	S Project Area	1.81 acre	es	

---- Forwarded by Katherine S Delaney/AGL/FAA on 01/26/2009 09:34 AM ----

"Fields, Susan A
LRH"
<Susan.A.Fields@u
sace.army.mil>

Katherine S Delaney/AGL/FAA@FAA

CC

To

01/23/2009 11:44 AM

Subject

RE: CMH - DEIS Wetlands Update

#### Hello Katy -

I have looked over your email and attachments and would like to confirm the following:

- You have correctly stated the contents of our January 7, 2008 letter.
- The isolated pond acreage remains 2.98 acres.
- Our letter did have transposed numbers in the length of stream. The letter

stated the length of stream is  $8,229 \, \mathrm{LF}$ . As indicated in your email, the correct length of stream is  $8,292 \, \mathrm{LF}$ .

Regarding the tables attached to your email, we concur with the changes described in the isolated wetland table.

We also concur with the acreages described in the jurisdictional wetland table for Wetland 15a, 28C, 33, 35A and 35D.

We are providing the following information for clarification of the acreage differences for Wetlands 13 and 28E.

- Wetland 13: Based on the information in our records, I cannot confirm the acreage of this wetland was reduced based on an authorized impact. Rather, it appears the delineated boundary was slightly different for the 2003 and 2007 delineation. The acreage difference for this wetland appears to be associated with the size of the delineated area as opposed to any change of wetland site. (Refer to footnote 5 in the table I sent by email on October 6, 2008 (attached))
- Wetland 28E: Based on the information in our records, I cannot confirm the

acreage of this wetland was reduced by authorized impacts for the Loop Road project. I believe the acreage difference is associated with differences in

how these wetlands were described in the two delineations. (Refer to footnote 6 in the table I sent by email on October 6, 2008 (attached).

Thank you for providing us with this information for review and concurrence.

Please call me if you have any questions.

Thank you,

Susan A. Fields, Project Manager North Regulatory Section (304) 399-5210 susan.a.fields@usace.army.mil

1617: Port Columbus Wetland Delineation Summary Table

Areas Identified in the 2003 Delineation Report & Addendum Report (Area Name and No.)	2003 Acreage/ Linear Ft.	Areas Identified in the 2007 Delineation Report (Area Name and No.)	2007 Acreage/ Linear Ft.	Change Noted
Wetland 1	0.11	Wetland 1	0.11	No changes made.
Wetland 2	0.84	Wetland 2	0.84	No changes made.
Wetland 3	0.06	Wetland 3	0.06	No changes made.
Wetland 4	0.07	Wetland 4	0.07	No changes made.
Wetland 5	0.05	Wetland 5	0.05	No changes made.
Wetland 6	0.03	Wetland 6	0.03	No changes made.
Wetland 7	0.14	Wetland 7	0.14	No changes made.
Wetland 8	0.40	Wetland 8	0.39	Decrease in 0.01 ac. The difference in acreage is attributed to rounding of the decimal places.
Wetland 9	0.05	Wetland 9	0.05	No changes made.
Wetland 10	0.21	Wetland 10	0.21	No changes made.
Wetland 11A	0.019	Wetland 11A	0.019	No changes made.
Wetland 11B	0.08	Wetland 11B	0.08	No changes made.
Wetland 11C	0.23	Wetland 11C	0.23	No changes made.
Wetland 11D	0.479	Wetland 11D	0.479	No changes made.
Wetland 11E	0.01	Wetland 11E	0.01	No changes made.
Wetland 11F	1.19	Wetland 11F	1.19	No changes made.
Wetland 11G	0.02	Wetland 11G	0.02	No changes made.
Wetland 11H	3.06	Wetland 11H	3.06	No changes made.
Wetland 11I	0.33	Wetland 11I	0.33	No changes made.
Wetland 11J ¹	(0.08) 0.10	Wetland 11J	0.10	No changes made.
Wetland 11K	0.05	Wetland 11K	0.05	No changes made.
Wetland 11L	0.002	Wetland 11L	0.002	No changes made.
Wetland 11M	0.46	Wetland 11M	0.46	No changes made.
Wetland 11N	0.01	Wetland 11N	0.01	No changes made.
Wetland 11O	0.003	Wetland 11O	0.003	No changes made.
Wetland 11P	0.01	Wetland 11P	0.01	No changes made.
Wetland 11Q	0.003	Wetland 11Q	0.003	No changes made.
Wetland 11R	0.009	Wetland 11R	0.009	No changes made.
Wetland 11S	0.001	Wetland 11S	0.001	No changes made.
Wetland 11T	0.003	Wetland 11T	0.003	No changes made.
Wetland 11U	0.004	Wetland 11U	0.004	No changes made.
Wetland 11V	0.008	Wetland 11V	0.008	No changes made.
Wetland 11W	0.02	Wetland 11W	0.02	No changes made.

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¹ Wetland originally delineated as 0.08 ac in the March 25, 2003 Wetland Delineation Report. Wetland redelineated at request of Corps. The area increased 0.02 ac as reported in the June 30, 2003 addendum report. Final acreage for Wetland 11J is 0.10.

1617: Port Columbus Wetland Delineation Summary Table

Areas Identified in the 2003 Delineation Report & Addendum Report (Area Name and No.)	2003 Acreage/ Linear Ft.	Areas Identified in the 2007 Delineation Report (Area Name and No.)	2007 Acreage/ Linear Ft.	Change Noted
Wetland 11X	0.05	Wetland 11X	0.05	No changes made.
Wetland 11Y	0.007	Wetland 11Y	0.007	No changes made.
Wetland 11Z ²	0.02	Wetland 11Z	0.02	No changes made.
Wetland 12A	0.006	Wetland 12A	0.006	No changes made.
Wetland 12B	0.003	Wetland 12B	0.003	No changes made.
Wetland 12C ³	0.06	Wetland 12C	0.06	No changes made.
Wetland 12D ⁴	0.01	Wetland 12D	0.01	No changes made.
Area 13 ⁵	0.21	Wetland 13	0.21	Name change, but same acreage.
Wetland 14				Out of new project area.
Wetland 15A	0.28	Wetland 14a	0.28	Name change, but same acreage.
Wetland 15B	0.17	This section has been culverted and is now destroyed.	0.00	This section has been culverted and is now destroyed.
Wetland 15C	0.14	Wetland 14b	0.14	Name change, but same acreage.
Wetland 16A				Out of new project area.
Area 16B–G				Out of new project area.
Area 17A				Out of new project area.
Area 17B				Out of new project area.
Wetland 17C				Out of new project area.

² Wetland 11Z was not addressed in the original March 25, 2003 Wetland Delineation Report. The wetland was delineated at the request of Corps and reported in the June 30, 2003 addendum report. Acreage for Wetland 11Z is reported as 0.02 in the June 30, 2003 addendum report. As a result, there is a difference of 0.02 acres between Table 4 of the 2003 report and Table 2 of the 2007 report. Table 4 addresses areas 11A-Y (6.17 acres) and the 2007 report addresses areas 11A-Z (6.19 acres). The addition of Wetland 11Z in the 2003 addendum report and the 2007 report accounts for the difference of 0.02 acres reported in the tables.

³ The wrong acreage was reported for Wetland 12C in the 2007 wetland delineation report. Wetland 12C is now located on the border of the project area due to the reconfiguration of the 2003 project area boundary. The shift in project area boundary was not taken into account when the acreages were reported in the 2007 report. As a result, the wrong acreage was reported in 2007. **The correct acreage for Wetland 12C should be 0.009.** 

⁴ Wetland acreages were reported collectively for Wetland areas 12A-D in the 2003 wetland delineation report. There is a difference of 0.001 acres for Wetland areas 12A-D between Table 4 (0.08 acres) of the 2003 report and Table 2 (0.079 acres) of the 2007 report. **The difference in 0.001 acres is attributed to the rounding of numbers.** The wrong acreage was reported for Wetland 12D in the 2007 wetland delineation report. Wetland 12D is now located on the border of the project area due to the reconfiguration of the 2003 project area boundary. The shift in project area boundary was not taken into account when the acreages were reported in the 2007 report. As a result, the wrong acreage was reported in 2007. **The correct acreage for Wetland 12D should be 0.002.** 

⁵ The wrong acreage was reported for Wetland 13 in the 2007 wetland delineation report. Wetland 13 is now located on the border of the project area due to the reconfiguration of the 2003 project area boundary. The shift in project area boundary was not taken into account when the acreages were reported in the 2007 report. As a result, the wrong acreage was reported in 2007. **The correct acreage for Wetland 13 should be 0.017**.

Areas Identified in the 2003 Delineation Report & Addendum Report (Area Name and No.)	2003 Acreage/ Linear Ft.	Areas Identified in the 2007 Delineation Report (Area Name and No.)	2007 Acreage/ Linear Ft.	Change Noted
Wetland 18				Out of new project area. Wetland acreage changed from 0.02 acres in the original delineation to 0.05 acres in the 2003 addendum report.
Area 19				Out of new project area.
Wetland 20				Out of new project area.
Wetland 21A				Out of new project area.
Wetland 21B				Out of new project area.
Wetland 21C				Out of new project area.
Wetland 22				Out of new project area.
Wetland 23				Out of new project area.
Wetland 24				Out of new project area.
Wetland 24B				Out of new project area. This area was not reported in original delineation. Area was addressed in the 2003 addendum report.
Wetland 25				Out of new project area.
Wetland 26A				Out of new project area.
Wetland 26B				Out of new project area. This area was not reported in original delineation. Area was addressed in the 2003 addendum report.
Wetland 27A				Out of new project area.
Wetland 27B				Out of new project area.
Wetland 28A	0.17	Wetland 15 A	0.17	Name change, but same acreage.
Wetland 28B	0.38	Wetland 15 B	0.38	Name change, but same acreage.
Wetland 28C	0.19	Wetland 15 C	0.19	Name change, but same acreage.
Wetland 28D	0.14	Wetland 15 D	0.14	Name change, but same acreage.
Wetland 28E ⁶	0.17	Wetland 15 E	0.17	Name change, but same acreage.

⁶ Wetland acreages were reported collectively for Wetland areas 28A-E in the 2003 wetland delineation report. The name of these areas changed to Wetlands 15A-E in the 2007 report. There is a difference of 0.01 acres for these wetland areas in Table 4 (1.04 acres) of the 2003 report and Table 2 (1.05 acres) of the 2007 report. The difference in 0.001 acres is attributed to the rounding of numbers.

The wrong acreage was reported for Wetland 15E in the 2007 wetland delineation report. Wetland 15E is now located on the border of the project area due to the reconfiguration of the 2003 project area boundary. The shift in project area boundary was not taken into account when the acreages were reported in the 2007 report. As a result, the wrong acreage was reported in 2007. **The correct acreage for Wetland 15E should be 0.05.** 

### 1617: Port Columbus Wetland Delineation Summary Table

Areas Identified in the 2003 Delineation Report & Addendum Report (Area Name and No.)	2003 Acreage/ Linear Ft.	Areas Identified in the 2007 Delineation Report (Area Name and No.)	2007 Acreage/ Linear Ft.	Change Noted
Area 28F				Out of new project area.
Area 28G				Out of new project area.
Wetland 29				Out of new project area.
Wetland 30A				Out of new project area.
Wetland 30B				Out of new project area.
Wetland 30C				Out of new project area.
Area 31A				Out of new project area.
Area 31B				Out of new project area.
Area 31C				Out of new project area.
Area 31D				Out of new project area.
Area 31E				Out of new project area.
Area 32	6,960 linear ft	Stream 1	7,287 linear ft	Name change and difference of 327 linear ft. The difference in linear footage is attributed to the change in project area.
Wetland 32A				Out of new project area.
Wetland 33	0.06	Wetland 16 A & B	16A=0.009 16B=0.05 Total=0.059	Name change. This area was one continuous area in the 2003 report. A culvert has since been installed breaking the area into two parts (A&B). There is a difference of 0.001 ac. from the culverting activities.
Area 34	480 linear ft	Stream 2	413 linear ft	Name change and difference of 67 linear ft. The difference in linear footage is attributed to the change in project area.
Wetland 35A	0.02	Wetland 17A	0.02	Name change, but same acreage.
Wetland 35B	0.18	Wetland 17B	0.17	Name change and decrease in 0.01 ac. The difference in acreage is attributed to rounding of the decimal places.
Wetland 35C	0.02	Wetland 17C	0.03	Name change and increase in 0.01 ac. The difference in acreage is attributed to rounding of the decimal places.
Wetland 35D	0.09	Wetland 17D	0.09	Name change, but same acreage.
Wetland 35E	0.03	Wetland 17E	0.03	Name change, but same acreage.

1617: Port Columbus Wetland Delineation Summary Table

Areas Identified in the 2003 Delineation Report & Addendum Report (Area Name and No.)	2003 Acreage/ Linear Ft.	Areas Identified in the 2007 Delineation Report (Area Name and No.)	2007 Acreage/ Linear Ft.	Change Noted
Wetland 35F	0.08	Wetland 17F	0.08	Name change, but same acreage.
Wetland 35G	0.03	Wetland 17G	0.03	Name change, but same acreage.
Wetland 35H	0.02	Wetland 17H	0.02	Name change, but same acreage.
Wetland 35I ⁷	0.13	Wetland 17I	0.13	Name change, but same acreage.
Area 36	590 linear ft	Stream 3	592 linear ft	Name change, difference in 2 linear ft. The difference in linear footage is attributed to differences in measuring.
Wetland 37	0.01	Wetland 18	0.01	Name change, but same acreage.
Area 38A	1.13	Pond 1	1.13	Name change, but same acreage.
Area 38B	1.40	Pond 2	1.40	Name change, but same acreage.
Area 38C	0.45	Pond 3	0.45	Name change, but same acreage.
Wetland 39				Out of new project area. This area was not reported in original 2003 delineation. Area was addressed in the 2003 addendum report.

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 $^{^{7}}$  Wetland acreages were reported collectively for Wetland areas 35A-I in the 2003 wetland delineation report. The name of these areas changed to Wetlands 17A-I in the 2007 report. There is a difference of 0.01 acres for these wetland areas in Table 4 (0.61 acres) of the 2003 report and Table 2 (0.60 acres) of the 2007 report. The difference in 0.01 acres is attributed to the rounding of numbers.